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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549**

**FORM 8-K**

**CURRENT REPORT  
Pursuant to Section 13 or 15(d) of the  
Securities Exchange Act of 1934**

Date of report (Date of earliest event reported): October 2, 2018

**INGERSOLL-RAND PUBLIC LIMITED COMPANY**

(Exact Name of Registrant as Specified in Its Charter)

**Ireland**  
(State or Other Jurisdiction  
of Incorporation)

**001-34400**  
(Commission  
File Number)

**98-0626632**  
(IRS Employer  
Identification No.)

**170/175 Lakeview Dr.  
Airside Business Park  
Swords, Co. Dublin  
Ireland**

(Address of principal executive offices, including zip code)

**+(353) (0) 18707400**

(Registrant's Telephone Number, Including Area Code)

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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**Item 7.01 Regulation FD Disclosure.**

On October 2, 2018, the Board of Directors of Ingersoll-Rand plc (the “Company”) authorized a new share repurchase program of up to \$1.5 billion of the Company’s ordinary shares to commence upon the completion of the Company’s current \$1.5 billion program which was adopted in February 2017.

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## SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**INGERSOLL-RAND PUBLIC LIMITED COMPANY**  
(Registrant)

Date: October 3, 2018    /s/ Evan M. Turtz  
Evan M. Turtz  
Secretary