



High-Efficiency Small Cycling Dryers

10-250 scfm (17-255 m³/hr)

Smart Energy Savings

Reducing the use of climate-damaging hydrofluorocarbons in line with the American Innovation and Manufacturing Act, Ingersoll Rand proudly presents its high-efficiency refrigerated dryers. Our products are equipped with R-513a refrigerant, boasting a zero Ozone Depletion Potential (ODP) to help increase cost savings while playing a crucial role in reducing the emission of harmful greenhouse gases.

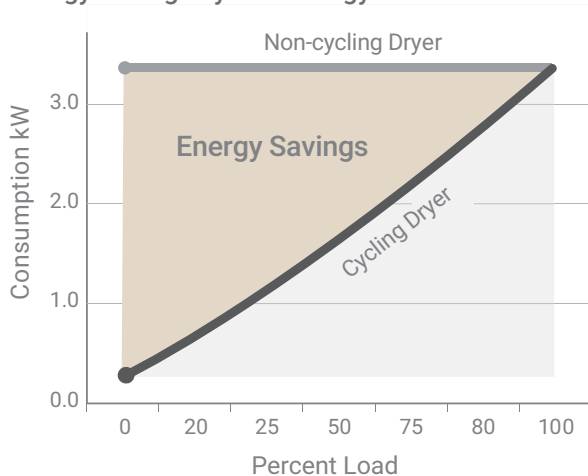
Ingersoll Rand has been making dryers for more than fifty years, and that experience shows in our products. We've tested them thoroughly to make sure they're reliable and easy to use.

Engineered to Perform

The Ingersoll Rand high-efficiency small cycling dryer design helps you achieve optimal performance at a lower cost compared to a non-cycling design. To reduce energy consumption, the dryer's refrigeration system automatically deactivates during periods of low load and features a patented heat exchanger and thermal mass circuit.



Energy Savings by Technology



A Legacy of Dependability

Building upon extensive dryer experience, Ingersoll Rand incorporates advanced features into each dryer, such as microprocessor control, a highly efficient refrigeration system, a heavy duty drain and robust construction that enhance performance and provide maximum reliability.

Enhanced Operational Efficiency

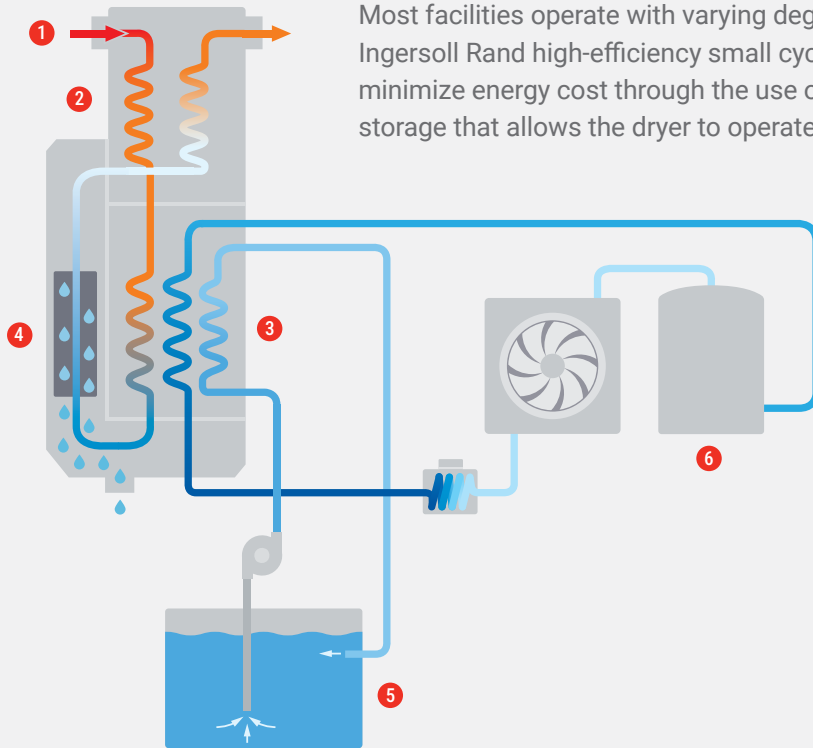
With innovative features like our energy-conserving heat exchanger and intuitive microprocessor control, we elevate the efficiency of your compressed air system and improve the quality of air delivered.



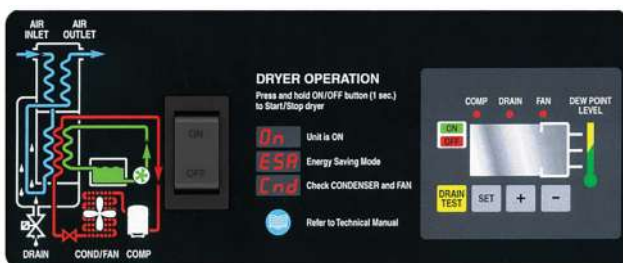
Discover which energy saving dryer works best for your business

How Cycling Refrigerated Dryers Save Energy

Most facilities operate with varying degrees of compressed air usage. Ingersoll Rand high-efficiency small cycling dryers are designed to minimize energy cost through the use of thermal mass, cold energy storage that allows the dryer to operate only as needed.



- 1 Compressed air enters the dryer through the heat exchanger
- 2 Air is cooled by cold outgoing air in the pre-cooler/re-heater
- 3 Circulating glycol cools the compressed air, allowing the refrigerant compressor to turn-off during low demands
- 4 A moisture separator removes the condensed liquid, which is purged from the dryer using a solenoid drain
- 5 Thermal mass cold energy storage reduces compressor run time, saving energy
- 6 Refrigerant compressor runs only as needed during high demand



Intuitive Advanced Control

Our easy-to-use controller provides operational status and complete control over all dryer functions, optimizing energy use.

Elevate Your Efficiency with the D-EC Series

Dive into a new era of operational excellence with our cutting-edge D-EC Series for a more efficient and smarter way to dry compressed air. These models feature refrigeration enhancements including a patented 3-in-1 heat exchanger that boosts operating efficiency.

- **Efficiency Gains**

Slash pressure drop by up to 46%, power use by up to 27.3%, and refrigerant charge by 17.9%. Embrace an 84% reduction in Global Warming Potential with the eco-friendly R513A refrigerant

- **Space-Saving Design**

Compact size, with up to 18% reduction in footprint

- **Easy Access**

Quick maintenance with accessible critical components

- **Simple Power Connection**

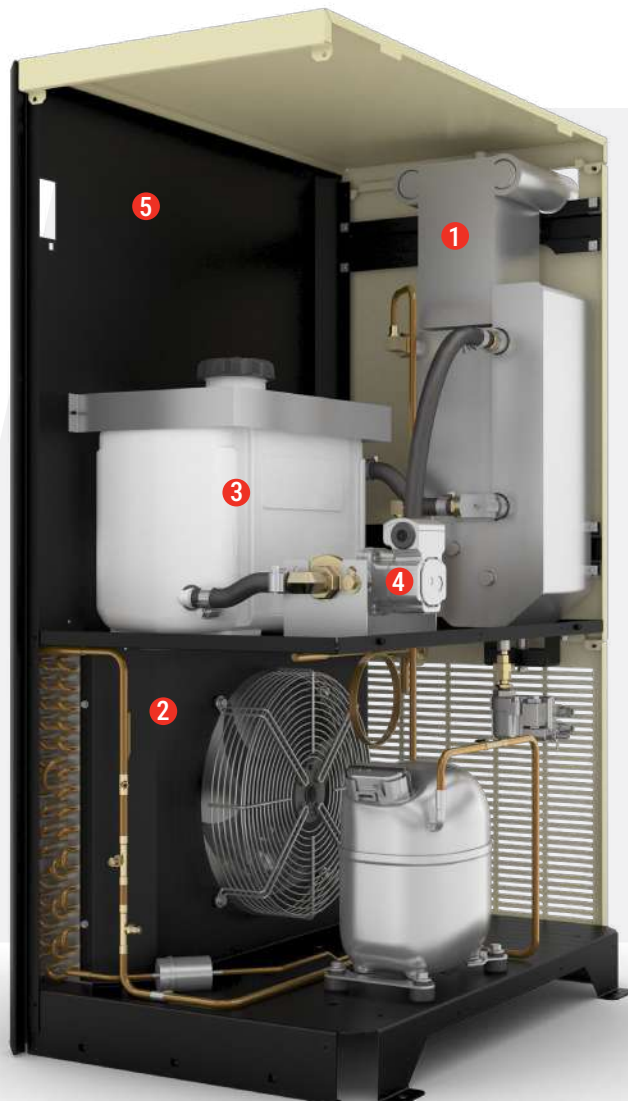
Power cord (10-150 cfm models) or built in junction box (200-250 cfm models)

- **Easy to Clean**

Condenser design simplifies regular maintenance

Proven Components

Rely on our durable construction to provide a long-lasting supply of clean, dry compressed air.



- 1 **3-in-1 Heat Exchanger**

A tested design that delivers reliable results

- 2 **Enhanced Condenser**

Optimized for peak efficiency with a larger size and high-performance fan (200-250 cfm models).

- 3 **Thermal Mass Storage Tank**

Stores glycol used to cool compressed air

- 4 **EC Pump**

Meets new DOE standards with cutting-edge pump technology

- 5 **Safety Certified**

Third party certified to UL 60335-1, UL 60335-2-40, CSA 22.2 #60335-1, and CSA 22.2 #60335-2-40

High-Efficiency Small Cycling Dryer Performance Specifications

| Model | Flow Rate scfm | In/Out Air Connection | Pressure Drop psid | Dimensions (W x D x H) in | Power Supply V/ph/Hz | Weight lb |
|---------|-------------------|--------------------------|-----------------------|------------------------------|-------------------------|--------------|
| DB17EC | 10 | 1/2" FPT | 0.46 | 19.69 x 15.19 x 26.50 | 115/1/60 | 130 |
| DB31EC | 18 | 1/2" FPT | 0.80 | 19.69 x 15.19 x 26.50 | 115/1/60 | 130 |
| DB43EC | 25 | 1/2" FPT | 1.22 | 19.69 x 15.19 x 26.50 | 115/1/60 | 135 |
| DB59EC | 35 | 1/2" FPT | 2.10 | 19.69 x 15.19 x 26.50 | 115/1/60 | 140 |
| DB85EC | 50 | 3/4" FPT | 0.77 | 19.69 x 15.19 x 26.50 | 115/1/60 | 145 |
| DB127EC | 75 | 1" FPT | 1.38 | 22.44 x 16.63 x 30.38 | 115/1/60 | 175 |
| DB170EC | 100 | 1" FPT | 2.36 | 22.44 x 16.63 x 30.38 | 115/1/60, 230/1/60 | 180 |
| DB212EC | 125 | 1" FPT | 3.56 | 22.44 x 16.63 x 30.38 | 115/1/60, 230/1/60 | 185 |
| DB255EC | 150 | 1.5" FPT | 1.80 | 19.60 x 30.30 x 37.5 | 115/1/60, 230/1/60 | 263 |
| DA340EC | 200 | 1.5" FPT | 1.90 | 22.91 x 32.52 x 49.25 | 230/3/60, 460/3/60 | 490 |
| DA420EC | 250 | 1.5" FPT | 2.10 | 22.91 x 32.52 x 49.25 | 230/3/60, 460/3/60 | 490 |



Model DA340EC



General purpose and high efficiency filters are included to protect the dryer and your downstream processes.



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