



CYCLING AND NON-CYCLING

Refrigerated Air Dryers

7–1,600 scfm

12–2,700 m³/hr



Clean, Dry Air Customized for Your Operation

Moisture and contamination in compressed air can cause significant problems in equipment operation, such as rust, scale and clogged orifices resulting in product damage or costly shutdowns.

Our high-quality refrigerated air dryers will improve productivity, system efficiency and product quality by providing clean, dry air for most industrial applications.



The Right Dryer for the Way You Work

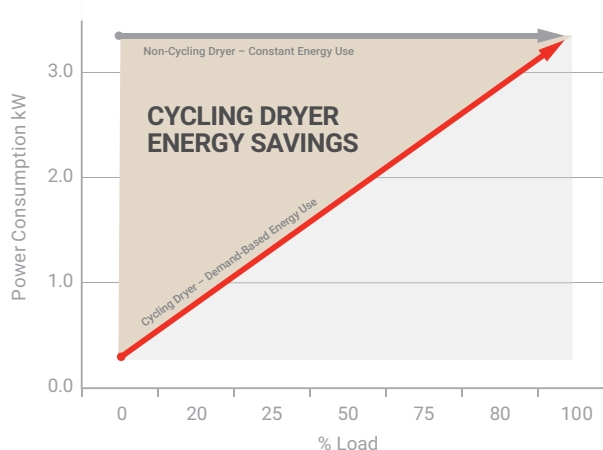
Cycling Dryers

High-efficiency cycling dryers help you achieve optimal performance at a lower operating cost compared to non-cycling dryers. To reduce energy consumption, the dryer's refrigeration system automatically deactivates during periods of low load.

Non-Cycling Dryers

Non-cycling dryers are best for continuous operation where compressed air demand is relatively constant. With a reliable, straightforward design, non-cycling dryers lower upfront costs compared to cycling dryers and other dryer technologies.

Energy Use Comparison by Technology



FEATURE	CYCLING DRYER	NON-CYCLING DRYER
Operating Mode	Variable Depending on Load	Constant @ 100% Load
Total Cost of Ownership	Lower	Higher
Energy Consumption	Lower	Higher
Initial Cost	Higher	Lower
Design	More Complex	Simplified
Maintenance Cost	Slightly Higher	Slightly Lower



What Makes Our Refrigerated Dryers Unique

Take advantage of advanced dryer products designed to deliver greater value through lower energy use, reduced operating costs and maximized uptime.

BENEFITS OF REFRIGERATED DRYERS	
INCREASED SUSTAINABILITY 	Use eco-friendly refrigerants that reduce Global Warming Potential (GWP) by more than 50% as compared to older offerings.
REDUCED OPERATING COSTS 	Easy-to-reach components and space-saving designs enhance serviceability and simplify installation.
LOWER ENERGY USE 	Advanced controllers, lower pressure drop and efficient heat exchanger designs will lower your energy bill.
MAXIMIZED UPTIME 	High-quality, fully tested components and compliance with relevant safety certifications give you peace of mind.

Designed
for Your Application





D-EC Cycling Dryers, 10–250 scfm

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.

- **Efficiency Gains**

Reduce pressure drop by up to 46%, power use by up to 27.3% and refrigerant charge by 17.9%

- **Next Generation Sustainability**

Embrace an 84% reduction in GWP with eco-friendly R513A refrigerant

- **Space-Saving Design**

Compact size with up to 18% reduction in footprint

- **Quick Maintenance**

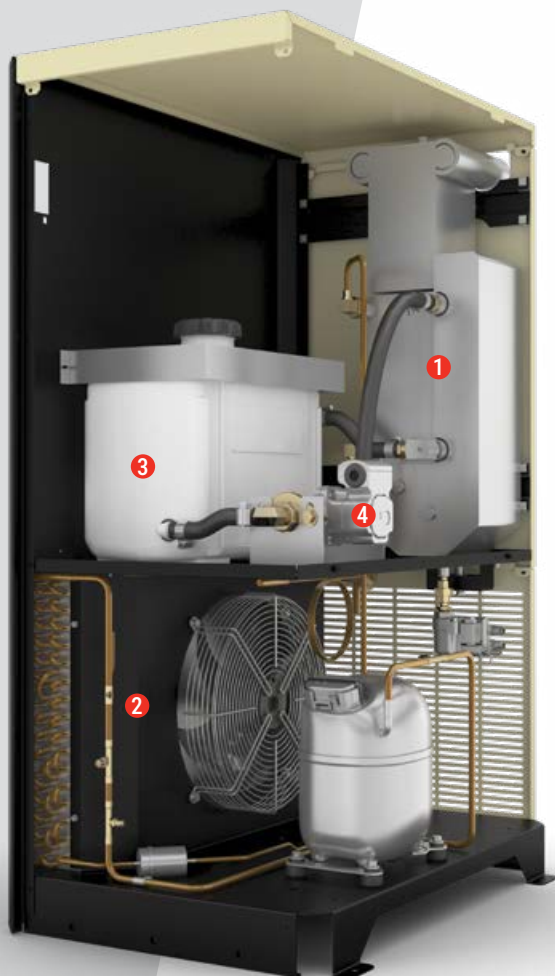
Easy access to critical components

- **Simple Power Connection**

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

- **Meets Global Safety Standards**

Certified to UL 60335-1, UL 60335-2-40, CSA C22.2 No. 60335-1 and CSA C22.2 No. 60335-2-40



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 **Easy-to-Clean Enhanced Condenser**

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

- 3 **Thermal Mass Cold Storage Tank**

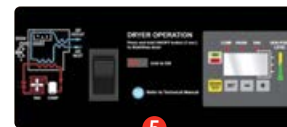
Stores glycol used to cool compressed air

- 4 **EC Pump**

Meets new Department of Energy (DOE) standards with cutting-edge pump technology

- 5 **Smart Control**

Intuitive smart controller provides complete control over all dryer functions allowing for easy management of system parameters



Learn more about our D-EC cycling dryers



D-NVC Cycling Dryers, 300–1,600 scfm

Our D-NVC Series of high-efficiency cycling dryers delivers sustainable, reliable air treatment that drives measurable customer value. Designed to align with new EPA regulations, these dryers incorporate cutting-edge technology that promotes eco-friendly operation.



- **Next Generation Sustainability**

Uses R513A (up to 800 scfm) and R454B refrigerants to lower GWP and reduce refrigerant charge by up to 45%—without sacrificing performance

- **Lower Energy Costs**

Thermal mass cycling design provides up to 35% savings (500–800 scfm) and up to 50% savings (1,000–1,600 scfm) for improved system efficiency

- **Consistent Performance**

NPT connections simplify system tie-in, 115 V configurations come with plugs and 75–250 scfm units include ship-loose pre- and post-filtration

- **Meets Global Safety Standards**

Certified to UL 60335-1, UL 60335-2-40, CSA C22.2 No. 60335-1 and CSA C22.2 No. 60335-2-40

Proven Components

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

- 1 **Efficient Cycling Design**

Dryer automatically deactivates during periods of low load to increase energy cost savings

- 2 **Patented 5-in-1 Heat Exchanger**

Compact design that reduces footprint and simplifies installation

- 3 **Smart Control**

Intuitive controller provides complete control over all dryer functions allowing for easy management of system parameters

- 4 **Integrated Pre- and Post-filtration**

Protects dryer and downstream processes while reducing footprint

- 5 **Air-Cooled and Water-Cooled Options**

Get the best fit for your facility



 Learn more about our D-NVC cycling dryers



DA-IN Non-Cycling Dryers, 7–800 scfm

A cost-effective solution for diverse industries, the DA-IN Series seamlessly integrates into new and existing systems with a variety of models for auto body shops, paint booths, textiles, oil & gas, plastics, metalworking and woodworking.



- **Low GWP**
R513A refrigerant is environmentally friendly and aligns with industry regulatory changes
- **Efficient Operation**
Low pressure drop improves energy efficiency, reducing operational costs
- **Proven Performance**
High-quality components and extensive factory testing ensures reliable performance, minimizing downtime

- **Plug-and-Play Installation**
NPT connections simplify system tie-in, 115 V configurations come with plugs, and 75–250 scfm units include ship-loose pre- and post-filtration
- **Meets Global Safety Standards**
Certified to UL 60335-1, UL 60335-2-40, CSA C22.2 No. 60335-1 and CSA C22.2 No. 60335-2-40



Learn more about our DA-IN 7-250 scfm dryers

Proven Components

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



- 1 **Simplified Design**
Plug-and-play operation and easy to reach components enhance serviceability
 - 2 **Efficient Cooling**
Variable speed fans ensure a consistent dew point and reduce power consumption
 - 3 **Smart Control***
Advanced microprocessor lets you easily adjust and manage system parameters
 - 4 **High-quality Heat Exchanger***
Aluminum construction with brazing connections enhances durability and efficiency
- **Pre- and Post-filtration* (not shown)**
High efficiency filters protect the dryer and your downstream processes



Learn more about our DA-IN 300-800 scfm dryers

*Integrated in 300-800 scfm models, shipped with 25-250 scfm models



DA-IT Non-Cycling Dryers, 15–100 scfm

Engineered for high-demand environments, the DA-IT Series delivers reliable moisture removal at high inlet temperatures using eco-friendly R513A refrigerant. With multi-stage cooling, smart controls, and UL-certified safety, it's the smart choice for sustainable performance.

- **High-Ambient Temperature Design**

Designed for high inlet conditions up to 200°F with robust testing

- **Ease of Installation**

Compact design featuring integrated pre-cooling, wired 115 V plugs, NPT connections and automatic condensate drains for simplified installation and set up

- **Integrated Filtration**

Built-in inlet filtration for additional reliability and downstream protection (60–100 scfm models only)

- **Low GWP Refrigerant**

Features eco-friendly R513A refrigerant

- **Versatility**

Available in 6 sizes (15–100 scfm)



Learn more about high-inlet temperature dryers

Model Specifications

Cycling Dryer Performance Specifications

Model	Flow Rate scfm (m ³ /hr)	Refrigerant
D-EC Series	10–250 (17–420)	R513A
D-NVC Series	300–800 (510–1,360)	R513A
D-NVC Series	1,000–1,600 (1,700–2,700)	R454B

Non-Cycling Dryer Performance Specifications

DA-IN Series	7–250 (12–420)	R513A
DA-IN Series	300–800 (510–1,360)	R513A
DA-IT Series	15–100 (26–170)	R513A



Proactive Maintenance and Support

A proper maintenance strategy is crucial to avoiding downtime and production interruptions. By choosing a CARE maintenance agreement, you are investing in your future with a trusted partner. We can customize a program that best fits your needs, from total risk transfer of your equipment to Ingersoll Rand to a more basic program for parts and services only.



CARE SERVICES PROGRAM

	Preferred OEM Parts Pricing	Equipment Inspection & Diagnostics	Scheduled Maintenance Service	Operational Risk Transfer
 Package CARE™ A fixed cost, no surprises service agreement designed to eliminate the inconvenience associated with maintaining and servicing your compressed air system.				
 Planned CARE™ A cost-effective plan for scheduling and executing all required compressed air equipment services over the course of a year.				
 Parts CARE™ A service program that includes automated shipments of, or reminders to, deliver OEM parts at an agreed upon price, to keep the compressor operating as efficiently as possible.				

 **Protect Your Air System with CARE**



F-Series Filters

F-Series advanced in-line filters help protect critical processes and valuable equipment by reducing contamination in your compressed air stream. Rigorously tested and engineered with premium components, F-Series filters provide years of reliable performance and high-quality air.

- **Element Life Indicator**
Patented dual indicator shows differential pressure drop and operating efficiency
- **Rugged Design**
All-aluminum, precision die cast body suitable for 176°F and 250 psig MAWP applications
- **Reliable Operation**
Filter element with stainless steel mesh withstands high pressure and minimizes flow restriction
- **Easy Maintenance**
Ergonomic, no-touch bowl design enhances safety and simplifies maintenance
- **Long Element Life**
Innovative media coating technology protects against corrosion and increases lifespan

4 Filtration Grades Available

- High Efficiency
- General Purpose
- Dust Particulate
- Activated Carbon



Learn which F-Series filter is most suited to your application

Condensation Management

No-Loss Drains

No-loss drain valves offer reliable condensate removal from your compressed air process with true zero loss functionality. Choose from electronic or magnetic options when there is no available power to best fit your application.



Oil Water Separators

Our efficient oil water separators withdraw and permanently adsorb all lubricants, especially highly emulsified ones like polyglycols that are difficult to separate without the use of expensive, oversized separators.



See our condensation management solutions





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