Large Cycling Refrigerated Dryers

3,000-40,000 m³/hr (1,800-24,000 cfm)

Ingersoll Rand large capacity refrigerated dryers deliver outstanding value by providing high-quality compressed air, reliably and efficiently. Our innovative design lowers energy use, reduces carbon footprint and saves floorspace.

Space-Saving Design

With expanded drying capacity and an integrated pre-filter, Ingersoll Rand large capacity refrigerated dryers have a smaller footprint to simplify your installation and free up valuable floorspace in your manufacturing operation.

Maximum Reliability

Complete ISO Class 2-4-3 protection provides the reliability you need. With integrated pre-filters and redundant no-loss drains closely monitored by a smart controller, you'll realize superior uptime.

Learn More
See the Details on Our New Refrigerated Dryers

Increased Sustainability

Advanced refrigeration circuitry, as well as meeting global requirements to reduce the use of high Global Warming Potential (GWP) substances, will help to reduce your carbon footprint and support your sustainability goals well into the future.

Lower Energy Costs

Ingersoll Rand's patent pending large capacity heat exchanger (LCX) delivers significant efficiency gains, proven to reduce energy costs by as much as 50%.

Innovation that Drives Efficiency

At the heart of Ingersoll Rand's large capacity refrigerated dryers is the patent pending LCX large capacity heat exchanger. Using advanced modeling and simulation software tools, the heat exchanger's performance is optimized to deliver unprecedented performance that significantly lowers energy costs. Improvements include:

- **18-58% energy efficiency improvement**
- **25% greater flow capacity**
- **Over 1,000% improved thermal conductivity**

The innovative LCX heat exchanger offers significant energy efficiency gains while increasing overall drying capacity, reducing energy use and dryer footprint

Innovative Features that Mean Greater Savings for You

- Precision-balanced, high-pressure refrigerant circuit using R410A refrigerant with greater cooling capacity
- Efficient scroll compressors suitable for high-pressure refrigerants
- Micro-channel condensers with greater surface area and increased cooling capacity

DRAMATICALLY REDUCED CARBON FOOTPRINT

A Commitment to Sustainability

Sustainability is at the core of the large capacity refrigerated dryer's development, dramatically reducing the impact to carbon footprint:

- **47% lower Global Warming Potentia**l (GWP) by using R410A refrigerant to replace R404A
- **Over 45% less charge** required from the high-pressure refrigerant circuit
- **18-58% less less energy consumed** through dryer efficiency improvements

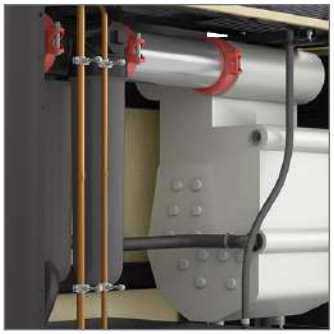
This exceeds the requirements set forth by the Montreal Protocol, an international agreement to reduce the use of high-GWP substances.

Choosing the Right Dryer for You

Our large capacity refrigerated dryers are available in cycling and non-cycling versions. Cycling dryers adjust operation based on demand to reduce energy consumption, while non-cycling dryers maintain steady operation regardless of demand. Typically, cycling dryers have a lower operating cost, while non-cycling dryers have a lower initial cost.

View Products
See Our Entire Portfolio of Refrigerated Dryers

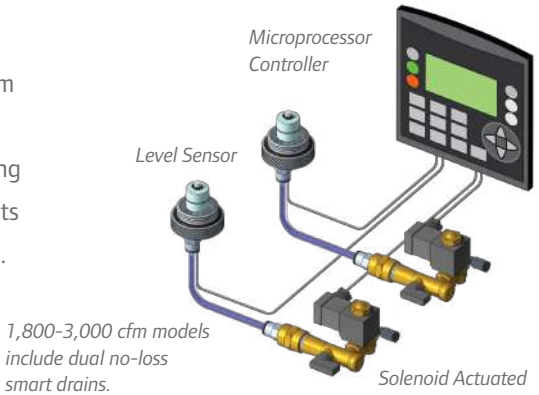
Built-in Reliability



Ingersoll Rand's large capacity refrigerated dryers come standard with an integrated pre-filter that increases compressed air system reliability by providing complete ISO protection (Class 2-4-3) against particulate, oil and water contaminates. In addition, the integrated differential pressure switch ensures optimal dryer performance and identifies the precise time to perform routine maintenance.

The dryer comes equipped with a next generation controller that has expanded I/O for continuous health monitoring of the dryer.

Often overlooked, a dryer's drain is critical to performance. Our 1,800-3,000 cfm models are equipped with new no-loss dual smart drains that are operated and monitored by the controller to maximize uptime. It features self-blockage clearing technology and built-in back-up for secure, continuous operation. Multiplex units are equipped with a standard smart PNLD drain to offer even greater protection.



Free Up Valuable Floorspace

The integrated pre-filter and greater flow capacity provided by the LCX heat exchanger means more cfm/ft^2, reducing the floorspace required for your compressed air treatment. Maximize your manufacturing space and make the most out of your operation.

The Multiplex Advantage

For requirements over 3,000 scfm (5,000 m^3/hr), our large capacity refrigerated dryers consist of multiple, independent air treatment modules, each with its own controls and refrigeration system, for cycling dryers sharing a central thermal mass cold storage medium. The modular design creates many operating advantages:

- **Efficient, no-fail operation:** Independent refrigeration system, controls, pumps and drains create redundancy
- **Robust Reliability:** An innovative multiplex sequencer balances the operating hours of each module to achieve uniform wear of the refrigeration system that reduces lifecycle cost
- **No back-up required:** Perform maintenance on one module while the other modules continue to operate; in addition, multiplex dryers use a single point connection
- **Simplified installation:** Factory assembled to minimize field installation costs, and designed to simplify future capacity expansion
- **Serviceability:** The modular design provides easy access to components, and there is no need to disassemble the entire unit while performing maintenance

Ingersoll Rand Cycling Refrigerated Dryers 60 Hz Performance									
Model	Flow Rate m^3/hr	Flow Rate cfm	Connect Size in	Air-Cooled Operating kW	Water-Cooled Operating kW	Dimensions (Width x Depth x Height) mm	Dimensions (Width x Depth x Height) in	Weight kg	Weight lb
DA3000NVC	3,000	1,800	6	5.1	6.6	864 x 2,324 x 2,362	34 x 91.5 x 93	1,363	3,006
DA4000NVC	4,000	2,400	6	13.0	8.2	864 x 2,324 x 2,362	34 x 91.5 x 93	1,432	3,156
DA5000NVC	5,000	3,000	6	14.7	10.1	864 x 2,324 x 2,362	34 x 91.5 x 93	1,478	3,259
DA6000NVC	6,000	3,600	8	10.4	13.4	2,070 x 2,527 x 2,489	81.5 x 99.5 x 98	2,532	5,581
DA8000NVC	8,000	4,800	8	26.3	16.7	2,070 x 2,527 x 2,489	81.5 x 99.5 x 98	2,698	5,948
DA10000NVC	10,000	6,000	10	29.7	20.5	2,070 x 2,527 x 2,489	81.5 x 99.5 x 98	2,949	6,502
DA12000NVC	12,000	7,200	10	39.4	25.0	2,946 x 2,527 x 2,642	116 x 99.5 x 104	3,989	8,793
DA15000NVC	15,000	9,000	12	44.4	30.6	2,921 x 2,527 x 2,667	115.5 x 99.5 x 105	4,694	10,349
DA20000NVC	20,000	12,000	14	59.1	40.7	3,810 x 2,527 x 2,680	150 x 99.5 x 105.5	6,524	14,382
DA25000NVC	25,000	15,000	14	73.8	50.8	4,572 x 2,527 x 2,680	180.5 x 99.5 x 105.5	7,720	17,019
DA30000NVC	30,000	18,000	16	88.5	60.9	5,537 x 2,527 x 2,705	218 x 99.5 x 106.5	8,893	19,605
DA35000NVC	35,000	21,000	16	103.2	71.0	6,401 x 2,565 x 2,705	252 x 101 x 106.5	10,605	23,381
DA40000NVC	40,000	24,000	16	118.0	81.1	7,264 x 2,565 x 2,705	286 x 101 x 106.5	12,218	26,936

CARE Maintenance Programs

Reliability for Life

Compressed air is critical to your operation. A proper maintenance strategy is crucial to avoiding unplanned, unbudgeted downtime and production interruptions. By choosing an Ingersoll Rand CARE maintenance service program — from full risk transfer to routine maintenance or parts coverage — you are investing in your future with a trusted global partner.

PackageCARE
We Protect You

Find the Best CARE Plan for You
Answer 7 Questions to Find Out!

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