

Ingersoll-Rand plc  
Form 10-K  
February 14, 2014  
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

X ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE  
ACT OF 1934

For the fiscal year ended December 31, 2013

or

— TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE  
ACT OF 1934

For the transition period from to

Commission File No. 001-34400

INGERSOLL-RAND PUBLIC LIMITED COMPANY

(Exact name of registrant as specified in its charter)

Ireland

(State or other jurisdiction of incorporation or  
organization)

170/175 Lakeview Dr.

Airside Business Park

Swords, Co. Dublin

Ireland

(Address of principal executive offices)

Registrant's telephone number, including area code: +(353) (0) 18707400

Securities registered pursuant to Section 12(b) of the Act:

Title of each class

Ordinary Shares,

Par Value \$1.00 per Share

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

YES X NO

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the  
Act. YES NO X

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the  
Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was  
required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

YES X NO

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if  
any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T  
 (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required  
to submit and post such files). YES X NO

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this  
chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or  
information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

[ ]

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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of “large accelerated filer,” “accelerated filer” and “smaller reporting company” in Rule 12b-2 of the Exchange Act.:

Large accelerated filer ☒

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). YES

NO ☒

The aggregate market value of ordinary shares held by nonaffiliates on June 28, 2013 was approximately \$15.4 billion based on the closing price of such stock on the New York Stock Exchange.

The number of ordinary shares outstanding as of February 3, 2014 was 278,035,707.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant’s proxy statement to be filed within 120 days of the close of the registrant’s fiscal year in connection with the registrant’s Annual General Meeting of Shareholders to be held June 5, 2014 are incorporated by reference into Part II and Part III of this Form 10-K.

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INGERSOLL-RAND PLC

Form 10-K

For the Fiscal Year Ended December 31, 2013

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### CAUTIONARY STATEMENT FOR FORWARD LOOKING STATEMENTS

Certain statements in this report, other than purely historical information, are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These forward-looking statements generally are identified by the words “believe,” “project,” “expect,” “anticipate,” “estimate,” “forecast,” “outlook,” “intend,” “strategy,” “plan,” “may,” “should,” “will be,” “will continue,” “will likely result,” or the negative thereof or variations thereon or similar terminology generally intended to identify forward-looking statements.

Forward-looking statements may relate to such matters as projections of revenue, margins, expenses, tax provisions, earnings, cash flows, benefit obligations, share or debt repurchases or other financial items; any statements of the plans, strategies and objectives of management for future operations, including those relating to any statements concerning expected development, performance or market share relating to our products and services; any statements regarding future economic conditions or our performance; any statements regarding pending investigations, claims or disputes, including those relating to the Internal Revenue Service audit of our consolidated subsidiaries' tax filings; any statements of expectation or belief; and any statements of assumptions underlying any of the foregoing. These statements are based on currently available information and our current assumptions, expectations and projections about future events. While we believe that our assumptions, expectations and projections are reasonable in view of the currently available information, you are cautioned not to place undue reliance on our forward-looking statements. You are advised to review any further disclosures we make on related subjects in materials we file with or furnish to the SEC. Forward-looking statements speak only as of the date they are made and are not guarantees of future performance. They are subject to future events, risks and uncertainties - many of which are beyond our control - as well as potentially inaccurate assumptions, that could cause actual results to differ materially from our expectations and projections. We do not undertake to update any forward-looking statements.

Factors that might affect our forward-looking statements include, among other things:

- overall economic, political and business conditions in the markets in which we operate;
  - the demand for our products and services;
  - competitive factors in the industries in which we compete;
  - changes in tax requirements (including tax rate changes, new tax laws and revised tax law interpretations);
  - the outcome of any litigation, governmental investigations or proceedings;
  - the outcome of any income tax audits or settlements;
  - interest rate fluctuations and other changes in borrowing costs;
  - other capital market conditions, including availability of funding sources and currency exchange rate fluctuations;
  - availability of and fluctuations in the prices of key commodities and the impact of higher energy prices;
  - the ability to achieve cost savings in connection with our productivity programs;
  - impairment of our goodwill, indefinite-lived intangible assets and/or our long-lived assets;
  - the possible effects on us of future legislation in the U.S. that may limit or eliminate potential U.S. tax benefits resulting from our incorporation in a non-U.S. jurisdiction, such as Ireland, or deny U.S. government contracts to us based upon our incorporation in such non-U.S. jurisdiction; and
  - our ability to fully realize the expected benefits of the spin-off of our commercial and residential security businesses.
- Some of the significant risks and uncertainties that could cause actual results to differ materially from our expectations and projections are described more fully in Item 1A “Risk Factors.” You should read that information in conjunction with “Management's Discussion and Analysis of Financial Condition and Results of Operations” in Item 7 of this report and our Consolidated Financial Statements and related notes in Item 8 of this report. We note such information for investors as permitted by the Private Securities Litigation Reform Act of 1995.

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### PART I

#### Item 1. BUSINESS

##### Overview

Ingersoll-Rand plc (IR-Ireland), a public limited company incorporated in Ireland in 2009, and its consolidated subsidiaries (collectively, we, our, the Company) is a diversified, global company that provides products, services and solutions to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables, and increase industrial productivity and efficiency. Our business segments consist of Climate and Industrial, both with strong brands and leading positions within their respective markets. We generate revenue and cash primarily through the design, manufacture, sale and service of a diverse portfolio of industrial and commercial products that include well-recognized, premium brand names such as Trane®, Ingersoll-Rand®, Thermo King®, American Standard® and Club Car®.

To achieve our mission of being a world leader in creating comfortable and efficient environments, we continue to focus on increasing our recurring revenue stream from parts, service, used equipment and rentals; and to continuously improve the efficiencies and capabilities of the products and services of our businesses. We also continue to focus on operational excellence strategies as a central theme to improving our earnings and cash flows.

##### Recent Divestitures

##### Discontinued Operations

On December 1, 2013 (the Distribution Date), we completed the spin-off of our commercial and residential security businesses to our shareholders (the spin-off). On the Distribution Date, each of our shareholders of record as of the close of business on November 22, 2013 (the Record Date) received one ordinary share of Allegion, plc (Allegion) for every three Ingersoll-Rand plc ordinary shares held as of the Record Date. Allegion is now an independent public company trading under the symbol “ALLE” on the New York Stock Exchange.

After the Distribution Date, we do not beneficially own any Allegion ordinary shares (other than approximately 7,045 shares received in a deferred compensation trust upon the spin-off as a result of the trust holding ordinary shares of Ingersoll-Rand plc as of the Record Date) and will no longer consolidate Allegion into our financial results. Beginning in the fourth quarter of 2013, Allegion's historical financial results for periods prior to the Distribution Date are reflected in our Consolidated Financial Statements as a discontinued operation.

##### Divested Operations

On September 30, 2011 and November 30, 2011, we completed transactions to sell our Hussmann refrigerated display case business to a newly-formed affiliate (Hussmann Parent) of private equity firm Clayton Dubilier & Rice, LLC (CD&R). These transactions included the equipment business and certain of the service branches in the U.S. and Canada, and the equipment, service and installation businesses in Mexico, Chile, Australia, New Zealand, and Japan (Hussmann Business) and the remaining North American Hussmann service and installation branches (Hussmann Branches). We negotiated the final terms of the transaction to include our ownership of a portion of the common stock of Hussmann Parent, which represents significant continuing involvement. Therefore, the results of Hussmann are included in continuing operations for all periods presented, with our ownership interest reported using the equity method of accounting subsequent to September 30, 2011.

See “Discontinued Operations and Divestitures” within Management's Discussion and Analysis of Financial Condition and Results of Operations and also Note 16 to the Consolidated Financial Statements for a further discussion of our discontinued and divested operations.

##### Business Segments

Our business segments provide products, services and solutions used to increase the efficiency and productivity of both industrial and commercial operations and homes, as well as improve the health and comfort of people around the world.

In the fourth quarter of 2013, the Company realigned its organizational structure to provide a greater focus on growth, continue implementation of business operating systems, build on our successful operational excellence philosophy and reduce complexity and costs. The Company's new reporting structure includes the Climate and Industrial segments.

Our business segments are as follows:

##### Climate

Our Climate segment delivers energy-efficient solutions globally and includes Trane® and American Standard® Heating & Air Conditioning which provide heating, ventilation and air conditioning (HVAC) systems, and commercial and residential building services, parts, support and controls; and Thermo King® transport temperature control solutions. This segment had 2013 net revenues of \$9.4 billion.

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### Industrial

Our Industrial segment delivers products and services that enhance energy efficiency, productivity and operations. It includes Ingersoll Rand® compressed air systems and services, power tools, material handling systems, ARO® fluid management equipment, as well as Club Car® golf, utility and rough terrain vehicles. This segment had 2013 net revenues of \$2.9 billion.

Segment Revenue and profit information and additional financial data and commentary on recent financial results for operating segments are provided in the Review of Business Segments section in Part II, Item 7. “Management's Discussion and Analysis of Financial Condition and Results of Operations” and in Note 19 to the Consolidated Financial Statements in Part II, Item 8. “Financial Statements and Supplementary Data” of this Form 10-K Report.

### Products and Services

Our principal products and services by business segment include the following:

#### Climate

Aftermarket parts and service	Energy management services
Air cleaners	Facility management services
Air conditioners	Furnaces
Air exchangers	Heat pumps
Air handlers	Humidifiers
Airside and terminal devices	Installation contracting
Auxiliary idle reduction	Package heating and cooling systems
Auxiliary temperature management	Performance contracting
Building management systems	Repair and maintenance services
Bus and rail HVAC systems	Service agreements
Chillers	Temporary heating and cooling systems
Coils and condensers	Thermostats/controls
Container refrigeration systems and gensets	Trailer refrigeration systems
Control systems	Unitary systems
Cryogenic refrigeration systems	Vehicle-powered truck refrigeration systems
Diesel-powered refrigeration systems	

#### Industrial

Air compressors (centrifugal, reciprocating, and rotary)	Hoists (air, electric, and manual)
Aftermarket parts and accessories	Motion control components
Airends	Power tools (air, cordless, and electric)
Blowers	Precision fastening systems
Dryers	Pumps (diaphragm and piston)
Engine starting systems	Rough terrain (AWD) vehicles
Ergonomic material handling systems	Service contracts and programs
Filters	Utility and low-speed vehicles
Fluid handling systems	Visage® mobile golf information systems
Golf vehicles	Winches (air, electric, and hydraulic)

These products are sold primarily under our name and under other names including American Standard, ARO, Club Car, Thermo King and Trane.

### Competitive Conditions

Our products and services are sold in highly competitive markets throughout the world. Due to the diversity of these products and services and the variety of markets served, we encounter a wide variety of competitors that vary by product line and services. They include well-established regional or specialized competitors, as well as larger U.S. and non-U.S. corporations or divisions of larger companies.

The principal methods of competition in these markets relate to price, quality, delivery, service and support, technology and innovation. We believe that we are one of the leading manufacturers in the world of HVAC systems and services, air compression systems, transport temperature control products, air tools, and golf and utility vehicles.





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### Distribution

Our products are distributed by a number of methods, which we believe are appropriate to the type of product. U.S. sales are made through branch sales offices, distributors and dealers across the country. Non-U.S. sales are made through numerous subsidiary sales and service companies with a supporting chain of distributors throughout the world.

### Customers

We have no customer that accounted for more than 10% of our consolidated net revenues in 2013, 2012 or 2011. No material part of our business is dependent upon a single customer or a small group of customers; therefore, the loss of any one customer would not have a material adverse effect on our results of operations or cash flows.

### Raw Materials

We manufacture many of the components included in our products, which requires us to employ a wide variety of commodities. Principal commodities, such as steel, copper and aluminum, are purchased from a large number of independent sources around the world. In the past, higher prices for some commodities, particularly steel and non-ferrous metals, have caused pricing pressures in some of our businesses; we have historically been able to pass certain of these cost increases on to customers in the form of price increases; however, we may not always be able to offset these cost increases with price increases.

We believe that available sources of supply will generally be sufficient for the foreseeable future. There have been no commodity shortages which have had a material adverse effect on our businesses. However, significant changes in certain material costs may have an adverse impact on our costs and operating margins. To mitigate this potential impact, we enter into long-term supply contracts in order to manage our exposure to potential supply disruptions.

### Working Capital

We manufacture products that usually must be readily available to meet our customers' rapid delivery requirements. Therefore, we maintain an adequate level of working capital to support our business needs and our customers' requirements. Such working capital requirements are not, however, in the opinion of management, materially different from those experienced by our major competitors. We believe our sales and payment terms are competitive in and appropriate for the markets in which we compete.

### Seasonality

Demand for certain of our products and services is influenced by weather conditions. For instance, Trane's sales have historically tended to be seasonally higher in the second and third quarters of the year because this represents summer in the U.S. and other northern hemisphere markets, which is the peak season for sales of air conditioning systems and services. Therefore, results of any quarterly period may not be indicative of expected results for a full year and unexpected cool trends or unseasonably warm trends during the summer season could negatively or positively affect certain segments of our business and impact overall results of operations.

### Research and Development

We engage in research and development activities in an effort to introduce new products, enhance existing product effectiveness, improve ease of use and reliability as well as expand the various applications for which our products may be appropriate. In addition, we continually evaluate developing technologies in areas that we believe will enhance our business for possible investment or acquisition. We anticipate that we will continue to make significant expenditures for research and development activities as we look to maintain and improve our competitive position. Research and development expenditures were approximately \$218.2 million in 2013, \$235.4 million in 2012 and \$218.4 million in 2011.

### Patents and Licenses

We own numerous patents and patent applications, and are licensed under others. Although in aggregate we consider our patents and licenses to be valuable to our operations, we do not believe that our business is materially dependent on a single patent or license or any group of them. In our opinion, engineering, production skills and experience are more responsible for our market position than our patents and/or licenses.

### Operations by Geographic Area

More than 40% of our 2013 net revenues were derived outside the U.S. and we sold products in more than 100 countries. Therefore, the attendant risks of manufacturing or selling in a particular country, such as nationalization and

establishment of common markets, may have an adverse impact on our non-U.S. operations. For a discussion of risks associated with our non-U.S. operations, see

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“Risk Factors – Our global operations subject us to economic risks,” and “Risk Factors – Currency exchange rate fluctuations may adversely affect our results,” in Item 1A and “Quantitative and Qualitative Disclosure about Market Risk” in Item 7A.

**Backlog**

Our approximate backlog of orders, believed to be firm, at December 31, was as follows:

In millions	2013	2012
Climate	\$1,342.7	\$1,460.2
Industrial	517.4	481.1
Total	\$1,860.1	\$1,941.3

These backlog figures are based on orders received. While the major portion of our products are built in advance of order and either shipped or assembled from stock, orders for specialized machinery or specific customer application are submitted with extensive lead times and are often subject to revision, deferral, cancellation or termination. We expect to ship substantially all the December 31, 2013 backlog during 2014.

**Environmental Matters**

We continue to be dedicated to an environmental program to reduce the utilization and generation of hazardous materials during the manufacturing process and to remediate identified environmental concerns. As to the latter, we are currently engaged in site investigations and remediation activities to address environmental cleanup from past operations at current and former manufacturing facilities.

We are sometimes a party to environmental lawsuits and claims and have received notices of potential violations of environmental laws and regulations from the Environmental Protection Agency and similar state authorities. We have also been identified as a potentially responsible party (PRP) for cleanup costs associated with off-site waste disposal at federal Superfund and state remediation sites. For all such sites, there are other PRPs and, in most instances, our involvement is minimal.

In estimating our liability, we have assumed that we will not bear the entire cost of remediation of any site to the exclusion of other PRPs who may be jointly and severally liable. The ability of other PRPs to participate has been taken into account, based on our understanding of the parties' financial condition and probable contributions on a per site basis. Additional lawsuits and claims involving environmental matters are likely to arise from time to time in the future.

We incurred \$(0.5) million, \$3.1 million, and \$1.2 million of expenses during the years ended December 31, 2013, 2012, and 2011, respectively, for environmental remediation at sites presently or formerly owned or leased by us. As of December 31, 2013 and 2012, we have recorded reserves for environmental matters of \$47.9 million and \$55.6 million, respectively. Of these amounts \$42.1 million and \$41.2 million, respectively, relate to remediation of sites previously disposed by us. Our total current environmental reserve at December 31, 2013 and 2012 was \$13.5 million and \$18.0 million, respectively. Given the evolving nature of environmental laws, regulations and technology, the ultimate cost of future compliance is uncertain.

For a further discussion of our potential environmental liabilities, see also Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, Environmental and Asbestos Matters as well as Note 18 to the Consolidated Financial Statements.

**Asbestos Related Matters**

Certain of our wholly-owned subsidiaries are named as defendants in asbestos-related lawsuits in state and federal courts. In virtually all of the suits, a large number of other companies have also been named as defendants. The vast majority of those claims have been filed against either Ingersoll-Rand Company (IR-New Jersey) or Trane U.S. Inc. (Trane) and generally allege injury caused by exposure to asbestos contained in certain historical products sold by IR-New Jersey or Trane, primarily pumps, boilers and railroad brake shoes. Neither IR-New Jersey nor Trane was a producer or manufacturer of asbestos, however, some formerly manufactured products utilized asbestos-containing components such as gaskets and packings purchased from third-party suppliers.

We incurred net costs after insurance recoveries of \$56.2 million, \$7.8 million, and \$16.4 million during the years ended December 31, 2013, 2012, and 2011, respectively, related to the settlement and defense of asbestos-related

claims. Of these amounts, \$55.8 million, \$17.9 million and \$14.5 million for the years ended December 31, 2013, 2012, and 2011, respectively, relate to discontinued operations. Our total liability for asbestos-related matters and our total asset for probable asbestos-related insurance recoveries were \$846.2 million and \$321.8 million, respectively, as of December 31, 2013 and \$879.5 million and \$320.3 million, respectively, as of December 31, 2012. Our total current liability for asbestos-related matters and our total current asset for probable asbestos-

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related insurance recoveries was \$69.1 million and \$22.3 million, respectively, as of December 31, 2013 and \$69.1 million and \$22.5 million, respectively, as of December 31, 2012.

See also the discussion under Part I, Item 3, Legal Proceedings, and Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, Environmental and Asbestos Matters as well as further detail in Note 18 to the Consolidated Financial Statements.

### Employees

As of December 31, 2013, we employed approximately 42,000 people throughout the world.

### Available Information

We file annual, quarterly, and current reports, proxy statements, and other documents with the SEC under the Securities Exchange Act of 1934. The public may read and copy any materials filed with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Also, the SEC maintains an Internet website that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. The public can obtain any documents that are filed by us at <http://www.sec.gov>.

In addition, this Annual Report on Form 10-K, as well as our quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to all of the foregoing reports, are made available free of charge on our Internet website (<http://www.ingersollrand.com>) as soon as reasonably practicable after such reports are electronically filed with or furnished to the SEC. The Board of Directors of the Company has also adopted and posted in the Investor Relations section of the Company's website our Corporate Governance Guidelines and charters for each of the Board's standing committees. The contents of the Company's website are not incorporated by reference in this report.

### Certifications

#### New York Stock Exchange Annual Chief Executive Officer Certification

The Company's Chief Executive Officer submitted to the New York Stock Exchange the Annual CEO Certification as the Company's compliance with the New York Stock Exchange's corporate governance listing standards required by Section 303A.12 of the New York Stock Exchange's listing standards.

#### Sarbanes-Oxley Act Section 302 Certification

The certifications of the Chief Executive Officer and Chief Financial Officer of the Company pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 are filed as exhibits to this Annual Report on Form 10-K.

### Item 1A. RISK FACTORS

Our business, financial condition, results of operations, and cash flows are subject to a number of risks that could cause the actual results and conditions to differ materially from those projected in forward-looking statements contained in this Annual Report on Form 10-K. The risks set forth below are those we consider most significant. We face other risks, however, that we do not currently perceive to be material but could cause actual results and conditions to differ materially from our expectations. You should evaluate all risks before you invest in our securities. If any of the risks actually occur, our business, financial condition, results of operations or cash flows could be adversely impacted. In that case, the trading price of our ordinary shares could decline, and you may lose all or part of your investment.

Our global operations subject us to economic risks.

Our global operations are dependent upon products manufactured, purchased and sold in the U.S. and internationally, including Europe, China, Brazil, Venezuela, Africa, India, Argentina and Mexico. These activities are subject to risks that are inherent in operating globally, including:

- changes in local laws and regulations or imposition of currency restrictions and other restraints;
- limitation of ownership rights, including expropriation of assets by a local government, and limitation on the ability to repatriate earnings;
- sovereign debt crises and currency instability in developed and developing countries;
- imposition of burdensome tariffs and quotas;
- difficulty in staffing and managing global operations;
- difficulty of enforcing agreements, collecting receivables and protecting assets through non-U.S. legal systems;



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- national and international conflict, including war, civil disturbances and terrorist acts; and
- economic downturns, slowing economic growth and social and political instability.

These risks could increase our cost of doing business internationally, increase our counterparty risk, disrupt our operations, disrupt the ability of suppliers and customers to fulfill their obligations, limit our ability to sell products in certain markets and have a material adverse impact on our results of operations, financial condition, and cash flows. Our growth is dependent, in part, on the development, commercialization and acceptance of new products and services.

We must develop and commercialize new products and services in order to remain competitive in our current and future markets and in order to continue to grow our business. The development and commercialization of new products and services require a significant investment of resources. We cannot provide any assurance that any new product or service will be successfully commercialized in a timely manner, if ever, or, if commercialized, will result in returns greater than our investment. Investment in a product or service could divert our attention and resources from other projects that become more commercially viable in the market. We also cannot provide any assurance that any new product or service will be accepted by the market. Failure to develop new products and services that are accepted by the market could have a material adverse impact on our competitive position, results of operations, financial condition, and cash flows.

The capital and credit markets are important to our business.

Instability in U.S. and global capital and credit markets, including market disruptions, limited liquidity and interest rate volatility, or reductions in the credit ratings assigned to us by independent rating agencies could reduce our access to capital markets or increase the cost of funding our short and long term credit requirements. In particular, if we are unable to access capital and credit markets on terms that are acceptable to us, we may not be able to make certain investments or fully execute our business plans and strategies.

Our suppliers and customers are also dependent upon the capital and credit markets. Limitations on the ability of customers, suppliers or financial counterparties to access credit could lead to insolvencies of key suppliers and customers, limit or prevent customers from obtaining credit to finance purchases of our products and services and cause delays in the delivery of key products from suppliers.

Currency exchange rate fluctuations and other related risks may adversely affect our results.

We are exposed to a variety of market risks, including the effects of changes in currency exchange rates. See Part II Item 7A, Quantitative and Qualitative Disclosure About Market Risk.

More than 40% of our 2013 net revenues were derived outside the U.S., and we expect sales to non-U.S. customers to continue to represent a significant portion of our consolidated net revenues. Although we enter into currency exchange contracts to reduce our risk related to currency exchange fluctuations, changes in the relative values of currencies occur from time to time may, in some instances, have a material impact on our results of operations. Because we do not hedge against all of our currency exposure, our business will continue to be susceptible to currency fluctuations. We also translate assets, liabilities, revenues and expenses denominated in non-U.S. dollar currencies into U.S. dollars for our Consolidated Financial Statements based on the applicable exchange rates. Consequently, fluctuations in the value of the U.S. dollar versus other currencies could have a material impact on the value of these items in our Consolidated Financial Statements, even if their value has not changed in their original currency.

We also face risks arising from the imposition of exchange controls and currency devaluations. Exchange controls may limit our ability to convert foreign currencies into U.S. dollars or to remit dividends and other payments by our foreign subsidiaries or businesses located in or conducted within a country imposing controls. Currency devaluations result in a diminished value of funds denominated in the currency of the country instituting the devaluation.

Material adverse legal judgments, fines, penalties or settlements could adversely affect our results of operations or financial condition.

We are currently and may in the future become involved in legal proceedings and disputes incidental to the operation of our business or the business operations of previously-owned entities. Our business may be adversely affected by the outcome of these proceedings and other contingencies (including, without limitation, product liability and asbestos-related matters) that cannot be predicted with certainty. Moreover, any insurance or indemnification rights



that we may have may be insufficient or unavailable to protect us against the total aggregate amount of losses sustained as a result of such proceedings and contingencies. As required by generally accepted accounting principles in the United States, we establish reserves based on our assessment of contingencies. Subsequent developments in legal proceedings and other events could affect our assessment and estimates of the loss contingency recorded as a reserve and we may be required to make additional material payments, which could have a material adverse impact on our liquidity, results of operations, financial condition, and cash flows.

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Our reputation, ability to do business and results of operations could be impaired by improper conduct by any of our employees, agents or business partners.

We are subject to regulation under a wide variety of U.S. federal and state and non-U.S. laws, regulations and policies, including laws related to anti-corruption, export and import compliance, anti-trust and money laundering, due to our global operations. We cannot provide assurance our internal controls will always protect us from the improper conduct of our employees, agents and business partners. Any violations of law or improper conduct could damage our reputation and, depending on the circumstances, subject us to, among other things, civil and criminal penalties, material fines, equitable remedies (including profit disgorgement and injunctions on future conduct), securities litigation and a general loss of investor confidence, any one of which could have a material adverse impact on our business prospects, financial condition, results of operations, cash flows, and the market value of our stock.

We may be subject to risks relating to our information technology systems.

We rely extensively on information technology systems, some of which are supported by third party vendors, to manage and operate our business. We are also investing in new information technology systems that are designed to continue improving our operations. If these systems cease to function properly or if these systems do not provide the anticipated benefits, our ability to manage our operations could be impaired which could have a material adverse impact on our results of operations, financial condition, and cash flows.

Security breaches or disruptions of our technology infrastructure or products could negatively impact our business and financial results.

Our information technology infrastructure and technology embedded in certain of our control products may be subject to cyber attacks and unauthorized security intrusions. Despite instituting security policies and business continuity plans, our systems, networks and certain of our control products may be vulnerable to system damage, malicious attacks from hackers, employee errors or misconduct, viruses, power and utility outages, and other catastrophic events that could cause significant harm to our business by negatively impacting our business operations, compromising the security of our proprietary information and exposing us to litigation that could adversely affect our reputation. Such events could have a material adverse impact on our results of operations, financial condition and cash flows.

Commodity shortages and price increases and higher energy prices could adversely affect our financial results.

We rely on suppliers to secure commodities, particularly steel and non-ferrous metals, required for the manufacture of our products. A disruption in deliveries from our suppliers or decreased availability of commodities could have an adverse effect on our ability to meet our commitments to customers or increase our operating costs. We believe that available sources of supply will generally be sufficient for our needs for the foreseeable future. Nonetheless, the unavailability of some commodities could have a material adverse impact on our results of operations and cash flows.

Volatility in the prices of these commodities could increase the costs of our products and services. We may not be able to pass on these costs to our customers and this could have a material adverse impact on our results of operations and cash flows. We do not currently use financial derivatives to hedge against this volatility. While we use fixed price contracts to mitigate this exposure, we expect any future hedging activity to seek to minimize near-term volatility of the commodity prices which would not protect us from long-term commodity price increases.

Additionally, we are exposed to large fluctuations in the price of petroleum-based fuel due to the instability of current market prices. Higher energy costs increase our operating costs and the cost of shipping our products, and supplying services, to customers around the world. Consequently, sharp price increases, the imposition of taxes or an interruption of supply, could cause us to lose the ability to effectively manage the risk of rising fuel prices and may have a material adverse impact on our results of operations and cash flows.

Our operational excellence efforts may not achieve the improvements we expect.

We utilize a number of tools, such as Lean Six Sigma, to improve operational efficiency and productivity.

Implementation of new processes to our operations could cause disruptions and there is no assurance that all of our planned operational excellence projects will be fully implemented or, if implemented, will realize the expected improvements.

We may be required to recognize impairment charges for our goodwill and other indefinite-lived intangible assets.

At December 31, 2013, the net carrying value of our goodwill and other indefinite-lived intangible assets totaled \$5.5 billion and \$2.6 billion, respectively. In accordance with generally accepted accounting principles, we periodically

assess these assets to determine if they are impaired. Significant negative industry or economic trends, disruptions to our business, unexpected significant changes or planned changes in use of the assets, divestitures and market capitalization declines may result in recognition of impairments to goodwill or other indefinite-lived assets. Any charges relating to such impairments could have a material adverse impact on our results of operations in the periods recognized.

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Changes in weather patterns and seasonal fluctuations may adversely affect certain segments of the Company's business and impact overall results of operations.

Demand for certain segments of the Company's products and services is influenced by weather conditions. For instance, Trane's sales have historically tended to be seasonally higher in the second and third quarters of the year because, in the U.S. and other northern hemisphere markets, summer is the peak season for sales of air conditioning systems and services. Therefore, results of any quarterly period may not be indicative of expected results for a full year and unexpected cool trends or unseasonably warm trends during the summer season could negatively or positively affect certain segments of the Company's business and impact overall results of operations.

Weakness in the commercial and residential construction markets may adversely impact our results of operations and cash flow.

Our commercial and residential HVAC businesses, which collectively represent 61% of our net revenues, provide products and services to a wide range of markets, including significant sales to the commercial and residential construction markets. Weakness in either or both of these construction markets may negatively impact the demand for our products and services. Decrease in the demand for our products and services could have a material adverse impact on our results of operations and cash flow.

Our operations are subject to regulatory risks.

Our U.S. and non-U.S. operations are subject to a number of laws and regulations, including among others, laws related to the environment and health and safety. We have made, and will be required to continue to make, significant expenditures to comply with these laws and regulations. Changes in current laws and regulations could require us to increase our compliance expenditures, cause us to significantly alter or discontinue offering existing products and services or cause us to develop new products and services. Altering current products and services or developing new products and services to comply with changes in the applicable laws and regulations could require significant research and development investments, increase the cost of providing the products and services and adversely affect the demand for our products and services. In addition, our failure to comply with applicable laws and regulations could lead to significant penalties, fines or other sanctions. If we are unable to effectively respond to changes to applicable laws and regulations or comply with existing and future laws and regulations, our competitive position, results of operations, financial condition and cash flows could be materially adversely impacted.

### **Risks Relating to our Spin-off of Allegion**

We may be unable to achieve some or all of the benefits that we expect to achieve subsequent to the spin-off.

In connection with our spin-off in December 2013 of Allegion, which now owns our former commercial and residential security businesses, we anticipated certain financial, operational, managerial and other benefits to us and our shareholders. In particular, we commenced certain operational excellence and other productivity and strategic initiatives following the spin-off intended to provide a greater focus on growth, and to reduce complexity and overhead cost. We may not be able to achieve the anticipated results of these actions on the scale that we expected, and the anticipated benefits subsequent to the spin-off, and those operational excellence and other productivity and strategic initiatives, may not be fully realized.

If the distribution or certain internal transactions undertaken in anticipation of the spin-off are determined to be taxable for U.S. federal income tax purposes, we, our shareholders as of the time of the distribution that are subject to U.S. federal income tax and/or Allegion could incur significant U.S. federal income tax liabilities.

We have received a ruling from the U.S. Internal Revenue Service (the "IRS") substantially to the effect that, among other things, the distribution of Allegion plc's ordinary shares, together with certain related transactions, will qualify for tax-free treatment under Sections 355 and 368(a) of the U.S. Internal Revenue Code of 1986, as amended (the "Code"), with the result that we and our shareholders will not recognize any taxable income, gain or loss for U.S. federal income tax purposes as a result of the spin-off, except to the extent of cash received in lieu of fractional shares (the "IRS Ruling"). The IRS Ruling also provides that specified internal transactions undertaken in anticipation of the distribution will qualify for favorable treatment under the Code. In addition, we have received opinions from the law firm of Simpson Thacher & Bartlett LLP substantially to the effect that specified requirements, including certain requirements that the IRS will not rule on, necessary to obtain tax-free treatment have been satisfied, such that the distribution for U.S. federal income tax purposes and certain other matters relating to the distribution, including

certain internal transactions undertaken in anticipation of the distribution, will receive tax-free treatment under Section 355 of the Code. The IRS Ruling and the opinions rely on certain facts and assumptions and certain representations and undertakings from us and Allegion regarding the past and future conduct of our respective businesses and other matters.

Notwithstanding the IRS Ruling and the opinions, the IRS could determine on audit that the distribution or the internal transactions should be treated as taxable transactions if it determines that any of these facts, assumptions, representations or undertakings is not correct or has been violated, or that the distribution or the internal transactions should be taxable for other reasons, including as a result of significant changes in shares or asset ownership after the distribution. A legal opinion represents the tax adviser's best legal judgment and is not binding on the IRS or the courts, and the IRS or the courts may not agree with the opinion. In

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addition, the opinion is based on current law and cannot be relied upon if current law changes with retroactive effect. If the distribution, and/or internal transactions, ultimately is determined to be taxable, we or Allegion could incur significant U.S. federal income tax liabilities, which could cause a material adverse impact on our business, financial condition, results of operations and cash flows in future reporting periods.

Furthermore, if, notwithstanding receipt of the IRS Ruling and opinions, the spin-off were determined to be a taxable transaction, each shareholder subject to U.S. federal income tax who received shares of Allegion in the spin-off would generally be treated as receiving a taxable distribution of property in an amount equal to the fair market value of the Allegion shares received. That distribution would be taxable as a dividend to the extent of our then-current and accumulated earnings and profits. Any amount that exceeded our earnings and profits would be treated first as a non-taxable return of capital to the extent of the applicable shareholder's tax basis in our ordinary shares with any remaining amount being taxed as a capital gain.

Under the terms of the Tax Matters Agreement between us and Allegion executed in connection with the spin-off, in the event the distribution or the internal transactions were determined to be taxable as a result of actions taken after the distribution by us or Allegion, the party responsible for such failure would be responsible for all taxes imposed on us or Allegion as a result thereof. If such failure is not the result of actions taken after the distribution by us or Allegion, then Allegion would be responsible for any taxes imposed on us or Allegion as a result of such determination. Such tax amounts could be significant. If Allegion were to default in its obligation to us to pay such taxes, we could be legally liable under applicable tax law for such liabilities and required to make additional tax payments. Accordingly, under certain circumstances, we may be obligated to pay amounts in excess of our agreed-upon share of tax liabilities. To the extent we are responsible for any liability under the Tax Matters Agreement, there could be a material adverse impact on our business, financial condition, results of operations and cash flows in future reporting periods.

We might not be able to engage in desirable strategic transactions and equity issuances as a result of the distribution because of restrictions relating to U.S. federal income tax requirements for tax-free distributions.

We may be deterred from engaging in significant equity transactions in order to preserve, for U.S. federal income tax purposes, the tax-free nature of the distribution. Even if the distribution otherwise qualifies for tax-free treatment under Section 355 of the Code, it may result in corporate-level taxable gain to us and certain of our affiliates under Section 355(e) of the Code if 50% or more, by vote or value, of our shares or Allegion's shares are acquired or issued as part of a plan or series of related transactions that includes the distribution. Any acquisitions or issuances of our shares or Allegion's shares within two years after the distribution will generally be presumed to be part of such a plan, although we or Allegion may be able to rebut that presumption. As a result, we may not pursue strategic transactions or engage in new business or other transactions that would otherwise maximize the value of our business.

If the distribution is determined to be taxable for Irish tax purposes, significant Irish tax liabilities may arise.

We have received an opinion of the Irish Revenue regarding the Irish tax consequences of the distribution to the effect that certain reliefs and exemptions for corporate reorganizations apply. In addition to obtaining the opinion from Irish Revenue, we have also received opinions from the law firm of Arthur Cox confirming the applicability of the relevant exemptions and reliefs to the distribution as well as received opinions from other external advisers that certain internal transactions will not trigger Irish tax costs as well. These opinions rely on certain facts and assumptions and certain representations and undertakings from us and Allegion regarding the past and future conduct of our respective businesses and other matters. Notwithstanding the opinions, Irish Revenue could determine on audit that the distribution or the internal transactions do not qualify for the relevant exemptions or reliefs if it determines that any of these facts, assumptions, representations or undertakings is not correct or has been violated. A legal opinion represents the tax adviser's best legal judgment and is not binding on Irish Revenue or the courts and Irish Revenue or the courts may not agree with the legal opinion. In addition, the legal opinion is based on current law and cannot be relied upon if current law changes with retroactive effect. If the distribution ultimately is determined not to fall within certain exemptions or reliefs, the distribution could result in certain of our shareholders having an Irish tax liability as a result of the distribution, or we or Allegion could incur Irish tax liabilities. To the extent we are responsible for any such liability under the Tax Matters Agreement, there could be a material adverse impact on our business, financial condition, results of operations and cash flows in future reporting periods.

**Risks Relating to Our Past Reorganizations**

We effected a corporate reorganization in December 2001 to become a Bermuda company (the Bermuda Reorganization) and a subsequent corporate reorganization in July 2009 to become an Irish public limited company. These reorganizations exposed us and our shareholders to the risks described below. In addition, we cannot be assured that all of the anticipated benefits of the reorganizations will be realized.

Changes in tax laws, regulations or treaties, changes in our status under U.S. or non-U.S. tax laws or adverse determinations by taxing authorities could increase our tax burden or otherwise affect our financial condition or operating results, as well as subject our shareholders to additional taxes.

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The realization of any tax benefit related to our reorganizations could be impacted by changes in tax laws, tax treaties or tax regulations or the interpretation or enforcement thereof by the U.S. tax authorities or non-U.S. tax authorities. From time to time, proposals have been made and/or legislation has been introduced to change the tax laws of various jurisdictions or limit tax treaty benefits that if enacted could materially increase our tax burden and/or effective tax rate and could have a material adverse impact on our financial condition and results of operations. For instance, recent U.S. legislative proposals would broaden the circumstances under which we would be considered a U.S. resident for U.S. tax purposes, which would significantly diminish the realization of any tax benefit related to our reorganizations. There are other recent U.S. legislative proposals that could modify or eliminate the tax deductibility of various currently deductible payments, which could materially and adversely affect our effective tax rate and cash tax position. Moreover, other U.S. legislative proposals could have a material adverse impact on us by overriding certain tax treaties and limiting the treaty benefits on certain payments by our U.S. subsidiaries to our non-U.S. affiliates, which could increase our tax liability. We cannot predict the outcome of any specific legislation in any jurisdiction. While we monitor proposals that would materially impact our tax burden and/or effective tax rate and investigate our options, we could still be subject to increased taxation on a going forward basis no matter what action we undertake if certain legislative proposals are enacted, certain tax treaties are amended and/or our interpretation of applicable tax law is challenged and determined to be incorrect. In particular, any changes and/or differing interpretations of applicable tax law that have the effect of disregarding the Ireland Reorganization, limiting our ability to take advantage of tax treaties between jurisdictions, modifying or eliminating the deductibility of various currently deductible payments, or increasing the tax burden of operating or being resident in a particular country, could subject us to increased taxation.

While our U.S. operations are subject to U.S. tax, we believe that a significant portion of our non-U.S. operations are generally not subject to U.S. tax other than withholding taxes. The IRS or a court, however, may not concur with our conclusions including our determination that we, and a significant number of our foreign subsidiaries, are not controlled foreign corporations (CFC) within the meaning of the U.S. tax laws. A contrary determination, which could also arise through significant future acquisitions of our stock by U.S. persons, could also potentially cause U.S. holders (direct, indirect or constructive owners) of 10% or more of our stock (or the voting stock of our non-U.S. subsidiaries) to include in their gross income their pro rata share of certain of our and our non-U.S. subsidiary income for the period during which we (and our non-U.S. subsidiaries) were a CFC. In addition, gain (or a portion of such gain) realized on CFC shares sold by such shareholders may be treated as ordinary income depending on certain facts. Treatment of us or any of our non-U.S. subsidiaries as a CFC could have a material adverse impact on our results of operations, financial condition, and cash flows.

As described further in "Legal Proceedings," we have received several notices from the IRS containing proposed adjustments to our tax filings in connection with audits of the 2001-2006 tax years. The IRS has not contested the validity of our reincorporation in Bermuda in any of these notices. We have and intend to continue to vigorously contest all of these proposed adjustments.

Although the outcome of these matters cannot be predicted with certainty, based upon an analysis of the merits of our position, we believe that we are adequately reserved for these matters and do not expect that the ultimate resolution will have a material adverse impact on our future results of operations, financial condition, or cash flows. As we move forward to resolve these matters with the IRS, the reserves established may be adjusted. Although we continue to contest the IRS's position, there can be no assurance that we will be successful. If the IRS's position with respect to 2002-2006 is ultimately sustained, we would be required to record additional charges and the resulting liability will have a material adverse impact on our future results of operations, financial condition and cash flows.

Although we expect them to do so, at this time the IRS has not yet proposed any similar adjustments for years subsequent to 2006 as the federal income tax audits for those years are still in process or have not yet begun. It is unclear how the IRS will apply its position to subsequent years or whether the IRS will take a similar position in future audits with respect to intercompany debt instruments not outstanding in prior years.

The inability to realize any anticipated tax benefits related to our reorganizations could have a material adverse impact on our results of operations, financial condition, and cash flows.

Legislative and regulatory action could materially and adversely affect us.



The U.S. federal government and various states and municipalities have enacted or may enact legislation intended to deny government contracts to U.S. companies that reincorporate outside of the U.S. or have reincorporated outside of the U.S.

For instance, the Homeland Security Act of 2002, as amended, includes a provision that prohibits “inverted domestic corporations” and their subsidiaries from entering into contracts with the Department of Homeland Security. In addition, the State of California adopted legislation intended to limit the eligibility of certain non-U.S. chartered companies to participate in certain state contracts. More recently, the 2008-2014 Consolidated Appropriations Acts prohibit any federal government agency from using funds appropriated by Congress for fiscal years 2008-2014 to pay an inverted domestic corporation or any of its subsidiaries for work performed or products provided under certain federal contracts (“Affected Contracts”). Although the amount of monies already

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paid to us or to be paid to us under the Affected Contracts is not material to the Company, we cannot provide any assurance that the impact of future actions taken by the government in this area will not be materially adverse to our operations.

In addition, there continues to be negative publicity regarding, and criticism of, companies that conduct business in the United States and in other countries but have changed their place of incorporation to another country.

Irish law differs from the laws in effect in the United States and may afford less protection to holders of our securities.

The United States currently does not have a treaty with Ireland providing for the reciprocal recognition and enforcement of judgments in civil and commercial matters. As such, there is some uncertainty as to whether the courts of Ireland would recognize or enforce judgments of U.S. courts obtained against us or our directors or officers based on U.S. federal or state civil liability laws, including the civil liability provisions of the U.S. federal or state securities laws, or hear actions against us or those persons based on those laws.

As an Irish company, we are governed by the Irish Companies Act, which differs in some material respects from laws generally applicable to U.S. corporations and shareholders, including, among others, differences relating to interested director and officer transactions and shareholder lawsuits. Likewise, the duties of directors and officers of an Irish company generally are owed to the company only. Shareholders of Irish companies generally do not have a personal right of action against directors or officers of the company and may exercise such rights of action on behalf of the company only in limited circumstances. Accordingly, holders of our securities may have more difficulty protecting their interests than would holders of securities of a corporation incorporated in a jurisdiction of the United States. In addition, Irish law allows shareholders to authorize share capital which then can be issued by a board of directors without shareholder approval. Also, subject to specified exceptions, Irish law grants statutory pre-emptive rights to existing shareholders to subscribe for new issuances of shares for cash, but allows shareholders to authorize the waiver of the statutory pre-emptive rights with respect to any particular allotment of shares. Under Irish law, these authorizations must be renewed by the shareholders every five years and we cannot guarantee that these authorizations will always be approved. Recently, certain proxy advisory firms are taking the position that Irish companies should limit these authorizations in terms of the number of authorized but unissued shares that can be issued without shareholder approval, the number of shares that can be issued without pre-emptive rights and the duration of the authorizations. If we are required to limit these authorizations in order to obtain shareholder approval, we will be limited in our ability to issue shares in ways that U.S. companies are not limited and will need to renew the authorizations even more frequently than the five-year period provided under Irish law.

Dividends received by our shareholders may be subject to Irish dividend withholding tax.

In certain circumstances, we are required to deduct Irish dividend withholding tax (currently at the rate of 20%) from dividends paid to our shareholders. In the majority of cases, shareholders resident in the United States will not be subject to Irish withholding tax, and shareholders resident in a number of other countries will not be subject to Irish withholding tax provided that they complete certain Irish dividend withholding tax forms. However, some shareholders may be subject to withholding tax, which could have an adverse impact on the price of our shares.

Dividends received by our shareholders could be subject to Irish income tax.

Dividends paid in respect of our shares will generally not be subject to Irish income tax where the beneficial owner of these dividends is exempt from dividend withholding tax, unless the beneficial owner of the dividend has some connection with Ireland other than his or her shareholding in IR-Ireland.

Our shareholders who receive their dividends subject to Irish dividend withholding tax will generally have no further liability to Irish income tax on the dividends unless the beneficial owner of the dividend has some connection with Ireland other than his or her shareholding in IR-Ireland.

### Item 1B. UNRESOLVED STAFF COMMENTS

None.

### Item 2. PROPERTIES

As of December 31, 2013, we owned or leased a total of approximately 13 million square feet of space worldwide. Manufacturing and assembly operations are conducted in 50 plants across the world. We also maintain various warehouses, offices and repair centers throughout the world.

The majority of our plant facilities are owned by us with the remainder under long-term lease arrangements. We believe that our plants have been well maintained, are generally in good condition and are suitable for the conduct of our business.

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The locations by segment of our principal plant facilities at December 31, 2013 were as follows:

### Climate

Americas	Europe	Asia Pacific and India
Curitiba, Brazil	Kolin, Czech Republic	Zhong Shan, China
Monterrey, Mexico	Charmes, France	Taicang, China
Arecibo, Puerto Rico	Golbey, France	Chennai, India
Fort Smith, Arkansas	Galway, Ireland	Penang, Malaysia
Pueblo, Colorado	Barcelona, Spain	Samut Prakan, Thailand

Lynn Haven, Florida

Macon, Georgia

Vidalia, Georgia

Rushville, Indiana

Lexington, Kentucky

St. Paul, Minnesota

Hastings, Nebraska

Trenton, New Jersey

Columbia, South Carolina

Clarksville, Tennessee

Tyler, Texas

Waco, Texas

La Crosse, Wisconsin

### Industrial

Americas	Europe	Asia Pacific and India
Dorval, Canada	Unicov, Czech Republic	Changzhou, China
Augusta, Georgia	Sin le Noble, France	Guilin, China
Campbellsville, Kentucky	Wasquehal, France	Nanjing, China
Madison Heights, Michigan	Oberhausen, Germany	Wujiang, China
Mocksville, North Carolina	Fogliano Redipuglia, Italy	Naroda, India
Southern Pines, North Carolina	Vignate, Italy	Sahibabad, India
West Chester, Pennsylvania	Logatec, Slovenia	

Kent, Washington

### Item 3. LEGAL PROCEEDINGS

In the normal course of business, we are involved in a variety of lawsuits, claims and legal proceedings, including commercial and contract disputes, employment matters, product liability claims, asbestos-related claims, environmental liabilities, intellectual property disputes, and tax-related matters. In our opinion, pending legal matters are not expected to have a material adverse impact on our results of operations, financial condition, liquidity or cash flows.

#### Tax Related Matters

In 2007, we received a notice from the IRS containing proposed adjustments to our tax filings in connection with an audit of the 2001 and 2002 tax years. The IRS did not contest the validity of our reincorporation in Bermuda. The IRS proposed to ignore the entities that hold the intercompany debt incurred in connection with our reincorporation in Bermuda (the "2001 Debt") and to which the interest was paid and impose 30% withholding tax on a portion of the interest payments as if they were made directly to a company that was not eligible for reduced U.S. withholding tax under a U.S. income tax treaty. The IRS asserted that we owe additional taxes with respect to 2002 of approximately \$84.0 million plus interest. We strongly disagreed with the view of the IRS and filed a protest. In 2010, we received an amended notice from the IRS assessing penalties of 30% on the asserted underpayment of tax described above.

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We have so far been unsuccessful in resolving this dispute and recently received a Notice of Deficiency from the IRS for 2002. The Company filed a petition in the United States Tax Court in November 2013 contesting this deficiency. In its January 2014 answer to our petition, the IRS asserted that we also owe 30% withholding tax on the portion of 2002 interest payments made on the 2001 Debt upon which it did not previously assert withholding tax. A 30% withholding tax on this \$85.0 million interest payment would increase the total tax liability proposed for 2002 to \$109.0 million (\$84.0 million referred to in the paragraph above plus this additional \$25.0 million) plus 30% penalties and interest.

Recently we received notices from the IRS containing proposed adjustments to the Company's tax filings in connection with an audit of the 2003-2006 tax years. In these notices, the IRS asserts that we owe a total of approximately \$665.0 million of additional taxes, as described more fully below, in connection with our interest payments on the 2001 Debt for the 2003-2006 period, plus penalties and interest on these unpaid taxes.

The IRS continues to take the position on the 2001 Debt, which was retired at the end of 2011, that it previously took for our 2002 tax year and which is described above. As a result of this recharacterization, the IRS asserts that we owe approximately \$455.0 million of withholding tax for 2003-2006 plus 30% penalties.

The IRS also proposes to extend its position further and to treat all of the interest income from the 2001 Debt as creating earnings and profits at IR-Limited and, as a result, recharacterize the distributions made by IR-Limited during the 2002-2006 tax years as taxable dividends instead of as a return of capital. Consequently the IRS asserts that we owe approximately \$210.0 million of income tax on these dividends plus penalties of 20%.

Although we expect it to do so, the IRS has not yet proposed any similar adjustments for years subsequent to 2006, as the federal income tax audits for those years are still in process or have not yet begun. In addition, we do not know how the IRS will apply its position to the different facts presented in those years or whether the IRS will take a similar position in future audits with respect to intercompany debt instruments not outstanding in prior years.

We have vigorously contested all of these proposed adjustments and intend to continue to do so. Although the outcome of these matters cannot be predicted with certainty, based upon an analysis of the merits of our position we believe that we are adequately reserved under the applicable accounting standards for these matters and do not expect that the ultimate resolution will have a material adverse impact on our future results of operations, financial condition, or cash flows. As we move forward to resolve these matters with the IRS, the reserves established may be adjusted. Although we continue to contest the IRS's position, there can be no assurance that we will be successful. If the IRS's position with respect to the 2002-2006 tax years is ultimately sustained we would be required to record additional charges and the resulting liability will have a material adverse impact on our future results of operations, financial condition and cash flows.

For a further discussion of tax matters, see Note 15 to the Consolidated Financial Statements.

### Asbestos-Related Matters

Certain wholly-owned subsidiaries of the Company are named as defendants in asbestos-related lawsuits in state and federal courts. In virtually all of the suits, a large number of other companies have also been named as defendants. The vast majority of those claims have been filed against either IR-New Jersey or Trane and generally allege injury caused by exposure to asbestos contained in certain historical products sold by IR-New Jersey or Trane, primarily pumps, boilers and railroad brake shoes. Neither IR-New Jersey nor Trane was a producer or manufacturer of asbestos, however, some formerly manufactured products utilized asbestos-containing components such as gaskets and packings purchased from third-party suppliers.

See also the discussion under Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, Environmental and Asbestos Matters and also Note 18 to the Consolidated Financial Statements.

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## Executive Officers of the Registrant

The following is a list of executive officers of the Company as of February 14, 2014.

Name and Age	Date of Service as an Executive Officer	Principal Occupation and Other Information for Past Five Years
Michael W. Lamach (50)	2/16/2004	Chairman of the Board (since June 2010) and Chief Executive Officer and President (since February 2010); President and Chief Operating Officer (2009-2010); Senior Vice President and President, Trane Commercial Systems (2008-2009); Senior Vice President and President, Security Technologies (2004-2008)
Susan K. Carter (55)	10/2/2013	Senior Vice President and Chief Financial Officer (since October 2013); KBR Inc. (a global engineering, construction and services business), Executive Vice President and Chief Financial Officer (2009-2013); Lennox International Inc. (a heating, air conditioning and refrigeration company), Executive Vice President and Chief Financial Officer (2004 to 2009).
Marcia J. Avedon (52)	2/7/2007	Senior Vice President, Human Resources, Communications and Corporate Affairs (since February 2007)
Paul A. Camuti (52)	8/1/2011	Senior Vice President, Innovation and Chief Technology Officer (since August 2011); President, Smart Grid Applications, Siemens Energy, Inc. (an energy technology subsidiary of Siemens Corporation) (2010 -2011); President, Research Division, Siemens Corporation (a diversified global technology company) (2009 - 2010); President and Chief Executive Officer, Siemens Corporate Research, Inc. (the research subsidiary of Siemens Corporation) (2005 - 2009)
Robert L. Katz (51)	11/1/2010	Senior Vice President and General Counsel (since November 2010); Federal- Mogul Corporation (a global automotive supplier), Senior Vice President, General Counsel and Corporate Secretary (2007-2010)
Gary S. Michel (51)	8/1/2011	Senior Vice President and President, Residential HVAC (since December 2013); Senior Vice President and President, Residential Solutions (2011-2013); President and Chief Executive Officer, Club Car (2007 - 2011)
Didier Teirlinck (57)	6/4/2008	Executive Vice President Ingersoll Rand, Climate Segment (since December 2013); Senior Vice President and President, Climate Solutions (2009-2013); President, Climate Control Technologies (2008-2009); President, Climate Control Europe (2005-2008)
Todd D. Wyman (46)	11/16/2009	Senior Vice President, Global Operations and Integrated Supply Chain: (since November 2009); GE Transportation (a unit of General Electric Company), Vice President, Global Supply Chain (2007-2009)
Robert G. Zafari (55)	7/1/2010	

Executive Vice President Ingersoll Rand, Industrial Segment (since December 2013); Senior Vice President and President, Industrial Technologies (2010-2013); President, TCS and Climate Solutions EMEA (2009-2010); President, Security Technologies ESA (2007-2008)

Richard J. Weller (57)	9/8/2008	Vice President and Controller (since September 2008); Vice President, Finance (2008); Vice President, Finance, Security Technologies Sector (2005-2008)
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No family relationship exists between any of the above-listed executive officers of the Company. All officers are elected to hold office for one year or until their successors are elected and qualified.

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## Item 4. MINE SAFETY DISCLOSURES

Not applicable.

## PART II

## Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Information regarding the principal market for our ordinary shares and related shareholder matters is as follows:

Our ordinary shares are traded on the New York Stock Exchange under the symbol IR. As of February 3, 2014, the approximate number of record holders of ordinary shares was 4,156.

The high and low sales price per share and the dividend declared per share for the following periods were as follows:

	Ordinary shares		
	High	Low	Dividend
2013			
First quarter	\$56.77	\$48.06	\$—
Second quarter	58.92	52.03	0.21
Third quarter	66.62	55.32	0.21
Fourth quarter *	71.75	54.83	0.21
2012			
First quarter	\$41.98	\$31.24	\$—
Second quarter	45.62	38.24	0.16
Third quarter	47.71	39.21	0.16
Fourth quarter **	50.03	43.85	0.37

\* On December 1, 2013, we spun off our commercial and residential security businesses to our shareholders. Each of our shareholders of record as of November 22, 2013 received one ordinary share of Allegion for every three Ingersoll-Rand plc ordinary shares owned.

\*\* In December 2012, we declared a dividend of \$0.21 per ordinary share payable on March 28, 2013 to shareholders of record on March 12, 2013.

Future dividends on our ordinary shares, if any, will be at the discretion of our Board of Directors and will depend on, among other things, our results of operations, cash requirements and surplus, financial condition, contractual restrictions and other factors that the Board of Directors may deem relevant, as well as our ability to pay dividends in compliance with the Irish Companies Act. Under the Irish Companies Act, dividends and distributions may only be made from distributable reserves. Distributable reserves, broadly, means the accumulated realized profits of Ingersoll-Rand plc (IR-Ireland). In addition, no distribution or dividend may be made unless the net assets of IR-Ireland are equal to, or in excess of, the aggregate of IR-Ireland's called up share capital plus undistributable reserves and the distribution does not reduce IR-Ireland's net assets below such aggregate.

Information regarding equity compensation plans required to be disclosed pursuant to this Item is incorporated by reference from our definitive proxy statement for the Annual General Meeting of Shareholders.



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## Issuer Purchases of Equity Securities

The following table provides information with respect to purchases by the Company of its ordinary shares during the quarter ended December 31, 2013:

Period	Total number of shares purchased (000's) (a) (b)	Average price paid per share (a) (b)	Total number of shares purchased as part of program (000's) (a)	Approximate dollar value of shares still available to be purchased under the program (\$000's) (a) (c)
October 1 - October 31	1,608.6	\$65.35	1,606.7	\$1,103,970
November 1 - November 30	0.3	68.17	—	1,103,970
December 1 - December 31	5,466.0	57.43	5,449.0	791,065
Total	7,074.9	\$59.81	7,055.7	

(a) In December 2012, our Board of Directors authorized the repurchase of up to \$2.0 billion of our ordinary shares under a share repurchase program. The share repurchase program began in April 2013. Share repurchases will be made from time to time at the discretion of management subject to market conditions, regulatory requirements and other considerations. The repurchase program does not have a prescribed expiration date.

(b) We may also reacquire shares outside of the repurchase program from time to time in connection with the surrender of shares to cover taxes on vesting of share based awards. In October, November and December, 1,859; 294; and 17,044 shares, respectively, were reacquired in transactions outside the repurchase program.

(c) In February 2014, our Board of Directors authorized the repurchase of up to \$1.5 billion of our ordinary shares under a new share repurchase program upon completion of the current share repurchase program. Share repurchases will be made from time to time at the discretion of management subject to market conditions, regulatory requirements and other considerations. The repurchase program does not have a prescribed expiration date. The authorized shares under the new share repurchase program are not included in the approximate dollar value of shares still available to be purchased in the table above.

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Performance Graph

The following graph compares the cumulative total shareholder return on our ordinary shares with the cumulative total return on (i) the Standard & Poor's 500 Stock Index and (ii) the Standard & Poor's 500 Industrial Index for the five years ended December 31, 2013. The graph assumes an investment of \$100 in our ordinary shares, the Standard & Poor's 500 Stock Index and the Standard & Poor's 500 Industrial Index on December 31, 2008 and assumes the reinvestment of dividends. The historical information shown below has been adjusted for the impact of the spin-off of Allegion.

Company/Index	2008	2009	2010	2011	2012	2013
Ingersoll Rand	100	211	281	184	294	479
S&P 500	100	126	145	148	172	228
S&P 500 Industrials Index	100	121	153	152	175	247

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## Item 6. SELECTED FINANCIAL DATA

In millions, except per share amounts:

At and for the years ended December 31,	2013	2012	2011	2010	2009
Net revenues	\$12,350.5	\$11,988.3	\$12,760.8	\$12,033.4	\$10,970.2
Net earnings (loss) attributable to Ingersoll-Rand plc ordinary shareholders:					
Continuing operations	620.1	772.4	123.4	505.2	273.0
Discontinued operations	(1.3	) 246.2	219.8	137.0	178.4
Total assets	17,658.1	18,482.1	18,819.6	20,078.0	19,164.7
Total debt	3,521.2	3,229.4	3,637.6	3,677.8	4,088.8
Total Ingersoll-Rand plc shareholders' equity	7,068.9	7,147.8	6,924.3	7,981.3	7,101.8
Earnings (loss) per share attributable to Ingersoll-Rand plc ordinary shareholders:					
Basic:					
Continuing operations	\$2.11	\$2.54	\$0.38	\$1.56	\$0.85
Discontinued operations	—	0.81	0.68	0.42	0.56
Diluted:					
Continuing operations	\$2.08	\$2.49	\$0.36	\$1.49	\$0.83
Discontinued operations	(0.01	) 0.79	0.65	0.40	0.54
Dividends declared per ordinary share	\$0.63	\$0.69	\$0.59	\$0.28	\$0.50

1. 2011 amounts represent the operating results of the Hussmann Business and Branches through their respective divestiture and transaction dates of September 30, 2011 and November 30, 2011.

2. 2011 Earnings (loss) from continuing operations include an after-tax loss on sale and impairment charges related to the Hussmann divestiture of \$546 million.

3. 2011 Dividends declared per ordinary share includes a dividend of \$0.16 per ordinary share, declared in December 2011, and payable on March 30, 2012 to shareholders of record on March 12, 2012.

4. 2012 Dividends declared per ordinary share includes a dividend of \$0.21 per ordinary share, declared in December 2012, and payable on March 28, 2013 to shareholders of record on March 12, 2013.

5. 2012-2009 amounts have been recast to reflect the Allegion spin-off as a discontinued operation.

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Item 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following Management's Discussion and Analysis of Financial Condition and Results of Operations contains forward-looking statements that involve risks and uncertainties. Our actual results may differ materially from the results discussed in the forward-looking statements. Factors that might cause a difference include, but are not limited to, those discussed under Item 1A. Risk Factors in this Annual Report on Form 10-K. The following section is qualified in its entirety by the more detailed information, including our financial statements and the notes thereto, which appears elsewhere in this Annual Report.

Overview

Organization

We are a diversified, global company that provides products, services and solutions to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables and increase industrial productivity and efficiency. Our business segments consist of Climate and Industrial, both with strong brands and leading positions within their respective markets. We generate revenue and cash primarily through the design, manufacture, sale and service of a diverse portfolio of industrial and commercial products that include well-recognized, premium brand names such as Trane®, Ingersoll-Rand®, Thermo King®, American Standard® and Club Car®.

To achieve our mission of being a world leader in creating comfortable and efficient environments, we continue to focus on increasing our recurring revenue stream from parts, service, used equipment and rentals; and to continuously improve the efficiencies and capabilities of the products and services of our high-potential businesses. We also continue to focus on operational excellence strategies as a central theme to improving our earnings and cash flows.

Trends and Economic Events

We are a global corporation with worldwide operations. As a global business, our operations are affected by worldwide, regional and industry-specific economic factors, as well as political factors, wherever we operate or do business. Our geographic and industry diversity, as well as the diversity of our product sales and services, has helped mitigate the impact of any one industry or the economy of any single country on our consolidated operating results. Given the broad range of products manufactured and geographic markets served, management uses a variety of factors to predict the outlook for the Company. We monitor key competitors and customers in order to gauge relative performance and the outlook for the future. In addition, our order rates are indicative of future revenue and thus a key measure of anticipated performance. In those industry segments where we are a capital equipment provider, revenues depend on the capital expenditure budgets and spending patterns of our customers, who may delay or accelerate purchases in reaction to changes in their businesses and in the economy.

Current market conditions, including challenges in international markets, continue to impact our financial results. Uneven global commercial new construction activity is negatively impacting the results of our commercial Heating, Ventilation and Air Conditioning (HVAC) business. However, we believe the commercial HVAC equipment replacement and aftermarket is slowly recovering. We have seen slower worldwide industrial equipment and aftermarket activity. While U.S. residential and consumer markets continue to be a challenge, we continue to see improvements in the U.S. new builder and replacement markets. The residential HVAC business also continues to be impacted by a mix shift to units with a lower Seasonal Energy Efficiency Rating (SEER). As economic conditions stabilize, we expect slight revenue growth along with benefits from restructuring and productivity programs. Despite the current market environment, we believe we have a solid foundation of global brands and leading market shares in all of our major product lines. Our growing geographic and industry diversity coupled with our large installed product base provides growth opportunities within our service, parts and replacement revenue streams. In addition, we are investing substantial resources to innovate and develop new products and services which we expect will drive our future growth.

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### Significant events in 2013

#### Allegion Spin-Off

On December 1, 2013 (the Distribution Date), we completed the spin-off of our commercial and residential security businesses to our shareholders (the spin-off). On the Distribution Date, each of our shareholders of record as of the close of business on November 22, 2013 (the Record Date) received one ordinary share of Allegion, plc (Allegion) for every three Ingersoll-Rand plc ordinary shares held as of the Record Date. Allegion is now an independent public company trading under the symbol “ALLE” on the New York Stock Exchange.

After the Distribution Date, we do not beneficially own any Allegion ordinary shares (other than approximately 7,045 shares received in a deferred compensation trust upon the spin-off as a result of the trust holding ordinary shares of Ingersoll-Rand plc as of the Record Date), and will no longer consolidate Allegion into our financial results.

Beginning in the fourth quarter of 2013, Allegion's historical financial results for periods prior to the Distribution Date will be reflected in our Consolidated Financial Statements as a discontinued operation.

See “Discontinued Operations and Divestitures” within Management's Discussion and Analysis of Financial Condition and Results of Operations and also Note 16 to the Consolidated Financial Statements for a further discussion of our discontinued operations.

#### Senior Notes due 2019, 2023, and 2043

In June 2013, we issued \$1.55 billion principal amount of Senior Notes in three tranches through our wholly-owned subsidiary, Ingersoll-Rand Global Holding Company Limited (IR-Global) pursuant to Rule 144A of the U.S. Securities Act of 1933 (Securities Act). The tranches consist of \$350 million of 2.875% Senior Notes due in 2019, \$700 million of 4.250% Senior Notes due in 2023, and \$500 million of 5.750% Senior Notes due in 2043. The notes are fully and unconditionally guaranteed by each of IR-Ireland, Ingersoll-Rand Company Limited (IR-Limited), and Ingersoll-Rand International Holding Limited (IR-International). Interest on the notes will be paid twice a year in arrears. The Company has the option to redeem the notes in whole or in part at any time, and from time to time, prior to their stated maturity date at redemption prices set forth in the indenture agreement. The notes are subject to certain customary covenants, however, none of these covenants are considered restrictive to the Company's operations. In connection with the issuance of each series of notes, IR-Global, the Guarantors and the initial purchasers of the notes entered into a Registration Rights Agreement. Each Registration Rights Agreement requires IR-Global and the Guarantors to use their commercially reasonable efforts to execute an effective exchange offer registration statement with the SEC no later than 365 days after the closing date of the notes offering and to complete an exchange offer within 30 business days of such effective date. If a registration default occurs additional interest shall accrue on the notes. The proceeds from these notes were used to fund the July 2013 redemption of \$600 million of 6.000% Senior Notes due 2013 and \$655 million of 9.500% Senior Notes due 2014 and to fund expenses related to the spin-off of the commercial and residential security businesses, with any remaining proceeds to be used for general corporate purposes. Related to this redemption, the Company recorded \$45.6 million of premium expense in the third quarter of 2013 in Interest expense.

#### IRS Exam Results

In 2007, we received a notice from the IRS containing proposed adjustments to our tax filings in connection with an audit of the 2001 and 2002 tax years. The IRS did not contest the validity of our reincorporation in Bermuda. The IRS proposed to ignore the entities that hold the intercompany debt incurred in connection with our reincorporation in Bermuda (the “2001 Debt”) and to which the interest was paid and impose 30% withholding tax on a portion of the interest payments as if they were made directly to a company that was not eligible for reduced U.S. withholding tax under a U.S. income tax treaty. The IRS asserted that we owe additional taxes with respect to 2002 of approximately \$84 million plus interest. We strongly disagreed with the view of the IRS and filed a protest. In 2010, we received an amended notice from the IRS assessing penalties of 30% on the asserted underpayment of tax described above.

We have so far been unsuccessful in resolving this dispute and recently received a Notice of Deficiency from the IRS for 2002. The Company filed a petition in the United States Tax Court in November 2013 contesting this deficiency.

In its January 2014 answer to our petition, the IRS asserted that we also owe 30% withholding tax on the portion of 2002 interest payments made on the 2001 Debt upon which it did not previously assert withholding tax. A 30% withholding tax on this \$85.0 million interest payment would increase the total tax liability proposed for 2002 to

\$109.0 million (\$84 million referred to in the paragraph above plus this additional \$25.0 million) plus 30% penalties and interest.

Recently we received notices from the IRS containing proposed adjustments to the Company's tax filings in connection with an audit of the 2003-2006 tax years. In these notices, the IRS asserts that we owe a total of approximately \$665.0 million of additional taxes, as described more fully below, in connection with our interest payments on the 2001 Debt for the 2003-2006 period, plus penalties and interest on these unpaid taxes.

The IRS continues to take the position on the 2001 Debt, which was retired at the end of 2011, that it previously took for our 2002 tax year and which is described above. As a result of this recharacterization, the IRS asserts that we owe approximately \$455.0 million of withholding tax for 2003-2006 plus 30% penalties.

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The IRS also proposes to extend its position further and to treat all of the interest income from the 2001 Debt as creating earnings and profits at IR-Limited and, as a result, recharacterize the distributions made by IR-Limited during the 2002-2006 tax years as taxable dividends instead of as a return of capital. Consequently the IRS asserts that we owe approximately \$210.0 million of income tax on these dividends plus penalties of 20%.

Although we expect it to do so, the IRS has not yet proposed any similar adjustments for years subsequent to 2006, as the federal income tax audits for those years are still in process or have not yet begun. In addition, we do not know how the IRS will apply its position to the different facts presented in those years or whether the IRS will take a similar position in future audits with respect to intercompany debt instruments not outstanding in prior years.

We have vigorously contested all of these proposed adjustments and intend to continue to do so. Although the outcome of these matters cannot be predicted with certainty, based upon an analysis of the merits of our position we believe that we are adequately reserved under the applicable accounting standards for these matters and do not expect that the ultimate resolution will have a material adverse impact on our future results of operations, financial condition, or cash flows. As we move forward to resolve these matters with the IRS, the reserves established may be adjusted. Although we continue to contest the IRS's position, there can be no assurance that we will be successful. If the IRS's position with respect to the 2002-2006 tax years is ultimately sustained we would be required to record additional charges and the resulting liability will have a material adverse impact on our future results of operations, financial condition and cash flows.

### 2014 Dividend Increase and Share Repurchase Program

In February 2014, we announced an increase in our quarterly share dividend from \$0.21 to \$0.25 per share beginning with our March 2014 payment. The dividend is payable March 31, 2014 to shareholders of record on March 14, 2014. In February 2014, our Board of Directors authorized the repurchase of up to \$1.5 billion of our ordinary shares under a new share repurchase program upon completion of the current share repurchase program. The new share repurchase program is expected to begin in the second quarter of 2014. Share repurchases will be made from time to time at the discretion of management subject to market conditions, regulatory requirements and other considerations.

### 2013 Share Repurchase Program

In December 2012, our Board of Directors authorized the repurchase of up to \$2.0 billion of our ordinary shares under a share repurchase program. The share repurchase program began in April 2013. During 2013 we repurchased 20.8 million shares for \$1.2 billion, excluding commissions. These repurchases were accounted for as a reduction of Ordinary shares and Capital in excess of par value as they were canceled upon repurchase.

### 2011 Share Repurchase Program

Our 2011 share repurchase program was authorized by our Board of Directors in April 2011 and was completed in April 2013. During the year ended December 31, 2012, we repurchased 18.4 million shares for approximately \$0.8 billion, excluding commissions.

### Significant events in 2012

#### 2012 Dividend Increase

In December 2012, we announced an increase in our quarterly share dividend from \$0.16 to \$0.21 per share beginning with our March 2013 payment.

#### Pension and Other Postretirement Plan Amendments

On June 8, 2012, our Board of Directors approved amendments to our retirement plans for certain U.S. and Puerto Rico non-bargained employees. Eligible non-bargained employees hired prior to July 1, 2012 were given a choice of remaining in their respective defined benefit plan until the plan freezes on December 31, 2022 or freezing their accrued benefits in their respective defined benefit plan as of December 31, 2012 and receiving an additional 2% non-matching Company contribution into the Company's applicable defined contribution plan. Eligible employees hired or rehired on or after July 1, 2012 will automatically receive the 2% non-matching Company contribution into the applicable defined contribution plan in lieu of participating in the defined benefit plan. Beginning January 1, 2023, all eligible employees will receive the 2% non-matching contribution into the applicable defined contribution plan.

On February 1, 2012, our Board of Directors approved amendments to our postretirement medical plan with respect to post-65 retiree medical coverage. Effective January 1, 2013, we discontinued offering company-sponsored retiree medical coverage for certain individuals age 65 and older. We transitioned affected individuals to coverage through

the individual Medicare market and will provide a tax-advantaged subsidy to those retirees eligible for subsidized company coverage that can be used toward reimbursing premiums and other qualified medical expenses for individual Medicare supplemental coverage that is purchased through our third-party Medicare coordinator. See Note 10 to the Consolidated Financial Statements for a further discussion of these amendments.



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Significant events in 2011

Dividend Increase

In April 2011, we increased our quarterly stock dividend from \$0.07 to \$0.12 per share beginning with our June 2011 payment. In December 2011, we announced an increase in our quarterly stock dividend from \$0.12 per share to \$0.16 per share beginning with our March 2012 payment.

Divested Operations

On September 30, 2011 and November 30, 2011, we completed transactions to sell our Hussmann refrigerated display case business to a newly-formed affiliate (Hussmann Parent) of private equity firm Clayton Dubilier & Rice, LLC (CD&R). These transactions included the equipment business and certain of the service branches in the U.S. and Canada, and the equipment, service and installation businesses in Mexico, Chile, Australia, New Zealand, and Japan (Hussmann Business) and the remaining North American Hussmann service and installation branches (Hussmann Branches). We negotiated the final terms of the transaction to include our ownership of a portion of the common stock of Hussmann Parent, which represents significant continuing involvement. Therefore, the results of Hussmann are included in continuing operations for all periods presented, with our ownership interest reported using the equity method of accounting subsequent to September 30, 2011. See “Discontinued Operations and Divestitures” within Management's Discussion and Analysis of Financial Condition and Results of Operations and also Note 16 to the Consolidated Financial Statements for a further discussion of our divested operations.

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## Results of Operations - For the years ended December 31

Dollar amounts in millions, except per share data	2013	% of Revenues	2012	% of Revenues	2011	% of Revenues
Net revenues	\$12,350.5		\$11,988.3		\$12,760.8	
Cost of goods sold	(8,675.5)	) 70.3%	(8,538.0)	) 71.2%	(9,280.0)	) 72.7%
Selling and administrative expenses	(2,570.0)	) 20.8%	(2,382.9)	) 19.9%	(2,395.2)	) 18.8%
Gain (loss) on sale/asset impairment	—	—%	4.5	—%	(646.9)	) 5.1%
Operating income	1,105.0	8.9%	1,071.9	8.9%	438.7	3.4%
Interest expense	(278.8)	)	(252.0)	)	(278.5)	)
Other, net	3.4		28.1		28.4	
Earnings before income taxes	829.6		848.0		188.6	
Provision for income taxes	(189.0)	)	(56.0)	)	(45.4)	)
Earnings from continuing operations	640.6		792.0		143.2	
Discontinued operations, net of tax	13.3		252.0		226.1	
Net earnings	653.9		1,044.0		369.3	
Less: Net earnings attributable to noncontrolling interests	(35.1)	)	(25.4)	)	(26.1)	)
Net earnings attributable to Ingersoll-Rand plc	\$618.8		\$1,018.6		\$343.2	
Diluted net earnings (loss) per ordinary share attributable to Ingersoll-Rand plc ordinary shareholders:						
Continuing operations	\$2.08		\$2.49		\$0.36	
Discontinued operations	(0.01)	)	0.79		0.65	
Net earnings	\$2.07		\$3.28		\$1.01	

## Net Revenues

Net revenues for the year ended December 31, 2013 increased by 3.0%, or \$362.2 million, compared with the same period of 2012, which primarily resulted from the following:

Volume/product mix	2.3	%
Pricing	0.7	%
Total	3.0	%

The increase in revenues was primarily driven by volume improvements within the Climate segment and improved pricing for both Climate and Industrial.

Net revenues for the year ended December 31, 2012 decreased by 6.1%, or \$772.5 million, compared with the same period of 2011, which primarily resulted from the following:

Pricing	1.4	%
Volume/product mix	0.4	%
Currency exchange rates	(1.5)	)%
Husmann	(6.4)	)%
Total	(6.1)	)%

The decrease in revenues was primarily driven by the absence of Husmann for the year ended December 31, 2012, which contributed \$818.5 million of revenue in the same period in 2011. This decrease was partially offset by improved pricing within both of our segments and higher volumes within the Industrial business segment.

## Operating Income/Margin

Operating margin remained flat at 8.9% for the year ended December 31, 2013 and 2012. During 2013 we experienced improved pricing in excess of material inflation (0.5%) and productivity benefits in excess of other inflation (0.4%), offset by increased

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investment and restructuring spending (0.9%). During 2013 and 2012, the Company incurred costs of \$82.3 million and \$23.3 million, respectively, associated with ongoing restructuring actions. These actions included workforce reductions as well as the closure and consolidation of manufacturing facilities in an effort to improve the Company's cost structure.

Operating margin improved to 8.9% for the year ended December 31, 2012, compared to 3.4% for the same period of 2011. The improvement was primarily due to Operating income in 2011 including a \$646.9 million loss on sale/asset impairment charge related to the divestiture of Hussmann (5.1%), improved pricing in excess of material inflation across (1.3%), and the realization of productivity benefits in excess of other inflation (0.9%). These improvements were partially offset by increased investment and restructuring spending (1.3%) and unfavorable product mix and volume (0.9%).

**Interest Expense**

Interest expense for the year ended December 31, 2013 increased by \$26.8 million compared with the same period of 2012, primarily as a result of the redemption premium expense incurred during the July 2013 debt redemption discussed in Liquidity and Capital Resources.

Interest expense for the year ended December 31, 2012 decreased \$26.5 million compared with the same period of 2011 as a result of lower average debt balances in 2012.

**Other, Net**

The components of Other, net, for the year ended December 31 are as follows:

In millions	2013	2012	2011
Interest income	\$12.8	\$16.3	\$25.5
Exchange gain (loss)	(14.0)	) 0.2	(1.3)
Earnings (loss) from equity investments	(2.6)	) (5.9)	) (3.5)
Other	7.2	17.5	7.7
Other, net	\$3.4	\$28.1	\$28.4

Exchange gain (loss) for the year ended December 31, 2013 includes a loss of approximately \$3.8 million related to the devaluation of the Venezuela Bolivar. Included within Earnings (loss) from equity investments for the years ended December 31, 2013, 2012 and 2011 is \$2.6 million, \$5.9 million and \$3.5 million of equity loss, respectively, on the Hussmann equity investment incurred subsequent to the Hussmann divestiture transaction dates. The activity included within Other for the year ended December 31, 2012 is primarily related to adjustments to actual and expected insurance recoveries as a result of a settlement.

**Provision for Income Taxes**

The 2013 effective tax rate was 22.8%. The 2013 effective tax rate is lower than the U.S. Statutory rate of 35% primarily due to earnings in non-U.S. jurisdictions, which in aggregate, have a lower effective rate and a \$36 million net reduction in our liability for unrecognized tax benefits primarily due to the settlement of an audit in a major tax jurisdiction, partially offset by a tax charge of \$51 million as a result of a change in assertion in certain subsidiary earnings that the company has previously determined to be permanently reinvested and approximately \$74 million of Allegion spin-off tax charges, primarily related to a net increase in our valuation allowances on certain deferred tax assets. Revenues from non-U.S. jurisdictions account for approximately 41% of our total revenues, such that a material portion of our pretax income is earned and taxed outside the U.S. at rates ranging from 0% to 38%. When comparing the results of multiple reporting periods, among other factors, the mix of earnings between U.S. and foreign jurisdictions can cause variability on our overall effective tax rate.

The 2012 effective tax rate was 6.6%, which included a tax benefit of approximately \$140.0 million resulting from a reduction in valuation allowances on certain Non-U.S. deferred tax assets. The 2012 effective tax rate is lower than the U.S. Statutory rate of 35.0% primarily due to earnings in non-U.S. jurisdictions, which in aggregate, have a lower effective rate and a reduction in valuation allowances mentioned above, partially offset by a net increase in our liability for unrecognized tax benefits.

For a further discussion of tax matters, see Note 15 to the Consolidated Financial Statements.

**Review of Business Segments**

The segment discussions that follow describe the significant factors contributing to the changes in results for each segment included in continuing operations.

In the fourth quarter of 2013, the Company realigned its organizational structure to provide a greater focus on growth, continue implementation of business operating systems, build on our successful operational excellence philosophy and reduce complexity and costs. The Company's new reporting structure includes the Climate and Industrial segments.

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Segment operating income is the measure of profit and loss that our chief operating decision maker uses to evaluate the financial performance of the business and as the basis for performance reviews, compensation and resource allocation. For these reasons, we believe that Segment operating income represents the most relevant measure of segment profit and loss. We may exclude certain charges or gains from Operating income to arrive at a Segment operating income that is a more meaningful measure of profit and loss upon which to base our operating decisions. We define Segment operating margin as Segment operating income as a percentage of Net revenues.

**Climate**

Our Climate segment delivers energy-efficient solutions globally and includes Trane® and American Standard® Heating & Air Conditioning which provide heating, ventilation and air conditioning (HVAC) systems, and commercial and residential building services, parts, support and controls; and Thermo King® transport temperature control solutions.

On September 30, 2011 and November 30, 2011, we completed transactions to sell Hussmann to a newly-formed affiliate (Hussmann Parent) of private equity firm Clayton Dubilier & Rice, LLC (CD&R). As part of the deal terms we have an ongoing equity interest in Hussmann Parent, therefore operating results continue to be recorded within continuing operations. However, subsequent to the respective transaction dates our earnings from this equity interest are not reported in Segment operating income. During the year ended December 31, 2011, we recorded a pre-tax loss on sale and asset impairment charges related to the Hussmann divestiture totaling \$646.9 million. These charges, as well as related adjustments recorded in 2012, have been excluded from Segment operating income within the Climate segment as management excludes these charges from Operating income when making operating decisions about the business. See “Discontinued Operations and Divestitures” within Management's Discussion and Analysis of Financial Condition and Results of Operations and also Note 16 to the Consolidated Financial Statements for a further discussion of our divested operations.

2011 Net revenues and Segment operating income for the Climate segment includes the operating results of the Hussmann Business and Branches prior to the sale. The operating results for the Hussmann Business and Branches are included in Net revenues and Segment operating income for the Climate segment for the year ended December 31, 2011 as follows:

In millions					2011	
Net revenues					\$818.5	
Segment operating income					\$58.6	
Segment results for the years ended December 31 were as follows:						
Dollar amounts in millions	2013	% change	2012	% change	2011	
Net revenues	\$9,414.0	4.1%	\$9,042.5	8.7%	\$9,907.9	
Segment operating income	930.2	13.8%	817.6	2.3%	837.1	
Segment operating margin	9.9	%	9.0	%	8.4	%
2013 vs 2012						

Net revenues for the year ended December 31, 2013 increased by 4.1% or \$371.5 million, compared with the same period of 2012, which primarily resulted from the following:

Volume/product mix	3.5	%
Pricing	0.8	%
Currency exchange rates	(0.2)	)%
Total	4.1	%

Our Trane commercial HVAC business continues to be impacted by weakness in the worldwide commercial building markets. Trane commercial HVAC revenues increased due to improvements in both equipment and parts, services and solutions markets. Trane residential HVAC revenues increased due to increased volume in all equipment categories. These improvements were slightly offset by a continued mix shift to lower SEER units. Net revenues in our transport businesses increased driven by improvements in the Americas and Europe.

Segment operating margin improved to 9.9% for the year ended December 31, 2013, compared to 9.0% for the same period of 2012. The improvement was primarily driven by productivity benefits in excess of other inflation (0.8%), pricing improvements in excess of material inflation (0.6%) and favorable volume/product mix (0.2%). These

improvements were partially offset by increased investment and restructure spending (0.7).

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## 2012 vs 2011

Net revenues for the year ended December 31, 2012 decreased by 8.7% or \$865.4 million, compared with the same period of 2011, which primarily resulted from the following:

Pricing	1.3	%
Volume/product mix	(0.5)	)%
Currency exchange rates	(1.2)	)%
Hussmann	(8.3)	)%
Total	(8.7)	)%

Our Trane commercial HVAC business was impacted by weakness in the worldwide commercial building markets. Trane commercial HVAC revenues increased as growth within our parts, services and solutions markets offset declines in equipment and systems in Europe and Asia. Trane residential HVAC revenues increased due to improved activity levels in both the new residential construction and replacement markets. These improvements were slightly offset by a continued mix shift to lower SEER units. Net revenues in our transport businesses decreased driven by declines in sea-going container revenues. Growth in the Americas was more than offset by declines in Europe. Segment operating margin improved to 9.0% for the year ended December 31, 2012, compared to 8.4% for the same period of 2011. The improvements due to pricing improvements in excess of material inflation (1.3%) and productivity benefits in excess of other inflation (0.8%), were partially offset by unfavorable volume/product mix (0.9%), increased investment and restructure spending (0.5%), and unfavorable currency impacts (0.2%).

## Industrial

Our Industrial segment delivers products and services that enhance energy efficiency, productivity and operations. It includes Ingersoll Rand® compressed air systems and services, power tools, material handling systems, ARO® fluid management equipment, as well as Club Car® golf, utility and rough terrain vehicles.

Segment results for the years ended December 31 were as follows:

Dollar amounts in millions	2013	% change	2012	% change	2011
Net revenues	\$2,936.5	(0.3)	\$2,945.8	3.3	\$2,852.9
Segment operating income	456.0	—	455.8	9.7	415.5
Segment operating margin	15.5	%	15.5	%	14.6

## 2013 vs 2012

Net revenues for the year ended December 31, 2013 decreased by 0.3% or \$9.3 million, compared with the same period of 2012, which primarily resulted from the following:

Pricing	0.6	%
Currency exchange rates	0.3	%
Volume/product mix	(1.2)	)%
Total	(0.3)	)%

Air and Productivity revenues decreased due to declines in equipment sales, partially offset by growth in parts, service and solutions. Club Car revenues increased due to growth in both the golf car and utility vehicle markets.

Segment operating margin remained flat at 15.5% for the year end December 31, 2013 and 2012. Productivity benefits in excess of other inflation (1.1%) were offset by increased investment and restructuring spending (\$0.7%) and unfavorable volume/product mix (0.4%).

## 2012 vs 2011

Net revenues for the year ended December 31, 2012 increased by 3.3%, or \$92.9 million, compared with the same period of 2011, which primarily resulted from the following:

Volume/product mix	3.9	%
Pricing	1.7	%
Currency exchange rates	(2.3)	)%
Total	3.3	%





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We experienced growth within our Air and Productivity business related to increased volume in the Americas. The growth in the Americas was primarily driven by improved air compressors sales. Club Car revenues increased due to improved pricing and growth in the golf car and utility vehicle markets.

Segment operating margin improved to 15.5% for the year ended December 31, 2012 compared to 14.6%, for the same period of 2011. The improvement was primarily driven by productivity benefits in excess of other inflation (2.1%), pricing improvements in excess of material inflation (0.8%). These improvements were partially offset by increased investment and restructuring spending (1.9%) and unfavorable currency impacts (0.2%).

#### Discontinued Operations and Divestitures

##### Discontinued Operations

The components of discontinued operations for the years ended December 31 are as follows:

In millions	2013	2012	2011
Net revenues	\$1,889.9	\$2,046.6	\$2,093.4
Pre-tax earnings (loss) from operations	84.7	379.5	355.7
Pre-tax gain (loss) on sale	—	2.3	(57.7)
Tax benefit (expense)	(71.4)	(129.8)	(71.9)
Discontinued operations, net of tax	\$13.3	\$252.0	\$226.1
Discontinued operations by business for the years ended December 31 are as follows:			
In millions	2013	2012	2011
Allegion spin-off, net of tax	\$12.4	\$254.2	\$275.7
Other discontinued operations, net of tax	0.9	(2.2)	(49.6)
Discontinued operations, net of tax	\$13.3	\$252.0	\$226.1

##### Allegion Spin-Off

On December 1, 2013, (the Distribution Date) we completed the spin-off of our commercial and residential security businesses, now under the name of Allegion, plc (Allegion), to our shareholders (the spin-off). On the Distribution Date, each of our shareholders of record as of the close of business on November 22, 2013 (the Record Date) received one ordinary share of Allegion for every three Ingersoll-Rand plc ordinary shares held as of the Record Date. Allegion is now an independent public company trading under the symbol “ALLE” on the New York Stock Exchange.

Net revenues and after-tax earnings of Allegion for the year ended December 31 were as follows:

In millions	2013	2012	2011
Net revenues	\$1,889.9	\$2,046.6	\$2,021.2
After-tax earnings (loss) from operations	\$12.4	\$254.2	\$275.7

\* Included in After-tax earnings (loss) from operations for the year ended December 31, 2013 and 2012 are spin costs of \$128.0 million and \$5.7 million, respectively, and tax charges related to enacting the spin-off. Also, the 2013 results include a 111.4 million non-cash goodwill impairment charge. For a further discussion, see Note 16 to the Consolidated Financial Statements.

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The components of Allegion assets and liabilities recorded as held for spin-off on the Consolidated Balance Sheet at December 31, 2012 are as follows:

In millions	December 31, 2012
Assets	
Current assets	\$ 726.1
Property, plant and equipment, net	226.5
Goodwill	646.3
Intangible assets, net	150.5
Other assets and deferred income taxes	68.0
Assets held for spin-off	1,817.4
Liabilities	
Current liabilities	\$ 362.9
Noncurrent liabilities	168.9
Liabilities held for spin-off	\$ 531.8

In November 2013, prior to the spin-off, the commercial and residential security businesses borrowed \$1,274.2 million. The proceeds of the borrowing remained with the Company. On December 1, 2013 we made a distribution of \$(0.5) million to the Company's shareholders in connection with the spin-off of Allegion. The distribution included \$1,953.7 million of assets, \$1,974.2 million of liabilities, \$61.1 million of accumulated other comprehensive loss and \$41.1 million of noncontrolling interest.

**Other Discontinued Operations**

The components of other discontinued operations for the years ended December 31 were as follows:

In millions	2013	2012	2011
Retained costs, net of tax	\$0.9	\$(16.2)	\$(34.8)
Net gain (loss) on disposals, net of tax	—	14.0	(14.8)
Discontinued operations, net of tax	\$0.9	\$(2.2)	\$(49.6)

On November 30, 2007, we completed the sale of our Bobcat, Utility Equipment and Attachments businesses (collectively, Compact Equipment) to Doosan Infracore for gross proceeds of approximately \$4.9 billion, subject to post-closing purchase price adjustments. Compact Equipment manufactured and sold compact equipment, including skid-steer loaders, compact track loaders, mini-excavators and telescopic tool handlers; portable air compressors, generators and light towers; general-purpose light construction equipment; and attachments. We were in dispute regarding post-closing matters with Doosan Infracore. During the second quarter of 2011, we collected approximately \$48.3 million of our outstanding receivable from Doosan Infracore related to certain purchase price adjustments. During the second quarter of 2012, Doosan Infracore paid the Company a total of \$46.5 million to settle the outstanding receivable and remaining disputed post-closing matters.

Other discontinued operations, net of tax from previously sold businesses is mainly related to postretirement benefits, product liability, worker's compensation, and legal costs (mostly asbestos-related) and tax effects of post-closing purchase price adjustments.

**Divested Operations****Husmann Divestiture**

On September 30, 2011, we completed a transaction to sell our Husmann refrigerated display case business to a newly-formed affiliate (Husmann Parent) of private equity firm Clayton Dubilier & Rice, LLC (CD&R). This transaction included the equipment business and certain of the service branches in the U.S. and Canada, and the equipment, service and installation businesses in Mexico, Chile, Australia, New Zealand, and Japan (Husmann Business). The final transaction allowed Husmann Parent the option to acquire the remaining North American Husmann service and installation branches (Husmann Branches). Husmann Parent completed the acquisition of the Husmann Branches on November 30, 2011. The Husmann Business and Branches, which are reported as part of the Climate segment, manufacture, market, distribute, install, and service refrigerated display merchandising equipment,

refrigeration systems, over the counter parts, and other commercial and industrial refrigeration applications.

The Hussmann Business divestiture was originally announced on April 21, 2011 and met the criteria for classification as held for sale treatment in accordance with GAAP during the first quarter of 2011. During the third quarter of 2011, we negotiated the final

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transaction to sell the Hussmann Business and Branches to CD&R in exchange for \$370 million in cash, subject to purchase price adjustments, and common stock of Hussmann Parent, such that following the sale, CD&R would own cumulative convertible participating preferred stock of Hussmann Parent, initially representing 60% of the outstanding capital stock (on an as-converted basis) of Hussmann Parent, and we would own all of the common stock, initially representing the remaining 40% of the outstanding capital stock (on an as-converted basis) of Hussmann Parent. Our ownership of common stock of Hussmann Parent represents significant continuing involvement. Therefore, the results of the Hussmann Business and Branches are included in continuing operations for all periods presented. Based on these terms, we recorded a total pre-tax loss on sale/asset impairment charge of \$646.9 million during the full year of 2011.

Results for the Hussmann Business and Branches for the year ended December 31, 2011 are as follows:

In millions	2011*
Net revenues	\$818.5
Gain (loss) on sale/asset impairment	(646.9 ) **
Net earnings (loss) attributable to Ingersoll-Rand plc	(513.1 )
Diluted earnings (loss) per share attributable to Ingersoll-Rand plc ordinary shareholders:	(1.51 )

\* Results represent the operating results of Hussmann Business and Branches through their respective divestiture transaction dates.

\*\* Included in Gain (loss) on sale/asset impairment for the year ended December 31, 2011 are transaction costs of \$12.2 million.

Hussmann Parent is required to pay a quarterly preferred dividend payment to CD&R in the form of cash or additional preferred shares. Our ownership percentage as of December 31, 2013 was 37.2%. Our ownership interest in Hussmann Parent is reported using the equity method of accounting subsequent to September 30, 2011. Our equity investment in the Hussmann Parent is reported within Other noncurrent assets and the related equity earnings reported in Other, net within Net earnings.

#### Liquidity and Capital Resources

We earn a significant amount of our operating income in jurisdictions where it is deemed to be permanently reinvested. Our most prominent jurisdiction of operation is the U.S. Other than as discussed below, we currently do not intend nor foresee a need to repatriate funds to the U.S., and no provision for U.S. income taxes has been made with respect to such earnings. We expect existing cash and cash equivalents available to the U.S., the cash generated by our U.S. operations, our committed credit lines as well as our expected ability to access the capital and debt markets will be sufficient to fund our U.S. operating and capital needs for at least the next twelve months and thereafter for the foreseeable future. In addition, we expect existing non-U.S. cash and cash equivalents and the cash generated by our non-U.S. operations will be sufficient to fund our non-U.S. operating and capital needs for at least the next twelve months and thereafter for the foreseeable future. Should we require more capital in the U.S. than is generated by our U.S. operations, and we determine that repatriation of non-U.S. cash is necessary, such amounts would be subject to U.S. federal income taxes.

As a result of the Allegion spin-off and certain internal restructurings, the Company believes it is advantageous to fully repay an intercompany debt obligation between two of its subsidiaries. In order to facilitate the repayment of this intercompany debt, in the fourth quarter of 2013, the Company decided to change its permanent reinvestment assertion as it relates to approximately \$740 million of earnings primarily related to subsidiaries in Hong Kong, Australia and Canada. The Company has recorded the tax effects of this change in the fourth quarter of 2013, which resulted in a charge of approximately \$51 million. Except where otherwise noted, the Company continues with its permanent reinvestment assertion on its remaining unremitted earnings. For a further discussion, see Note 15 to the Consolidated Financial Statements.

During 2013, we repurchased 20.8 million shares for \$1.2 billion, excluding commissions, under our current share repurchase program. These repurchases were accounted for as a reduction of Ordinary shares and Capital in excess of par value as they were canceled upon repurchase.

In February 2014, we announced an increase in our quarterly share dividend from \$0.21 to \$0.25 per share beginning with our March 2014 payment. The dividend is payable March 31, 2014 to shareholders of record on March 14, 2014.

In February 2014, our Board of Directors authorized the repurchase of up to \$1.5 billion of our ordinary shares under a new share repurchase program upon completion of the current share repurchase program. The new share repurchase program is expected to begin in the second quarter of 2014. We expect our available cash flow, committed credit lines and access to the capital markets will be sufficient to fund the increased dividend and share repurchases.

Table of Contents**Liquidity**

The following table contains several key measures to gauge our financial condition and liquidity at the periods ended December 31:

In millions	2013	2012	2011
Cash and cash equivalents	\$1,937.2	\$708.4	\$987.0
Short-term borrowings and current maturities of long-term debt	367.7	962.9	761.9
Long-term debt	3,153.5	2,266.5	2,875.8
Total debt	3,521.2	3,229.4	3,637.7
Total Ingersoll-Rand plc shareholders' equity	7,068.9	7,147.8	6,924.3
Total equity	7,131.3	7,229.3	7,012.4
Debt-to-total capital ratio	33.1	% 30.9	% 34.2

Short-term borrowings and current maturities of long-term debt at December 31 consisted of the following:

In millions	2013	2012
Debentures with put feature	\$343.0	\$343.0
6.000% Senior notes due 2013	—	600.0
Other current maturities of long-term debt	8.0	10.0
Other short-term borrowings	16.7	9.9
Total	\$367.7	\$962.9

**Commercial Paper Program**

The maximum aggregate amount of unsecured commercial paper notes available to be issued, on a private placement basis, under the commercial paper program is \$2 billion as of December 31, 2013. Under the commercial paper program, Ingersoll-Rand Global Holding Company Limited (IR-Global), may issue notes from time to time, and the proceeds of the financing will be used for general corporate purposes. Each of IR-Ireland, Ingersoll-Rand Company Limited (IR-Limited), and Ingersoll-Rand International Holding Limited (IR-International) has provided an irrevocable and unconditional guarantee for the notes issued under the commercial paper program. We had no commercial paper outstanding at December 31, 2013 and December 31, 2012.

**Debentures with Put Feature**

At December 31, 2013 and December 31, 2012, we had outstanding \$343.0 million and \$343.0 million, respectively, of fixed rate debentures which only require early repayment at the option of the holder. These debentures contain a put feature that the holders may exercise on each anniversary of the issuance date, subject to a notice requirement. If exercised, we are obligated to repay in whole or in part, at the holder's option, the outstanding principal amount (plus accrued and unpaid interest) of the debentures held by the holder. If these options are not exercised, the final maturity dates would range between 2027 and 2028.

Holders of these debentures had the option to exercise the put feature on \$37.2 million of the outstanding debentures in February 2013, subject to the notice requirement. No exercises were made. Holders of the remaining \$305.8 million of the outstanding debentures had the option to exercise the put feature, subject to the notice requirement, on the remaining \$305.8 million in outstanding debentures in November 2013. No material exercises were made. Holders of these debentures had the option to exercise the put feature on \$37.2 million of the outstanding debentures in February 2014, subject to the notice requirement. No notifications were received. Based on our cash flow forecast and access to the capital markets, we believe we will have sufficient liquidity to repay any amounts exercised as a result of the put features.

**Senior Notes due 2019, 2023, and 2043**

In June 2013, we issued \$1.55 billion principal amount of Senior Notes in three tranches through our wholly-owned subsidiary, IR-Global pursuant to Rule 144A of the Securities Act. The tranches consist of \$350 million of 2.875% Senior Notes due in 2019, \$700 million of 4.250% Senior Notes due in 2023, and \$500 million of 5.750% Senior Notes due in 2043. In connection with the issuance of each series of notes, IR-Global, the Guarantors and the initial purchasers of the notes entered into a Registration Rights Agreement. Each Registration Rights Agreement requires IR-Global and the Guarantors to use their commercially reasonable efforts to execute an effective exchange offer registration statement with the SEC no later than 365 days after the closing date of the notes offering and to complete

an exchange offer within 30 business days of such effective date. If a registration default occurs additional interest shall accrue on the notes. The proceeds from these notes were used to fund the July 2013 redemption of \$600 million of 6.000% Senior Notes due 2013 and \$655 million of 9.500% Senior Notes due 2014 and to fund expenses related to the spin-off of the commercial and residential security businesses, with any remaining proceeds to be used for general corporate purposes.



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In July 2013, we fully redeemed the outstanding principal amount of \$600 million of our 6.000% Senior Notes due 2013 and \$655 million of our 9.500% Senior Notes due 2014, resulting in \$45.6 million of redemption premium expense, which was recorded in the third quarter of 2013 in Interest expense.

Exchangeable Senior Notes Due 2012

In April 2009, we issued \$345 million of 4.5% Exchangeable Senior Notes (the Notes) through our wholly-owned subsidiary, IR-Global. We settled all remaining outstanding Notes during 2012. As a result, we paid \$357.0 million in cash and issued 10.8 million ordinary shares to settle the principal, interest and equity portion of the Notes.

Other

As of December 31, 2013, we have a 4-year, \$1.0 billion revolving credit facility maturing on May 20, 2015 and a 5-year, \$1.0 billion revolving credit facility maturing on March 15, 2017, through our wholly-owned subsidiary, IR-Global.

IR-Ireland, IR-Limited and IR-International have each provided an irrevocable and unconditional guarantee for these credit facilities. During 2013, the credit facilities were modified to include IR-New Jersey as a guarantor. The total committed revolving credit facilities of \$2.0 billion are unused and provide support for our commercial paper program as well as for other general corporate purposes.

In addition, other available non-U.S. lines of credit were \$907.3 million, of which \$660.0 million was unused at December 31, 2013. These lines provide support for bank guarantees, letters of credit and other general corporate purposes.

Pension Plans

Our investment objective in managing defined benefit plan assets is to ensure that all present and future benefit obligations are met as they come due. We seek to achieve this goal while trying to mitigate volatility in plan funded status, contribution and expense by better matching the characteristics of the plan assets to that of the plan liabilities. We use a dynamic approach to asset allocation whereby a plan's allocation to fixed income assets increases progressively over time towards an ultimate target of 90% as a plan moves toward full funding. We monitor plan funded status and asset allocation regularly in addition to investment manager performance.

We monitor the impact of market conditions on our defined benefit plans on a regular basis. None of our defined benefit pension plans have experienced a significant impact on their liquidity due to the volatility in the markets. For further details on pension plan activity, see Note 10 to the Consolidated Financial Statements.

Cash Flows

The following table reflects the major categories of cash flows for the years ended December 31, respectively. For additional details, please see the Consolidated Statements of Cash Flows in the Consolidated Financial Statements.

In millions	2013	2012	2011
Operating cash flow provided by (used in) continuing operations	\$877.7	\$868.1	\$786.3
Investing cash flow provided by (used in) continuing operations	(213.2)	(128.2)	229.8
Financing cash flow provided by (used in) continuing operations	354.1	(1,295.7)	(1,239.8)

Operating Activities

Net cash provided by operating activities from continuing operations was \$877.7 million for the year ended December 31, 2013 compared with \$868.1 million in 2012. Operating cash flows for 2013 reflect consistent earnings from continuing operations after taking into account spin-related tax charges with no cash impact in 2013 and favorable changes in working capital management.

Net cash provided by operating activities from continuing operations was \$868.1 million for the year ended December 31, 2012 compared with \$786.3 million in 2011. Operating cash flows for 2012 and 2011 reflect consistent working capital levels and consistent earnings from continuing operations after taking into account the non-cash loss on sale/asset impairment charges related to the Hussmann divestiture.

Investing Activities

Net cash used in investing activities from continuing operations was \$213.2 million for the year ended December 31, 2013 compared with \$128.2 million in 2012. The change in investing activities is primarily attributable to increased capital expenditures and decreased net proceeds from business dispositions and equity investments in 2013 compared to 2012.

Net cash used in investing activities from continuing operations was \$128.2 million for the year ended December 31, 2012 compared with net cash provided by investing activities from continuing operations of \$229.8 million in 2011. The change in investing activities is primarily attributable to decreased net proceeds from business dispositions and sale of property, plant, and equipment in 2012 compared to 2011, partially offset by a \$44.3 million dividend from the Company's equity investment in Hussmann Parent in 2012. During 2011, the Company received net proceeds from business dispositions of \$400.3 million related to the sale of the

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Hussmann Business and Branches and the collection of proceeds for purchase price adjustments on the sale of Doosan Infracore. During 2011, we also received proceeds from the sale of assets from a restructured business in China.

### Financing Activities

Net cash provided by financing activities from continuing operations during the year ended December 31, 2013 was \$354.1 million, compared with net cash used in financing activities from continuing operations of \$1,295.7 million in 2012. The change in financing activities is primarily related to net proceeds from refinancing of our long term debt in 2013 and a transfer of \$1,274.2 million from Allegion in connection with the spin-off, partially offset by increased repurchase of ordinary shares in 2013.

Net cash used in financing activities from continuing operations during the year ended December 31, 2012 was \$1,295.7 million, compared with \$1,239.8 million during 2011. The change in financing activities is primarily related to the settlement of the Exchangeable Senior Notes and increased dividend payments during 2012, partially offset by decreased share repurchases and increased proceeds from shares issued under incentive plans in 2012.

### Capital Resources

Based on historical performance and current expectations, we believe our cash and cash equivalents balance, the cash generated from our operations, our committed credit lines and our expected ability to access capital markets will satisfy our working capital needs, capital expenditures, share repurchase programs, upcoming debt maturities, and other liquidity requirements associated with our operations for the foreseeable future.

Capital expenditures were \$242.2 million, \$243.1 million and \$217.1 million for 2013, 2012 and 2011, respectively.

Our investments continue to improve manufacturing productivity, reduce costs and provide environmental enhancements and advanced technologies for existing facilities. The capital expenditure program for 2014 is estimated to be approximately \$250 million, including amounts approved in prior periods. Many of these projects are subject to review and cancellation at our option without incurring substantial charges.

For financial market risk impacting the Company, see Item 7A. Quantitative and Qualitative Disclosure About Market Risk.

### Capitalization

In addition to cash on hand and operating cash flow, we maintain significant credit availability under our Commercial Paper Program. Our ability to borrow at a cost-effective rate under the Commercial Paper Program is contingent upon maintaining an investment-grade credit rating. As of December 31, 2013, our credit ratings were as follows:

	Short-term	Long-term
Moody's	P-2	Baa2
Standard and Poor's	A-2	BBB

The credit ratings set forth above are not a recommendation to buy, sell or hold securities and may be subject to revision or withdrawal by the assigning rating organization. Each rating should be evaluated independently of any other rating.

Our public debt does not contain financial covenants and our revolving credit lines have a debt-to-total capital covenant of 65%. As of December 31, 2013, our debt-to-total capital ratio was significantly beneath this limit.

### Guarantees

Subsequent to our reorganization as an Irish plc, IR-Ireland and IR-Limited guaranteed fully and unconditionally the outstanding public debt of IR-International, IR-Global and IR-New Jersey. During 2013, IR-Global and IR-International public outstanding indentures were modified to include IR-New Jersey as a co-obligor.

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## Contractual Obligations

The following table summarizes our contractual cash obligations by required payment periods, in millions:

	Less than 1 year	1 - 3 years	3 - 5 years	More than 5 years	Total
Short-term debt	\$16.7	\$—	\$—	\$—	\$16.7
Long-term debt	351.0	* 517.2	765.4	1,877.3	3,510.9
Interest payments on long-term debt	194.3	344.4	314.8	1,531.3	2,384.8
Purchase obligations	954.0	—	—	—	954.0
Operating leases	111.6	149.2	71.6	60.7	393.1
Total contractual cash obligations	\$1,627.6	\$1,010.8	\$1,151.8	\$3,469.3	\$7,259.5

\* Includes \$343 million of debt redeemable at the option of the holder. The scheduled maturities of these bonds range between 2027 and 2028. See Note 8 to the Consolidated Financial Statements for additional information.

Future expected obligations under our pension and postretirement benefit plans, income taxes, environmental, asbestos-related, and product liability matters have not been included in the contractual cash obligations table above.

## Pensions

At December 31, 2013, we had net obligations of \$554.0 million, which consist of noncurrent pension assets of \$4.3 million and current and non-current pension benefit liabilities of \$558.3 million. It is our objective to contribute to the pension plans to ensure adequate funds are available in the plans to make benefit payments to plan participants and beneficiaries when required. We currently project that we will contribute approximately \$154.1 million to our plans worldwide in 2014. Because the timing and amounts of long-term funding requirements for pension obligations are uncertain, they have been excluded from the preceding table. See Note 10 to the Consolidated Financial Statements for additional information.

## Postretirement Benefits Other than Pensions

At December 31, 2013, we had postretirement benefit obligations of \$713.3 million. We fund postretirement benefit costs principally on a pay-as-you-go basis as medical costs are incurred by covered retiree populations. Benefit payments, which are net of expected plan participant contributions and Medicare Part D subsidy, are expected to be approximately \$66.6 million in 2014. Because the timing and amounts of long-term funding requirements for postretirement obligations are uncertain, they have been excluded from the preceding table. See Note 10 to the Consolidated Financial Statements for additional information.

## Income Taxes

At December 31, 2013, we have total unrecognized tax benefits for uncertain tax positions of \$363.3 million and \$71.9 million of related accrued interest and penalties, net of tax. The liability has been excluded from the preceding table as we are unable to reasonably estimate the amount and period in which these liabilities might be paid. See Note 15 to the Consolidated Financial Statements for additional information regarding matters relating to income taxes, including unrecognized tax benefits and Internal Revenue Service (IRS) tax disputes.

## Contingent Liabilities

We are involved in various litigations, claims and administrative proceedings, including those related to environmental, asbestos-related, and product liability matters. We believe that these liabilities are subject to the uncertainties inherent in estimating future costs for contingent liabilities, and will likely be resolved over an extended period of time. Because the timing and amounts of potential future cash flows are uncertain, they have been excluded from the preceding table. See Note 18 to the Consolidated Financial Statements for additional information.

See Note 8 and Note 18 to the Consolidated Financial Statements for additional information on matters affecting our liquidity.

## Critical Accounting Policies

Management's Discussion and Analysis of Financial Condition and Results of Operations are based upon our Consolidated Financial Statements, which have been prepared in accordance with accounting principles generally accepted in the United States (GAAP). The preparation of financial statements in conformity with those accounting principles requires management to use judgment in making estimates and assumptions based on the relevant

information available at the end of each period. These estimates and assumptions have a significant effect on reported amounts of assets and liabilities, revenue and expenses as well as the disclosure of contingent assets and liabilities because they result primarily from the need to make estimates and assumptions on matters that are inherently uncertain. Actual results may differ from estimates. If updated information or actual amounts are different from previous estimates, the revisions are included in our results for the period in which they become known. The following is a summary of certain accounting estimates and assumptions made by management that we consider critical.

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Allowance for doubtful accounts – We maintain an allowance for doubtful accounts receivable which represents our best estimate of probable loss inherent in our accounts receivable portfolio. This estimate is based upon our two step policy that results in the total recorded allowance for doubtful accounts. The first step is to create a specific reserve for significant accounts as to which the customer's ability to satisfy their financial obligation to the Company is in doubt due to circumstances such as bankruptcy, deteriorating operating results or financial position. In these circumstances, management uses its judgment to record an allowance based on the best estimate of probable loss, factoring in such considerations as the market value of collateral, if applicable. The second step is to record a portfolio reserve based on the aging of the outstanding accounts receivable portfolio and the Company's historical experience with our end markets, customer base and products. Actual results could differ from those estimates. These estimates and assumptions are reviewed periodically, and the effects of changes, if any, are reflected in the statement of operations in the period that they are determined.

Goodwill and indefinite-lived intangible assets – We have significant goodwill and indefinite-lived intangible assets on our balance sheet related to acquisitions. Our goodwill and other indefinite-lived intangible assets are tested and reviewed annually during the fourth quarter for impairment or when there is a significant change in events or circumstances that indicate that the fair value of an asset is more likely than not less than the carrying amount of the asset.

Recoverability of goodwill is measured at the reporting unit level and begins with a qualitative assessment to determine if it is more likely than not that the fair value of each reporting unit is less than its carrying amount as a basis for determining whether it is necessary to perform the two-step goodwill impairment test included in U.S. GAAP. For those reporting units where it is required, the first step compares the carrying amount of the reporting unit to its estimated fair value. If the estimated fair value of a reporting unit exceeds its carrying amount, goodwill of the reporting unit is not impaired and the second step of the impairment test is not necessary. To the extent that the carrying value of the reporting unit exceeds its estimated fair value, a second step is performed, wherein the reporting unit's carrying value of goodwill is compared to the implied fair value of goodwill. To the extent that the carrying value exceeds the implied fair value, impairment exists and must be recognized.

As quoted market prices are not available for our reporting units, the calculation of their estimated fair value in step one is based on two valuation techniques, a discounted cash flow model (income approach) and a market adjusted multiple of earnings and revenues (market approach), with each method being equally weighted in the calculation. We believe an equal weighting of both approaches is appropriate. The income approach relies on the Company's estimates of future cash flows and explicitly addresses factors such as timing, growth and margins, with due consideration given to forecasting risk. The market approach reflects the market's expectations for future growth and risk, with adjustments to account for differences between the guideline publicly traded companies and the subject reporting units.

In step 2, the implied fair value of goodwill is determined in the same manner as the amount of goodwill recognized in a business combination. The estimated fair value of the reporting unit is allocated to all of the assets and liabilities of the reporting unit (including any unrecognized intangible assets) as if the reporting unit had been acquired in a business combination and the fair value of the reporting unit, as determined in the first step of the goodwill impairment test, was the price paid to acquire that reporting unit.

Recoverability of other intangible assets with indefinite useful lives is first assessed using a qualitative assessment to determine whether it is more likely than not that an indefinite-lived intangible asset is impaired. This assessment is used as a basis for determining whether it is necessary to calculate the fair value of an indefinite-lived intangible asset. For those indefinite-lived assets where it is required, a fair value is determined on a relief from royalty methodology (income approach) which is based on the implied royalty paid, at an appropriate discount rate, to license the use of an asset rather than owning the asset. The present value of the after-tax cost savings (i.e. royalty relief) indicates the estimated fair value of the asset. Any excess of the carrying value over the estimated fair value is recognized as an impairment loss equal to that excess.

The determination of the estimated fair value and the implied fair value of goodwill and other indefinite-lived intangible assets requires us to make assumptions about estimated cash flows, including profit margins, long-term forecasts, discount rates and terminal growth rates. We developed these assumptions based on the market and

geographic risks unique to each reporting unit.

#### 2013 Impairment Test

For our annual impairment testing performed during the fourth quarter of 2013, we concluded it was necessary to calculate the fair value for each of the reporting units and indefinite-lived intangibles. Based on the results of these calculations, we determined that the fair value of the reporting units and indefinite-lived intangible assets exceeded their respective carrying values. The estimates of fair value are based on the best information available as of the date of the assessment, which primarily incorporates management assumptions about expected future cash flows.

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Goodwill - Under the income approach, we assumed a forecasted cash flow period of five years with discount rates ranging from 10.0% to 15.5%, near term growth rates ranging from (0.2)% to 8.7% and terminal growth rates ranging from 3.0% to 4.0%. Under the market approach, we used an adjusted multiple ranging from 7.2 to 9.8 of projected earnings before interest, taxes, depreciation and amortization (EBITDA) and 0.9 to 2.4 of projected revenues based on the market information of comparable companies. Additionally, we compared the estimated aggregate fair value of our reporting units to our overall market capitalization.

For all reporting units, the excess of the estimated fair value over carrying value (expressed as a percentage of carrying value) was a minimum of 15%. A significant increase in the discount rate, decrease in the long-term growth rate, or substantial reductions in our end markets and volume assumptions could have a negative impact on the estimated fair value of these reporting units.

In our 2012 Form 10-K, we disclosed a Security Technologies reporting unit whose excess estimated fair value over carrying value was less than 15%. As a result of the spin-off, beginning in the fourth quarter of 2013, this reporting unit is now presented within discontinued operations. Please see Note 16 to the Consolidated Financial Statements for further discussion of goodwill impairment charges related to discontinued operations.

Other Indefinite-lived intangible assets - In testing our other indefinite-lived intangible assets for impairment, we assumed forecasted revenues for a period of five years with discount rates ranging from 10.5% to 12.0%, terminal growth rate of 3.0%, and royalty rates ranging from 3.0% to 4.5%. For all tradenames, the excess of the estimated fair value over carrying value (expressed as a percentage of carrying value) was a minimum of 15%.

A significant increase in the discount rate, decrease in the long-term growth rate, decrease in the royalty rate or substantial reductions in our end markets and volume assumptions could have a negative impact on the estimated fair values of any of our tradenames.

### 2012 Impairment Test

For our annual impairment testing performed during the fourth quarter of 2012, we concluded it was necessary to calculate the fair value for each of the reporting units and indefinite-lived intangibles. Based on the results of these calculations, we determined that the fair value of the reporting units and indefinite-lived intangible assets exceeded their respective carrying values. The estimates of fair value are based on the best information available as of the date of the assessment, which primarily incorporates management assumptions about expected future cash flows.

Goodwill - Under the income approach, we assumed a forecasted cash flow period of five years with discount rates ranging from 11.0% to 15.5%, near term growth rates ranging from (3.5)% to 14.5% and terminal growth rates ranging from 2.5% to 4.0%. Under the market approach, we used an adjusted multiple ranging from 6.6 to 9.2 of projected earnings before interest, taxes, depreciation and amortization (EBITDA) and 0.8 to 1.8 of projected revenues based on the market information of comparable companies. Additionally, we compared the estimated aggregate fair value of our reporting units to our overall market capitalization.

For all reporting units except one, the excess of the estimated fair value over carrying value (expressed as a percentage of carrying value) was a minimum of 15%. The reporting unit with a percentage of carrying value less than 15%, reported within the Climate segment, exceeded its carrying value by 14.4%. This reporting unit had goodwill of approximately \$599 million at December 31, 2012. A significant increase in the discount rate, decrease in the long-term growth rate, or substantial reductions in our end markets and volume assumptions could have a negative impact on the estimated fair value of these reporting units.

Other Indefinite-lived intangible assets - In testing our other indefinite-lived intangible assets for impairment, we assumed forecasted revenues for a period of five years with discount rates ranging from 12.0% to 12.5%, terminal growth rates ranging from 2.5% to 3.0%, and royalty rates ranging from 3.0% to 4.0%. The fair values of our Trane and American Standard tradenames exceeded their respective carrying amounts by less than 15%. The two tradenames exceeded their carrying value by 10.5% and 13.0%, respectively. The carrying values of these tradenames are approximately \$2,497 million and \$105 million, respectively, at December 31, 2012.

A significant increase in the discount rate, decrease in the long-term growth rate, decrease in the royalty rate or substantial reductions in our end markets and volume assumptions could have a negative impact on the estimated fair values of any of our tradenames.

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Long-lived assets and finite-lived intangibles – Long-lived assets and finite-lived intangibles are reviewed for impairment whenever events or changes in business circumstances indicate that the carrying amount of an asset may not be fully recoverable. Assets are grouped with other assets and liabilities at the lowest level for which identifiable cash flows can be generated. Impairment in the carrying value of an asset would be recognized whenever anticipated future undiscounted cash flows from an asset are less than its carrying value. The impairment is measured as the amount by which the carrying

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value exceeds the fair value of the asset as determined by an estimate of discounted cash flows. We believe that our use of estimates and assumptions are reasonable and comply with generally accepted accounting principles. Changes in business conditions could potentially require future adjustments to these valuations.

**Loss contingencies –** Liabilities are recorded for various contingencies arising in the normal course of business, including litigation and administrative proceedings, environmental and asbestos matters and product liability, product warranty, worker's compensation and other claims. We have recorded reserves in the financial statements related to these matters, which are developed using input derived from actuarial estimates and historical and anticipated experience data depending on the nature of the reserve, and in certain instances with consultation of legal counsel, internal and external consultants and engineers. Subject to the uncertainties inherent in estimating future costs for these types of liabilities, we believe our estimated reserves are reasonable and do not believe the final determination of the liabilities with respect to these matters would have a material effect on our financial condition, results of operations, liquidity or cash flows for any year.

**Asbestos matters –** Certain of our wholly-owned subsidiaries are named as defendants in asbestos-related lawsuits in state and federal courts. We record a liability for our actual and anticipated future claims as well as an asset for anticipated insurance settlements. Asbestos related defense costs are excluded from the asbestos claims liability and are recorded separately as services are incurred. Although we were neither a manufacturer nor producer of asbestos, some of our formerly manufactured components from third party suppliers utilized asbestos-related components. As a result, we record certain income and expenses associated with our asbestos liabilities and corresponding insurance recoveries within discontinued operations, net of tax, as they relate to previously divested businesses, except for amounts associated with Trane U.S. Inc.'s asbestos liabilities and corresponding insurance recoveries which are recorded within continuing operations. Refer to Note 18 to the Consolidated Financial Statements for further details of asbestos-related matters.

**Revenue recognition –** Revenue is recognized and earned when all of the following criteria are satisfied: (a) persuasive evidence of a sales arrangement exists; (b) the price is fixed or determinable; (c) collectability is reasonably assured; and (d) delivery has occurred or service has been rendered. Delivery generally occurs when the title and the risks and rewards of ownership have substantially transferred to the customer. Both the persuasive evidence of a sales arrangement and fixed or determinable price criteria are deemed to be satisfied upon receipt of an executed and legally binding sales agreement or contract that clearly defines the terms and conditions of the transaction including the respective obligations of the parties. If the defined terms and conditions allow variability in all or a component of the price, revenue is not recognized until such time that the price becomes fixed or determinable. At the point of sale, the Company validates that existence of an enforceable claim that requires payment within a reasonable amount of time and assesses the collectability of that claim. If collectability is not deemed to be reasonably assured, then revenue recognition is deferred until such time that collectability becomes probable or cash is received. Delivery is not considered to have occurred until the customer has taken title and assumed the risks and rewards of ownership.

Service and installation revenue are recognized when earned. In some instances, customer acceptance provisions are included in sales arrangements to give the buyer the ability to ensure the delivered product or service meets the criteria established in the order. In these instances, revenue recognition is deferred until the acceptance terms specified in the arrangement are fulfilled through customer acceptance or a demonstration that established criteria have been satisfied. If uncertainty exists about customer acceptance, revenue is not recognized until acceptance has occurred.

We offer various sales incentive programs to our customers, dealers, and distributors. Sales incentive programs do not preclude revenue recognition, but do require an accrual for the Company's best estimate of expected activity. Examples of the sales incentives that are accrued for as a contra receivable and sales deduction at the point of sale include, but are not limited to, discounts (i.e. net 30 type), coupons, and rebates where the customer does not have to provide any additional requirements to receive the discount. Sales returns and customer disputes involving a question of quantity or price are also accounted for as a reduction in revenue and a contra receivable. At December 31, 2013 and 2012, the Company had a customer claim accrual (contra receivable) of \$1.7 million and \$2.1 million, respectively. All other incentives or incentive programs where the customer is required to reach a certain sales level, remain a customer for a certain period of time, provide a rebate form or is subject to additional requirements are accounted for as a reduction of revenue and establishment of a liability. At December 31, 2013 and 2012, the

Company had a sales incentive accrual of \$80.1 million and \$62.2 million, respectively. Each of these accruals represents the best estimate the Company expects to pay related to previously sold units. These estimates are reviewed regularly for accuracy. If updated information or actual amounts are different from previous estimates, the revisions are included in our results for the period in which they become known. Historically, the aggregate differences, if any, between our estimates and actual amounts in any year have not had a material impact on the Consolidated Financial Statements.

The Company enters into maintenance and extended warranty contracts with customers. Revenue related to these services is recognized on a straight-line basis over the life of the contract, unless sufficient historical evidence indicates that the cost of providing these services is incurred on an other than straight-line basis. In these circumstances, revenue is recognized over the contract period in proportion to the costs expected to be incurred in performing the service.

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The Company, primarily through its Climate segment, provides equipment (e.g. HVAC, controls), integrated solutions, and installation designed to customer specifications through construction-type contracts. The term of these types of contracts is typically less than one year, but can be as long as three years. Revenues related to these contracts are recognized using the percentage-of-completion method in accordance with GAAP. This measure of progress toward completion, utilized to recognize sales and profits, is based on the proportion of actual cost incurred to date as compared to the total estimate of contract costs at completion. The timing of revenue recognition often differs from the invoicing schedule to the customer, with revenue recognition in advance of customer invoicing recorded to unbilled accounts receivable and invoicing in advance of revenue recognition recorded to deferred revenue. At December 31, 2013, all recorded receivables (billed and unbilled) are due within one year. The Company re-evaluates its contract estimates periodically and reflects changes in estimates in the current period using the cumulative catch-up method. These periodic reviews have not historically resulted in significant adjustments. If estimated contract costs are in excess of contract revenues, then the excess costs are accrued.

We enter into sales arrangements that contain multiple elements, such as equipment, installation and service revenue. For multiple element arrangements, each element is evaluated to determine the separate units of accounting. The total arrangement consideration is then allocated to the separate units of accounting based on their relative selling price at the inception of the arrangement. The relative selling price is determined using vendor specific objective evidence (VSOE) of selling price, if it exists; otherwise, third-party evidence (TPE) of selling price is used. If neither VSOE nor TPE of selling price exists for a deliverable, a best estimate of the selling price is developed for that deliverable. The Company primarily utilizes VSOE to determine its relative selling price. The Company recognizes revenue for delivered elements when the delivered item has stand-alone value to the customer, the basic revenue recognition criteria have been met, and only customary refund or return rights related to the delivered elements exist.

Income taxes – Deferred tax assets and liabilities are determined based on temporary differences between financial reporting and tax bases of assets and liabilities, applying enacted tax rates expected to be in effect for the year in which the differences are expected to reverse. We recognize future tax benefits, such as net operating losses and non-U.S. tax credits, to the extent that realizing these benefits is considered in our judgment to be more likely than not. We regularly review the recoverability of our deferred tax assets considering our historic profitability, projected future taxable income, timing of the reversals of existing temporary differences and the feasibility of our tax planning strategies. Where appropriate, we record a valuation allowance with respect to a future tax benefit.

The provision for income taxes involves a significant amount of management judgment regarding interpretation of relevant facts and laws in the jurisdictions in which we operate. Future changes in applicable laws, projected levels of taxable income, and tax planning could change the effective tax rate and tax balances recorded by us. In addition, tax authorities periodically review income tax returns filed by us and can raise issues regarding our filing positions, timing and amount of income or deductions, and the allocation of income among the jurisdictions in which we operate. A significant period of time may elapse between the filing of an income tax return and the ultimate resolution of an issue raised by a revenue authority with respect to that return. We believe that we have adequately provided for any reasonably foreseeable resolution of these matters. We will adjust our estimate if significant events so dictate. To the extent that the ultimate results differ from our original or adjusted estimates, the effect will be recorded in the provision for income taxes in the period that the matter is finally resolved.

Employee benefit plans – We provide a range of benefits to eligible employees and retirees, including pensions, postretirement and postemployment benefits. Determining the cost associated with such benefits is dependent on various actuarial assumptions including discount rates, expected return on plan assets, compensation increases, employee mortality, turnover rates and healthcare cost trend rates. Actuarial valuations are performed to determine expense in accordance with GAAP. Actual results may differ from the actuarial assumptions and are generally accumulated and amortized into earnings over future periods. We review our actuarial assumptions at each measurement date and make modifications to the assumptions based on current rates and trends, if appropriate. The discount rate, the rate of compensation increase and the expected long-term rates of return on plan assets are determined as of each measurement date. A discount rate reflects a rate at which pension benefits could be effectively settled. Discount rates for all plans are established using hypothetical yield curves based on the yields of corporate

bonds rated AA quality. Spot rates are developed from the yield curve and used to discount future benefit payments. The rate of compensation increase is dependent on expected future compensation levels. The expected long-term rate of return on plan assets reflects the average rate of returns expected on the funds invested or to be invested to provide for the benefits included in the projected benefit obligation. The expected long-term rate of return on plan assets is based on what is achievable given the plan's investment policy, the types of assets held and the target asset allocation. The expected long-term rate of return is determined as of each measurement date. We believe that the assumptions utilized in recording our obligations under our plans are reasonable based on input from our actuaries, outside investment advisors and information as to assumptions used by plan sponsors.

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Changes in any of the assumptions can have an impact on the net periodic pension cost or postretirement benefit cost. Estimated sensitivities to the expected 2014 net periodic pension cost of a 0.25% rate decline in the two basic assumptions are as follows: the decline in the discount rate would increase expense by approximately \$5.0 million and the decline in the estimated return on assets would increase expense by approximately \$6.8 million. A 0.25% rate decrease in the discount rate for postretirement benefits would decrease expected 2014 net periodic postretirement benefit cost by \$0.5 million and a 1.0% increase in the healthcare cost trend rate would increase the service and interest cost by approximately \$1.2 million.

### Recent Accounting Pronouncements

#### Recently Adopted Accounting Pronouncements:

In December 2011, the FASB issued ASU 2011-11, “Disclosures about Offsetting Assets and Liabilities.” ASU 2011-11 requires enhanced disclosures including both gross and net information about financial and derivative instruments eligible for offset or subject to an enforceable master netting arrangement or similar agreement. This new guidance is effective for annual reporting periods beginning on or after January 1, 2013 and subsequent interim periods. The requirements of ASU 2011-11 did not have an impact on our Consolidated Financial Statements.

In January 2013, the FASB issued ASU 2013-01, “Clarifying the Scope of Disclosures about Offsetting Assets and Liabilities.” ASU 2013-01 clarifies the scope of ASU 2011-11 to apply to derivative instruments that are offset or subject to an enforceable master netting arrangement or similar agreement. This clarified guidance is effective for annual reporting periods beginning on or after January 1, 2013 and subsequent interim periods. The revised requirements of ASU 2013-01 did not have an impact on our Consolidated Financial Statements.

In February 2013, the FASB issued ASU 2013-02, “Reporting of Amounts Reclassified Out of Accumulated Other Comprehensive Income” (AOCI). ASU 2013-02 requires a rollforward of changes in AOCI by component and information about significant reclassifications from AOCI to Net earnings to be presented in one location, either on the face of the financial statements or in the notes. This new guidance is effective for fiscal years beginning after December 15, 2012 and subsequent interim periods. The requirements of ASU 2013-02 did not have a material impact on our Consolidated Financial Statements. The revised disclosure requirements are reflected in Note 11.

In July 2013, the FASB issued ASU 2013-10, “Inclusion of the Fed Funds Effective Swap Rate (or Overnight Index Swap Rate) as a Benchmark Interest Rate for Hedge Accounting Purposes.” ASU 2013-10 allows the Fed Funds Effective Swap Rate (OIS) to be designated as a U.S. benchmark interest rate for hedge accounting purposes, in addition to interest rates on direct Treasury obligations of the U.S. government and the London Interbank Offered Rate. The amendments also remove the restriction on using different benchmark rates for similar hedges. The amendments are effective prospectively for qualifying new or redesignated hedging relationships entered into on or after July 17, 2013. The Company will apply the new guidance, as applicable, to future interest rate hedge relationships.

#### Recently Issued Accounting Pronouncements

In February 2013, the FASB issued ASU 2013-04, “Obligations Resulting from Joint and Several Liability Arrangements for Which the Total Amount of the Obligation Is Fixed at the Reporting Date.” ASU 2013-04 provides guidance for the recognition, measurement, and disclosure of obligations resulting from joint and several liability arrangements where the total obligation is fixed at the reporting date, and for which no specific guidance currently exists. This new guidance is effective for annual reporting periods beginning on or after December 15, 2013 and subsequent interim periods. We are currently assessing the impact, if any, on our Consolidated Financial Statements.

In March 2013, the FASB issued ASU 2013-05, “Parent’s Accounting for the Cumulative Translation Adjustment upon Derecognition of Certain Subsidiaries or Groups of Assets within a Foreign Entity or of an Investment in a Foreign Entity.” ASU 2013-05 clarifies the application of GAAP to the release of cumulative translation adjustments related to changes of ownership in or within foreign entities, including step acquisitions. This new guidance is effective for annual reporting periods beginning on or after December 15, 2013 and subsequent interim periods.

In July 2013, the FASB issued ASU 2013-11, “Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists.” ASU 2013-11 clarifies guidance and eliminates diversity in practice on the presentation of unrecognized tax benefits when a net operating loss carryforward, a similar tax loss, or a tax credit carryforward exists at the reporting date. This new guidance is effective

for annual reporting periods beginning on or after December 15, 2013 and subsequent interim periods. We are currently assessing the impact, if any, on our Consolidated Financial Statements.

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Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURE ABOUT MARKET RISK

We are exposed to fluctuations in currency exchange rates, interest rates and commodity prices which could impact our results of operations and financial condition.

Foreign Currency Exposures

We have operations throughout the world that manufacture and sell products in various international markets. As a result, we are exposed to movements in exchange rates of various currencies against the U.S. dollar as well as against other currencies throughout the world. We actively manage material currency exposures that are associated with purchases and sales and other assets and liabilities at the operating unit level. Those exposures that cannot be naturally offset to an insignificant amount are hedged with foreign currency derivatives. Derivative instruments utilized by us in our hedging activities are viewed as risk management tools, involve little complexity and are not used for trading or speculative purposes. To minimize the risk of counter party non-performance, derivative instrument agreements are made only through major financial institutions with significant experience in such derivative instruments.

We evaluate our exposure to changes in currency exchange rates on our foreign currency derivatives using a sensitivity analysis. The sensitivity analysis is a measurement of the potential loss in fair value based on a percentage change in exchange rates. Based on the firmly committed currency derivative instruments in place at December 31, 2013, a hypothetical change in fair value of those derivative instruments assuming a 10% adverse change in exchange rates would result in an unrealized loss of approximately \$107.8 million, as compared with \$97.4 million at December 31, 2012. These amounts, when realized, would be offset by changes in the fair value of the underlying transactions.

Commodity Price Exposures

We are exposed to volatility in the prices of commodities used in some of our products and we use fixed price contracts to manage this exposure. We do not have committed commodity derivative instruments in place at December 31, 2013.

Interest Rate Exposure

Our debt portfolio mainly consists of fixed-rate instruments, and therefore any fluctuation in market interest rates would not have a material effect on our results of operations.



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## Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The following Consolidated Financial Statements and Financial Statement Schedules and the report thereon of (a) PricewaterhouseCoopers LLP dated February 14, 2014, are presented following Item 15 of this Annual Report on Form 10-K.

Consolidated Financial Statements:

Report of independent registered public accounting firm

Consolidated Statements of comprehensive income for the years ended December 31, 2013, 2012 and 2011

Consolidated balance sheets at December 31, 2013 and 2012

For the years ended December 31, 2013, 2012 and 2011:

Consolidated statements of equity

Consolidated statements of cash flows

Notes to Consolidated Financial Statements

Financial Statement Schedule:

Schedule II – Valuation and Qualifying Accounts for the years ended December 31, 2013, 2012 and 2011:

(b) The unaudited selected quarterly financial data for the two years ended December 31, is as follows:

In millions, except per share amounts	2013			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Net revenues	\$2,639.0	\$3,398.4	\$3,214.2	\$3,098.9
Cost of goods sold	(1,904.6)	(2,362.9)	(2,207.7)	(2,200.3)
Operating income	120.0	387.5	379.5	218.0
Net earnings	94.5	324.8	180.9	53.7
Net earnings attributable to Ingersoll-Rand plc	88.0	317.2	165.9	47.7
Earnings per share attributable to Ingersoll-Rand plc ordinary shareholders:				
Basic	\$0.29	\$1.07	\$0.57	\$0.17
Diluted	\$0.29	\$1.05	\$0.56	\$0.16
	2012			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Net revenues	\$2,671.2	\$3,302.7	\$3,090.4	\$2,924.0
Cost of goods sold	(1,963.1)	(2,333.7)	(2,156.3)	(2,084.9)
Operating income	116.4	370.3	337.8	247.4
Net earnings	102.2	372.9	327.1	241.8
Net earnings attributable to Ingersoll-Rand plc	95.6	365.8	321.6	235.6
Earnings per share attributable to Ingersoll-Rand plc ordinary shareholders:				
Basic	\$0.32	\$1.18	\$1.05	\$0.79
Diluted	\$0.31	\$1.16	\$1.03	\$0.78

Quarterly amounts for periods prior to December 1, 2013 have been recast to reflect the Allegion spin-off as a discontinued operation.

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Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

Item 9A. CONTROLS AND PROCEDURES

(a) Evaluation of Disclosure Controls and Procedures

The Company's management, including its Chief Executive Officer and Chief Financial Officer, have conducted an evaluation of the effectiveness of the Company's disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the Exchange Act)), as of the end of the period covered by this Annual Report on Form 10-K. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded as of December 31, 2013, that the Company's disclosure controls and procedures were effective in ensuring that information required to be disclosed by the Company in reports that it files or submits under the Exchange Act has been recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms, and that such information has been accumulated and communicated to the Company's management including its Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

(b) Management's Report on Internal Control Over Financial Reporting

The Company's management is responsible for establishing and maintaining adequate internal control over financial reporting as such term is defined under Exchange Act Rules 13a-15(f) and 15d-15(f). Internal control over financial reporting is a process designed by, or under the supervision of, the Chief Executive Officer and Chief Financial Officer and effected by the Company's Board of Directors to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

Management has assessed the effectiveness of internal control over financial reporting as of December 31, 2013. In making its assessment, management has utilized the criteria set forth by the Committee of Sponsoring Organizations (COSO) of the Treadway Commission in Internal Control - Integrated Framework (1992). Management concluded that based on its assessment, the Company's internal control over financial reporting was effective as of December 31, 2013.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2013 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears herein.

(c) Changes in Internal Control Over Financial Reporting

There were no changes in internal control over financial reporting (as defined by Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the quarter ended December 31, 2013 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Item 9B. OTHER INFORMATION

None.

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PART III

Item 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information regarding our executive officers is included in Part I under the caption “Executive Officers of Registrant.”

The other information required by this item is incorporated herein by reference to the information contained under the headings “Item 1. Election of Directors”, “Section 16(a) Beneficial Ownership Reporting Compliance” and “Corporate Governance” in our definitive proxy statement for the 2014 annual general meeting of shareholders (“2014 Proxy Statement”).

Item 11. EXECUTIVE COMPENSATION

The other information required by this item is incorporated herein by reference to the information contained under the headings “Compensation Discussion and Analysis”, “Executive Compensation” and “Compensation Committee Report” in our 2014 Proxy Statement.

Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED

STOCKHOLDER MATTERS

The other information required by this item is incorporated herein by reference to the information contained under the headings “Security Ownership of Certain Beneficial Owners and Management” and “Equity Compensation Plan Information” of our 2014 Proxy Statement.

Item 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The other information required by this item is incorporated herein by reference to the information contained under the headings “Corporate Governance” and “Certain Relationships and Related Person Transactions” of our 2014 Proxy Statement.

Item 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information required by this item is incorporated herein by reference to the information contained under the caption “Fees of the Independent Auditors” in our 2014 Proxy Statement.

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PART IV

Item 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

- |               |   |
|---------------|---|
| (a) 1. and 2. | Financial statements and financial statement schedule<br>See Item 8.  |
| 3.            | Exhibits<br>The exhibits listed on the accompanying index to exhibits are filed as part of this Annual Report on Form 10-K. |

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## INGERSOLL-RAND PLC

## INDEX TO EXHIBITS

(Item 15(a))

## Description

Pursuant to the rules and regulations of the Securities and Exchange Commission (“SEC”), Ingersoll-Rand plc (the “Company”) has filed certain agreements as exhibits to this Annual Report on Form 10-K. These agreements may contain representations and warranties by the parties. These representations and warranties have been made solely for the benefit of the other party or parties to such agreements and (i) may have been qualified by disclosures made to such other party or parties, (ii) were made only as of the date of such agreements or such other date(s) as may be specified in such agreements and are subject to more recent developments, which may not be fully reflected in our public disclosure, (iii) may reflect the allocation of risk among the parties to such agreements and (iv) may apply materiality standards different from what may be viewed as material to investors. Accordingly, these representations and warranties may not describe our actual state of affairs at the date hereof and should not be relied upon.

On July 1, 2009, Ingersoll-Rand Company Limited, a Bermuda company, completed a reorganization to change the jurisdiction of incorporation of the parent company from Bermuda to Ireland. As a result, Ingersoll-Rand plc replaced Ingersoll-Rand Company Limited as the ultimate parent company effective July 1, 2009. All references related to the Company prior to July 1, 2009 relate to Ingersoll-Rand Company Limited.

## (a) Exhibits

Exhibit No.	Description	Method of Filing
2.1	Asset and Stock Purchase Agreement, dated as of July 29, 2007, among Ingersoll-Rand Company Limited, on behalf of itself and certain of its subsidiaries, and Doosan Infracore Co., Ltd. and Doosan Engine Co., Ltd., on behalf of themselves and certain of their subsidiaries	Incorporated by reference to Exhibit 2.1 to the Company’s Form 8-K (File No. 001-16831) filed with the SEC on July 31, 2007.
2.2	Separation and Distribution Agreement, dated as of July 16, 2007, by and between Trane Inc. (formerly American Standard Companies Inc.) and WABCO Holdings Inc.	Incorporated by reference to Exhibit 2.1 to Trane Inc.’s Form 8-K (File No. 001-11415) filed with the SEC on July 20, 2007.
2.3	Separation and Distribution Agreement between Ingersoll-Rand plc and Allegion plc, dated November 29, 2013.	Incorporated by reference to Exhibit 3.1 to the Company’s Form 8-K (File No. 001-34400) filed with the SEC on December 2, 2013.
3.1	Memorandum of Association of Ingersoll-Rand plc	Incorporated by reference to Exhibit 3.1 to the Company’s Form 8-K (File No. 001-34400)

filed with the SEC on July 1,  
2009.

3.2	Articles of Association of Ingersoll-Rand plc, as amended and restated on June 6,2013.	Incorporated by reference to Exhibit 3.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 10, 2013.
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3.3	Certificate of Incorporation of Ingersoll-Rand plc	Incorporated by reference to Exhibit 3.3 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
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Exhibit No.	Description	Method of Filing
	The Company and its subsidiaries are parties to several long-term debt instruments under which, in each case, the total amount of securities authorized does not exceed 10% of the total assets of the Company and its subsidiaries on a consolidated basis.	Pursuant to paragraph 4 (iii)(A) of Item 601 (b) of Regulation S-K, the Company agrees to furnish a copy of such instruments to the Securities and Exchange Commission upon request.
4.1	Indenture, dated as of August 12, 2008, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as Trustee (replacing the Indenture originally filed as Exhibit 4.1 to the Company's Form 10-Q (File No. 001-16831) for the period ended September 30, 2008 as filed with the SEC on November 7, 2008)	Incorporated by reference to Exhibit 4.4 to the Company's Form 10-K for the fiscal year ended 2008 (File No. 001-16831) filed with the SEC on March 2, 2009.
4.2	First Supplemental Indenture, dated as of August 15, 2008, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as trustee, to that certain Indenture, dated as of August 12, 2008, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as trustee	Incorporated by reference to Exhibit 1.1 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on August 18, 2008.
4.3	Second Supplemental Indenture, dated as of April 3, 2009, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as trustee, to that certain Indenture, dated as of August 12, 2008, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as trustee	Incorporated by reference to Exhibit 4.1 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on April 6, 2009.
4.4		

Third Supplemental Indenture, dated as of April 6, 2009, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as trustee, to that certain Indenture, dated as of August 12, 2008, among the Company, Ingersoll-Rand Global Holding Company Limited and Wells Fargo Bank, N.A., as trustee

Incorporated by reference to Exhibit 4.2 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on April 6, 2009.



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Exhibit No.	Description	Method of Filing
4.5	Fourth Supplemental Indenture, dated as of June 29, 2009, among Ingersoll-Rand Global Holding Company Limited, a Bermuda exempted company, Ingersoll-Rand Company Limited, a Bermuda exempted company, Ingersoll-Rand International Holding Limited, a Bermuda exempted company, Ingersoll-Rand plc, an Irish public limited company, and Wells Fargo Bank, N.A., as Trustee, to the Indenture dated as of August 12, 2008	Incorporated by reference to Exhibit 4.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
4.6	Fifth Supplemental Indenture, dated as of June 29, 2009, among Ingersoll-Rand Company, a New Jersey corporation, Ingersoll-Rand plc, an Irish public limited company, Ingersoll-Rand International Holding Limited, a Bermuda exempted company, and The Bank of New York Mellon, as Trustee, to the Indenture dated as of August 1, 1986	Incorporated by reference to Exhibit 4.3 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
4.7	Indenture, dated as of May 24, 2005, among Ingersoll-Rand Company Limited, Ingersoll-Rand Company and Wells Fargo Bank, N.A., as trustee	Incorporated by reference to Exhibit 10.2 to the Company's 8-K (File No. 001-16831) filed with the SEC on May 27, 2005.
4.8	First Supplemental Indenture, dated as of June 29, 2009, among Ingersoll-Rand Company Limited, a Bermuda exempted company, Ingersoll-Rand Company, a New Jersey corporation, Ingersoll-Rand International Holding Limited, a Bermuda exempted company, Ingersoll-Rand plc, an Irish public limited company, and Wells Fargo Bank, N.A., as Trustee, to	Incorporated by reference to Exhibit 4.2 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.

the Indenture dated as of May 24,  
2005

- 4.9 Second Supplemental Indenture,  
dated as of November 20, 2013,  
among Ingersoll-Rand  
International Holding Limited, a  
Bermuda company,  
Ingersoll-Rand Company, a New  
Jersey corporation, and Wells  
Fargo Bank, N.A., as Trustee, to  
the Indenture dated as of May 24,  
2005.
- Incorporated by reference to  
Exhibit 4.3 to the Company's  
Form 8-K (File No. 001-34400)  
filed with the SEC on November  
26, 2013.

- 4.10 Indenture, dated as of April 1,  
2005, among the American  
Standard Inc., Trane Inc.  
(formerly American Standard  
Companies Inc.), American  
Standard International Inc. and  
The Bank of New York Trust  
Company, N.A., as trustee
- Incorporated by reference to  
Exhibit 4.1 to Trane, Inc.'s 8-K  
(File No. 001-11415) filed with  
the SEC on April 1, 2005.

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Exhibit No.	Description	Method of Filing
4.11	Indenture, dated as of June 20, 2013, by and among Ingersoll-Rand Global Holding Company Limited, as issuer, Ingersoll-Rand plc, Ingersoll-Rand Company Limited and Ingersoll-Rand International Holding Limited, as guarantors and The Bank of New York Mellon, as Trustee.	Incorporated by reference to Exhibit 4.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 26, 2013.
4.12	First Supplemental Indenture, dated as of June 20, 2013, by and among Ingersoll-Rand Global Holding Company Limited, as issuer, Ingersoll-Rand plc, Ingersoll-Rand Company Limited and Ingersoll-Rand International Holding Limited, as guarantors and The Bank of New York Mellon, as Trustee, relating to the 2.875% Senior Notes due 2019.	Incorporated by reference to Exhibit 4.2 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 26, 2013.
4.13	Second Supplemental Indenture, dated as of June 20, 2013, by and among Ingersoll-Rand Global Holding Company Limited, as issuer, Ingersoll-Rand plc, Ingersoll-Rand Company Limited and Ingersoll-Rand International Holding Limited, as guarantors and The Bank of New York Mellon, as Trustee, relating to the 4.250% Senior Notes due 2023.	Incorporated by reference to Exhibit 4.3 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 26, 2013.
4.14	Third Supplemental Indenture, dated as of June 20, 2013, by and among Ingersoll-Rand Global Holding Company Limited, as issuer, Ingersoll-Rand plc, Ingersoll-Rand Company Limited and Ingersoll-Rand International Holding Limited, as guarantors and The Bank of New York Mellon, as Trustee, relating to the 5.750% Senior Notes due 2043.	Incorporated by reference to Exhibit 4.4 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 26, 2013.

- 4.15 Fourth Supplemental Indenture, dated as of November 20, 2013, among Ingersoll-Rand Global Holding Company Limited, a Bermuda company, Ingersoll-Rand Company Limited, a Bermuda company, Ingersoll-Rand International Holding Limited, a Bermuda company, Ingersoll-Rand plc, an Irish public limited company, Ingersoll-Rand Company, a New Jersey corporation, and The Bank of New York Mellon, as Trustee, to the Indenture dated as of June 20, 2013.
- Incorporated by reference to Exhibit 4.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on November 26, 2013.
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Exhibit No.	Description	Method of Filing
4.16	Fifth Supplemental Indenture, dated as of November 20, 2013, among Ingersoll-Rand Global Holding Company Limited, a Bermuda company, Ingersoll-Rand International Holding Limited, a Bermuda company, Ingersoll-Rand Company, a New Jersey corporation, and Wells Fargo Bank, N.A., as Trustee, to the Indenture dated as of August 12, 2008.	Incorporated by reference to Exhibit 4.2 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on November 26, 2013.
4.17	Form of Registration Rights Agreement, dated as of June 20, 2013, by and among Ingersoll-Rand Global Holding Company Limited, Ingersoll-Rand plc, Ingersoll-Rand Company Limited, Ingersoll-Rand International Holding Limited and the Representatives of the Initial Purchasers named therein.	Incorporated by reference to Exhibit 4.5 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 26, 2013.
4.18	Form of Ordinary Share Certificate of Ingersoll-Rand plc	Incorporated by reference to Exhibit 4.6 to the Company's Form S-3 (File No. 333-161334) filed with the SEC on August 13, 2009.
10.1	Form of IR Stock Option Grant Agreement (June 2013)	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 10, 2013.
10.2	Form of IR Restricted Stock Unit Grant Agreement (June 2013)	Incorporated by reference to Exhibit 10.2 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on June 10, 2013.
10.3	Form of IR Performance Stock Unit Grant Agreement (June 2013)	Incorporated by reference to Exhibit 10.3 to the Company's Form 8-K (File No. 001-34400)

filed with the SEC on June 10,  
2013.

- 10.4 Credit Agreement among  
Ingersoll-Rand Global Holding  
Company Limited,  
Ingersoll-Rand plc,  
Ingersoll-Rand Company  
Limited, Ingersoll-Rand  
International Holding Limited,  
JPMorgan Chase Bank, N.A., as  
Administrative Agent, Citibank,  
N.A., as Syndication Agent, Bank  
of America, N.A., BNP Paribas,  
Deutsche Bank Securities Inc.,  
Goldman Sachs Bank USA,  
Morgan Stanley MUFG Loan  
Partners, LLC, and Mizuho  
Corporate Bank, Ltd., as  
Documentation Agents, and J.P.  
Morgan Securities LLC and  
Citigroup Global Markets Inc., as  
joint lead arrangers and joint  
bookrunners; and certain other  
lending institutions from time to  
time parties thereto
- Incorporated by reference to  
Exhibit 10.1 to the Company's  
Form 8-K (File No. 001-34400)  
filed with the SEC on March 21,  
2012.

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Exhibit No.	Description	Method of Filing
10.5	Supplement No. 1, dated as of November 20, 2013, between Ingersoll-Rand Company, a New Jersey Corporation, and JPMorgan Chase Bank, N.A., as Administrative Agent, to the Credit Agreement dated as of March 15, 2012.	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on November 26, 2013.
10.6	Credit Agreement dated as of May 20, 2011 among the Company; Ingersoll-Rand Global Holding Company Limited; J.P. Morgan Chase Bank, N.A., as Administrative Agent, Citibank, N.A., as Syndication Agent, Bank of America, N.A., BNP Paribas, Deutsche Bank Securities Inc., Goldman Sachs Bank USA and Morgan Stanley MUFG Loan Parties, LLC, as Documentation Agents, and J.P. Morgan Securities Inc. and Citigroup Global Markets Inc., as joint lead arrangers and joint bookrunners; and certain lending institutions from time to time parties thereto	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on May 24, 2011.
10.7	Supplement No. 1, dated as of November 20, 2013, between Ingersoll-Rand Company, a New Jersey Corporation, and JPMorgan Chase Bank, N.A., as Administrative Agent, to the Credit Agreement dated as of May 20, 2011.	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on November 26, 2013.
10.8	Issuing and Paying Agency Agreement by and among Ingersoll-Rand Global Holding Company Limited, Ingersoll-Rand plc, Ingersoll-Rand Company Limited, Ingersoll-Rand International Holding Limited and JPMorgan Chase Bank, National	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 6, 2009.

Association, dated as of July 1,  
2009

10.9	Amended and Restated Commercial Paper Dealer Agreement among Ingersoll-Rand Global Holding Company Limited, Ingersoll-Rand Company Limited, Ingersoll-Rand plc, Ingersoll-Rand International Holding Limited and J.P. Morgan Securities Inc., dated as of July 1, 2009	Incorporated by reference to Exhibit 10.2 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 6, 2009.
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10.10	Amended and Restated Commercial Paper Dealer Agreement among Ingersoll-Rand Global Holding Company Limited, Ingersoll-Rand Company Limited, Ingersoll-Rand plc, Ingersoll-Rand International Holding Limited and Banc of America Securities LLC, dated as of July 1, 2009	Incorporated by reference to Exhibit 10.3 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 6, 2009.
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Exhibit No.	Description	Method of Filing
10.11	Amended and Restated Commercial Paper Dealer Agreement among Ingersoll-Rand Global Holding Company Limited, Ingersoll-Rand Company Limited, Ingersoll-Rand plc, Ingersoll-Rand International Holding Limited and Citigroup Global Markets Inc., dated as of July 1, 2009	Incorporated by reference to Exhibit 10.4 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 6, 2009.
10.12	Amended and Restated Commercial Paper Dealer Agreement among Ingersoll-Rand Global Holding Company Limited, Ingersoll-Rand Company Limited, Ingersoll-Rand plc, Ingersoll-Rand International Holding Limited and Deutsche Bank Securities Inc., dated as of July 1, 2009	Incorporated by reference to Exhibit 10.5 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 6, 2009.
10.13	Deed Poll Indemnity of Ingersoll-Rand plc, an Irish public limited company, as to the directors, secretary and officers and senior executives of Ingersoll-Rand plc and the directors and officers of Ingersoll-Rand plc's subsidiaries	Incorporated by reference to Exhibit 10.5 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.14	Deed Poll Indemnity of Ingersoll-Rand Company Limited, a Bermuda company, as to the directors, secretary and officers and senior executives of Ingersoll-Rand plc and the directors and officers of Ingersoll-Rand plc's subsidiaries	Incorporated by reference to Exhibit 10.6 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.15	Tax Sharing Agreement, dated as of July 16, 2007, by and among American Standard Companies Inc. and certain of its subsidiaries and WABCO Holdings Inc. and	Incorporated by reference to Exhibit 10.1 to Trane Inc.'s Form 8-K (File No. 001-11415) filed with the SEC on July 20, 2007.

certain of its subsidiaries

10.16	Tax Matters Agreement between Ingersoll-Rand plc and Allegion plc, dated November 30, 2013	Incorporated by reference to Exhibit 10.2 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on December 2, 2013.
10.17	Ingersoll-Rand plc Incentive Stock Plan of 2013	Incorporated by reference to Exhibit 4.5 to the Company's Form S-8 (File No. 333-189446) filed with the SEC on June 19, 2013.
10.18	Ingersoll-Rand plc Incentive Stock Plan of 2007 (amended and restated as of December 1, 2010)	Incorporated by reference to Exhibit 10.18 to the Company's Form 10-K for the fiscal year ended 2010 (File No. 001-34400) filed with the SEC on February 22, 2011.
10.19	Ingersoll-Rand plc Incentive Stock Plan of 1998 (amended and restated as of July 1, 2009)	Incorporated by reference to Exhibit 10.8 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.

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Exhibit No.	Description	Method of Filing
10.20	Ingersoll-Rand Company Incentive Stock Plan of 1995 (amended and restated effective July 1, 2009)	Incorporated by reference to Exhibit 10.7 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.21	IR Executive Deferred Compensation Plan (as amended and restated effective July 1, 2009)	Incorporated by reference to Exhibit 10.9 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.22	IR Executive Deferred Compensation Plan II (as amended and restated effective July 1, 2009)	Incorporated by reference to Exhibit 10.10 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.23	First Amendment to IR Executive Deferred Compensation Plan II (dated December 22, 2009)	Incorporated by reference to Exhibit 10.19 to the Company's Form 10-K for the fiscal year ended 2011 (File No. 001-34400) filed with the SEC on February 21, 2012.
10.24	Second Amendment to IR Executive Deferred Compensation Plan II (dated December 23, 2010)	Incorporated by reference to Exhibit 10.20 to the Company's Form 10-K for the fiscal year ended 2011 (File No. 001-16831) filed with the SEC on February 21, 2012.
10.25	IR-plc Director Deferred Compensation and Stock Award Plan (as amended and restated effective July 1, 2009)	Incorporated by reference to Exhibit 10.11 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.26	IR-plc Director Deferred Compensation and Stock Award Plan II (as amended and restated effective July 1, 2009)	Incorporated by reference to Exhibit 10.12 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.27	Ingersoll-Rand Company Supplemental Employee Savings Plan (amended and restated	Incorporated by reference to exhibit 10.23 to the Company's Form 10-K for the fiscal year

effective October 1, 2012) ended 2012 (File No. 001-34400) filed with the SEC on February 14, 2013.

10.28 Ingersoll-Rand Company Supplemental Employee Savings Plan II (effective January 1, 2005 and amended and restated through October 1, 2012) Incorporated by reference to exhibit 10.24 to the Company's Form 10-K for the fiscal year ended 2012 (File No. 001-34400) filed with the SEC on February 14, 2013.

10.29 Trane Inc. 2002 Omnibus Incentive Plan (restated to include all amendments through July 1, 2009) Incorporated by reference to Exhibit 10.17 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.

10.30 Trane Inc. Deferred Compensation Plan (as amended and restated as of July 1, 2009, except where otherwise stated) Incorporated by reference to Exhibit 10.19 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.

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Exhibit No.	Description	Method of Filing
10.31	Trane Inc. Supplemental Savings Plan (restated to include all amendments through July 1, 2009)	Incorporated by reference to Exhibit 10.20 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.32	First Amendment to Trane Inc. Supplemental Savings Plan (January 1, 2010)	Incorporated by reference to Exhibit 10.31 to the Company's Form 10-K for the fiscal year ended 2011 (File No. 001-34400) filed with the SEC on February 21, 2012.
10.33	Ingersoll-Rand Company Supplemental Pension Plan (Amended and Restated Effective January 1, 2005)	Incorporated by reference to Exhibit 10.28 to the Company's Form 10-K for the fiscal year ended 2008 (File No. 001-16831) filed with the SEC on March 2, 2009.
10.34	First Amendment to the Ingersoll-Rand Company Supplemental Pension Plan, dated as of July 1, 2009	Incorporated by reference to Exhibit 10.21 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on July 1, 2009.
10.35	Ingersoll-Rand Company Supplemental Pension Plan II (Effective January 1, 2005 and Amended and Restated effective October 1, 2012)	Incorporated by reference to exhibit 10.31 to the Company's Form 10-K for the fiscal year ended 2012 (File No. 001-34400) filed with the SEC on February 14, 2013.
10.36	Ingersoll-Rand Company Elected Officers Supplemental Plan II (Effective January 1, 2005 and Amended and Restated effective October 1, 2012)	Incorporated by reference to exhibit 10.32 to the Company's Form 10-K for the fiscal year ended 2012 (File No. 001-34400) filed with the SEC on February 14, 2013.
10.37	Senior Executive Performance Plan	Incorporated by reference to Exhibit 10.39 to the Company's Form 10-K for the fiscal year ended 2011 (File No. 001-34400) filed with the SEC on February 21, 2012.

10.38	Description of Annual Incentive Matrix Program	Incorporated by reference to Exhibit 10.40 to the Company's Form 10-K for the fiscal year ended 2011 (File No. 001-34400) filed with the SEC on February 21, 2012.
10.39	Form of Tier 1 Change in Control Agreement (Officers before May 19, 2009)	Incorporated by reference to Exhibit 99.1 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on December 4, 2006.
10.40	Form of Tier 2 Change in Control Agreement (Officers before May 19, 2009)	Incorporated by reference to Exhibit 99.2 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on December 4, 2006.

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Exhibit No.	Description	Method of Filing
10.41	Form of Tier 1 Change in Control Agreement (New Officers on or after May 19, 2009)	Incorporated by reference to Exhibit 10.32 to the Company's Form 10-Q for the period ended June 30, 2009 (File No. 001-34400) filed with the SEC on August 6, 2009.
10.42	Form of Tier 2 Change in Control Agreement (New Officers on or after May 19, 2009)	Incorporated by reference to Exhibit 10.33 to the Company's Form 10-Q for the period ended June 30, 2009 (File No. 001-34400) filed with the SEC on August 6, 2009.
10.43	Amended and Restated Major Restructuring Severance Plan (as amended and restated effective October 1, 2013)	Filed herewith.
10.44	Steven R. Shawley Offer Letter, dated June 5, 2008	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on June 10, 2008.
10.45	Addendum to Steven R. Shawley Offer Letter, dated August 7, 2008	Incorporated by reference to Exhibit 10.9 to the Company's Form 10-Q for the period ended June 30, 2008 (File No. 001-16831) filed with the SEC on August 8, 2008.
10.46	Didier Teirlinck Offer Letter, dated June 5, 2008	Incorporated by reference to Exhibit 10.4 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on June 10, 2008.
10.47	Addendum to Didier Teirlinck Offer Letter, dated July 17, 2008	Incorporated by reference to Exhibit 10.13 to the Company's Form 10-Q for the period ended June 30, 2008 (File No. 001-16831) filed with the SEC on August 8, 2008.
10.48	Addendum to Didier Teirlinck Offer Letter, dated December 9,	Filed herewith.

2013

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|-------|---|--|
| 10.49 | Michael W. Lamach Letter, dated December 24, 2003 | Incorporated by reference to Exhibit 10.23 to the Company's Form 10-K for the fiscal year ended 2003 (File No. 001-16831) filed with the SEC on February 27, 2004. |
| 10.50 | Michael W. Lamach Letter, dated June 4, 2008      | Incorporated by reference to Exhibit 10.2 to the Company's Form 8-K (File No. 001-16831) filed with the SEC on June 10, 2008.                                      |
| 10.51 | Michael W. Lamach Letter, dated February 4, 2009  | Incorporated by reference to Exhibit 10.43 to the Company's Form 10-K for the fiscal year ended 2008 (File No. 001-16831) filed with the SEC on March 2, 2009.     |

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Exhibit No.	Description	Method of Filing
10.52	Michael W. Lamach Letter, dated February 3, 2010	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on February 5, 2010.
10.53	Michael W. Lamach Letter, dated December 23, 2012	Incorporated by reference to exhibit 10.48 to the Company's Form 10-K for the fiscal year ended 2012 (File No. 001-34400) filed with the SEC on February 14, 2013.
10.54	Robert Zafari Letter and Addendum, dated August 25, 2010	Incorporated by reference to Exhibit 10.1 to the Company's Form 10-Q for the period ended September 30, 2010 (File No. 001-34400) filed with the SEC on November 1, 2010.
10.55	Addendum to Robert Zafari Offer Letter, dated December 9, 2013	Filed herewith.
10.56	Robert L. Katz Letter, dated September 28, 2010	Incorporated by reference to Exhibit 10.65 to the Company's Form 10-K for the fiscal year ended 2010 (File No. 001-34400) filed with the SEC on February 22, 2011.
10.57	Robert L. Katz Letter, dated December 20, 2012	Incorporated by reference to exhibit 10.51 to the Company's Form 10-K for the fiscal year ended 2012 (File No. 001-34400) filed with the SEC on February 14, 2013.
10.58	Employment Agreement with Marcia J. Avedon, Senior Vice President, dated January 8, 2007	Incorporated by reference to Exhibit 10.45 to the Company's Form 10-K for the fiscal year ended December 31, 2006 (File No. 001-16831) filed with the SEC on March 1, 2007.
10.59	Marcia J. Avedon Letter, dated December 20, 2012	Incorporated by reference to exhibit 10.53 to the Company's Form 10-K for the fiscal year

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ended 2012 (File No. 001-34400)  
filed with the SEC on February  
14, 2013.

10.60	Susan K. Carter Employment Agreement, dated as of August 19, 2013	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on October 2, 2013.
10.61	Employee Matters Agreement between Ingersoll-Rand plc and Allegion plc, dated November 30, 2013.	Incorporated by reference to Exhibit 10.1 to the Company's Form 8-K (File No. 001-34400) filed with the SEC on December 2, 2013.
12	Computations of Ratios of Earnings to Fixed Charges	Filed herewith.
21	List of Subsidiaries of Ingersoll-Rand plc	Filed herewith.

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Exhibit No.	Description	Method of Filing
23.1	Consent of Independent Registered Public Accounting Firm	Filed herewith.
31.1	Certification of Chief Executive Officer Pursuant to Rule 13a-14(a) or Rule 15d-14(a), as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	Filed herewith.
31.2	Certification of Chief Financial Officer Pursuant to Rule 13a-14(a) or Rule 15d-14(a), as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	Filed herewith.
32	Certifications of Chief Executive Officer and Chief Financial Officer Pursuant to Rule 13a-14(b) or Rule 15d-14(b) and 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	Furnished herewith.
101	The following materials from the Company's Annual Report on Form 10-K for the year ended December 31, 2013, formatted in XBRL (Extensible Business Reporting Language): (i) the Consolidated Statements of Comprehensive Income, (ii) the Consolidated Balance Sheets, (iii) the Consolidated Statements of Equity, (iv) the Consolidated Statements of Cash Flows, and (v) Notes to Consolidated Financial Statements.	Furnished herewith.

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

INGERSOLL-RAND PLC

(Registrant)

By:	/s/ Michael W. Lamach Michael W. Lamach Chief Executive Officer
Date:	February 14, 2014

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Pursuant to the requirement of the Securities Exchange Act of 1934, this report has been signed by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Michael W. Lamach (Michael W. Lamach)	Chairman of the Board, Chief Executive Officer and President (Principal Executive Officer)	February 14, 2014
/s/ Susan K. Carter (Susan K. Carter)	Senior Vice President and Chief Financial Officer (Principal Financial Officer)	February 14, 2014
/s/ Richard J. Weller (Richard J. Weller)	Vice President and Controller (Principal Accounting Officer)	February 14, 2014
/s/ Ann C. Berzin (Ann C. Berzin)	Director	February 14, 2014
/s/ John Bruton (John Bruton)	Director	February 14, 2014
/s/ Jared L. Cohon (Jared L. Cohon)	Director	February 14, 2014
/s/ Gary D. Forsee (Gary D. Forsee)	Director	February 14, 2014
/s/ Edward E. Hagenlocker (Edward E. Hagenlocker)	Director	February 14, 2014
/s/ Constance J. Horner (Constance J. Horner)	Director	February 14, 2014
/s/ Theodore E. Martin (Theodore E. Martin)	Director	February 14, 2014
/s/ Nelson Peltz (Nelson Peltz)	Director	February 14, 2014
/s/ John P. Surma (John P. Surma)	Director	February 14, 2014
/s/ Richard J. Swift (Richard J. Swift)	Director	February 14, 2014
/s/ Tony L. White (Tony L. White)	Director	February 14, 2014



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INGERSOLL-RAND PLC

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Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors of Ingersoll-Rand plc:

In our opinion, the Consolidated Financial Statements listed in the accompanying index present fairly, in all material respects, the financial position of Ingersoll-Rand plc and its subsidiaries (the “Company”) at December 31, 2013 and 2012, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2013 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedule listed in the accompanying index presents fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2013, based on criteria established in Internal Control - Integrated Framework (1992) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements and financial statement schedule, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying “Management’s Report on Internal Control over Financial Reporting.” Our responsibility is to express opinions on these financial statements, on the financial statement schedule, and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PricewaterhouseCoopers LLP

Charlotte, North Carolina

February 14, 2014



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## Ingersoll-Rand plc

## Consolidated Statements of Comprehensive Income

In millions, except per share amounts

For the years ended December 31,

	2013	2012	2011
Net revenues	\$12,350.5	\$11,988.3	\$12,760.8
Cost of goods sold	(8,675.5)	) (8,538.0)	) (9,280.0)
Selling and administrative expenses	(2,570.0)	) (2,382.9)	) (2,395.2)
Gain (loss) on sale/asset impairment	—	4.5	(646.9)
Operating income	1,105.0	1,071.9	438.7
Interest expense	(278.8)	) (252.0)	) (278.5)
Other, net	3.4	28.1	28.4
Earnings before income taxes	829.6	848.0	188.6
Provision for income taxes	(189.0)	) (56.0)	) (45.4)
Earnings from continuing operations	640.6	792.0	143.2
Discontinued operations, net of tax	13.3	252.0	226.1
Net earnings	653.9	1,044.0	369.3
Less: Net earnings attributable to noncontrolling interests	(35.1)	) (25.4)	) (26.1)
Net earnings attributable to Ingersoll-Rand plc	\$618.8	\$1,018.6	\$343.2
Amounts attributable to Ingersoll-Rand plc ordinary shareholders:			
Continuing operations	\$620.1	\$772.4	\$123.4
Discontinued operations	(1.3)	) 246.2	219.8
Net earnings	\$618.8	\$1,018.6	\$343.2
Earnings (loss) per share attributable to Ingersoll-Rand plc ordinary shareholders:			
Basic:			
Continuing operations	\$2.11	\$2.54	\$0.38
Discontinued operations	—	0.81	0.68
Net earnings	\$2.11	\$3.35	\$1.06
Diluted:			
Continuing operations	\$2.08	\$2.49	\$0.36
Discontinued operations	(0.01)	) 0.79	0.65
Net earnings	\$2.07	\$3.28	\$1.01

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Ingersoll-Rand plc

Consolidated Statements of Comprehensive Income (continued)

In millions, except per share amounts

For the years ended December 31,

	2013	2012	2011
Net earnings	\$653.9	\$1,044.0	\$369.3
Other comprehensive income (loss)			
Currency translation	15.0	85.5	(158.1 )
Cash flow hedges and marketable securities			
Unrealized net gains (losses) arising during period	7.8	(0.7 )	(1.4 )
Net (gains) losses reclassified into earnings	12.1	2.8	2.8
Tax (expense) benefit	(0.2 )	1.0	(0.5 )
Total cash flow hedges and marketable securities, net of tax	19.7	3.1	0.9
Pension and OPEB adjustments:			
Prior service gains (costs) for the period	(1.2 )	58.8	1.3
Net actuarial gains (losses) for the period	358.9	(185.0 )	(283.0 )
Amortization reclassified into earnings	63.9	62.7	54.8
Settlements/curtailments reclassified to earnings	0.7	4.9	95.9
Currency translation and other	(5.4 )	(9.6 )	(0.7 )
Tax (expense) benefit	(153.6 )	(0.2 )	59.7
Total pension and OPEB adjustments, net of tax	263.3	(68.4 )	(72.0 )
Other comprehensive income (loss), net of tax	298.0	20.2	(229.2 )
Total comprehensive income (loss), net of tax	\$951.9	\$1,064.2	\$140.1
Less: Total comprehensive (income) loss attributable to noncontrolling interests	(38.4 )	(13.0 )	(25.5 )
Total comprehensive income (loss) attributable to Ingersoll-Rand plc	\$913.5	\$1,051.2	\$114.6

See accompanying notes to Consolidated Financial Statements.

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Ingersoll-Rand plc

Consolidated Balance Sheets

In millions, except share amounts

December 31,	2013	2012
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$1,937.2	\$708.4
Accounts and notes receivable, net	2,071.5	1,870.1
Inventories	1,166.1	1,144.0
Deferred taxes and current tax receivable	359.5	269.5
Other current assets	182.4	184.5
Assets held for spin-off	—	1,817.4
Total current assets	5,716.7	5,993.9
Property, plant and equipment, net	1,468.4	1,426.1
Goodwill	5,540.6	5,492.6
Intangible assets, net	3,922.0	4,050.4
Other noncurrent assets	1,010.4	1,519.1
Total assets	\$17,658.1	\$18,482.1
<b>LIABILITIES AND EQUITY</b>		
Current liabilities:		
Accounts payable	\$1,163.0	\$1,019.4
Accrued compensation and benefits	505.2	448.2
Accrued expenses and other current liabilities	1,311.3	1,321.8
Short-term borrowings and current maturities of long-term debt	367.7	962.9
Current income taxes	61.4	41.8
Liabilities held for spin-off	—	531.8
Total current liabilities	3,408.6	4,325.9
Long-term debt	3,153.5	2,266.5
Postemployment and other benefit liabilities	1,287.8	1,685.2
Deferred and noncurrent income taxes	1,335.8	1,576.7
Other noncurrent liabilities	1,341.1	1,398.5
Total liabilities	10,526.8	11,252.8
Equity:		
Ingersoll-Rand plc shareholders' equity		
Ordinary shares, \$1 par value (282,700,041 and 295,605,736 shares issued at December 31, 2013 and 2012, respectively, and net of 21,137 and 22,562 shares owned by subsidiary at December 31, 2013 and 2012, respectively)	282.7	295.6
Capital in excess of par value	158.4	1,014.5
Retained earnings	6,794.5	6,358.7
Accumulated other comprehensive income (loss)	(166.7	) (521.0 )
Total Ingersoll-Rand plc shareholders' equity	7,068.9	7,147.8
Noncontrolling interest	62.4	81.5
Total equity	7,131.3	7,229.3
Total liabilities and equity	\$17,658.1	\$18,482.1

See accompanying notes to Consolidated Financial Statements.



Table of ContentsIngersoll-Rand plc  
Consolidated Statements of Equity

In millions, except per share amounts	Total equity	Ingersoll-Rand plc shareholders' equity					Accumulated other comprehensive income (loss)	Noncontrolling Interest
		Ordinary Shares Amount	Shares	Capital in excess of par value	Retained earnings			
Balance at December 31, 2010	8,059.1	328.2	328.2	2,571.7	5,389.4	(325.0 )	94.8	
Net earnings	369.3	—	—	—	343.2	—	26.1	
Other comprehensive income (loss)	(229.2 )	—	—	—	—	(228.6 )	(0.6 )	
Shares issued under incentive stock plans	133.6	5.2	5.2	128.4	—	—	—	
Repurchase of ordinary shares	(1,157.5 )	(36.3 )	(36.3 )	(1,121.2 )	—	—	—	
Accretion of Exchangeable Senior Notes from Temporary Equity	13.3	—	—	13.3	—	—	—	
Share-based compensation	42.6	—	—	42.6	—	—	—	
Acquisition/divestiture of noncontrolling interest	(2.4 )	—	—	(1.3 )	—	—	(1.1 )	
Dividends declared to noncontrolling interest	(30.1 )	—	—	—	—	—	(30.1 )	
Cash dividends, declared and paid (\$0.59 per share)	(184.7 )	—	—	—	(184.7 )	—	—	
Other	(1.6 )	—	—	(0.5 )	(0.1 )	—	(1.0 )	
Balance at December 31, 2011	7,012.4	297.1	297.1	1,633.0	5,547.8	(553.6 )	88.1	
Net earnings	1,044.0	—	—	—	1,018.6	—	25.4	
Other comprehensive income (loss)	20.2	—	—	—	—	32.6	(12.4 )	
Shares issued under incentive stock plans	172.5	6.1	6.1	166.4	—	—	—	
Settlement of Exchangeable Senior Notes	(4.7 )	10.8	10.8	(15.5 )	—	—	—	
Repurchase of ordinary shares	(839.8 )	(18.4 )	(18.4 )	(821.4 )	—	—	—	
Accretion of Exchangeable Senior Notes from Temporary Equity	3.3	—	—	3.3	—	—	—	
Share-based compensation	49.8	—	—	49.8	—	—	—	
Acquisition/divestiture of noncontrolling interest	(1.5 )	—	—	(1.1 )	—	—	(0.4 )	
Dividends declared to noncontrolling interest	(19.2 )	—	—	—	—	—	(19.2 )	
Cash dividends declared (\$0.69 per share)	(207.7 )	—	—	—	(207.7 )	—	—	
Balance at December 31, 2012	\$7,229.3	\$295.6	295.6	\$1,014.5	\$6,358.7	\$ (521.0 )	\$ 81.5	

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## Ingersoll-Rand plc

## Consolidated Statements of Equity - (Continued)

In millions, except per share amounts	Total equity	Ingersoll-Rand plc shareholders' equity		Capital in excess of par value	Retained earnings	Accumulated other comprehensive income (loss)	Noncontrolling Interest
		Ordinary Shares Amount	Shares				
Net earnings	653.9	—	—	—	618.8	—	35.1
Other comprehensive income (loss)	298.0	—	—	—	—	294.7	3.3
Shares issued under incentive stock plans	272.5	7.9	7.9	264.6	—	—	—
Settlement of Exchangeable Senior Notes	—	—	—	—	—	—	—
Repurchase of ordinary shares	(1,213.2 )	(20.8 )	(20.8 )	(1,192.4 )	—	—	—
Accretion of Exchangeable Senior Notes from Temporary Equity	—	—	—	—	—	—	—
Share-based compensation	71.8	—	—	71.8	—	—	—
Dividends declared to noncontrolling interest	(17.6 )	—	—	—	—	—	(17.6 )
Cash dividends declared (\$0.63 per share)	(183.4 )	—	—	—	(183.4 )	—	—
Distribution of Allegion	18.5	—	—	—	0.5	59.1	(41.1 )
Other	1.5	—	—	(0.1 )	(0.1 )	0.5	1.2
Balance at December 31, 2013	\$7,131.3	\$282.7	282.7	\$158.4	\$6,794.5	\$ (166.7 )	\$ 62.4

See accompanying notes to Consolidated Financial Statements.

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Ingersoll-Rand plc  
Consolidated Statements of Cash Flows  
In millions

For the years ended December 31,	2013	2012	2011
Cash flows from operating activities:			
Net earnings	\$653.9	\$1,044.0	\$369.3
(Income) loss from discontinued operations, net of tax	(13.3	) (252.0	) (226.1
Adjustments to arrive at net cash provided by (used in) operating activities:			
(Gain) loss on sale/asset impairment	—	(4.5	) 646.9
Depreciation and amortization	333.7	333.8	358.5
Stock settled share-based compensation	71.8	49.8	42.6
(Gain) loss on sale of property, plant and equipment	5.3	(1.2	) (24.6
Equity earnings, net of dividends	4.2	7.6	5.4
Deferred income taxes	29.4	(47.9	) (171.2
Other items	194.3	122.7	15.6
Changes in other assets and liabilities			
(Increase) decrease in:			
Accounts and notes receivable	(214.3	) (34.2	) 16.0
Inventories	(39.4	) (25.3	) (6.4
Other current and noncurrent assets	68.3	(68.7	) 22.5
Increase (decrease) in:			
Accounts payable	141.0	(12.5	) (55.1
Other current and noncurrent liabilities	(357.2	) (243.5	) (207.1
Net cash (used in) provided by continuing operating activities	877.7	868.1	786.3
Net cash (used in) provided by discontinued operating activities	292.7	312.9	400.5
Net cash provided by (used in) operating activities	1,170.4	1,181.0	1,186.8
Cash flows from investing activities:			
Capital expenditures	(242.2	) (243.1	) (217.1
Acquisition of businesses, net of cash acquired	—	—	(1.9
Proceeds from sale of property, plant and equipment	24.3	17.9	48.5
Proceeds from business dispositions, net of cash sold	4.7	52.7	400.3
Dividends received from equity investments	—	44.3	—
Net cash (used in) provided by continuing investing activities	(213.2	) (128.2	) 229.8
Net cash (used in) provided by discontinued investing activities	(2.2	) (18.3	) (22.3
Net cash provided by (used in) investing activities	(215.4	) (146.5	) 207.5

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Ingersoll-Rand plc  
Consolidated Statements of Cash Flows - (Continued)  
In millions

For the years ended December 31,	2013	2012	2011
Cash flows from financing activities:			
Other short-term borrowings, net	8.9	5.5	35.5
Proceeds from long-term debt	1,547.8	—	3.6
Payments of long-term debt	(1,265.0)	) (418.9	) (91.9 )
Net proceeds (repayments) in debt	291.7	(413.4	) (52.8 )
Debt issuance costs	(13.2)	) (2.5	) (2.3 )
Excess tax benefit from share-based compensation	19.5	19.6	24.6
Dividends paid to ordinary shareholders	(245.5)	) (192.4	) (137.3 )
Dividends paid to noncontrolling interests	(12.4)	) (13.9	) (20.8 )
Acquisition/divestiture of noncontrolling interest	—	(1.5	) (1.3 )
Proceeds from shares issued under incentive plans	253.0	152.9	109.0
Repurchase of ordinary shares	(1,213.2)	) (839.8	) (1,157.5 )
Transfer from Allegion	1,274.2	—	—
Other, net	—	(4.7	) (1.4 )
Net cash (used in) provided by continuing financing activities	354.1	(1,295.7	) (1,239.8 )
Net cash (used in) provided by discontinued financing activities	(7.5)	) (8.2	) (6.6 )
Net cash (used in) provided by financing activities	346.6	(1,303.9	) (1,246.4 )
Effect of exchange rate changes on cash and cash equivalents	(72.8)	) (9.2	) (1.5 )
Net increase (decrease) in cash and cash equivalents	1,228.8	(278.6	) 146.4
Cash and cash equivalents – beginning of period*	708.4	987.0	840.6
Cash and cash equivalents – end of period*	\$1,937.2	\$708.4	\$987.0
Cash paid during the year for:			
Interest, net of amounts capitalized	\$238.3	\$223.7	\$231.2
Income taxes, net of refunds	\$162.3	\$251.3	\$189.7

\*Allegion related cash balance of approximately \$173.7 million was reclassified from Cash and cash equivalents to Assets held for spin-off for all reporting periods prior to the spin-off.

See accompanying notes to Consolidated Financial Statements.



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### NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

#### NOTE 1 – DESCRIPTION OF COMPANY

Ingersoll-Rand plc (IR-Ireland), a public limited company incorporated in Ireland in 2009, and its consolidated subsidiaries (collectively, we, our, the Company) is a diversified, global company that provides products, services and solutions to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables, and increase industrial productivity and efficiency. Our business segments consist of Climate and Industrial, each with strong brands and leading positions within their respective markets. We generate revenue and cash primarily through the design, manufacture, sale and service of a diverse portfolio of industrial and commercial products that include well-recognized, premium brand names such as Ingersoll-Rand®, Trane®, American Standard®, Thermo King® and Club Car®.

#### NOTE 2 – SPIN-OFF TRANSACTION

On December 1, 2013 (the Distribution Date), the Company completed the previously announced separation (the spin-off) of its commercial and residential security businesses by distributing the related ordinary shares of Allegion plc (Allegion), on a pro rata basis, to the Company's shareholders of record as of November 22, 2013 (the Record Date). On the Distribution Date, each of the Company's shareholders received one ordinary share of Allegion for every three ordinary shares of the Company held by such shareholder on the Record Date. After the Distribution Date, the Company does not beneficially own any Allegion ordinary shares (other than approximately 7,045 shares received in a deferred compensation trust upon the spin-off as a result of the trust holding ordinary shares of Ingersoll-Rand plc as of the Record Date) and Allegion is an independent publicly traded company.

The results of our commercial and residential security business are presented as a discontinued operation in the Consolidated Statement of Comprehensive Income and Consolidated Statement of Cash Flows for all periods presented. The balance sheet of the commercial and residential security business has been reclassified to held for spin-off at December 31, 2012. The statement of equity of the commercial and residential security business is included within our Consolidated Statement of Equity through December 1, 2013. Except where otherwise noted, all disclosures in the related footnotes represent the results of continuing operations.

In connection with the spin-off of Allegion, the Company and Allegion entered into several agreements covering administrative and tax matters to provide or obtain services on a transitional basis, as needed, for varying periods after the spin-off. The administrative agreements cover various services such as information technology, human resources and finance. The Company expects all services to be substantially complete within one year after the spin-off. For further discussion of the tax matters agreement see Note 15.

During the years ended December 31, 2013 and 2012, the Company incurred \$128.0 million and \$5.7 million of professional service fees related to the spin-off, respectively. These costs are reported within discontinued operations as they represent a cost to execute the spin-off transaction. See Note 16 for further discussion of the spin-off transaction.

#### NOTE 3 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A summary of significant accounting policies used in the preparation of the accompanying Consolidated Financial Statements follows:

**Basis of Presentation:** The accompanying Consolidated Financial Statements reflect the consolidated operations of the Company and have been prepared in accordance with U.S. Generally Accepted Accounting Principles (GAAP) as defined by the Financial Accounting Standards Board (FASB) within the FASB Accounting Standards Codification (ASC).

The Consolidated Financial Statements include all majority-owned subsidiaries of the Company. A noncontrolling interest in a subsidiary is considered an ownership interest in a majority-owned subsidiary that is not attributable to the parent. The Company includes Noncontrolling interest as a component of Total equity in the Consolidated Balance Sheet and the Net earnings attributable to noncontrolling interests are presented as an adjustment from Net earnings used to arrive at Net earnings attributable to Ingersoll-Rand plc in the Consolidated Statement of Comprehensive Income.

Partially-owned equity affiliates represent 20-50% ownership interests in investments where we demonstrate significant influence, but do not have a controlling financial interest. Partially-owned equity affiliates are accounted

for under the equity method. The Company is also required to consolidate variable interest entities in which it bears a majority of the risk to the entities' potential losses or stands to gain from a majority of the entities' expected returns. Intercompany accounts and transactions have been eliminated. The assets, liabilities, results of operations and cash flows of all discontinued operations have been separately reported as discontinued operations and held for spin-off for all periods presented.

During 2012, the company received a \$44.3 million dividend from the equity investment in Hussmann Parent. The receipt of this dividend is classified in investing activities within the Consolidated Statement of Cash Flows due to the cumulative negative equity earnings to date from Hussmann Parent.

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Certain changes in classification of amounts reported in prior years have been made to conform to the 2013 classification.

**Use of Estimates:** The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosures of contingent assets and liabilities at the date of the financial statements as well as the reported amounts of revenues and expenses during the reporting period. Estimates are based on several factors including the facts and circumstances available at the time the estimates are made, historical experience, risk of loss, general economic conditions and trends, and the assessment of the probable future outcome. Some of the more significant estimates include accounting for doubtful accounts, useful lives of property, plant and equipment and intangible assets, purchase price allocations of acquired businesses, valuation of assets including goodwill and other intangible assets, product warranties, sales allowances, pension plans, postretirement benefits other than pensions, taxes, environmental costs, product liability, asbestos matters and other contingencies. Actual results could differ from those estimates. Estimates and assumptions are reviewed periodically, and the effects of changes, if any, are reflected in the statement of operations in the period that they are determined.

**Currency Translation:** Assets and liabilities of non-U.S. subsidiaries, where the functional currency is not the U.S. dollar, have been translated at year-end exchange rates, and income and expense accounts have been translated using average exchange rates throughout the year. Adjustments resulting from the process of translating an entity's financial statements into the U.S. dollar have been recorded in the Equity section of the Consolidated Balance Sheet within Accumulated other comprehensive income (loss). Transactions that are denominated in a currency other than an entity's functional currency are subject to changes in exchange rates with the resulting gains and losses recorded within Net earnings.

**Cash and Cash Equivalents:** Cash and cash equivalents include cash on hand, demand deposits and all highly liquid investments with original maturities at the time of purchase of three months or less.

**Inventories:** Depending on the business, U.S. inventories are stated at the lower of cost or market using the last-in, first-out (LIFO) method or the lower of cost or market using the first-in, first-out (FIFO) method. Non-U.S. inventories are primarily stated at the lower of cost or market using the FIFO method. At December 31, 2013 and 2012, approximately 45% and 55%, respectively, of all inventory utilized the LIFO method.

**Allowance for Doubtful Accounts:** The Company maintains an allowance for doubtful accounts receivable which represents the best estimate of probable loss inherent in the Company's accounts receivable portfolio. This estimate is based upon a two step policy that results in the total recorded allowance for doubtful accounts. The first step is to create a specific reserve for significant accounts as to which the customer's ability to satisfy their financial obligation to the Company is in doubt due to circumstances such as bankruptcy, deteriorating operating results or financial position. In these circumstances, management uses its judgment to record an allowance based on the best estimate of probable loss, factoring in such considerations as the market value of collateral, if applicable. The second step is to record a portfolio reserve based on the aging of the outstanding accounts receivable portfolio and the Company's historical experience with our end markets, customer base and products. Actual results could differ from those estimates. These estimates and assumptions are reviewed periodically, and the effects of changes, if any, are reflected in the Consolidated Statement of Comprehensive Income in the period that they are determined. The Company reserved \$35.4 million and \$24.8 million for doubtful accounts as of December 31, 2013 and 2012, respectively.

**Property, Plant and Equipment:** Property, plant and equipment are stated at cost, less accumulated depreciation. Assets placed in service are recorded at cost and depreciated using the straight-line method over the estimated useful life of the asset except for leasehold improvements, which are depreciated over the shorter of their economic useful life or their lease term. The range of useful lives used to depreciate property, plant and equipment is as follows:

Buildings	10	to	50	years
Machinery and equipment	2	to	12	years
Software	2	to	7	years

Repair and maintenance costs that do not extend the useful life of the asset are charged against earnings as incurred. Major replacements and significant improvements that increase asset values and extend useful lives are capitalized.

The Company assesses the recoverability of the carrying value of its property, plant and equipment whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable. Recoverability is measured by a comparison of the carrying amount of an asset to the future net undiscounted cash flows expected to be generated by the asset. If the undiscounted cash flows are less than the carrying amount of the asset, an impairment loss is recognized for the amount by which the carrying value of the asset exceeds the fair value of the assets.

Goodwill and Intangible Assets: The Company records as goodwill the excess of the purchase price over the fair value of the net assets acquired. Once the final valuation has been performed for each acquisition, adjustments may be recorded.

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In accordance with GAAP, goodwill and other indefinite-lived intangible assets are tested and reviewed annually for impairment during the fourth quarter or whenever there is a significant change in events or circumstances that indicate that the fair value of the asset is more likely than not less than the carrying amount of the asset.

Recoverability of goodwill is measured at the reporting unit level and begins with a qualitative assessment to determine if it is more likely than not that the fair value of each reporting unit is less than its carrying amount as a basis for determining whether it is necessary to perform the two-step goodwill impairment test included in U.S. GAAP. For those reporting units where it is required, the first step compares the carrying amount of the reporting unit to its estimated fair value. If the estimated fair value of a reporting unit exceeds its carrying amount, goodwill of the reporting unit is not impaired and the second step of the impairment test is not necessary. To the extent that the carrying value of the reporting unit exceeds its estimated fair value, a second step is performed, wherein the reporting unit's carrying value of goodwill is compared to the implied fair value of goodwill. To the extent that the carrying value exceeds the implied fair value, impairment exists and must be recognized.

The calculation of estimated fair value is based on two valuation techniques, a discounted cash flow model (income approach) and a market adjusted multiple of earnings and revenues (market approach), with each method being equally weighted in the calculation. The implied fair value of goodwill is determined in the same manner as the amount of goodwill recognized in a business combination. The estimated fair value of the reporting unit is allocated to all of the assets and liabilities of the reporting unit (including any unrecognized intangible assets) as if the reporting unit had been acquired in a business combination and the fair value of the reporting unit, as determined in the first step of the goodwill impairment test, was the price paid to acquire that reporting unit.

Recoverability of other intangible assets with indefinite useful lives (i.e. Tradenames) is first assessed using a qualitative assessment to determine whether it is more likely than not that an indefinite-lived intangible asset is impaired. This assessment is used as a basis for determining whether it is necessary to calculate the fair value of an indefinite-lived intangible asset. For those indefinite-lived assets where it is required, a fair value is determined on a relief from royalty methodology (income approach) which is based on the implied royalty paid, at an appropriate discount rate, to license the use of an asset rather than owning the asset. The present value of the after-tax cost savings (i.e. royalty relief) indicates the estimated fair value of the asset. Any excess of the carrying value over the estimated fair value is recognized as an impairment loss equal to that excess.

Intangible assets such as patents, customer-related intangible assets and other intangible assets with finite useful lives are amortized on a straight-line basis over their estimated economic lives. The weighted-average useful lives approximate the following:

Customer relationships	20	years
Completed technology/patents	10	years
Other	15	years

Recoverability of intangible assets with finite useful lives is assessed in the same manner as property, plant and equipment as described above.

**Income Taxes:** Deferred tax assets and liabilities are determined based on temporary differences between financial reporting and tax bases of assets and liabilities, applying enacted tax rates expected to be in effect for the year in which the differences are expected to reverse. The Company recognizes future tax benefits, such as net operating losses and non-U.S. tax credits, to the extent that realizing these benefits is considered in its judgment to be more likely than not. The Company regularly reviews the recoverability of its deferred tax assets considering its historic profitability, projected future taxable income, timing of the reversals of existing temporary differences and the feasibility of its tax planning strategies. Where appropriate, the Company records a valuation allowance with respect to a future tax benefit.

**Product Warranties:** Standard product warranty accruals are recorded at the time of sale and are estimated based upon product warranty terms and historical experience. The Company assesses the adequacy of its liabilities and will make adjustments as necessary based on known or anticipated warranty claims, or as new information becomes available.

The Company's extended warranty liability represents the deferred revenue associated with its extended warranty contracts and is amortized into Revenue on a straight-line basis over the life of the contract, unless another method is more representative of the costs incurred. The Company assesses the adequacy of its liability by evaluating the

expected costs under its existing contracts to ensure these expected costs do not exceed the extended warranty liability.

**Treasury Stock:** The Company, through one of its consolidated subsidiaries, has repurchased its common shares from time to time as authorized by the Board of Directors. These repurchases are at the discretion of management subject to market conditions, regulatory requirements and other considerations. Amounts are recorded at cost and included within the Equity section of the Consolidated Balance Sheet.

**Revenue Recognition:** Revenue is recognized and earned when all of the following criteria are satisfied: (a) persuasive evidence of a sales arrangement exists; (b) the price is fixed or determinable; (c) collectability is reasonably assured; and (d) delivery has

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occurred or service has been rendered. Delivery generally occurs when the title and the risks and rewards of ownership have substantially transferred to the customer. Both the persuasive evidence of a sales arrangement and fixed or determinable price criteria are deemed to be satisfied upon receipt of an executed and legally binding sales agreement or contract that clearly defines the terms and conditions of the transaction including the respective obligations of the parties. If the defined terms and conditions allow variability in all or a component of the price, revenue is not recognized until such time that the price becomes fixed or determinable. At the point of sale, the Company validates that existence of an enforceable claim that requires payment within a reasonable amount of time and assesses the collectability of that claim. If collectability is not deemed to be reasonably assured, then revenue recognition is deferred until such time that collectability becomes probable or cash is received. Delivery is not considered to have occurred until the customer has taken title and assumed the risks and rewards of ownership. Service and installation revenue are recognized when earned. In some instances, customer acceptance provisions are included in sales arrangements to give the buyer the ability to ensure the delivered product or service meets the criteria established in the order. In these instances, revenue recognition is deferred until the acceptance terms specified in the arrangement are fulfilled through customer acceptance or a demonstration that established criteria have been satisfied. If uncertainty exists about customer acceptance, revenue is not recognized until acceptance has occurred. The Company offers various sales incentive programs to customers, dealers, and distributors. Sales incentive programs do not preclude revenue recognition, but do require an accrual for the Company's best estimate of expected activity. Examples of the sales incentives that are accrued for as a contra receivable and sales deduction at the point of sale include, but are not limited to, discounts (i.e. net 30 type), coupons, and rebates where the customer does not have to provide any additional requirements to receive the discount. Sales returns and customer disputes involving a question of quantity or price are also accounted for as a reduction in revenue and a contra receivable. At December 31, 2013 and 2012, the Company had a customer claim accrual (contra receivable) of \$1.7 million and \$2.1 million, respectively. All other incentives or incentive programs where the customer is required to reach a certain sales level, remain a customer for a certain period of time, provide a rebate form or is subject to additional requirements are accounted for as a reduction of revenue and establishment of a liability. At December 31, 2013 and 2012, the Company had a sales incentive accrual of \$80.1 million and \$62.2 million, respectively. Each of these accruals represents the best estimate the Company expects to pay related to previously sold units. These estimates are reviewed regularly for accuracy. If updated information or actual amounts are different from previous estimates, the revisions are included in the results for the period in which they become known. Historically, the aggregate differences, if any, between our estimates and actual amounts in any year have not had a material impact on the Consolidated Financial Statements.

The Company enters into maintenance and extended warranty contracts with customers. Revenue related to these services is recognized on a straight-line basis over the life of the contract, unless sufficient historical evidence indicates that the cost of providing these services is incurred on an other than straight-line basis. In these circumstances, revenue is recognized over the contract period in proportion to the costs expected to be incurred in performing the service.

The Company, primarily through its Climate segment, provides equipment (e.g. HVAC, controls), integrated solutions, and installation designed to customer specifications through construction-type contracts. The term of these types of contracts is typically less than one year, but can be as long as three years. Revenues related to these contracts are recognized using the percentage-of-completion method in accordance with GAAP. This measure of progress toward completion, utilized to recognize sales and profits, is based on the proportion of actual cost incurred to date as compared to the total estimate of contract costs at completion. The timing of revenue recognition often differs from the invoicing schedule to the customer, with revenue recognition in advance of customer invoicing recorded to unbilled accounts receivable and invoicing in advance of revenue recognition recorded to deferred revenue. At December 31, 2012, all recorded receivables (billed and unbilled) are due within one year. The Company re-evaluates its contract estimates periodically and reflects changes in estimates in the current period using the cumulative catch-up method. These periodic reviews have not historically resulted in significant adjustments. If estimated contract costs are in excess of contract revenues, then the excess costs are accrued.

The Company enters into sales arrangements that contain multiple elements, such as equipment, installation and service revenue. For multiple element arrangements, each element is evaluated to determine the separate units of accounting. The total arrangement consideration is then allocated to the separate units of accounting based on their relative selling price at the inception of the arrangement. The relative selling price is determined using vendor specific objective evidence (VSOE) of selling price, if it exists; otherwise, third-party evidence (TPE) of selling price is used. If neither VSOE nor TPE of selling price exists for a deliverable, a best estimate of the selling price is developed for that deliverable. The Company primarily utilizes VSOE to determine its relative selling price. The Company recognizes revenue for delivered elements when the delivered item has stand-alone value to the customer, the basic revenue recognition criteria have been met, and only customary refund or return rights related to the delivered elements exist.

**Environmental Costs:** The Company is subject to laws and regulations relating to protecting the environment. Environmental expenditures relating to current operations are expensed or capitalized as appropriate. Expenditures relating to existing conditions caused by past operations, which do not contribute to current or future revenues, are expensed. Liabilities for remediation costs are recorded when they are probable and can be reasonably estimated, generally no later than the completion of feasibility studies



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or the Company's commitment to a plan of action. The assessment of this liability, which is calculated based on existing technology, does not reflect any offset for possible recoveries from insurance companies, and is not discounted. Refer to Note 18 for further details of environmental matters.

**Asbestos Matters:** Certain wholly-owned subsidiaries of the Company are named as defendants in asbestos-related lawsuits in state and federal courts. The Company records a liability for its actual and anticipated future claims as well as an asset for anticipated insurance settlements. Asbestos related defense costs are excluded from the asbestos claims liability and are recorded separately as services are incurred. Although the Company was neither a manufacturer nor producer of asbestos, some of its formerly manufactured components from third party suppliers utilized asbestos-related components. As a result, amounts related to asbestos are recorded within Discontinued operations, net of tax, except for amounts related to Trane U.S. Inc. asbestos liabilities, which are recorded in Earnings from continuing operations. Refer to Note 18 for further details of asbestos-related matters.

**Research and Development Costs:** The Company conducts research and development activities for the purpose of developing and improving new products and services. These expenditures are expensed when incurred. For the years ended December 31, 2013, 2012 and 2011, these expenditures amounted to approximately \$218.2 million, \$235.4 million and \$218.4 million, respectively.

**Software Costs:** The Company capitalizes certain qualified internal-use software costs during the application development stage and subsequently amortizes those costs over the software's useful life, which ranges from 2 to 7 years. Refer to Note 5 for further details on software.

**Employee Benefit Plans:** The Company provides a range of benefits, including pensions, postretirement and postemployment benefits to eligible current and former employees. Determining the cost associated with such benefits is dependent on various actuarial assumptions, including discount rates, expected return on plan assets, compensation increases, employee mortality, turnover rates, and healthcare cost trend rates. Actuaries perform the required calculations to determine expense in accordance with GAAP. Actual results may differ from the actuarial assumptions and are generally accumulated into Accumulated other comprehensive income (loss) and amortized into Net earnings over future periods. The Company reviews its actuarial assumptions at each measurement date and makes modifications to the assumptions based on current rates and trends, if appropriate. Refer to Note 10 for further details on employee benefit plans.

**Loss Contingencies:** Liabilities are recorded for various contingencies arising in the normal course of business, including litigation and administrative proceedings, environmental matters, product liability, product warranty, worker's compensation and other claims. The Company has recorded reserves in the financial statements related to these matters, which are developed using input derived from actuarial estimates and historical and anticipated experience data depending on the nature of the reserve, and in certain instances with consultation of legal counsel, internal and external consultants and engineers. Subject to the uncertainties inherent in estimating future costs for these types of liabilities, the Company believes its estimated reserves are reasonable and does not believe the final determination of the liabilities with respect to these matters would have a material effect on the financial condition, results of operations, liquidity or cash flows of the Company for any year. Refer to Note 18 for further details on loss contingencies.

**Derivative Instruments:** The Company periodically enters into cash flow and other derivative transactions to specifically hedge exposure to various risks related to interest rates and currency rates. The Company recognizes all derivatives on the Consolidated Balance Sheet at their fair value as either assets or liabilities. For cash flow designated hedges, the effective portion of the changes in fair value of the derivative contract are recorded in Accumulated other comprehensive income (loss), net of taxes, and are recognized in Net earnings at the time earnings are affected by the hedged transaction. For other derivative transactions, the changes in the fair value of the derivative contract are immediately recognized in Net earnings. Refer to Note 9 for further details on derivative instruments.

### **Recent Accounting Pronouncements**

#### **Recently Adopted Accounting Pronouncements:**

In December 2011, the FASB issued Accounting Standards Update (ASU) 2011-11, "Disclosures about Offsetting Assets and Liabilities." ASU 2011-11 requires enhanced disclosures including both gross and net information about financial and derivative instruments eligible for offset or subject to an enforceable master netting arrangement or

similar agreement. This new guidance is effective for annual reporting periods beginning on or after January 1, 2013 and subsequent interim periods. The requirements of ASU 2011-11 did not have an impact on the Consolidated Financial Statements.

In January 2013, the FASB issued ASU 2013-01, "Clarifying the Scope of Disclosures about Offsetting Assets and Liabilities." ASU 2013-01 clarifies the scope of ASU 2011-11 to apply to derivative instruments that are offset or subject to an enforceable master netting arrangement or similar agreement. This clarified guidance is effective for annual reporting periods beginning on or after January 1, 2013 and subsequent interim periods. The revised requirements of ASU 2013-01 did not have an impact on the Consolidated Financial Statements.

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In February 2013, the FASB issued ASU 2013-02, “Reporting of Amounts Reclassified Out of Accumulated Other Comprehensive Income” (AOCI). ASU 2013-02 requires a rollforward of changes in AOCI by component and information about significant reclassifications from AOCI to Net earnings to be presented in one location, either on the face of the financial statements or in the notes. This new guidance is effective for fiscal years beginning after December 15, 2012 and subsequent interim periods. The requirements of ASU 2013-02 did not have a material impact on the Company's Consolidated Financial Statements. The revised disclosure requirements are reflected in Note 11. In July 2013, the FASB issued ASU 2013-10, “Inclusion of the Fed Funds Effective Swap Rate (or Overnight Index Swap Rate) as a Benchmark Interest Rate for Hedge Accounting Purposes.” ASU 2013-10 allows the Fed Funds Effective Swap Rate (OIS) to be designated as a U.S. benchmark interest rate for hedge accounting purposes, in addition to interest rates on direct Treasury obligations of the U.S. government and the London Interbank Offered Rate. The amendments also remove the restriction on using different benchmark rates for similar hedges. The amendments are effective prospectively for qualifying new or redesignated hedging relationships entered into on or after July 17, 2013. The Company will apply the new guidance, as applicable, to future interest rate hedge relationships.

**Recently Issued Accounting Pronouncements**

In February 2013, the FASB issued ASU 2013-04, “Obligations Resulting from Joint and Several Liability Arrangements for Which the Total Amount of the Obligation Is Fixed at the Reporting Date.” ASU 2013-04 provides guidance for the recognition, measurement, and disclosure of obligations resulting from joint and several liability arrangements where the total obligation is fixed at the reporting date, and for which no specific guidance currently exists. This new guidance is effective for annual reporting periods beginning on or after December 15, 2013 and subsequent interim periods. The Company is currently assessing the impact, if any, on the Consolidated Financial Statements.

In March 2013, the FASB issued ASU 2013-05, “Parent's Accounting for the Cumulative Translation Adjustment upon Derecognition of Certain Subsidiaries or Groups of Assets within a Foreign Entity or of an Investment in a Foreign Entity.” ASU 2013-05 clarifies the application of GAAP to the release of cumulative translation adjustments related to changes of ownership in or within foreign entities, including step acquisitions. This new guidance is effective for annual reporting periods beginning on or after December 15, 2013 and subsequent interim periods.

In July 2013, the FASB issued ASU 2013-11, “Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists.” ASU 2013-11 clarifies guidance and eliminates diversity in practice on the presentation of unrecognized tax benefits when a net operating loss carryforward, a similar tax loss, or a tax credit carryforward exists at the reporting date. This new guidance is effective for annual reporting periods beginning on or after December 15, 2013 and subsequent interim periods. The Company is currently assessing the impact, if any, on the Consolidated Financial Statements.

**NOTE 4 – INVENTORIES**

At December 31, the major classes of inventory were as follows:

In millions	2013	2012
Raw materials	\$378.0	\$423.2
Work-in-process	100.7	87.2
Finished goods	760.2	704.8
	1,238.9	1,215.2
LIFO reserve	(72.8	) (71.2
Total	\$1,166.1	\$1,144.0

Table of Contents**NOTE 5 – PROPERTY, PLANT AND EQUIPMENT**

At December 31, the major classes of property, plant and equipment were as follows:

In millions	2013	2012
Land	\$64.2	\$67.1
Buildings	654.8	582.5
Machinery and equipment	1,612.0	1,544.9
Software	511.3	539.6
	2,842.3	2,734.1
Accumulated depreciation	(1,373.9	) (1,308.0
Total	\$1,468.4	\$1,426.1

Depreciation expense for the years ended December 31, 2013, 2012 and 2011 was \$199.5 million, \$194.5 million and \$202.9 million, which include amounts for software amortization of \$44.3 million, \$48.5 million and \$48.7 million, respectively.

**NOTE 6 – GOODWILL**

The changes in the carrying amount of Goodwill are as follows:

In millions	Climate	Industrial	Total
December 31, 2011 (gross)	\$7,593.2	\$366.8	\$7,960.0
Acquisitions and adjustments *	(3.8	) —	(3.8
Currency translation	30.5	1.9	32.4
December 31, 2012 (gross)	7,619.9	368.7	7,988.6
Acquisitions and adjustments	(1.1	) 1.1	—
Currency translation	44.8	3.2	48.0
December 31, 2013 (gross)	7,663.6	373.0	8,036.6
Accumulated impairment **	(2,496.0	) —	(2,496.0
Goodwill (net)	\$5,167.6	\$373.0	\$5,540.6

\* During 2012, the Company recorded certain purchase accounting adjustments within the Climate sector of \$4.8 million.

\*\* Accumulated impairment relates to a charge of \$2,496.0 million recorded in the fourth quarter of 2008 as a result of the Company's annual impairment testing.

The Company records as goodwill the excess of the purchase price over the fair value of the net assets acquired. Once the final valuation has been performed for each acquisition, adjustments may be recorded.

In accordance with the Company's goodwill impairment testing policy outlined in Note 3, the Company performed its annual impairment test on goodwill in the fourth quarter of each 2013, 2012, and 2011. In each year, the Company determined that the fair values of all identified reporting units exceeded their respective carrying values. Therefore, no impairment charges were recorded during 2013, 2012, and 2011.

The Company performed an interim impairment test on goodwill of its former Security Technologies Europe, Middle East, India, and Africa (EMEIA) reporting unit during the third quarter of 2013. The results of the third quarter 2013 interim impairment test indicated that the estimated fair value of the Security Technologies EMEIA reporting unit was less than its carrying value; consequently, the Company completed the second step of the interim impairment test which resulted in a \$111.4 million non-cash pre-tax goodwill impairment charge. Such charge is recorded within discontinued operations for the year ended December 31, 2013. See Note 16 for further discussion.

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## NOTE 7 – INTANGIBLE ASSETS

The following table sets forth the gross amount and related accumulated amortization of the Company's intangible assets at December 31:

In millions	2013 Gross carrying amount	Accumulated amortization	Net carrying amount	2012 Gross carrying amount	Accumulated amortization	Net carrying amount
Completed technologies/patents	\$174.1	\$(128.7)	) \$45.4	\$179.1	\$(112.7)	) \$66.4
Customer relationships	1,865.9	(599.5)	) 1,266.4	1,863.1	(490.7)	) 1,372.4
Other	60.4	(52.2)	) 8.2	56.2	(46.6)	) 9.6
Total finite-lived intangible assets	2,100.4	\$(780.4)	) 1,320.0	2,098.4	\$(650.0)	) 1,448.4
Trademarks (indefinite-lived)	2,602.0		2,602.0	2,602.0		2,602.0
Total	\$4,702.4		\$3,922.0	\$4,700.4		\$4,050.4

The Company amortizes intangible assets with finite useful lives on a straight-line basis over their estimated economic lives in accordance with GAAP. Indefinite-lived intangible assets are not subject to amortization, but instead, are tested for impairment at least annually (more frequently if certain indicators are present).

Intangible asset amortization expense for 2013, 2012 and 2011 was \$128.9 million, \$129.2 million and \$132.2 million, respectively. Future estimated amortization expense on existing intangible assets in each of the next five years amounts to approximately \$118 million for 2014, \$116 million for 2015, \$101 million for 2016, \$101 million for 2017, and \$100 million for 2018.

In accordance with the Company's indefinite-lived intangible asset impairment testing policy outlined in Note 3, the Company performed its annual impairment test in the fourth quarter of each 2013, 2012 and 2011. In each year, the Company determined the fair value of all indefinite-lived intangible assets to exceed their respective carrying values. Therefore, no impairment charges were recorded during 2013, 2012 and 2011.

## NOTE 8 – DEBT AND CREDIT FACILITIES

At December 31, short-term borrowings and current maturities of long-term debt consisted of the following:

In millions	2013	2012
Debentures with put feature	\$343.0	\$343.0
6.000% Senior notes due 2013	—	600.0
Other current maturities of long-term debt	8.0	10.0
Other short-term borrowings	16.7	9.9
Total	\$367.7	\$962.9

The weighted-average interest rate for total short-term borrowings and current maturities of long-term debt at December 31, 2013 and 2012 was 6.5% and 6.2%, respectively.

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At December 31, long-term debt excluding current maturities consisted of:

In millions	2013	2012
9.500% Senior notes due 2014	—	655.0
5.50% Senior notes due 2015	198.1	196.4
4.75% Senior notes due 2015	299.8	299.7
6.875% Senior notes due 2018	749.5	749.4
2.875% Senior notes due 2019	349.5	—
9.00% Debentures due 2021	125.0	125.0
4.250% Senior notes due 2023	698.8	—
7.20% Debentures due 2014-2025	82.5	90.0
6.48% Debentures due 2025	149.7	149.7
5.750% Senior notes due 2043	498.0	—
Other loans and notes, at end-of-year average interest rates of 3.01% in 2013 and 1.00% in 2012, maturing in various amounts to 2019	2.6	1.3
Total	\$3,153.5	\$2,266.5

At December 31, 2013, long-term debt retirements are as follows:

In millions	
2014	\$351.0
2015	507.2
2016	7.8
2017	7.7
2018	757.2
Thereafter	1,873.6
Total	\$3,504.5

#### Commercial Paper Program

The maximum aggregate amount of unsecured commercial paper notes available to be issued, on a private placement basis, under the commercial paper program is \$2 billion as of December 31, 2013. Under the commercial paper program, Ingersoll-Rand Global Holding Company Limited (IR-Global), may issue notes from time to time, and the proceeds of the financing will be used for general corporate purposes. Each of IR-Ireland, Ingersoll-Rand Company Limited (IR-Limited), and Ingersoll-Rand International Holding Limited (IR-International) has provided an irrevocable and unconditional guarantee for the notes issued under the commercial paper program. The Company had no commercial paper outstanding at December 31, 2013 and December 31, 2012.

#### Debentures with Put Feature

At December 31, 2013 and December 31, 2012, the Company had outstanding \$343.0 million of fixed rate debentures which only require early repayment at the option of the holder. These debentures contain a put feature that the holders may exercise on each anniversary of the issuance date. If exercised, the Company is obligated to repay in whole or in part, at the holder's option, the outstanding principal amount (plus accrued and unpaid interest) of the debentures held by the holder. If these options are not exercised, the final maturity dates would range between 2027 and 2028.

Holders of these debentures had the option to exercise the put feature on \$37.2 million of the outstanding debentures in February 2013, subject to the notice requirement. No exercises were made. Holders of the remaining \$305.8 million in outstanding debentures had the option to exercise the put feature, subject to the notice requirement, in November 2013. No material exercises were made.

#### Senior Notes due 2019, 2023, and 2043

In June 2013, we issued \$1.55 billion principal amount of Senior Notes in three tranches through our wholly-owned subsidiary, IR-Global pursuant to Rule 144A of the Securities Act. The tranches consist of \$350 million of 2.875% Senior Notes due in 2019, \$700 million of 4.250% Senior Notes due in 2023, and \$500 million of 5.750% Senior Notes due in 2043. The notes are fully and unconditionally guaranteed by each of IR-Ireland, Ingersoll-Rand Company Limited (IR-Limited), and Ingersoll-Rand International Holding Limited (IR-International). Interest on the notes will be paid twice a year in arrears. The Company has the option to redeem the notes in whole or in part at any

time, and from time to time, prior to their stated maturity date at redemption prices set forth in the indenture agreement. The notes are subject to certain customary covenants, however, none of these covenants are considered restrictive to the Company's operations. In connection with the issuance of each series of notes, IR-Global, the

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Guarantors and the initial purchasers of the notes entered into a Registration Rights Agreement. Each Registration Rights Agreement requires IR-Global and the Guarantors to use their commercially reasonable efforts to execute an effective exchange offer registration statement with the SEC no later than 365 days after the closing date of the notes offering and to complete an exchange offer within 30 business days of such effective date. If a registration default occurs additional interest shall accrue on the notes. The proceeds from these notes were used to fund the July 2013 redemption of \$600 million of 6.000% Senior Notes due 2013 and \$655 million of 9.500% Senior Notes due 2014 and to fund expenses related to the spin-off of the commercial and residential security businesses, with any remaining proceeds used for general corporate purposes. The July 2013 redemption resulted in \$45.6 million of premium expense, which was recorded in 2013 in Interest expense.

### Other Debt

As of December 31, 2013, the Company has a 4-year, \$1.0 billion revolving credit facility maturing on May 20, 2015 and a 5-year, \$1.0 billion revolving credit facility maturing on March 15, 2017, through its wholly-owned subsidiary, IR-Global.

IR-Ireland, IR-Limited, and IR-International have each provided an irrevocable and unconditional guarantee for these credit facilities. During 2013, the credit facilities were modified to include IR-New Jersey as a guarantor. The total committed revolving credit facilities of \$2.0 billion are unused and provide support for the Company's commercial paper program, as well as other general corporate purposes.

In addition, other available non-U.S. lines of credit were \$907.3 million, of which \$660.0 million was unused at December 31, 2013. These lines provide support for bank guarantees, letters of credit and other general corporate purposes.

### Fair Value of Debt

The carrying value of the Company's short-term borrowings is a reasonable estimate of fair value due to the short-term nature of the instruments. The Company measures the fair value of its long-term debt instruments based upon observable market prices quoted on public exchanges for similar assets. These fair value inputs are considered Level 2 within the fair value hierarchy discussed in Note 10. The methodologies used by the Company to determine the fair value of its long-term debt instruments at December 31, 2013 are the same as those used at December 31, 2012. There have been no transfers between levels of the fair value hierarchy. The fair value of the Company's debt instruments at December 31, 2013 and December 31, 2012 was \$3,803.8 million and \$3,663.1 million, respectively.

### Guarantees

Subsequent to the Company's reorganization as an Irish plc, IR-Ireland and IR-Limited guaranteed fully and unconditionally the outstanding public debt of IR-International, IR-Global and IR-New Jersey. During 2013, IR-Global and IR-International public outstanding indentures were modified to include IR-New Jersey as a co-obligor.

## NOTE 9 – FINANCIAL INSTRUMENTS

In the normal course of business, the Company may use various financial instruments, including derivative instruments, to manage the risks associated with interest rate and currency rate exposures. These financial instruments are not used for trading or speculative purposes.

On the date a derivative contract is entered into, the Company designates the derivative instrument as a cash flow hedge of a forecasted transaction or as an undesignated derivative. The Company formally documents its hedge relationships, including identification of the derivative instruments and the hedged items, as well as its risk management objectives and strategies for undertaking the hedge transaction. This process includes linking derivative instruments that are designated as hedges to specific assets, liabilities or forecasted transactions.

The fair market value of derivative instruments is determined through market-based valuations and may not be representative of the actual gains or losses that will be recorded when these instruments mature due to future fluctuations in the markets in which they are traded.

The Company assesses at inception and at least quarterly thereafter, whether the derivatives used in cash flow hedging transactions are highly effective in offsetting the changes in the cash flows of the hedged item. To the extent the derivative is deemed to be a highly effective hedge, the fair market value changes of the instrument are recorded to Accumulated other comprehensive income (AOCI).



Any ineffective portion of a derivative instrument's change in fair value is recorded in Net earnings in the period of change. If the hedging relationship ceases to be highly effective, or it becomes probable that a forecasted transaction is no longer expected to occur, the hedging relationship will be undesignated and any future gains and losses on the derivative instrument will be recorded in Net earnings.

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## Currency Hedging Instruments

The notional amount of the Company's currency derivatives was \$1,510.0 million and \$1,613.6 million at December 31, 2013 and 2012, respectively. At December 31, 2013 and 2012, a loss of \$3.1 million and \$3.8 million, net of tax, respectively, was included in AOCI related to the fair value of the Company's currency derivatives designated as accounting hedges. The amount expected to be reclassified into Net earnings over the next twelve months is a loss of \$3.1 million. The actual amounts that will be reclassified to Net earnings may vary from this amount as a result of changes in market conditions. Gains and losses associated with the Company's currency derivatives not designated as hedges are recorded in Net earnings as changes in fair value occur. At December 31, 2013, the maximum term of the Company's currency derivatives was approximately 12 months.

## Other Derivative Instruments

In February 2013, the Company entered into forward starting interest rate swaps for \$750.0 million of the forecasted issuance of \$1.2 billion of Senior Notes due in 2023 and 2043. These interest rate swaps met the criteria to be accounted for as cash flow hedges of a forecasted transaction. Consequently, the changes in fair value of the interest rate swaps were recognized in AOCI. No further gain or loss will be recognized in AOCI related to these interest rate swaps as the contracts were terminated upon the June 2013 issuance of the underlying debt. The amount of AOCI associated with these interest rate swaps at the time of termination will be recognized in Interest expense over the term of the notes. At December 31, 2013, \$10.1 million of gains remained in AOCI related to these interest rate swaps. The amount expected to be reclassified into Interest expense over the next twelve months is \$0.7 million.

The Company previously entered into interest rate locks for the forecasted issuance of approximately \$1.7 billion of Senior Notes due in 2013, 2015 and 2018. These interest rate locks met the criteria to be accounted for as cash flow hedges of a forecasted transaction. Consequently, the changes in fair value of the interest rate locks were recognized in AOCI. No further gain or loss will be recognized in AOCI related to these interest rate locks as the contracts were effectively terminated upon issuance of the underlying debt. However, the amount of AOCI associated with these interest rate locks at the time of termination are recognized into Interest expense over the term of the notes. During 2013, the Company repaid \$600 million due under the Senior Notes due in 2013, at which time any amounts remaining in AOCI related to such notes were reclassified into Interest expense. At December 31, 2013 and 2012, \$7.4 million and \$10.3 million, respectively, of losses remained in AOCI related to these interest rate locks. The amount expected to be reclassified into Interest expense over the next twelve months is \$2.5 million.

The Company measures the fair value of its derivative instruments on a recurring basis based on a pricing model that uses spot rates and forward prices from actively quoted currency markets that are readily accessible and observable. These fair value inputs are considered Level 2 within the fair value hierarchy discussed in Note 10. The methodologies used by the Company to determine the fair value of its derivative instruments at December 31, 2013 are the same as those used at December 31, 2012. There have been no transfers between levels of the fair value hierarchy.

The fair values of derivative instruments included within the Consolidated Balance Sheet as of December 31 were as follows:

In millions	Asset derivatives		Liability derivatives	
	2013	2012	2013	2012
Derivatives designated as hedges:				
Currency derivatives	\$0.1	\$—	\$3.4	\$4.3
Derivatives not designated as hedges:				
Currency derivatives	3.1	4.6	13.6	7.1
Total derivatives	\$3.2	\$4.6	\$17.0	\$11.4

Asset and liability derivatives included in the table above are recorded within Other current assets and Accrued expenses and other current liabilities, respectively.

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The amounts associated with derivatives designated as hedges affecting Net earnings and AOCI for the years ended December 31 were as follows:

In millions	Amount of gain (loss) recognized in AOCI			Location of gain (loss) reclassified from AOCI and recognized into Net earnings	Amount of gain (loss) reclassified from AOCI and recognized into Net earnings		
	2013	2012	2011		2013	2012	2011
Currency derivatives - continuing	\$(9.8 )	\$(6.1 )	\$2.1	Cost of goods sold	\$(10.8 )	\$0.4	\$1.4
Currency derivatives - discontinued	2.0	(1.1 )	0.3	Discontinued operations	1.1	(0.2 )	(1.3 )
Interest rate swaps	10.5	—	—	Interest expense	0.4	—	—
Interest rate locks	—	—	—	Interest expense	(2.8 )	(3.0 )	(2.9 )
Total	\$2.7	\$(7.2 )	\$2.4		\$(12.1 )	\$(2.8 )	\$(2.8 )

The amounts associated with derivatives not designated as hedges affecting Net earnings for the years ended December 31 were as follows:

In millions	Location of gain (loss) recognized in Net earnings	Amount of gain (loss) recognized in Net earnings		
		2013	2012	2011
Currency derivatives	Other, net	\$(42.2 )	\$28.5	\$(7.4 )
Total		\$(42.2 )	\$28.5	\$(7.4 )

The gains and losses associated with the Company's undesignated currency derivatives are materially offset in Net earnings by changes in the fair value of the underlying transactions.

**Concentration of Credit Risk**

The counterparties to the Company's forward contracts consist of a number of investment grade major international financial institutions. The Company could be exposed to losses in the event of nonperformance by the counterparties. However, the credit ratings and the concentration of risk in these financial institutions are monitored on a continuous basis and present no significant credit risk to the Company.

**Fair Value of Other Financial Instruments**

The carrying value of cash and cash equivalents, accounts receivable and accounts payable are a reasonable estimate of their fair value due to the short-term nature of these instruments. See Note 8 for a discussion of the fair value measurement of the Company's debt instruments and Note 10 for a discussion of the fair value measurement of the Company's pension assets and liabilities.

**NOTE 10 – PENSIONS AND POSTRETIREMENT BENEFITS OTHER THAN PENSIONS**

The Company sponsors several U.S. defined benefit and defined contribution plans covering substantially all of our U.S. employees. Additionally, the Company has many non-U.S. defined benefit and defined contribution plans covering eligible non-U.S. employees. Postretirement benefits, other than pensions, provide healthcare benefits, and in some instances, life insurance benefits for certain eligible employees.

**Pension Plans**

The noncontributory defined benefit pension plans covering non-collectively bargained U.S. employees provide benefits on a final average pay formula while plans for most collectively bargained U.S. employees provide benefits on a flat dollar benefit formula or a percentage of pay formula. The non-U.S. pension plans generally provide benefits based on earnings and years of service. The Company also maintains additional other supplemental plans for officers and other key or highly compensated employees.

In connection with the 2013 spin-off, the Company transferred its obligations for pension benefits for all current and former employees of the commercial and residential security businesses to Allegion. The transfer of these obligations reduced our pension liabilities by \$631.1 million, pension assets by \$543.5 million, and accumulated other comprehensive losses by \$164.8 million.



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On June 8, 2012, the Board of Directors approved amendments to the Company's retirement plans for certain U.S. and Puerto Rico non-bargained employees. Eligible non-bargained employees hired prior to July 1, 2012 were given a choice of remaining in their respective defined benefit plan until the plan freezes on December 31, 2022 or freezing their accrued benefits in their respective defined benefit plan as of December 31, 2012 and receiving an additional 2% non-matching Company contribution into the Company's applicable defined contribution plan. Eligible employees hired or rehired on or after July 1, 2012 will automatically receive the 2% non-matching Company contribution into the applicable defined contribution plan in lieu of participating in the defined benefit plan. Beginning January 1, 2023, all eligible employees will receive the 2% non-matching contribution into the applicable defined contribution plan. As a result of these changes, the Company's projected benefit obligations for the amended plans were remeasured as of June 8, 2012, which included updating the discount rate assumption to 4.00% from the 4.25% assumed at December 31, 2011. The amendments resulted in a 2012 curtailment loss of \$4.0 million. The amendment and remeasurement resulted in an increase of \$1.0 million to the projected benefit obligation, an increase of \$29.4 million to the plan assets, an actuarial gain of \$28.4 million and a credit of \$4.0 million to prior service cost during 2012. The following table details information regarding the Company's pension plans at December 31:

In millions	2013	2012
Change in benefit obligations:		
Benefit obligation at beginning of year	\$4,228.6	\$3,841.1
Service cost	88.5	96.8
Interest cost	156.9	163.6
Employee contributions	1.5	1.5
Amendments	1.2	3.4
Actuarial (gains) losses	(314.4	) 374.3
Benefits paid	(211.6	) (217.2
Currency translation	19.5	37.4
Curtailments and settlements	(3.7	) (63.4
Impact of spin-off	(631.1	) —
Other, including expenses paid	(2.2	) (8.9
Benefit obligation at end of year	\$3,333.2	\$4,228.6
Change in plan assets:		
Fair value at beginning of year	\$3,310.2	\$3,100.4
Actual return on assets	98.9	320.5
Company contributions	109.7	89.1
Employee contributions	1.5	1.5
Benefits paid	(211.6	) (217.2
Currency translation	17.7	31.0
Settlements	(1.6	) (5.6
Impact of spin-off	(543.5	) —
Other, including expenses paid	(2.1	) (9.5
Fair value of assets end of year	\$2,779.2	\$3,310.2
Funded status:		
Plan assets less than the benefit obligations	\$(554.0	) \$(918.4
Amounts included in the balance sheet:		
Other noncurrent assets	\$4.3	\$5.1
Accrued compensation and benefits	(30.8	) (9.0
Postemployment and other benefit liabilities	(527.5	) (799.6
Liabilities held for spin-off	—	(114.9
Net amount recognized	\$(554.0	) \$(918.4

It is the Company's objective to contribute to the pension plans to ensure adequate funds, and no less than required by law, are available in the plans to make benefit payments to plan participants and beneficiaries when required.

However, certain plans are

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not or cannot be funded due to either legal, accounting, or tax requirements in certain jurisdictions. As of December 31, 2013, approximately six percent of our projected benefit obligation relates to plans that cannot be funded.

The pretax amounts recognized in Accumulated other comprehensive income (loss) were as follows:

In millions	Prior service cost	Net actuarial losses	Total
December 31, 2012	\$(23.5	) \$(1,318.9	) \$(1,342.4 )
Current year changes recorded to Accumulated other comprehensive income (loss)	(1.2	) 249.0	247.8
Amortization reclassified to earnings	4.7	63.0	67.7
Settlements/curtailments reclassified to earnings	—	0.7	0.7
Impact of spin-off	2.3	162.5	164.8
Currency translation and other	—	(5.4	) (5.4 )
December 31, 2013	\$(17.7	) \$(849.1	) \$(866.8 )
Weighted-average assumptions used:			
Benefit obligations at December 31,		2013	2012
Discount rate:			
U.S. plans		4.75	% 3.75 %
Non-U.S. plans		4.25	% 4.25 %
Rate of compensation increase:			
U.S. plans		4.00	% 4.00 %
Non-U.S. plans		4.25	% 4.00 %

The accumulated benefit obligation for all defined benefit pension plans was \$3,194.8 million and \$4,032.2 million at December 31, 2013 and 2012, respectively. The projected benefit obligation, accumulated benefit obligation, and fair value of plan assets for pension plans with accumulated benefit obligations more than plan assets were \$3,291.3 million, \$3,159.3 million and \$2,735.5 million, respectively, as of December 31, 2013, and \$4,182.8 million, \$3,994.0 million and \$3,263.9 million, respectively, as of December 31, 2012.

Pension benefit payments are expected to be paid as follows:

In millions	
2014	\$219.3
2014	201.0
2016	199.0
2017	205.2
2018	214.6
2019 — 2023	1,142.9

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The components of the Company's net periodic pension benefit costs for the years ended December 31 include the following:

In millions	2013	2012	2011
Service cost	\$88.5	\$96.8	\$93.5
Interest cost	156.9	163.6	185.5
Expected return on plan assets	(166.3	) (173.6	) (219.6
Net amortization of:			
Prior service costs	4.7	5.1	5.6
Transition amount	—	—	—
Plan net actuarial losses	63.0	60.6	51.1
Net periodic pension benefit cost	146.8	152.5	116.1
Net curtailment and settlement (gains) losses	0.7	4.9	62.5
Net periodic pension benefit cost after net curtailment and settlement (gains) losses	\$147.5	\$157.4	\$178.6
Amounts recorded in continuing operations	\$119.2	\$125.5	\$160.8
Amounts recorded in discontinued operations	28.3	31.9	17.8
Total	\$147.5	\$157.4	\$178.6

The curtailment and settlement losses in 2012 are associated with the recent amendments to the pension plans and lump sum distributions under the supplemental benefit plans for officers and other key employees. The curtailment and settlement losses in 2011 are associated with the divestiture of Hussmann and lump sum distributions under supplemental benefit plans for officers and other key employees.

Pension expense for 2014 is projected to be approximately \$105.2 million, utilizing the assumptions for calculating the pension benefit obligations at the end of 2013. The amounts expected to be recognized in net periodic pension cost during the year ended 2014 for prior service cost and plan net actuarial losses are \$4.1 million and \$35.9 million, respectively.

Weighted-average assumptions used:

Net periodic pension cost for the year ended December 31,	2013	2012	2011
Discount rate:			
U.S. plans			
For the period January 1 to June 7	3.75	% 4.25	% 5.00
For the period June 8 to November 30	3.75	% 4.00	% 5.00
For the period December 1 to December 31	4.50	% 4.00	% 5.00
Non-U.S. plans	4.25	% 5.00	% 5.50
Rate of compensation increase:			
U.S. plans	4.00	% 4.00	% 4.00
Non-U.S. plans	4.00	% 4.00	% 4.50
Expected return on plan assets:			
U.S. plans	5.25	% 5.75	% 7.25
Non-U.S. plans	5.00	% 5.75	% 6.25

The expected long-term rate of return on plan assets reflects the average rate of returns expected on the funds invested or to be invested to provide for the benefits included in the projected benefit obligation. The expected long-term rate of return on plan assets is based on what is achievable given the plan's investment policy, the types of assets held and target asset allocations. The expected long-term rate of return is determined as of the measurement date. The Company reviews each plan and its historical returns and target asset allocations to determine the appropriate expected long-term rate of return on plan assets to be used.

The Company's objective in managing its defined benefit plan assets is to ensure that all present and future benefit obligations are met as they come due. It seeks to achieve this goal while trying to mitigate volatility in plan funded status, contribution, and expense by better matching the characteristics of the plan assets to that of the plan liabilities. The Company utilizes a dynamic approach to asset allocation whereby a plan's allocation to fixed income assets



increases as the plan's funded status improves. The Company monitors plan funded status and asset allocation regularly in addition to investment manager performance.

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Fair Value Measurements

Fair value is defined as the exchange price that would be received to sell an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Fair value measurements are based on a framework that utilizes the inputs market participants use to determine the fair value of an asset or liability and establishes a fair value hierarchy to prioritize those inputs. The fair value hierarchy is comprised of three levels that are described below:

Level 1 - Inputs based on quoted prices in active markets for identical assets or liabilities.

Level 2 - Inputs other than Level 1 quoted prices, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the asset or liability.

Level 3 - Unobservable inputs based on little or no market activity and that are significant to the fair value of the assets and liabilities.

The fair value hierarchy requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Observable inputs are obtained from independent sources and can be validated by a third party, whereas unobservable inputs reflect assumptions regarding what a third party would use in pricing an asset or liability based on the best information available under the circumstances. A financial instrument's categorization within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement.

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The fair values of the Company's pension plan assets at December 31, 2013 by asset category are as follows:

In millions	Fair value measurements			Total fair value
	Level 1	Level 2	Level 3	
Cash and cash equivalents	\$4.1	\$37.9	\$—	\$42.0
Equity investments:				
Registered mutual funds – equity specialty <sup>(a)</sup>	6.0	—	—	6.0
Commingled funds – equity specialty <sup>(a)</sup>	—	826.8	—	826.8
	6.0	826.8	—	832.8
Fixed income investments:				
U.S. government and agency obligations	—	702.9	—	702.9
Corporate and non-U.S. bonds <sup>(b)</sup>	—	748.4	—	748.4
Asset-backed and mortgage-backed securities	—	59.4	—	59.4
Registered mutual funds – fixed income specialty <sup>(c)</sup>	32.3	—	—	32.3
Commingled funds – fixed income specialty <sup>(c)</sup>	—	268.5	—	268.5
Other fixed income <sup>(d)</sup>	—	—	22.6	22.6
	32.3	1,779.2	22.6	1,834.1
Derivatives	—	—	—	—
Real estate <sup>(e)</sup>	—	—	19.3	19.3
Other <sup>(f)</sup>	—	—	58.1	58.1
Total assets at fair value	\$42.4	\$2,643.9	\$100.0	\$2,786.3
Receivables and payables, net <sup>(g)</sup>				(7.1 )
Net assets available for benefits				\$2,779.2

(a) This class comprises commingled and registered mutual funds that focus on equity investments. It includes both indexed and actively managed funds.

(b) This class includes state and municipal bonds.

(c) This class comprises commingled and registered mutual funds that focus on fixed income securities.

(d) This class includes group annuity and guaranteed interest contracts.

(e) This class includes private equity funds that invest in real estate, including funds of funds.

(f) This investment comprises the Company's non-significant, non-U.S. pension plan assets. It mostly includes insurance contracts.

(g) Includes an estimated \$20.0 million payable to Allegion in accordance with the terms of the Employee Matters Agreement.

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The fair values of the Company's pension plan assets at December 31, 2012 by asset category are as follows:

In millions	Fair value measurements			Total fair value
	Level 1	Level 2	Level 3	
Cash and cash equivalents	\$5.8	\$25.5	\$—	\$31.3
Equity investments:				
Registered mutual funds – equity specialty <sup>(a)</sup>	5.9	—	—	5.9
Commingled funds – equity specialty <sup>(a)</sup>	—	935.2	—	935.2
	5.9	935.2	—	941.1
Fixed income investments:				
U.S. government and agency obligations	—	817.0	—	817.0
Corporate and non-U.S. bonds <sup>(b)</sup>	—	890.2	—	890.2
Asset-backed and mortgage-backed securities	—	53.0	—	53.0
Registered mutual funds – fixed income specialty <sup>(c)</sup>	33.8	—	—	33.8
Commingled funds – fixed income specialty <sup>(c)</sup>	—	439.1	—	439.1
Other fixed income <sup>(d)</sup>	—	—	21.9	21.9
	33.8	2,199.3	21.9	2,255.0
Derivatives	—	(0.1	) —	(0.1
Real estate <sup>(e)</sup>	—	—	29.2	29.2
Other <sup>(f)</sup>	—	—	54.4	54.4
Total assets at fair value	\$45.5	\$3,159.9	\$105.5	\$3,310.9
Receivables and payables, net				(0.7
Net assets available for benefits				\$3,310.2

(a) This class comprises commingled and registered mutual funds that focus on equity investments. It includes both indexed and actively managed funds.

(b) This class includes state and municipal bonds.

(c) This class comprises commingled and registered mutual funds that focus on fixed income securities.

(d) This class includes group annuity and guaranteed interest contracts.

(e) This class includes private equity funds that invest in real estate. It includes both direct investment funds and funds-of-funds.

(f) This investment comprises the Company's non-significant, non-U.S. pension plan assets. It mostly includes insurance contracts.

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Cash equivalents are valued using a market approach with inputs including quoted market prices for either identical or similar instruments. Fixed income securities are valued through a market approach with inputs including, but not limited to, benchmark yields, reported trades, broker quotes and issuer spreads. Commingled funds are valued at their daily net asset value (NAV) per share or the equivalent. NAV per share or the equivalent is used for fair value purposes as a practical expedient. NAVs are calculated by the investment manager or sponsor of the fund. Private real estate fund values are reported by the fund manager and are based on valuation or appraisal of the underlying investments.

The methodologies used by the Company to determine the fair value of its financial assets and liabilities at December 31, 2013 are the same as those used at December 31, 2012. There have been no significant transfers between levels of the fair value hierarchy.

The Company made required and discretionary contributions to its pension plans of \$109.7 million in 2013, \$89.1 million in 2012, and \$57.3 million in 2011. The Company currently projects that it will contribute approximately \$154.1 million to its plans worldwide in 2014. The Company's policy allows it to fund an amount, which could be in excess of or less than the pension cost expensed, subject to the limitations imposed by current tax regulations. The Company anticipates funding the plans in 2014 in accordance with contributions required by funding regulations or the laws of each jurisdiction.

Most of the Company's U.S. employees are covered by defined contribution plans. Employer contributions are determined based on criteria specific to the individual plans and amounted to approximately \$89.0 million, \$76.8 million, and \$79.2 million in 2013, 2012 and 2011, respectively. The Company's contributions relating to non-U.S. defined contribution plans and other non-U.S. benefit plans were \$33.8 million, \$27.1 million and \$28.8 million in 2013, 2012 and 2011, respectively.

#### Multiemployer Pension Plans

The Company also participates in a number of multiemployer defined benefit pension plans related to collectively bargained U.S. employees of Trane. The Company's contributions, and the administration of the fixed retirement payments, are determined by the terms of the related collective-bargaining agreements. These multiemployer plans pose different risks to the Company than single-employer plans, including:

1. The Company's contributions to multiemployer plans may be used to provide benefits to all participating employees of the program, including employees of other employers.
2. In the event that another participating employer ceases contributions to a plan, the Company may be responsible for any unfunded obligations along with the remaining participating employers.
3. If the Company chooses to withdraw from any of the multiemployer plans, the Company may be required to pay a withdrawal liability, based on the underfunded status of the plan.

As of December 31, 2013, the Company does not contribute to any plans which are individually significant, nor is the Company an individually significant contributor to any of these plans. Total contributions to multiemployer plans, excluding Hussmann, for the years ended December 31 were as follows:

In millions	2013	2012	2011
Total contributions	\$5.4	\$5.4	\$5.2

Contributions to these plans may increase in the event that any of these plans are underfunded.

During 2011, the Company divested the Hussmann Business and Branches which participated in various multiemployer pension plans. For the year ended December 31, 2011, the Company contributed approximately \$6.4 million to such plans. These contributions will not occur in future periods.

#### Postretirement Benefits Other Than Pensions

The Company sponsors several postretirement plans that provide for healthcare benefits, and in some instances, life insurance benefits that cover certain eligible employees. These plans are unfunded and have no plan assets, but are instead funded by the Company on a pay-as-you-go basis in the form of direct benefit payments. Generally, postretirement health benefits are contributory with contributions adjusted annually. Life insurance plans for retirees are primarily noncontributory.

In connection with the 2013 spin-off, the Company transferred its obligations for post retirement benefits other than pension for all current and former employees of the commercial and residential security businesses to Allegion. The

transfer of these obligations reduced our post retirement plan liabilities by \$14.1 million, and increased our accumulated other comprehensive income by \$5.6 million.

The Board of Directors approved amendments on February 1, 2012 to its postretirement medical plan with respect to post-65 retiree medical coverage. Effective January 1, 2013, the Company discontinued offering company-sponsored retiree medical coverage for certain individuals age 65 and older. The Company transitioned affected individuals to coverage through the individual Medicare market and will provide a tax-advantaged subsidy to those retirees eligible for subsidized company coverage that can

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be used toward reimbursing premiums and other qualified medical expenses for individual Medicare supplemental coverage that is purchased through our third-party Medicare coordinator.

As a result of these changes, the Company's projected benefit obligations were remeasured as of February 1, 2012, which included updating the discount rate assumption to 3.75% from the 4.00% assumed at December 31, 2011. The remeasurement resulted in a decrease of \$40.5 million to the projected benefit obligation, an actuarial loss of \$21.3 million and a credit of \$61.8 million to prior service cost.

The following table details information regarding the Company's postretirement plans at December 31:

In millions	2013	2012
Change in benefit obligations:		
Benefit obligation at beginning of year	\$851.4	\$919.9
Service cost	6.6	7.3
Interest cost	26.0	30.8
Plan participants' contributions	11.2	19.1
Actuarial (gains) losses	(109.8	) 15.4
Benefits paid, net of Medicare Part D subsidy *	(56.4	) (78.8
Settlements/curtailments	—	—
Amendments	—	(62.3
Impact of spin-off	(14.1	) —
Other	(1.6	) —
Benefit obligations at end of year	\$713.3	\$851.4
* Amounts are net of Medicare Part D subsidy of \$12.8 million and \$0.7 million in 2013 and 2012, respectively		
Funded status:		
Plan assets less than benefit obligations	\$(713.3	) \$(851.4
Amounts included in the balance sheet:		
Accrued compensation and benefits	\$(65.2	) \$(67.2
Postemployment and other benefit liabilities	(648.1	) (766.2
Liabilities held for spin-off	—	(18.0
Total	\$(713.3	) \$(851.4

The pretax amounts recognized in Accumulated other comprehensive income (loss) were as follows:

In millions	Prior service gains	Net actuarial losses	Total
Balance at December 31, 2012	\$56.9	\$(180.3	) \$(123.4
Current year changes recorded to Accumulated other comprehensive income (loss)	—	109.9	109.9
Amortization reclassified to earnings	(10.3	) 6.5	(3.8
Impact of spin-off	(7.2	) 1.6	(5.6
Balance at December 31, 2013	\$39.4	\$(62.3	) \$(22.9

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The components of net periodic postretirement benefit (income) cost for the years ended December 31 were as follows:

In millions	2013	2012	2011
Service cost	\$6.6	\$7.3	\$8.4
Interest cost	26.0	30.8	42.0
Net amortization of:			
Prior service gains	(10.3	) (10.3	) (3.5
Net actuarial losses	6.5	7.3	1.6
Net periodic postretirement benefit cost	28.8	35.1	48.5
Net curtailment and settlement (gains) losses	—	—	(10.1
Net periodic postretirement benefit (income) cost after net curtailment and settlement (gains) losses	\$28.8	\$35.1	\$38.4
Amounts recorded in continuing operations	\$19.8	\$22.2	\$18.7
Amounts recorded in discontinued operations	9.0	12.9	19.7
Total	\$28.8	\$35.1	\$38.4

The curtailment and settlement gains in 2011 are associated with the divestiture of Hussmann. Postretirement cost for 2014 is projected to be \$25.8 million. The amount expected to be recognized in net periodic postretirement benefits cost in 2014 for prior service gains is \$8.9 million.

Assumptions:	2013	2012	2011
Weighted-average discount rate assumption to determine:			
Benefit obligations at December 31	4.25	% 3.25	% 4.00
Net periodic benefit cost			
For the period January 1 to January 31	3.25	% 4.00	% 5.00
For the period February 1 to November 30	3.25	% 3.75	% 5.00
For the period November 30 to December 31	4.00	% 3.75	% 5.00
Assumed health-care cost trend rates at December 31:			
Current year medical inflation	7.65	% 8.05	% 8.45
Ultimate inflation rate	5.00	% 5.00	% 5.00
Year that the rate reaches the ultimate trend rate	2021	2021	2021

A 1% change in the medical trend rate assumed for postretirement benefits would have the following effects at December 31, 2013:

In millions	1% Increase	1% Decrease
Effect on total of service and interest cost components	\$1.2	\$(1.0)
Effect on postretirement benefit obligation	27.9	(24.5)

Benefit payments for postretirement benefits, which are net of expected plan participant contributions and Medicare Part D subsidy, are expected to be paid as follows:

In millions	
2014	\$66.6
2015	66.7
2016	64.7
2017	62.4
2018	59.8
2019 — 2023	264.3



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## NOTE 11 – EQUITY

## Ordinary Shares

At December 31, 2013, a reconciliation of ordinary shares is as follows:

In millions	Total
December 31, 2012	295.6
Shares issued under incentive plans	7.9
Repurchase of ordinary shares	(20.8 )
December 31, 2013	282.7

In December 2012, the Board of Directors authorized the repurchase of up to \$2.0 billion of the Company's ordinary shares under a share repurchase program. During 2013, the Company repurchased 20.8 million shares for approximately \$1.2 billion, excluding commissions. These repurchases were accounted for as a reduction of Ordinary shares and Capital in excess of par value as they were canceled upon repurchase.

In December 2012, the Company declared a dividend of \$0.21 per ordinary share payable on March 28, 2013 to shareholders of record on March 12, 2013. This represents a non-cash financing activity and has been excluded from the 2012 Consolidated Statement of Cash Flows. The cash impact of the dividend will be reflected in the 2013 Consolidated Statement of Cash Flows in 2013 as the dividend was paid in 2013.

The authorized share capital of IR-Ireland is 1,185,040,000 shares, consisting of (1) 1,175,000,000 ordinary shares, par value \$1.00 per share, (2) 40,000 ordinary shares, par value EUR 1.00 and (3) 10,000,000 preference shares, par value \$0.001 per share. No preference shares were outstanding at December 31, 2013 or 2012.

## Other Comprehensive Income (Loss)

The changes in Accumulated other comprehensive income (loss) are as follows:

In millions	Cash flow hedges and marketable securities	Pension and OPEB Items	Foreign Currency Items	Total
December 31, 2011	\$ (4.5 )	\$ (897.1 )	\$ 348.0	\$ (553.6 )
Other comprehensive income (loss), net of tax	3.1	(67.1 )	96.6	32.6
December 31, 2012	\$ (1.4 )	\$ (964.2 )	\$ 444.6	\$ (521.0 )
Other comprehensive income (loss), net of tax	19.7	263.3	11.7	294.7
Impact of spin-off and other activities	\$ (17.9 )	\$ 138.1	\$ (60.6 )	\$ 59.6
December 31, 2013	\$ 0.4	\$ (562.8 )	\$ 395.7	\$ (166.7 )

The amounts of Other comprehensive income (loss) attributable to noncontrolling interests are as follows:

In millions	2013	2012	2011
Pension and OPEB items	\$—	\$ (1.3 )	\$ (0.6 )
Foreign currency items	3.3	(11.1 )	—
Total other comprehensive income (loss) attributable to noncontrolling interests	\$3.3	\$ (12.4 )	\$ (0.6 )

During 2012, the Company reclassified a \$11.5 million currency translation loss to Noncontrolling interests from IR-Ireland shareholders' equity related to activity from prior to 2012. This reclassification corrects the allocation of currency translation gains (losses) between the Equity components. The Company does not believe this reclassification adjustment is material to 2012 or to any of its previously issued annual or interim financial statements.

Table of Contents**NOTE 12 – SHARE-BASED COMPENSATION**

The Company records share-based compensation awards using a fair value method and recognizes compensation expense for an amount equal to the fair value of the share-based payment issued in its financial statements. The Company's share-based compensation plans include programs for stock options, stock appreciation rights (SARs), restricted stock units (RSUs), performance share units (PSUs), and deferred compensation.

In connection with the spin-off of the commercial and residential security businesses, the provisions of our existing compensation plans required adjustments to the number and terms of outstanding employee stock options, SARs, RSUs and PSUs to preserve the intrinsic value of the awards immediately before and after the spin-off. The outstanding awards will continue to vest over the original vesting period, which is generally three years from the grant date.

The stock awards held as of December 1, 2013 were adjusted as follows:

**Stock options and SARs:** Holders of Ingersoll Rand vested stock option and SARs awards received one stock option of Allegion for every three Ingersoll Rand vested and exercisable stock options held. The exercise price for each award was also adjusted to preserve the overall intrinsic value of the awards. Unvested stock options held at the time of the spin-off were converted into stock options of the holder's employer following the spin-off, with the number of underlying shares and the exercise price adjusted accordingly to preserve the overall intrinsic value of the awards.

**Restricted stock units:** Ingersoll Rand restricted stock units were converted into restricted stock units of the holder's employer following the spin-off with adjustments to the number of underlying shares as appropriate to preserve the intrinsic value of such awards immediately prior to the spin-off.

**Performance share units:** Participants with active and outstanding performance share units had the number of units held adjusted for the change in Ingersoll Rand stock price before and after the spin-off. A corresponding adjustment was made to the calculation of earnings per share and total shareholder return to appropriately reflect the spin-off.

Under the Company's incentive stock plan, the total number of ordinary shares authorized by the shareholders is 20.0 million, of which 19.5 million remains available as of December 31, 2013 for future incentive awards.

**Compensation Expense**

Share-based compensation expense related to continuing operations is included in Selling and administrative expenses. The following table summarizes the expenses recognized:

In millions	2013	2012	2011
Stock options	\$23.0	\$5.7	\$22.3
RSUs	29.9	22.0	21.1
PSUs	20.2	22.5	(0.5)
Deferred compensation	1.9	0.1	1.1
Other	2.9	2.3	(0.9)
Pre-tax expense	77.9	52.6	43.1
Tax benefit	29.8	20.1	16.5
After-tax expense	\$48.1	\$32.5	\$26.6
Amounts recorded in continuing operations	\$43.4	\$28.6	\$24.0
Amounts recorded in discontinued operations	4.7	3.9	2.6
Total	\$48.1	\$32.5	\$26.6

During 2012, the Company recorded a correcting adjustment resulting in the reversal of \$13.5 million (\$8.3 million after tax) of previously charged compensation expense related to the accounting for stock option forfeitures. The Company does not believe the correcting adjustment is material to 2012 or to any of its previously issued annual or interim financial statements.

**Stock Options / RSUs**

Eligible participants may receive (i) stock options, (ii) RSUs or (iii) a combination of both stock options and RSUs.

The fair value of each of the Company's stock option and RSU awards is expensed on a straight-line basis over the required service period, which is generally the 3-year vesting period. However, for stock options and RSUs granted to retirement eligible employees, the Company recognizes expense for the fair value at the grant date.



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The average fair value of the stock options granted for the year ended December 31, 2013 and 2012 was estimated to be \$16.55 per share and \$13.67 per share, respectively, using the Black-Scholes option-pricing model. The following assumptions were used:

	2013	2012	
Dividend yield	1.60	% 1.33	%
Volatility	42.15	% 43.60	%
Risk-free rate of return	0.85	% 0.92	%
Expected life	5.1	5.1	

Expected volatility is based on the historical volatility from traded options on the Company's stock. The risk-free rate of return is based on the yield curve of a zero-coupon U.S. Treasury bond on the date the award is granted with a maturity equal to the expected term of the award. Historical data is used to estimate forfeitures within the Company's valuation model. The expected life of the Company's stock option awards is derived from historical experience and represents the period of time that awards are expected to be outstanding.

For stock options granted prior to the spin-off, the weighted-average exercise prices in the table below reflect the historical exercise prices. Changes in options outstanding under the plans for the years 2013, 2012 and 2011 are as follows:

	Shares subject to option	Weighted- average exercise price	Aggregate intrinsic value (millions)	Weighted- average remaining life
December 31, 2010	21,706,228	\$32.30		
Granted	1,834,564	44.99		
Exercised	(4,275,088)	) 30.00		
Cancelled	(650,428)	) 35.36		
December 31, 2011	18,615,276	33.97		
Granted	1,463,352	40.67		
Exercised	(5,578,783)	) 28.87		
Cancelled	(408,883)	) 41.30		
December 31, 2012	14,090,962	36.47		
Granted	1,341,602	52.71		
Exercised	(6,994,024)	) 35.33		
Cancelled	(110,496)	) 44.57		
Impact of spin-off	371,984	*****		
Outstanding December 31, 2013	8,700,028	\$31.87	\$258.7	5.6
Exercisable December 31, 2013	5,695,290	\$29.71	\$184.5	4.2

The following table summarizes information concerning currently outstanding and exercisable options as adjusted for the spin-off as discussed above:

			Options outstanding			Options exercisable		
Range of exercise price			Number outstanding at December 31, 2013	Weighted- average remaining life	Weighted- average exercise price	Number outstanding at December 31, 2013	Weighted- average remaining life	Weighted- average exercise price
10.01	—	20.00	850,559	3.5	14.81	850,559	3.5	14.81
20.01	—	30.00	1,635,997	5.1	25.53	1,378,461	4.6	25.69
30.01	—	40.00	4,648,123	5.2	33.81	3,263,037	4.3	33.66
40.01	—	50.00	1,561,333	8.3	41.97	203,233	3.8	41.85
50.01	—	60.00	4,016	9.8	51.92	—	0.0	—
\$14.80	—	\$51.92	8,700,028	5.6	\$31.87	5,695,290	4.2	\$29.21

At December 31, 2013, there was \$13.6 million of total unrecognized compensation cost from stock option arrangements granted under the plan, which is primarily related to unvested shares of non-retirement eligible

employees. The aggregate intrinsic value

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of options exercised during the year ended December 31, 2013 and 2012 was \$155.5 million and \$89.7 million, respectively. Generally, stock options expire ten years from their date of grant.

For restricted stock awarded prior to the spin-off, grant price information in the table below reflects historical market prices. The following table summarizes RSU activity for the years 2013, 2012 and 2011:

	RSUs	Weighted- average grant date fair value
Outstanding and unvested at December 31, 2010	1,300,174	\$26.14
Granted	672,185	43.87
Vested	(512,614)	) 24.20
Cancelled	(152,572)	) 34.87
Outstanding and unvested at December 31, 2011	1,307,173	\$35.00
Granted	643,822	40.74
Vested	(575,214)	) 30.05
Cancelled	(91,089)	) 38.92
Outstanding and unvested at December 31, 2012	1,284,692	\$39.81
Granted	685,441	53.78
Vested	(669,079)	) 38.44
Cancelled	(63,954)	) 43.98
Impact of spin-off	103,882	****
Outstanding and unvested at December 31, 2013	1,340,982	\$38.49

At December 31, 2013, there was \$21.5 million of total unrecognized compensation cost from RSU arrangements granted under the plan, which is related to unvested shares of non-retirement eligible employees.

#### Performance Shares

The Company has a Performance Share Program (PSP) for key employees. The program provides awards in the form of PSUs based on performance against pre-established objectives. The annual target award level is expressed as a number of the Company's ordinary shares. All PSUs are settled in the form of ordinary shares.

Awards granted in 2011 and 2010 are based upon the Company's relative earnings-per-share (EPS) growth as compared to the industrial group of companies in the S&P 500 Index over the 3-year performance period.

In 2011 the Compensation Committee approved certain changes to the Company's PSP to be implemented beginning with the 2012 grant year. Under these changes, PSU awards are based 50% upon a performance condition, measured at each reporting period by relative EPS growth to the industrial group of companies in the S&P 500 Index and the fair market value of the Company's stock on the date of grant, and 50% upon a market condition, measured by the Company's relative total shareholder return (TSR) as compared to the TSR of the industrial group of companies in the S&P 500 Index over the 3-year performance period. The fair value of the market condition is estimated using a Monte Carlo Simulation approach in a risk-neutral framework based upon historical volatility, risk-free rates and correlation matrix.

In 2012 the Compensation Committee approved a change to fix the measurement of EPS for all outstanding 2010 and 2011 PSU awards, effective January 31, 2012. This change results in fixed accounting being applied as of the date of change. The fair value of the Company's stock price used to fix the remaining amount of expense to be recorded over the life of the awards was \$34.94.

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The grant price information for performance share units awarded prior to the spin-off reflects historical market prices which were not adjusted to reflect the spin-off. The following table summarizes PSU activity for the maximum number of shares that may be issued for the years 2013, 2012 and 2011:

	PSUs	Weighted-average grant date fair value
Outstanding and unvested at December 31, 2010	3,768,706	\$20.36
Granted	614,006	46.66
Vested	(633,504	) 16.95
Forfeited	(1,116,212	) 19.31
Outstanding and unvested at December 31, 2011	2,632,996	\$27.76
Granted	649,668	50.75
Vested	—	—
Forfeited	(1,423,028	) 18.68
Outstanding and unvested at December 31, 2012	1,859,636	\$40.30
Granted	580,910	61.24
Vested	(718,040	) 34.94
Forfeited	(150,636	) 51.43
Impact of spin-off	380,780	****
Outstanding and unvested at December 31, 2013	1,952,650	\$39.20

At December 31, 2013, there was \$12.9 million of total unrecognized compensation cost from the PSP based on current performance, which is related to unvested shares. This compensation will be recognized over the required service period, which is generally the three-year vesting period.

**Deferred Compensation**

The Company allows key employees to defer a portion of their eligible compensation into a number of investment choices, including its ordinary share equivalents. Any amounts invested in ordinary share equivalents will be settled in ordinary shares of the Company at the time of distribution.

**Other Plans**

The Company has not granted stock appreciation rights (SARs) since 2006 and does not anticipate additional grants in the future. As of December 31, 2013, there were 96,415 SARs outstanding, all of which are vested and expire 10 years from the date of grant. All SARs exercised are settled with the Company's ordinary shares.

The Company has issued stock grants as an incentive plan for certain key employees, with varying vesting periods. All stock grants are settled with the Company's ordinary shares. At December 31, 2013, there were 52,565 stock grants outstanding, all of which were vested.

**NOTE 13 – RESTRUCTURING ACTIVITIES**

Restructuring charges recorded during the years ended December 31 were as follows:

In millions	2013	2012	2011
Climate	\$47.5	\$12.9	\$17.1
Industrial	14.5	7.6	6.7
Corporate and Other	20.3	2.8	0.3
Total	\$82.3	\$23.3	\$24.1
Cost of goods sold	\$15.2	\$10.3	\$6.8
Selling and administrative expenses	67.1	13.0	17.3
Total	\$82.3	\$23.3	\$24.1

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The changes in the restructuring reserve were as follows:

In millions	Climate	Industrial	Corporate and Other	Total
December 31, 2011	\$5.1	\$4.2	\$1.7	\$11.0
Additions, net of reversals	12.9	7.6	* 2.8	23.3
Cash and non-cash uses	(13.4	) (9.7	) (2.6	) (25.7
Currency translation	0.1	—	—	0.1
December 31, 2012	4.7	2.1	1.9	8.7
Additions, net of reversals	47.5	14.5	20.3	82.3
Cash and non-cash uses	(34.2	) (7.1	) (17.2	) (58.5
Currency translation	—	—	—	—
December 31, 2013	\$18.0	\$9.5	\$5.0	\$32.5

\* Amount includes the reversal of \$6.7 million of previously accrued restructuring charges.

During 2013, 2012, and 2011, the Company incurred costs of \$82.3 million, \$23.3 million, and \$24.1 million respectively, associated with ongoing restructuring actions. These actions included workforce reductions as well as the closure and consolidation of manufacturing facilities in an effort to improve the Company's cost structure. Due to changes in various economic factors, the Company made a decision in the first quarter of 2011 to continue operating a facility for which the Company had previously accrued approximately \$6.7 million of restructuring charges. As of December 31, 2013, the Company had \$32.5 million accrued for costs associated with its ongoing restructuring actions, of which a majority is expected to be paid within one year.

In addition to the 2013 restructuring charges described above, the Company incurred \$0.7 million of non-qualified restructuring charges during the year ended December 31, 2013, which represent costs that are directly attributable to restructuring activities, but do not fall into the severance, exit or disposal category. These non-qualified restructuring charges were incurred to improve the Company's cost structure.

## NOTE 14 – OTHER, NET

At December 31, the components of Other, net were as follows:

In millions	2013	2012	2011
Interest income	\$12.8	\$16.3	\$25.5
Exchange gain (loss)	(14.0	) 0.2	(1.3
Earnings (loss) from equity investments	(2.6	) (5.9	) (3.5
Other	7.2	17.5	7.7
Other, net	\$3.4	\$28.1	\$28.4

Exchange gain (loss) for the year ended December 31, 2013 includes a loss of approximately \$3.8 million related to the devaluation of the Venezuela Bolivar. Included within Earnings (loss) from equity investments for the years ended December 31, 2013, 2012 and 2011 is \$2.6 million, \$5.9 million and \$3.5 million of equity loss, respectively, on the Hussmann equity investment incurred subsequent to the Hussmann divestiture transaction dates. The activity included within Other for the year ended December 31, 2012 is primarily related to adjustments to actual and expected insurance recoveries as a result of a settlement.



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## NOTE 15 – INCOME TAXES

Earnings before income taxes for the years ended December 31 were taxed within the following jurisdictions:

In millions	2013	2012	2011
United States	\$(147.4 )	\$(49.3 )	\$(1,066.3 )
Non-U.S.	977.0	897.3	1,254.9
Total	\$829.6	\$848.0	\$188.6

The components of the Provision for income taxes for the years ended December 31 were as follows:

In millions	2013	2012	2011
Current tax expense (benefit):			
United States	\$2.1	\$(70.1 )	\$46.7
Non-U.S.	157.5	174.0	170.0
Total:	159.6	103.9	216.7
Deferred tax expense (benefit):			
United States	19.2	116.9	(215.4 )
Non-U.S.	10.2	(164.8 )	44.2
Total:	29.4	(47.9 )	(171.2 )
Total tax expense (benefit):			
United States	21.3	46.8	(168.7 )
Non-U.S.	167.7	9.2	214.1
Total	\$189.0	\$56.0	\$45.4

The Provision for income taxes differs from the amount of income taxes determined by applying the applicable U.S. statutory income tax rate to pretax income, as a result of the following differences:

	Percent of pretax income			
	2013	2012	2011	
Statutory U.S. rate	35.0 %	35.0 %	35.0 %	
Increase (decrease) in rates resulting from:				
Non-U.S. tax rate differential	(26.8 )	(22.5 )	(120.4 )	
Tax on U.S. subsidiaries on non-U.S. earnings	2.0	4.1	24.0	
State and local income taxes (1)	6.3	0.3	(6.1 )	
Valuation allowances	2.5	(16.6 )	(0.8 )	
Change in permanent reinvestment assertion (2)	6.2	—	—	
Non-deductible goodwill write-off - Hussmann	—	—	75.4	
Reserves for uncertain tax positions	(2.9 )	2.4	15.3	
Impact of change in taxation of retiree drugs subsidy	—	1.9	—	
Provision to return and other true-up adjustments	(0.7 )	(0.1 )	(0.8 )	
Other adjustments	1.2	2.1	2.5	
Effective tax rate	22.8 %	6.6 %	24.1 %	

(1) Net of changes in valuation allowances

(2) Net of foreign tax credits

Tax incentives, in the form of tax holidays, have been granted to the Company in certain jurisdictions to encourage industrial development. The expiration of these tax holidays varies by country. The tax holidays are conditional on the Company meeting certain employment and investment thresholds. The most significant tax holidays relate to the Company's qualifying locations in China, Puerto Rico, and Belgium. The benefit for the tax holidays for the years ended December 31, 2013 and 2012 was \$25.3 million and \$13.7 million, respectively.

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At December 31, a summary of the deferred tax accounts were as follows:

In millions	2013	2012
Deferred tax assets:		
Inventory and accounts receivable	\$ 19.7	\$ 21.1
Fixed assets and intangibles	3.3	3.6
Postemployment and other benefit liabilities	643.1	755.0
Product liability	221.7	237.6
Other reserves and accruals	198.5	174.6
Net operating losses and credit carryforwards	707.1	868.8
Other	59.2	63.2
Gross deferred tax assets	1,852.6	2,123.9
Less: deferred tax valuation allowances	(218.5)	(156.2)
Deferred tax assets net of valuation allowances	\$ 1,634.1	\$ 1,967.7
Deferred tax liabilities:		
Inventory and accounts receivable	\$(46.8)	\$(48.8)
Fixed assets and intangibles	(2,046.8)	(2,090.6)
Postemployment and other benefit liabilities	(3.3)	(0.3)
Other reserves and accruals	(6.0)	(3.4)
Other	(49.1)	(6.0)
Gross deferred tax liabilities	(2,152.0)	(2,149.1)
Net deferred tax assets (liabilities)	\$(517.9)	\$(181.4)

At December 31, 2013, no deferred taxes have been provided for any portion of the approximately \$7.4 billion of undistributed earnings of the Company's subsidiaries, since these earnings have been, and under current plans will continue to be, permanently reinvested in these subsidiaries. Due to the number of legal entities and jurisdictions involved and the complexity of the legal entity structure of the Company, the complexity of the tax laws in the relevant jurisdictions, including, but not limited to the rules pertaining to the utilization of foreign tax credits in the United States and the impact of projections of income for future years to any calculations, the Company believes it is not practicable to estimate, within any reasonable range, the amount of additional taxes which may be payable upon distribution of these earnings.

As a result of the Allegion spin-off and certain internal restructurings, the Company believes it is advantageous to fully repay an intercompany debt obligation between two of its subsidiaries. In order to facilitate the repayment of this intercompany debt, in the fourth quarter of 2013, the Company decided to change its permanent reinvestment assertion as it relates to approximately \$740 million of earnings primarily related to subsidiaries in Hong Kong, Australia and Canada. The Company has recorded the tax effects of this change in the fourth quarter of 2013, which resulted in a charge of approximately \$51 million. Except where otherwise noted, the Company continues with its permanent reinvestment assertion on its remaining unremitted earnings.

At December 31, 2013, the Company had the following operating loss and tax credit carryforwards available to offset taxable income in prior and future years:

In millions	Amount	Expiration Period
U.S. Federal net operating loss carryforwards	\$895.0	2014-2033
U.S. Federal credit carryforwards	42.7	2014-Unlimited
U.S. State net operating loss carryforwards	3,044.2	2014-2033
U.S. State credit carryforwards	29.8	2014-Unlimited
Non-U.S. net operating loss carryforwards	1,128.0	2014-Unlimited
Non-U.S. credit carryforwards	1.0	Unlimited

The amount of net operating loss carryforwards for which a benefit would be recorded in additional paid in capital when realized is \$158.7 million.

The U.S. state net operating loss carryforwards were incurred in various jurisdictions. The non-U.S. net operating loss carryforwards were incurred in various jurisdictions, predominantly in Barbados, Belgium, Brazil, India, Spain, and the United Kingdom.

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Activity associated with the Company's valuation allowance is as follows:

In millions	2013	2012	2011
Beginning balance	\$156.2	\$308.4	\$351.2
Increase to valuation allowance	89.3	44.5	14.9
Decrease to valuation allowance	(26.3)	(192.4)	(22.3)
Other deductions	—	—	(0.3)
Accumulated other comprehensive income (loss)	(0.7)	(4.3)	(35.1)
Ending balance	\$218.5	\$156.2	\$308.4

The Company has total unrecognized tax benefits of \$363.3 million and \$497.5 million as of December 31, 2013, and December 31, 2012, respectively. The amount of unrecognized tax benefits that, if recognized, would affect the continuing operations effective tax rate are \$278.3 million as of December 31, 2013. A reconciliation of the beginning and ending amount of unrecognized tax benefits is as follows:

In millions	2013	2012	2011
Beginning balance	\$497.5	\$503.4	\$505.6
Additions based on tax positions related to the current year	19.9	8.5	16.1
Additions based on tax positions related to acquisitions	—	—	—
Additions based on tax positions related to prior years	152.9	88.2	56.7
Reductions based on tax positions related to prior years	(215.3)	(24.1)	(62.2)
Reductions related to settlements with tax authorities	(84.7)	(50.6)	(3.7)
Reductions related to lapses of statute of limitations	(8.4)	(29.5)	(9.2)
Translation (gain) loss	1.4	1.6	0.1
Ending balance	\$363.3	\$497.5	\$503.4

In connection with the Company's spin-off of Allegion, the Company and Allegion entered into a tax sharing agreement for the allocation of taxes. Of the total unrecognized tax benefit of \$363.3 million at December 31, 2013, Allegion has agreed to indemnify Ingersoll Rand for \$4.1 million, which is reflected in an other long-term receivable account. Additionally, included in this other long-term receivable account is an indemnity receivable from Allegion in the amount of \$55.8 million related to a filing for competent authority relief in connection with an unrecognized tax benefit included in the table above. The \$55.8 million is exclusive of interest and penalties in the amount of \$10.4 million. The Company also has an indemnity payable to Allegion in the amount of \$9.5 million of tax and interest primarily related to competent authority relief filings.

In connection with Trane's spin-off of WABCO Holdings Inc. (WABCO), Trane and WABCO entered into a tax sharing agreement for the allocation of pre spin-off taxes. Of the total unrecognized tax benefit of \$363.3 million at December 31, 2013, WABCO has agreed to indemnify Trane for \$3.7 million, which is reflected in an other long-term receivable account.

The Company records interest and penalties associated with the uncertain tax positions within its Provision for income taxes. The Company had reserves associated with interest and penalties, net of tax, of \$71.9 million and \$85.3 million at December 31, 2013 and December 31, 2012, respectively. For the year ended December 31, 2013 and December 31, 2012, the Company recognized \$(5.9) million and \$11.8 million, respectively, in interest and penalties net of tax in continuing operations related to these uncertain tax positions.

The total amount of unrecognized tax benefits relating to the Company's tax positions is subject to change based on future events including, but not limited to, the settlements of ongoing audits and/or the expiration of applicable statutes of limitations. Although the outcomes and timing of such events are highly uncertain, it is reasonably possible that the balance of gross unrecognized tax benefits, excluding interest and penalties, could potentially be reduced by up to approximately \$4.5 million during the next 12 months.

The provision for income taxes involves a significant amount of management judgment regarding interpretation of relevant facts and laws in the jurisdictions in which the Company operates. Future changes in applicable laws, projected levels of taxable income and tax planning could change the effective tax rate and tax balances recorded by the Company. In addition, tax authorities periodically review income tax returns filed by the Company and can raise issues regarding its filing positions, timing and amount of income or deductions, and the allocation of income among

the jurisdictions in which the Company operates. A significant period of time may elapse between the filing of an income tax return and the ultimate resolution of an issue raised by a revenue authority with respect to that return. In the normal course of business the Company is subject to examination by taxing authorities throughout the world, including such major jurisdictions as Brazil, Canada, China, France, Germany, Ireland, Italy, Mexico, Switzerland, the

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Netherlands and the United States. In general, the examination of the Company's material tax returns is complete for the years prior to 2001, with certain matters being resolved through appeals and litigation.

In 2007, the Company received a notice from the IRS containing proposed adjustments to the Company's tax filings in connection with an audit of the 2001 and 2002 tax years. The IRS did not contest the validity of the Company's reincorporation in Bermuda. The IRS proposed to ignore the entities that hold the intercompany debt incurred in connection with the Company's reincorporation in Bermuda (the "2001 Debt") and to which the interest was paid and impose 30% withholding tax on a portion of the interest payments as if they were made directly to a company that was not eligible for reduced U.S. withholding tax under a U.S. income tax treaty. The IRS asserted that the Company owed additional taxes with respect to 2002 of approximately \$84 million plus interest. The Company strongly disagreed with the view of the IRS and filed a protest. In 2010, the Company received an amended notice from the IRS assessing penalties of 30% on the asserted underpayment of tax described above.

The Company has so far been unsuccessful in resolving this dispute and recently received a Notice of Deficiency from the IRS for 2002. The Company filed a petition in the United States Tax Court in November 2013 contesting this deficiency. In its January 2014 answer to the Company's petition, the IRS asserted that the Company also owes 30% withholding tax on the portion of 2002 interest payments made on the 2001 Debt upon which it did not previously assert withholding tax. A 30% withholding tax on this \$85.0 million interest payment would increase the total tax liability proposed for 2002 to \$109.0 million (\$84 million referred to in the paragraph above plus this additional \$25.0 million) plus 30% penalties and interest.

Recently the Company received notices from the IRS containing proposed adjustments to the Company's tax filings in connection with an audit of the 2003-2006 tax years. In these notices, the IRS asserts that the Company owes a total of approximately \$665.0 million of additional taxes, as described more fully below, in connection with the Company's interest payments on the 2001 Debt for the 2003-2006 period, plus penalties and interest on these unpaid taxes.

The IRS continues to take the position on the 2001 Debt, which was retired at the end of 2011, that it previously took for the Company's 2002 tax year and which is described above. As a result of this recharacterization, the IRS asserts that the Company owes approximately \$455.0 million of withholding tax for 2003-2006 plus 30% penalties.

The IRS also proposes to extend its position further and to treat all of the interest income from the 2001 Debt as creating earnings and profits at IR-Limited and, as a result, recharacterize the distributions made by IR-Limited during the 2002-2006 tax years as taxable dividends instead of as a return of capital. Consequently the IRS asserts that the Company owes approximately \$210.0 million of income tax on these dividends plus penalties of 20%.

Although the Company expects it to do so, the IRS has not yet proposed any similar adjustments for years subsequent to 2006, as the federal income tax audits for those years are still in process or have not yet begun. In addition, the Company does not know how the IRS will apply its position to the different facts presented in those years or whether the IRS will take a similar position in future audits with respect to intercompany debt instruments not outstanding in prior years.

The Company has vigorously contested all of these proposed adjustments and intends to continue to do so. Although the outcome of these matters cannot be predicted with certainty, based upon an analysis of the merits of the Company's position the Company believes that it is adequately reserved under the applicable accounting standards for these matters and does not expect that the ultimate resolution will have a material adverse impact on its future results of operations, financial condition, or cash flows. As the Company moves forward to resolve these matters with the IRS, the reserves established may be adjusted. Although the Company continues to contest the IRS's position, there can be no assurance that it will be successful. If the IRS's position with respect to the 2002-2006 tax years is ultimately sustained the Company would be required to record additional charges and the resulting liability will have a material adverse impact on its future results of operations, financial condition and cash flows.

The Company believes that it has adequately provided for any reasonably foreseeable resolution of any tax disputes, but will adjust its reserves if events so dictate in accordance with GAAP. To the extent that the ultimate results differ from the original or adjusted estimates of the Company, the effect will be recorded in the Provision for income taxes. As a result of the Patient Protection and Affordable Care Act and the Healthcare and Education Reform Reconciliation Bill of 2010 (collectively, the Healthcare Reform Legislation), effective 2013, the tax benefits available to the Company are reduced to the extent its prescription drug expenses are reimbursed under the Medicare Part D retiree

drug subsidy program. Although the provisions of the Healthcare Reform Legislation relating to the retiree drug subsidy program did not take effect until 2013, the Company is required to recognize the full accounting impact in its financial statements in the reporting period in which the Healthcare Reform Legislation is enacted. As retiree healthcare liabilities and related tax impacts were already reflected in the Company's financial statements, the Healthcare Reform Legislation resulted in a non-cash charge to income tax expense in the first quarter of 2010 of \$36.6 million. In 2012, the Company recorded a \$15.8 million non-cash charge to income tax expense related to the required tax accounting between the enactment date of March 30, 2010 and the effective date of January 1, 2013 of the Healthcare Reform Legislation.

During 2012, the Company identified certain accounting errors associated with its previously reported income tax balances and tax positions. The Company corrected these errors in 2012 resulting in a tax charge of \$24.0 million primarily related to the accrual

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of previously unrecorded unrecognized tax benefits. The Company does not believe that the accounting errors are material to 2012 or to any of its previously issued financial statements. As a result, the Company did not adjust any prior period amount.

During 2013, the Company recorded to continuing operations a tax charge of approximately \$74.3 million as result of increases to its deferred tax asset valuation allowance for non-U.S. and U.S. state and local net operating losses and other net deferred tax assets. During 2013, the Company also recorded to continuing operations a net tax benefit of \$36.0 million related to its liability for unrecognized tax benefits primarily driven by a tax benefit of \$75.0 million as a result of the settlement of an audit in a major tax jurisdiction, partially offset by an increase in our liability for unrecognized tax benefits in non-U.S. tax jurisdictions.

During 2012 the Company recorded to continuing operations a tax benefit of approximately \$140.0 million as a result of reducing its deferred tax asset valuation allowance for state net operating losses.

During 2011, the Company identified certain accounting errors associated with its previously reported income tax balances and tax positions. The Company corrected these errors in 2011 resulting in a tax charge of approximately \$38.2 million, of which \$3.9 million related to discontinued operations, primarily related to the accrual of a previously unrecorded future withholding tax liability. The Company does not believe that the accounting errors are material to 2011 or to any of its previously issued financial statements. As a result, the Company did not adjust any prior period amounts.

**NOTE 16 – DISCONTINUED OPERATIONS AND DIVESTITURES****Discontinued Operations**

The components of discontinued operations for the years ended December 31 are as follows:

In millions	2013	2012	2011
Net revenues	\$1,889.9	\$2,046.6	\$2,093.4
Pre-tax earnings (loss) from operations	\$84.7	\$379.5	\$355.7
Pre-tax gain (loss) on sale	—	2.3	(57.7)
Tax benefit (expense)	(71.4)	(129.8)	(71.9)
Discontinued operations, net of tax	\$13.3	\$252.0	\$226.1

Discontinued operations by business for the years ended December 31 are as follows:

In millions	2013	2012	2011
Allegion, net of tax	\$12.4	\$254.2	\$275.7
Other discontinued operations, net of tax	0.9	(2.2)	(49.6)
Discontinued operations, net of tax	\$13.3	\$252.0	\$226.1

**Allegion Spin Off**

On December 1, 2013, the Company completed the previously announced separation of its commercial and residential security businesses by distributing the related ordinary shares of Allegion, on a pro rata basis, to the Company's shareholders of record as of November 22, 2013. On the Distribution Date, each of the Company's shareholders received one ordinary share of Allegion for every three ordinary shares of the Company held by such shareholder on the Record Date. After the Distribution Date, the Company does not beneficially own any Allegion ordinary shares (other than approximately 7,045 shares received in a deferred compensation trust upon the spin-off as a result of the trust holding ordinary shares of Ingersoll-Rand plc as of the Record Date) and Allegion is an independent publicly traded company.

The results of our commercial and residential security businesses are presented as a discontinued operation on the Consolidated Statement of Comprehensive Income and Consolidated Statement of Cash Flows for all periods presented. The balance sheet of the commercial and residential security business has been reclassified to held for spin-off at December 31, 2012. The statement of equity of the commercial and residential security business is included within our Consolidated Statement of Equity through December 1, 2013.



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Net revenues and after-tax earnings of Allegion for the year ended December 31 were as follows:

In millions	2013	2012	2011
Net revenues	\$1,889.9	\$2,046.6	\$2,021.2
After-tax earnings (loss) from operations *	\$12.4	\$254.2	\$275.7

\* Included in After-tax earnings (loss) from operations for the year ended December 31, 2013 and 2012 are spin costs of \$128 million and \$5.7 million, respectively, and tax charges of \$148.2 million. Also, the 2013 results include a \$111.4 million non-cash goodwill impairment charge. See below for further discussion of the impairment.

During the third quarter of 2013, the Company determined that it was required to complete the first step of the two-step impairment test related to the former Security Technologies -Europe, Middle East, India and Africa (EMEIA) reporting unit. The results of the impairment test indicated that the estimated fair value of the Security Technologies-EMEIA reporting unit was less than its carrying value; consequently, the Company performed the second step of the impairment test to quantify the amount of the non-cash, goodwill impairment charge. For the three months ended September 30, 2013, the Company recorded a non-cash, pre-tax goodwill impairment charge of \$111.4 million (\$106.2 million after-tax). This charge is recorded within Allegion's After-tax earnings (loss) from operations for the year ended December 31, 2013.

The components of Allegion assets and liabilities recorded as held for spin-off on the Consolidated Balance Sheet at December 31, 2012 are as follows:

In millions	December 31, 2012
Assets	
Current assets	\$726.1
Property, plant and equipment, net	226.5
Goodwill	646.3
Intangible assets, net	150.5
Other assets and deferred income taxes	68.0
Assets held for spin-off	\$1,817.4
Liabilities	
Current liabilities	\$362.9
Noncurrent liabilities	168.9
Liabilities held for spin-off	\$531.8

In November 2013, prior to the spin-off, the commercial and residential security businesses borrowed \$1,274.2 million. The proceeds of the borrowing remained with the Company. On December 1, 2013 we made a distribution of \$(0.5) million to the Company's shareholders in connection with the spin-off of Allegion. The distribution included \$1,953.7 million of assets, \$1,974.2 million of liabilities, \$61.1 million of accumulated other comprehensive loss and \$41.1 million of noncontrolling interest.

#### Other Discontinued Operations

The components of other discontinued operations for the years ended December 31 were as follows:

In millions	2013	2012	2011
Retained costs, net of tax	\$0.9	\$(16.2)	\$(34.8)
Net gain (loss) on disposals, net of tax	—	14.0	(14.8)
Discontinued operations, net of tax	\$0.9	\$(2.2)	\$(49.6)

On November 30, 2007, the Company completed the sale of its Bobcat, Utility Equipment and Attachments businesses (collectively, Compact Equipment) to Doosan Infracore for gross proceeds of approximately \$4.9 billion, subject to post-closing purchase price adjustments. Compact Equipment manufactured and sold compact equipment, including skid-steer loaders, compact track loaders, mini-excavators and telescopic tool handlers; portable air compressors, generators and light towers; general-purpose light construction equipment; and attachments. The Company was in dispute regarding post-closing matters with Doosan Infracore. During the second quarter of 2011, the Company collected approximately \$48.3 million of its outstanding receivable from Doosan Infracore related to certain purchase price adjustments. During the second quarter of 2012, Doosan Infracore paid the Company a total of \$46.5

million to settle the outstanding receivable and remaining disputed post-closing matters.

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Other discontinued operations, net of tax from previously sold businesses is mainly related to postretirement benefits, product liability, worker's compensation, and legal costs (mostly asbestos-related) and tax effects of post-closing purchase price adjustments.

**Divested Operations****Hussmann Divestiture**

On September 30, 2011, the Company completed a transaction to sell its Hussmann refrigerated display case business to a newly-formed affiliate (Hussmann Parent) of private equity firm Clayton Dubilier & Rice, LLC (CD&R). This transaction included the equipment business and certain of the service branches in the U.S. and Canada, and the equipment, service and installation businesses in Mexico, Chile, Australia, New Zealand, and Japan (Hussmann Business). The final transaction allowed Hussmann Parent the option to acquire the remaining North American Hussmann service and installation branches (Hussmann Branches). Hussmann Parent completed the acquisition of the Hussmann Branches on November 30, 2011. The Hussmann Business and Branches, which are reported as part of the Climate segment, manufacture, market, distribute, install, and service refrigerated display merchandising equipment, refrigeration systems, over the counter parts, and other commercial and industrial refrigeration applications. The Hussmann Business divestiture was originally announced on April 21, 2011 and met the criteria for classification as held for sale treatment in accordance with GAAP during the first quarter of 2011. During the third quarter of 2011, the Company negotiated the final transaction to sell the Hussmann Business and Branches to CD&R in exchange for \$370 million in cash, subject to purchase price adjustments, and common stock of Hussmann Parent, such that following the sale, CD&R would own cumulative convertible participating preferred stock of Hussmann Parent, initially representing 60% of the outstanding capital stock (on an as-converted basis) of Hussmann Parent, and the Company would own all of the common stock, initially representing the remaining 40% of the outstanding capital stock (on an as-converted basis) of Hussmann Parent. The Company's ownership of common stock of Hussmann Parent represents significant continuing involvement. Therefore, the results of the Hussmann Business and Branches are included in continuing operations for all periods presented. Based on these terms, the Company recorded a total pre-tax loss on sale/asset impairment charge of \$646.9 million during the full year of 2011.

Results for the Hussmann Business and Branches for the years ended December 31, 2011 are as follows:

In millions	2011*
Net revenues	\$818.5
Gain (loss) on sale/asset impairment	(646.9 ) **
Net earnings (loss) attributable to Ingersoll-Rand plc	(513.1 )
Diluted earnings (loss) per share attributable to Ingersoll-Rand plc ordinary shareholders:	(1.51 )

\* Results represent the operating results of Hussmann Business and Branches through their respective divestiture transaction dates.

\*\* Included in Gain (loss) on sale/asset impairment for the year ended December 31, 2011 are transaction costs of \$12.2 million.

Hussmann Parent is required to pay a quarterly preferred dividend payment to CD&R in the form of cash or additional preferred shares. The Company's ownership percentage as of December 31, 2013 was 37.2%. The Company's ownership interest in Hussmann Parent is reported using the equity method of accounting subsequent to September 30, 2011. The Company's equity investment in the Hussmann Parent is reported within Other noncurrent assets and the related equity earnings reported in Other, net within Net earnings.

**NOTE 17 – EARNINGS PER SHARE (EPS)**

Basic EPS is calculated by dividing Net earnings attributable to Ingersoll-Rand plc by the weighted-average number of ordinary shares outstanding for the applicable period. Diluted EPS is calculated after adjusting the denominator of the basic EPS calculation for the effect of all potentially dilutive ordinary shares, which in the Company's case, includes shares issuable under share-based compensation plans and the effects of the Exchangeable Senior Notes issued in April 2009. The following table summarizes the weighted-average number of ordinary shares outstanding for basic and diluted earnings per share calculations:

In millions	2013	2012	2011
Weighted-average number of basic shares	294.1	303.9	324.8

Shares issuable under incentive stock plans	4.2	3.7	3.8
Exchangeable Senior Notes	—	3.0	10.7
Weighted-average number of diluted shares	298.3	310.6	339.3
Anti-dilutive shares	19.1	5.2	5.0

The Company settled all remaining outstanding Exchangeable Senior Notes during 2012. As a result, the Company issued 10.8 million ordinary shares related to the equity portion of the Notes. See Note 8 for a further discussion.

#### NOTE 18 – COMMITMENTS AND CONTINGENCIES

The Company is involved in various litigations, claims and administrative proceedings, including those related to environmental, asbestos, and product liability matters. Amounts recorded for identified contingent liabilities are estimates, which are reviewed periodically and adjusted to reflect additional information when it becomes available. Subject to the uncertainties inherent in estimating future costs for contingent liabilities, except as expressly set forth in this note, management believes that any liability which may result from these legal matters would not have a material adverse effect on the financial condition, results of operations, liquidity or cash flows of the Company.

##### Environmental Matters

The Company continues to be dedicated to an environmental program to reduce the utilization and generation of hazardous materials during the manufacturing process and to remediate identified environmental concerns. As to the latter, the Company is currently engaged in site investigations and remediation activities to address environmental cleanup from past operations at current and former manufacturing facilities.

The Company is sometimes a party to environmental lawsuits and claims and has received notices of potential violations of environmental laws and regulations from the Environmental Protection Agency and similar state authorities. It has also been identified as a potentially responsible party (PRP) for cleanup costs associated with off-site waste disposal at federal Superfund and state remediation sites. For all such sites, there are other PRPs and, in most instances, the Company's involvement is minimal.

In estimating its liability, the Company has assumed it will not bear the entire cost of remediation of any site to the exclusion of other PRPs who may be jointly and severally liable. The ability of other PRPs to participate has been taken into account, based on our understanding of the parties' financial condition and probable contributions on a per site basis. Additional lawsuits and claims involving environmental matters are likely to arise from time to time in the future.

The Company incurred \$(0.5) million, \$3.1 million, and \$1.2 million of expenses during the years ended December 31, 2013, 2012 and 2011, respectively, for environmental remediation at sites presently or formerly owned or leased by us. As of December 31, 2013 and 2012, the Company has recorded reserves for environmental matters of \$47.9 million and \$55.6 million, respectively. Of these amounts \$42.1 million and \$41.2 million, respectively, relate to remediation of sites previously disposed by the Company. Environmental reserves are classified as Accrued expenses and other current liabilities, or Other noncurrent liabilities based on their expected term. The Company's total current environmental reserve at December 31, 2013 and 2012 was \$13.5 million and \$18.0 million, respectively. Given the evolving nature of environmental laws, regulations and technology, the ultimate cost of future compliance is uncertain.

##### Asbestos-Related Matters

Certain wholly-owned subsidiaries of the Company are named as defendants in asbestos-related lawsuits in state and federal courts. In virtually all of the suits, a large number of other companies have also been named as defendants. The vast majority of those claims have been filed against either Ingersoll-Rand Company (IR-New Jersey) or Trane U.S. Inc. (Trane) and generally allege injury caused by exposure to asbestos contained in certain historical products sold by IR-New Jersey or Trane, primarily pumps, boilers and railroad brake shoes. Neither IR-New Jersey nor Trane was a producer or manufacturer of asbestos, however, some formerly manufactured products utilized asbestos-containing components such as gaskets and packings purchased from third-party suppliers.

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The Company engages an outside expert to assist in calculating an estimate of the Company's total liability for pending and unasserted future asbestos-related claims and annually performs a detailed analysis with the assistance of an outside expert to update its estimated asbestos-related assets and liabilities. The methodology used to project the Company's total liability for pending and unasserted potential future asbestos-related claims relied upon and included the following factors, among others:

- the outside expert's interpretation of a widely accepted forecast of the population likely to have been occupationally exposed to asbestos;
- epidemiological studies estimating the number of people likely to develop asbestos-related diseases such as mesothelioma and lung cancer;
- the Company's historical experience with the filing of non-malignancy claims and claims alleging other types of malignant diseases filed against the Company relative to the number of lung cancer claims filed against the Company;
- the outside expert's analysis of the number of people likely to file an asbestos-related personal injury claim against the Company based on such epidemiological and historical data and the Company's most recent three-year claims history;
- an analysis of the Company's pending cases, by type of disease claimed and by year filed;
- an analysis of the Company's most recent three-year history to determine the average settlement and resolution value of claims, by type of disease claimed;
- an adjustment for inflation in the future average settlement value of claims, at a 2.5% annual inflation rate, adjusted downward to 1.5% to take account of the declining value of claims resulting from the aging of the claimant population; and
- an analysis of the period over which the Company has and is likely to resolve asbestos-related claims against it in the future.

At December 31, 2013, over 80 percent of the open claims against the Company are non-malignancy claims, many of which have been placed on inactive or deferral dockets and the vast majority of which have little or no settlement value against the Company, particularly in light of recent changes in the legal and judicial treatment of such claims. The Company's liability for asbestos-related matters and the asset for probable asbestos-related insurance recoveries are included in the following balance sheet accounts:

In millions	December 31, 2013	December 31, 2012
Accrued expenses and other current liabilities	\$69.1	\$69.1
Other noncurrent liabilities	777.1	810.4
Total asbestos-related liabilities	\$846.2	\$879.5
Other current assets	\$22.3	\$22.5
Other noncurrent assets	299.5	297.8
Total asset for probable asbestos-related insurance recoveries	\$321.8	\$320.3

The Company's asbestos insurance receivable related to IR-New Jersey and Trane was \$137.6 million and \$172.0 million at December 31, 2013, and \$125.5 million and \$194.8 million at December 31, 2012, respectively.

The (costs) income associated with the settlement and defense of asbestos-related claims after insurance recoveries, for the years ended December 31, were as follows:

In millions	2013	2012	2011
Continuing operations	\$(0.4)	) \$10.1	\$(1.9)
Discontinued operations	(55.8)	) (17.9)	) (14.5)
Total	\$(56.2)	) \$(7.8)	) \$(16.4)

IR-New Jersey records income and expenses associated with its asbestos liabilities and corresponding insurance recoveries within discontinued operations, as they relate to previously divested businesses, primarily Ingersoll-Dresser Pump, which was sold in 2000. Income and expenses associated with Trane's asbestos liabilities and corresponding insurance recoveries are recorded within continuing operations.

Trane has now settled claims regarding asbestos coverage with most of its insurers. The settlements collectively account for approximately 95% of its recorded asbestos-related insurance receivable as of December 31, 2013. Most of Trane's settlement agreements constitute "coverage-in-place" arrangements, in which the insurer signatories agree to

reimburse Trane for specified portions of its costs for asbestos bodily injury claims and Trane agrees to certain claims-handling protocols and grants to the insurer

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signatories certain releases and indemnifications. Trane remains in litigation in an action that Trane filed in November 2010 in the Circuit Court for La Crosse County, Wisconsin, relating to claims for insurance coverage for a subset of Trane's historical asbestos-related liabilities.

On January 12, 2012, IR-New Jersey filed an action in the Superior Court of New Jersey, Middlesex County, seeking a declaratory judgment and other relief regarding the Company's rights to defense and indemnity for asbestos claims. The defendants are several dozen solvent insurance companies, including companies that have been paying a portion of IR-New Jersey's asbestos claim defense and indemnity costs. The action involves certain of IR-New Jersey's unexhausted insurance policies applicable to the asbestos claims that are not subject to any settlement agreement. The responding defendants generally challenged the Company's right to recovery, and raised various coverage defenses. In December 2013, IR-New Jersey filed a similar action in the same court against an insurer that was not a party to the 2012 action.

The Company continually monitors the status of pending litigation that could impact the allocation of asbestos claims against the Company's various insurance policies. The Company has concluded that its IR-New Jersey insurance receivable is probable of recovery because of the following factors:

- a review of other companies in circumstances comparable to IR-New Jersey, including Trane, and the success of other companies in recovering under their insurance policies, including Trane's favorable settlement discussed above;
- the Company's confidence in its right to recovery under the terms of its policies and pursuant to applicable law; and
- the Company's history of receiving payments under the IR-New Jersey insurance program, including under policies that had been the subject of prior litigation.

The amounts recorded by the Company for asbestos-related liabilities and insurance-related assets are based on currently available information. The Company's actual liabilities or insurance recoveries could be significantly higher or lower than those recorded if assumptions used in the calculations vary significantly from actual results. Key variables in these assumptions include the number and type of new claims to be filed each year, the average cost of resolution of each such new claim, the resolution of coverage issues with insurance carriers, and the solvency risk with respect to the Company's insurance carriers. Furthermore, predictions with respect to these variables are subject to greater uncertainty as the projection period lengthens. Other factors that may affect the Company's liability include uncertainties surrounding the litigation process from jurisdiction to jurisdiction and from case to case, reforms that may be made by state and federal courts, and the passage of state or federal tort reform legislation.

The aggregate amount of the stated limits in insurance policies available to the Company for asbestos-related claims acquired over many years and from many different carriers, is substantial. However, limitations in that coverage, primarily due to the considerations described above, are expected to result in the projected total liability to claimants substantially exceeding the probable insurance recovery.

#### Warranty Liability

Standard product warranty accruals are recorded at the time of sale and are estimated based upon product warranty terms and historical experience. The Company assesses the adequacy of its liabilities and will make adjustments as necessary based on known or anticipated warranty claims, or as new information becomes available.

The changes in the standard product warranty liability for the year ended December 31, were as follows:

In millions	2013	2012
Balance at beginning of period	\$253.4	\$255.3
Reductions for payments	(156.7)	(146.3)
Accruals for warranties issued during the current period	153.9	144.6
Changes to accruals related to preexisting warranties	(5.5)	(0.8)
Translation	0.6	0.6
Balance at end of period	\$245.7	\$253.4

Standard product warranty liabilities are classified as Accrued expenses and other current liabilities, or Other noncurrent liabilities based on their expected term. The Company's total current standard product warranty reserve at December 31, 2013 and December 31, 2012 was \$127.9 million and \$137.8 million, respectively.

The Company's extended warranty liability represents the deferred revenue associated with its extended warranty contracts and is amortized into Revenue on a straight-line basis over the life of the contract, unless another method is

more representative of the costs incurred. The Company assesses the adequacy of its liability by evaluating the expected costs under its existing contracts to ensure these expected costs do not exceed the extended warranty liability.

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The changes in the extended warranty liability for the year ended December 31, were as follows:

In millions	2013	2012
Balance at beginning of period	\$375.1	\$372.0
Amortization of deferred revenue for the period	(105.6	) (102.6
Additions for extended warranties issued during the period	87.1	105.2
Changes to accruals related to preexisting warranties	3.0	0.2
Translation	(0.5	) 0.3
Balance at end of period	\$359.1	\$375.1

The extended warranty liability is classified as Accrued expenses and other current liabilities or Other noncurrent liabilities based on the timing of when the deferred revenue is expected to be amortized into Revenue. The Company's total current extended warranty liability at December 31, 2013 and December 31, 2012 was \$98.5 million. For the years ended December 31, 2013 and 2012, the Company incurred costs of \$61.6 million and \$60.3 million, respectively, related to extended warranties.

#### Other Commitments and Contingencies

Certain office and warehouse facilities, transportation vehicles and data processing equipment are leased by the Company. Total rental expense was \$165.0 million in 2013, \$167.0 million in 2012 and \$192.3 million in 2011. Minimum lease payments required under non-cancelable operating leases with terms in excess of one year for the next five years are as follows: \$111.6 million in 2014, \$85.2 million in 2015, \$64.0 million in 2016, \$42.7 million in 2017, and \$28.9 million in 2018.

Trane has commitments and performance guarantees, including energy savings guarantees, totaling \$422.4 million extending from 2013-2032. These guarantees are provided under long-term service and maintenance contracts related to its air conditioning equipment and system controls. Through 2013, the Company has experienced no significant losses under such arrangements and considers the probability of any significant future losses to be remote.

#### NOTE 19 – BUSINESS SEGMENT INFORMATION

The accounting policies of the operating segments are the same as those described in the summary of significant accounting policies except that the operating segments' results are prepared on a management basis that is consistent with the manner in which the Company prepares financial information for internal review and decision making. The Company largely evaluates performance based on Segment operating income and Segment operating margins. Intercompany sales between segments are considered immaterial.

In the fourth quarter of 2013, the Company realigned its organizational structure to provide a greater focus on growth, continue implementation of business operating systems, build on our successful operational excellence philosophy and reduce complexity and costs. The Company's new reporting structure includes the Climate and Industrial segments. The Company's historical segment results have been recast for the new reporting structure.

Our Climate segment delivers energy-efficient solutions globally and includes Trane® and American Standard® Heating & Air Conditioning which provide heating, ventilation and air conditioning (HVAC) systems, and commercial and residential building services, parts, support and controls; and Thermo King® transport temperature control solutions.

Our Industrial segment delivers products and services that enhance energy efficiency, productivity and operations. It includes Ingersoll Rand® compressed air systems and services, power tools, material handling systems, ARO® fluid management equipment, as well as Club Car® golf, utility and rough terrain vehicles.

Segment operating income is the measure of profit and loss that the Company's chief operating decision maker uses to evaluate the financial performance of the business and as the basis for performance reviews, compensation and resource allocation. For these reasons, the Company believes that Segment operating income represents the most relevant measure of segment profit and loss. The Company may exclude certain charges or gains from Operating income to arrive at a Segment operating income that is a more meaningful measure of profit and loss upon which to base its operating decisions.

On September 30, 2011 and November 30, 2011, the Company completed transactions to sell the Hussmann Business and Branches, respectively, to a newly-formed affiliate (Hussmann Parent) of private equity firm Clayton Dubilier & Rice, LLC (CD&R). During 2011, the Company recorded a pre-tax loss on sale and impairment charges related to the

Husmann divestiture of \$646.9 million. These charges, as well as related adjustments recorded in 2012, have been excluded from Segment operating income within the Climate segment as management excludes these charges from Operating income when making operating decisions about the business. See Note 16 for a further discussion of the Husmann divestiture.

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2011 Net revenues and Segment operating income for the Climate segment includes the operating results of the Hussmann Business and Branches prior to the sale. The operating results for the Hussmann Business and Branches are included in Net revenues and Segment operating income for the Climate segment for the years ended December 31 as follows:

In millions	2011
Net revenues	\$818.5
Segment operating income	\$58.6

A summary of operations by reportable segments for the years ended December 31 were as follows:

Dollar amounts in millions	2013	2012	2011
Climate			
Net revenues	\$9,414.0	\$9,042.5	\$9,907.9
Segment operating income *	930.2	817.6	837.1
Segment operating income as a percentage of revenues	9.9	% 9.0	% 8.4
Depreciation and amortization	252.8	257.0	273.6
Capital expenditures	129.4	105.1	105.3
Industrial			
Net revenues	2,936.5	2,945.8	2,852.9
Segment operating income	456.0	455.8	415.5
Segment operating income as a percentage of revenues	15.5	% 15.5	% 14.6
Depreciation and amortization	43.9	42.9	40.3
Capital expenditures	44.0	62.6	57.2
Total net revenues	\$12,350.5	\$11,988.3	\$12,760.8
Reconciliation to Operating Income			
Segment operating income from reportable segments	1,386.2	1,273.4	1,252.6
Gain (loss) on sale/asset impairment *	—	4.5	(646.9)
Unallocated corporate expense	(281.2)	(206.0)	(167.0)
Total operating income	\$1,105.0	\$1,071.9	\$438.7
Total operating income as a percentage of revenues	8.9	% 8.9	% 3.4
Depreciation and amortization from reportable segments	296.7	299.9	313.9
Unallocated depreciation and amortization	37.0	33.9	44.6
Total depreciation and amortization	\$333.7	\$333.8	\$358.5
Capital expenditures from reportable segments	173.4	167.7	162.5
Corporate capital expenditures	68.8	51.8	54.6
Total capital expenditures	\$242.2	\$219.5	\$217.1

\* During year ended December 31, 2011, the Company recorded a pre-tax loss on sale/asset impairment charge related to the Hussmann divestiture totaling \$646.9 million. During the year ended December 31, 2012, the Company recorded \$4.5 million of purchase price adjustments related to the Hussmann sale. These amounts have been excluded from Segment operating income within the Climate segment as management excludes these charges from Operating income when making operating decisions about the business.

Included in Segment operating income for Climate for the year ended December 31, 2011 is a \$23 million gain associated with the sale of assets from a restructured business in China.

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Revenues by destination and long-lived assets by geographic area for the years ended December 31 were as follows:

In millions	2013	2012	2011
Revenues			
United States	\$7,298.0	\$7,039.0	\$7,442.4
Non-U.S.	5,052.5	4,949.3	5,318.4
Total	\$12,350.5	\$11,988.3	\$12,760.8
In millions		2013	2012
Long-lived assets			
United States		\$2,216.8	\$2,090.9
Non-U.S.		571.6	783.6
Total		\$2,788.4	\$2,874.5

**NOTE 20 – GUARANTOR FINANCIAL INFORMATION**

Ingersoll-Rand plc, a public limited company incorporated in Ireland in 2009 (IR-Ireland), is the successor to Ingersoll-Rand Company Limited, a Bermuda company (IR-Limited), following a corporate reorganization that became effective on July 1, 2009 (the Ireland Reorganization). IR-Limited is the successor to Ingersoll-Rand Company, a New Jersey corporation (IR-New Jersey), following a corporate reorganization that occurred on December 31, 2001 (the Bermuda Reorganization). Both the Ireland Reorganization and the Bermuda Reorganization were accounted for as a reorganization of entities under common control and accordingly, did not result in any changes to the consolidated amounts of assets, liabilities and equity.

As a part of the Bermuda Reorganization, IR-Limited issued non-voting, Class B common shares to IR-New Jersey and certain IR-New Jersey subsidiaries in exchange for a \$3.6 billion note and shares of certain IR-New Jersey subsidiaries. The note had a fixed rate of interest of 11% per annum payable semi-annually and imposed certain restrictive covenants upon IR-New Jersey. In 2002, IR-Limited contributed the note to a wholly-owned subsidiary, which subsequently transferred portions of the note to several other subsidiaries, all of which are included in the “Other Subsidiaries” column below. In the fourth quarter of 2011, the Company repaid the remaining \$1.0 billion outstanding of the original \$3.6 billion note. In the fourth quarter of 2013, the Class B common shares were redeemed.

In addition, as part of the Bermuda Reorganization, IR-Limited fully and unconditionally guaranteed all of the issued public debt securities of IR-New Jersey. IR-New Jersey unconditionally guaranteed payment of the principal, premium, if any, and interest on IR-Limited’s 4.75% Senior Notes due in 2015 in the aggregate principal amount of \$300 million. See Note 8 for a discussion of the 2013 financing activities which included the payment in full of the 2015 Senior Notes. The guarantee was unsecured and provided on an unsubordinated basis. The guarantee ranked equally in right of payment with all of the existing and future unsecured and unsubordinated debt of IR-New Jersey. As part of the Ireland Reorganization, the guarantor financial statements were revised to present IR-Ireland as the ultimate parent company and Ingersoll-Rand International Holding Limited (IR-International) as a stand-alone subsidiary. In addition, the guarantee structure was updated to reflect the newly created legal structure under which (i) IR-International assumed the obligations of IR-Limited as issuer or guarantor, as the case may be, and (ii) IR-Ireland and IR-Limited fully and unconditionally guaranteed the obligations under the various indentures covering the currently outstanding public debt of IR-International, Ingersoll-Rand Global Holding Company Limited (IR-Global), and IR-New Jersey. Also as part of the Ireland Reorganization, IR-Limited transferred all the shares of IR-Global to IR-International in exchange for a note payable that initially approximated \$15 billion, which was then immediately reduced by the settlement of net intercompany payables of \$4.1 billion. In the fourth quarter of 2013, this note payable was fully repaid by IR-International.

During 2013, IR-Global and IR-International public outstanding indentures were modified to include IR-New Jersey as a co-obligor.

The Condensed Consolidating Financial Statements present the investments of IR-Ireland, IR-Limited, IR-Global, IR-International and IR-New Jersey and their subsidiaries using the equity method of accounting. Intercompany investments in the non-voting Class B common shares are accounted for on the cost method and are reduced by intercompany dividends. In accordance with generally accepted accounting principles, the amounts related to the issuance of the Class B shares have been recorded as a reduction of Total equity. The Notes payable affiliate continues

to be reflected on the Condensed Consolidating Balance Sheet of IR-International and is enforceable in accordance with their terms.

See Note 8 for a further discussion of public debt issuances and related guarantees.

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The following condensed consolidating financial information for IR-Ireland, IR-Limited, IR-Global, IR-International and IR-New Jersey, and all their other subsidiaries is included so that separate financial statements of IR-Ireland, IR-Limited, IR-Global, IR-International, and IR-New Jersey are not required to be filed with the U.S. Securities and Exchange Commission. IR-Ireland's subsidiary debt issuers and guarantors are directly or indirectly 100% owned by IR-Ireland and the guarantees are full and unconditional and joint and several.

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## Condensed Consolidating Statement of Comprehensive Income

For the year ended December 31, 2013

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Net revenues	\$—	\$—	\$—	\$—	\$1,674.0	\$10,676.5	\$—	\$12,350.5
Cost of goods sold	0.7	—	—	—	(1,100.4)	(7,575.8)	—	(8,675.5)
Selling and administrative expenses	(60.0)	(0.1)	—	(1.1)	(509.0)	(1,999.8)	—	(2,570.0)
Operating income (loss)	(59.3)	(0.1)	—	(1.1)	64.6	1,100.9	—	1,105.0
Equity earnings (loss) in affiliates, net of tax	696.2	696.7	791.0	1,008.0	161.8	792.1	(4,145.8)	—
Interest expense	—	—	(15.8)	(196.4)	(75.1)	8.5	—	(278.8)
Intercompany interest and fees	(14.1)	(0.4)	(33.8)	(34.0)	(13.7)	96.0	—	—
Other, net	(3.9)	—	1.6	0.8	38.5	(30.6)	(3.0)	3.4
Earnings (loss) before income taxes	618.9	696.2	743.0	777.3	176.1	1,966.9	(4,148.8)	829.6
Benefit (provision) for income taxes	(0.3)	—	—	—	39.5	(228.2)	—	(189.0)
Earnings (loss) from continuing operations	618.6	696.2	743.0	777.3	215.6	1,738.7	(4,148.8)	640.6
Discontinued operations, net of tax	0.2	—	—	—	(165.2)	178.3	—	13.3
Net earnings (loss)	618.8	696.2	743.0	777.3	50.4	1,917.0	(4,148.8)	653.9
Less: Net (earnings) loss attributable to noncontrolling interests	—	—	—	—	(1.2)	(36.9)	3.0	(35.1)
Net earnings (loss) attributable to Ingersoll-Rand plc	\$618.8	\$696.2	\$743.0	\$777.3	\$49.2	\$1,880.1	\$ (4,145.8)	\$618.8
Total comprehensive income (loss)	913.5	1,050.3	744.2	789.0	138.8	2,173.5	(4,857.4)	951.9
Less: Total comprehensive (income) loss attributable to noncontrolling interests	—	0.4	—	—	2.1	(43.9)	3.0	(38.4)
Total comprehensive income (loss) attributable to Ingersoll-Rand plc	\$913.5	\$1,050.7	\$744.2	\$789.0	\$140.9	\$2,129.6	\$ (4,854.4)	\$913.5

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## Condensed Consolidating Statement of Comprehensive Income

For the year ended December 31, 2012

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Net revenues	\$—	\$—	\$—	\$—	\$932.7	\$11,055.6	\$—	\$11,988.3
Cost of goods sold	—	—	—	—	(613.7 )	(7,924.3 )	—	(8,538.0 )
Selling and administrative expenses	(14.9 )	(0.3 )	—	(0.6 )	(327.6 )	(2,039.5 )	—	(2,382.9 )
Gain (loss) on sale/asset impairment	—	—	—	—	—	4.5	—	4.5
Operating income (loss)	(14.9 )	(0.3 )	—	(0.6 )	(8.6 )	1,096.3	—	1,071.9
Equity earnings (loss) in affiliates, net of tax	1,048.8	848.3	919.1	1,339.9	198.3	979.3	(5,333.7 )	—
Interest expense	—	(0.1 )	(15.8 )	(168.3 )	(50.0 )	(17.8 )	—	(252.0 )
Intercompany interest and fees	(10.5 )	—	(44.3 )	(48.8 )	0.6	103.0	—	—
Other, net	(4.8 )	—	0.7	(200.6 )	53.9	1.2	177.7	28.1
Earnings (loss) before income taxes	1,018.6	847.9	859.7	921.6	194.2	2,162.0	(5,156.0 )	848.0
Benefit (provision) for income taxes	(0.3 )	—	—	—	(56.2 )	0.5	—	(56.0 )
Earnings (loss) from continuing operations	1,018.3	847.9	859.7	921.6	138.0	2,162.5	(5,156.0 )	792.0
Discontinued operations, net of tax	0.3	—	—	—	(18.3 )	270.0	—	252.0
Net earnings (loss)	1,018.6	847.9	859.7	921.6	119.7	2,432.5	(5,156.0 )	1,044.0
Less: Net (earnings) loss attributable to noncontrolling interests	—	—	—	—	—	(48.7 )	23.3	(25.4 )
Net earnings (loss) attributable to Ingersoll-Rand plc	\$1,018.6	\$847.9	\$859.7	\$921.6	\$119.7	\$2,383.8	\$ (5,132.7 )	\$1,018.6
Total comprehensive income (loss)	1,051.2	880.6	860.9	922.0	185.4	2,386.0	(5,221.9 )	1,064.2
Less: Total comprehensive (income) loss attributable to noncontrolling interests	—	—	—	—	—	(36.3 )	23.3	(13.0 )
Total comprehensive income (loss) attributable to Ingersoll-Rand plc	\$1,051.2	\$880.6	\$860.9	\$922.0	\$185.4	\$2,349.7	\$ (5,198.6 )	\$1,051.2



Table of ContentsCondensed Consolidating Statement of Comprehensive Income  
For the year ended December 31, 2011

In millions	IR Ireland	IR Limited	IR International	IR Global Holding	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Net revenues	\$—	\$—	\$—	\$—	\$867.8	\$11,893.0	\$—	\$12,760.8
Cost of goods sold	—	—	—	—	(584.8 )	(8,695.2 )	—	(9,280.0 )
Selling and administrative expenses	(9.2 )	(0.1 )	—	(0.4 )	(276.7 )	(2,108.8 )	—	(2,395.2 )
Gain (loss) on sale/asset impairment	—	—	—	—	—	(646.9 )	—	(646.9 )
Operating income (loss)	(9.2 )	(0.1 )	—	(0.4 )	6.3	442.1	—	438.7
Equity earnings (loss) in affiliates, net of tax	358.8	614.8	757.5	653.0	116.0	595.2	(3,095.3 )	—
Interest expense	—	—	(15.7 )	(193.2 )	(50.7 )	(18.9 )	—	(278.5 )
Intercompany interest and fees	(2.5 )	—	(129.4 )	52.5	(117.9 )	197.3	—	—
Other, net	(3.9 )	(5.2 )	1.7	251.5	77.9	(33.5 )	(260.1 )	28.4
Earnings (loss) before income taxes	343.2	609.5	614.1	763.4	31.6	1,182.2	(3,355.4 )	188.6
Benefit (provision) for income taxes	—	—	—	—	18.9	(64.3 )	—	(45.4 )
Earnings (loss) from continuing operations	343.2	609.5	614.1	763.4	50.5	1,117.9	(3,355.4 )	143.2
Discontinued operations, net of tax	—	—	—	—	(69.3 )	295.4	—	226.1
Net earnings (loss)	343.2	609.5	614.1	763.4	(18.8 )	1,413.3	(3,355.4 )	369.3
Less: Net (earnings) loss attributable to noncontrolling interests	—	—	—	—	—	(35.5 )	9.4	(26.1 )
Net earnings (loss) attributable to Ingersoll-Rand plc	\$343.2	\$609.5	\$614.1	\$763.4	\$(18.8 )	\$1,377.8	\$(3,346.0 )	\$343.2
Total comprehensive income (loss)	114.3	380.6	615.3	757.1	(115.7 )	1,291.3	(2,902.8 )	140.1
Less: Total comprehensive (income) loss attributable to noncontrolling interests	—	—	—	—	—	(34.9 )	9.4	(25.5 )
Total comprehensive income (loss) attributable to Ingersoll-Rand plc	\$114.3	\$380.6	\$615.3	\$757.1	\$(115.7 )	\$1,256.4	\$(2,893.4 )	\$114.6

Table of ContentsCondensed Consolidating Balance Sheet  
December 31, 2013

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Current assets:								
Cash and cash equivalents	\$—	\$—	\$—	\$975.3	\$1,038.5	\$—	\$(76.6 )	\$1,937.2
Accounts and notes receivable, net	—	—	—	—	1,518.8	552.7	—	2,071.5
Inventories	—	—	—	—	846.2	319.9	—	1,166.1
Other current assets	0.1	—	—	0.2	607.3	(65.7 )	—	541.9
Accounts and notes receivable affiliates	1,086.9	309.6	2.3	1,496.6	2,368.3	15,729.2	(20,992.9 )	—
Total current assets	1,087.0	309.6	2.3	2,472.1	6,379.1	16,536.1	(21,069.5 )	5,716.7
Investment in affiliates	8,697.8	13,696.0	11,339.0	7,144.5	34,774.1	23,921.0	(99,572.4 )	—
Property, plant and equipment, net	—	—	—	—	1,088.8	379.6	—	1,468.4
Intangible assets, net	—	—	—	—	8,582.4	880.2	—	9,462.6
Other noncurrent assets	—	(4.3 )	0.3	18.8	689.5	306.1	—	1,010.4
Total assets	\$9,784.8	\$14,001.3	\$11,341.6	\$9,635.4	\$51,513.9	\$42,023.0	\$(120,641.9)	\$17,658.1
Current liabilities:								
Accounts payable and accruals	\$30.6	\$—	\$12.1	\$27.5	\$2,189.1	\$858.2	\$(76.6 )	\$3,040.9
Short-term borrowings and current maturities of long-term debt	—	—	—	—	354.2	13.5	—	367.7
Accounts and note payable affiliates	2,685.3	3,780.6	4,803.3	5,982.2	6,905.6	(3,082.0 )	(21,075.0 )	—
Total current liabilities	2,715.9	3,780.6	4,815.4	6,009.7	9,448.9	(2,210.3 )	(21,151.6 )	3,408.6
Long-term debt	—	—	299.8	2,295.7	557.5	0.5	—	3,153.5
Other noncurrent liabilities	—	—	3.8	—	3,749.3	211.6	—	3,964.7
Total liabilities	2,715.9	3,780.6	5,119.0	8,305.4	13,755.7	(1,998.2 )	(21,151.6 )	10,526.8
Equity:								
Total equity	7,068.9	10,220.7	6,222.6	1,330.0	37,758.2	44,021.2	(99,490.3 )	7,131.3
Total liabilities and equity	\$9,784.8	\$14,001.3	\$11,341.6	\$9,635.4	\$51,513.9	\$42,023.0	\$(120,641.9)	\$17,658.1

Table of ContentsCondensed Consolidating Balance Sheet  
December 31, 2012

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Current assets:								
Cash and cash equivalents	\$—	\$—	\$—	\$61.9	\$59.1	\$587.4	\$—	\$ 708.4
Accounts and notes receivable, net	—	—	—	—	128.8	1,741.3	—	1,870.1
Inventories	—	—	—	—	73.1	1,070.9	—	1,144.0
Other current assets	0.1	—	0.1	0.2	149.3	304.3	—	454.0
Accounts and notes receivable affiliates	148.9	3,039.2	2.0	2,189.0	8,669.5	23,772.0	(37,820.6 )	—
Assets held for spin-off	—	—	—	—	—	1,817.4	—	1,817.4
Total current assets	149.0	3,039.2	2.1	2,251.1	9,079.8	29,293.3	(37,820.6 )	5,993.9
Investment in affiliates	8,885.1	7,095.3	21,185.6	18,589.8	8,179.9	99,205.0	(163,140.7 )	—
Property, plant and equipment, net	—	—	—	0.2	254.0	1,171.9	—	1,426.1
Intangible assets, net	—	—	—	—	83.8	9,459.2	—	9,543.0
Other noncurrent assets	—	—	0.5	10.0	867.3	641.3	—	1,519.1
Total assets	\$9,034.1	\$10,134.5	\$21,188.2	\$20,851.1	\$18,464.8	\$139,770.7	\$(200,961.3)	\$ 18,482.1
Current liabilities:								
Accounts payable and accruals	\$70.5	\$—	\$4.0	\$46.0	\$420.2	\$2,290.5	\$—	\$ 2,831.2
Short-term borrowings and current maturities of long-term debt	—	—	—	600.0	350.5	12.4	—	962.9
Accounts and note payable affiliates	1,734.3	34.3	4,888.9	7,602.2	13,337.7	9,867.6	(37,465.0 )	—
Liabilities held for spin-off	—	—	—	—	—	531.8	—	531.8
Total current liabilities	1,804.8	34.3	4,892.9	8,248.2	14,108.4	12,702.3	(37,465.0 )	4,325.9
Long-term debt	—	—	299.7	1,404.4	364.7	197.7	—	2,266.5
Note payable affiliate	—	—	10,755.7	—	—	—	(10,755.7 )	—
Other noncurrent liabilities	—	4.3	3.8	—	1,620.0	3,032.3	—	4,660.4
Total liabilities	1,804.8	38.6	15,952.1	9,652.6	16,093.1	15,932.3	(48,220.7 )	11,252.8
Equity:								
Total equity	7,229.3	10,095.9	5,236.1	11,198.5	2,371.7	123,838.4	(152,740.6 )	7,229.3
Total liabilities and equity	\$9,034.1	\$10,134.5	\$21,188.2	\$20,851.1	\$18,464.8	\$139,770.7	\$(200,961.3)	\$ 18,482.1

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Table of ContentsCondensed Consolidating Statement of Cash Flows  
For the year ended December 31, 2013

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Net cash provided by (used in) continuing operating activities	\$(63.2)	\$(0.1 )	\$ (14.2 )	\$(196.7)	\$540.8	\$ 3,927.7	\$ (3,316.6 )	\$ 877.7
Net cash provided by (used in) discontinued operating activities	—	—	—	—	(78.5 )	371.2	—	292.7
Net cash provided by (used in) operating activities	(63.2 )	(0.1 )	(14.2 )	(196.7 )	462.3	4,298.9	(3,316.6 )	1,170.4
Cash flows from investing activities:								—
Capital expenditures	—	—	—	—	(151.9 )	(90.3 )	—	(242.2 )
Proceeds from sale of property, plant and equipment	—	—	—	—	11.2	13.1	—	24.3
Proceeds from business disposition, net of cash sold	—	—	—	—	—	4.7	—	4.7
Net cash provided by (used in) continuing investing activities	—	—	—	—	(140.7 )	(72.5 )	—	(213.2 )
Net cash provided by (used in) discontinued investing activities	—	—	—	—	—	(2.2 )	—	(2.2 )
Net cash provided by (used in) investing activities	—	—	—	—	(140.7 )	(74.7 )	—	(215.4 )
Cash flows from financing activities:								—
Net proceeds (repayments) in debt	—	—	—	291.2	(6.7 )	7.2	—	291.7
Debt issuance costs	—	—	—	(13.2 )	—	—	—	(13.2 )
Excess tax benefit from share based compensation	19.5	—	—	—	—	—	—	19.5
Net inter-company proceeds (payments)	(24.8 )	1,274.3	699.7	2,106.3	664.5	(4,720.0 )	—	—
Dividends paid to ordinary shareholders	(245.5 )	(1,274.2)	(685.5 )	(1,274.2)	—	(1.2 )	3,235.1	(245.5 )
Dividends paid to noncontrolling interests	—	—	—	—	—	(12.4 )	—	(12.4 )
Proceeds from shares issued under incentive plans	253.0	—	—	—	—	—	—	253.0
Repurchase of ordinary shares	(1,213.2)	—	—	—	—	—	—	(1,213.2 )
Transfer from Allegion	1,274.2	—	—	—	—	—	—	1,274.2
	63.2	0.1	14.2	1,110.1	657.8	(4,726.4 )	3,235.1	354.1

Net cash provided by (used in) continuing financing activities								
Net cash provided by (used in) discontinued financing activities	—	—	—	—	—	(12.4 )	4.9	(7.5 )
Net cash provided by (used in) financing activities	63.2	0.1	14.2	1,110.1	657.8	(4,738.8 )	3,240.0	346.6
Effect of exchange rate changes on cash and cash equivalents	—	—	—	—	—	(72.8 )	—	(72.8 )
Net increase (decrease) in cash and cash equivalents	—	—	—	913.4	979.4	(587.4 )	(76.6 )	1,228.8
Cash and cash equivalents - beginning of period	—	—	—	61.9	59.1	587.4	—	708.4
Cash and cash equivalents - end of period	\$—	\$—	\$ —	\$975.3	\$1,038.5	\$ —	\$ (76.6 )	\$ 1,937.2

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Table of ContentsCondensed Consolidating Statement of Cash Flows  
For the year ended December 31, 2012

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Net cash provided by (used in) continuing operating activities	\$(19.7 )	\$(0.4 )	\$(15.1 )	\$(570.5 )	\$(103.5 )	\$1,896.8	\$ (319.5 )	\$ 868.1
Net cash provided by (used in) discontinued operating activities	—	—	—	—	(18.3 )	331.2	—	312.9
Net cash provided by (used in) operating activities	(19.7 )	(0.4 )	(15.1 )	(570.5 )	(121.8 )	2,228.0	(319.5 )	1,181.0
Cash flows from investing activities:								
Capital expenditures	—	—	—	—	(74.9 )	(168.2 )	—	(243.1 )
Proceeds from sale of property, plant and equipment	—	—	—	—	3.1	14.8	—	17.9
Proceeds from business disposition, net of cash sold	—	—	—	—	—	52.7	—	52.7
Dividends received from equity investments	—	—	—	—	—	44.3	—	44.3
Net cash provided by (used in) continuing investing activities	—	—	—	—	(71.8 )	(56.4 )	—	(128.2 )
Net cash provided by (used in) discontinued investing activities	—	—	—	—	—	(18.3 )	—	(18.3 )
Net cash provided by (used in) investing activities	—	—	—	—	(71.8 )	(74.7 )	—	(146.5 )
Cash flows from financing activities:								
Net proceeds (repayments) in debt	—	—	—	(344.5 )	(9.2 )	(59.7 )	—	(413.4 )
Debt issuance costs	—	—	—	(2.5 )	—	—	—	(2.5 )
Excess tax benefit from share based compensation	19.6	—	—	—	—	—	—	19.6
Net inter-company proceeds (payments)	884.5	0.4	15.1	737.6	184.1	(1,821.7 )	—	—
Dividends paid to ordinary shareholders	(192.4 )	—	—	—	—	(314.0 )	314.0	(192.4 )
Dividends paid to noncontrolling interests	—	—	—	—	—	(13.9 )	—	(13.9 )
Acquisition/divestiture of noncontrolling interests	(0.4 )	—	—	—	—	(1.1 )	—	(1.5 )
Proceeds from shares issued under incentive plans	152.9	—	—	—	—	—	—	152.9
Repurchase of ordinary shares	(839.8 )	—	—	—	—	—	—	(839.8 )
Transfer from discontinued operations	—	—	—	—	—	—	—	—
Other, net	(4.7 )	—	—	—	—	—	—	(4.7 )

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Net cash provided by (used in) continuing financing activities	19.7	0.4	15.1	390.6	174.9	(2,210.4 )	314.0	(1,295.7 )
Net cash provided by (used in) discontinued financing activities	—	—	—	—	—	(13.7 )	5.5	(8.2 )
Net cash provided by (used in) financing activities	19.7	0.4	15.1	390.6	174.9	(2,224.1 )	319.5	(1,303.9 )
Effect of exchange rate changes on cash and cash equivalents	—	—	—	—	—	(9.2 )	—	(9.2 )
Net increase (decrease) in cash and cash equivalents	—	—	—	(179.9 )	(18.7 )	(80.0 )	—	(278.6 )
Cash and cash equivalents - beginning of period	—	—	—	241.8	77.8	667.4	—	987.0
Cash and cash equivalents - end of period	\$—	\$—	\$ —	\$ 61.9	\$ 59.1	\$ 587.4	\$ —	\$ 708.4

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## Condensed Consolidating Statement of Cash Flows

For the year ended December 31, 2011

In millions	IR Ireland	IR Limited	IR International	IR Global	IR New Jersey	Other Subsidiaries	Consolidating Adjustments	IR Ireland Consolidated
Net cash provided by (used in) continuing operating activities	\$ (13.1 )	\$ (5.3 )	\$ (14.0 )	\$ (185.3 )	\$ 133.2	\$ 892.3	\$ (21.5 )	\$ 786.3
Net cash provided by (used in) discontinued operating activities	—	—	—	—	(69.3 )	469.8	—	400.5
Net cash provided by (used in) operating activities	(13.1 )	(5.3 )	(14.0 )	(185.3 )	63.9	1,362.1	(21.5 )	1,186.8
Cash flows from investing activities:								
Capital expenditures	—	—	—	—	(47.6 )	(169.5 )	—	(217.1 )
Acquisition of businesses, net of cash acquired	—	—	—	—	—	(1.9 )	—	(1.9 )
Proceeds from sale of property, plant and equipment	—	—	—	—	3.1	45.4	—	48.5
Proceeds from business disposition, net of cash sold	—	—	—	—	—	400.3	—	400.3
Net cash provided by (used in) continuing investing activities	—	—	—	—	(44.5 )	274.3	—	229.8
Net cash provided by (used in) discontinued investing activities	—	—	—	—	—	(22.3 )	—	(22.3 )
Net cash provided by (used in) investing activities	—	—	—	—	(44.5 )	252.0	—	207.5
Cash flows from financing activities:								
Net proceeds (repayments) in debt	—	—	—	(0.2 )	(7.7 )	(44.9 )	—	(52.8 )
Debt issuance costs	—	—	—	(2.3 )	—	—	—	(2.3 )
Excess tax benefit from share based compensation	—	—	—	—	11.8	12.8	—	24.6
Net inter-company proceeds (payments)	1,199.0	5.3	2.0	329.7	(81.2 )	(1,454.8 )	—	—
Dividends paid to ordinary shareholders	(137.3 )	—	—	—	—	(12.5 )	12.5	(137.3 )
Dividends paid to noncontrolling interests	—	—	—	—	—	(20.8 )	—	(20.8 )
Acquisition/divestiture of noncontrolling interests	—	—	—	—	—	(1.3 )	—	(1.3 )
Proceeds from shares issued under incentive plans	109.0	—	—	—	—	—	—	109.0
Repurchase of ordinary shares	(1,157.5 )	—	—	—	—	—	—	(1,157.5 )
Other, net	(0.5 )	—	—	—	—	(0.9 )	—	(1.4 )
Net cash provided by (used in) continuing financing activities	12.7	5.3	2.0	327.2	(77.1 )	(1,522.4 )	12.5	(1,239.8 )
Net cash provided by (used in) discontinued financing activities	—	—	—	—	—	(15.6 )	9.0	(6.6 )

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Net cash provided by (used in) financing activities	12.7	5.3	2.0	327.2	(77.1 )	(1,538.0 )	21.5	(1,246.4 )
Effect of exchange rate changes on cash and cash equivalents	—	—	—	—	—	(1.5 )	—	(1.5 )
Net increase (decrease) in cash and cash equivalents	(0.4 )	—	(12.0 )	141.9	(57.7 )	74.6	—	146.4
Cash and cash equivalents - beginning of period	0.4	—	12.0	99.9	135.5	592.8	—	840.6
Cash and cash equivalents - end of period	\$—	\$—	\$ —	\$ 241.8	\$ 77.8	\$ 667.4	\$ —	\$ 987.0

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SCHEDULE II  
 INGERSOLL-RAND PLC  
 VALUATION AND QUALIFYING ACCOUNTS  
 FOR THE YEARS ENDED December 31, 2013, 2012 AND 2011  
 (Amounts in millions)

## Allowances for Doubtful Accounts:

Balance December 31, 2010	\$36.4	
Additions charged to costs and expenses	11.7	
Deductions*	(23.9)	)
Business acquisitions and divestitures, net	(0.2)	)
Currency translation	(0.3)	)
Balance December 31, 2011	23.7	
Additions charged to costs and expenses	13.7	
Deductions*	(12.8)	)
Currency translation	(0.6)	)
Other	0.8	
Balance December 31, 2012	24.8	
Additions charged to costs and expenses	20.8	
Deductions*	(9.7)	)
Business acquisitions and divestitures, net	(7.2)	)
Currency translation	(0.5)	)
Other	7.2	
Balance December 31, 2013	\$35.4	

(\*) “Deductions” include accounts and advances written off, less recoveries.