Gardner Denver

LARGE REFRIGERATED DRYERS | 1,800–24,000 CFM

X Series

X Series: NeXt-Generation Gardner Denver Air Treatment

LARGE REFRIGERATED DRYER BENEFITS

Space-Saving Design

With expanded drying capacity and an integrated pre-filter, Gardner Denver 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.

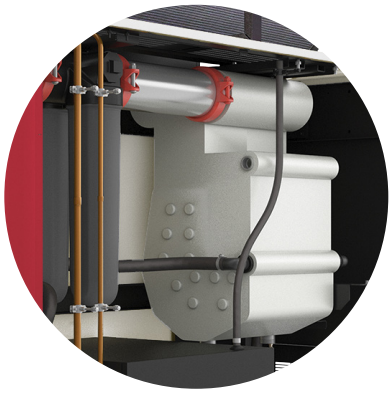
Increased Sustainability

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

Gardner Denver's patent pending large capacity heat exchanger delivers significant efficiency gains, proven to reduce energy costs by as much as 50%.

Built-in Reliability



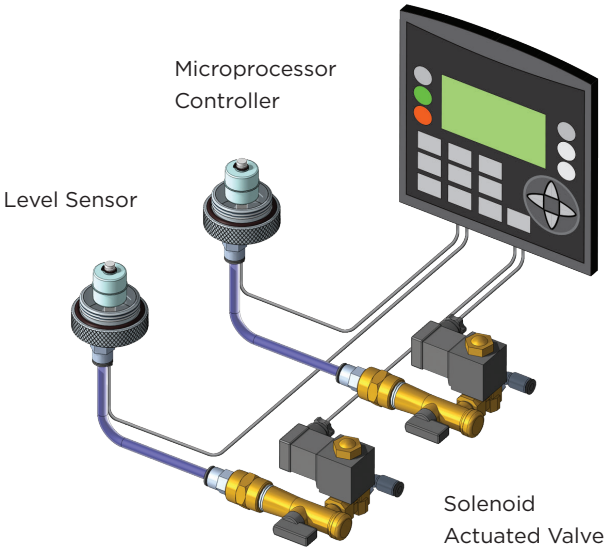
Gardner Denver's large capacity refrigerated dryers come standard with an integrated pre-filter that increases compressed air system reliability by providing complete ISO protection (Class 2-4-3) against particulate, oil and water contaminates. In addition, the robust heat exchanger has an ASME-certified burst pressure rating of 1,000 psi.

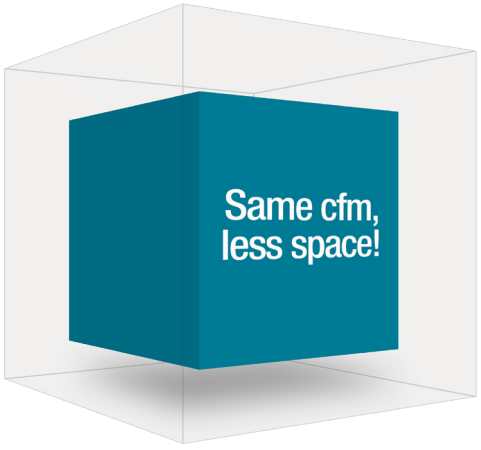
The dryer comes equipped with a next generation controller that has expanded I/O for continuous health monitoring of the dryer.

Often overlooked, a dryer's drain is critical to performance. Our new no-loss dual smart drain is operated and monitored by the controller to maximize uptime. It features automatic blockage clearing technology and built-in back-up for secure, continuous operation.

Free Up Valuable Floorspace

The integrated pre-filter and greater flow capacity provided by the 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.





Innovation that Drives Efficiency

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

At the heart of Gardner Denver's large capacity refrigerated dryers is the patent pending 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

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 higher cooling capacity

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 module has its own controls and refrigerated system, and thermal mass cold storage when applicable. The modular design creates many operating advantages:

- **EFFICIENT, NO-FAIL OPERATION:** Independent refrigeration system, controls, pumps and drains create redundancy
- **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:** While performing maintenance, our modular design allows for serviceability to components and no need to disassemble the entire unit to gain access.

*Premium Warranty**

1 Year—Standard

4 Years—Extended

5 Years—Total

*Parts and labor included.
Contact your local distributor for more details.

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 Potential (GWP) by using R410A refrigerant in place of R404A
- Over 45% less charge required from the high-pressure refrigerant circuit
- 18–58% 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.

DRAMATICALLY REDUCED
CARBON FOOTPRINT

Specifications

XGCY SERIES | CYCLING REFRIGERATED DRYERS 60 HZ

MODEL	FLOW RATE		CONNECT SIZE	AIR-COOLED OPERATING	WATER-COOLED OPERATING	DIMENSIONS (WIDTH × DEPTH × HEIGHT)		WEIGHT	
	CFM	M^3/HR	IN	KW	KW	IN	MM	LB	KG
XGCY1800	1,800	3,000	6	5.1	6.6	34 × 91.5 × 93	864 × 2,324 × 2,362	3,006	1,363
XGCY2400	2,400	4,000	6	13.0	8.2	34 × 91.5 × 93	864 × 2,324 × 2,362	3,156	1,432
XGCY3000	3,000	5,000	6	14.7	10.1	34 × 91.5 × 93	864 × 2,324 × 2,362	3,259	1,478
XGCY3600	3,600	6,000	8	10.4	13.4	81 × 99 × 112	2,057 × 2,515 × 2,845	6,441	2,922
XGCY4800	4,800	8,000	8	26.3	16.7	81 × 99 × 112	2,057 × 2,515 × 2,845	6,741	3,058
XGCY6000	6,000	10,000	10	29.7	20.5	81 × 99 × 112	2,057 × 2,515 × 2,845	7,169	3,252
XGCY7200	7,200	12,000	10	39.4	25.0	116 × 99 × 112	2,946 × 2,515 × 2,845	10,166	4,611
XGCY9000	9,000	15,000	12	44.4	30.6	116 × 99 × 112	2,946 × 2,515 × 2,845	11,093	5,032
XGCY12000	12,000	20,000	14	59.1	40.7	151 × 99 × 112	3,835 × 2,515 × 2,845	15,037	6,821
XGCY15000	15,000	25,000	14	73.8	50.8	186 × 99 × 112	4,724 × 2,515 × 2,845	18,471	8,379
XGCY18000	18,000	30,000	16	88.5	60.9	221 × 99 × 112	5,613 × 2,515 × 2,845	22,596	10,249
XGCY21000	21,000	35,000	16	103.2	71.0	256 × 99 × 112	6,502 × 2,515 × 2,845	26,465	12,005
XGCY24000	24,000	40,000	16	118.0	81.1	291 × 99 × 112	7,391 × 2,515 × 2,845	30,310	13,749

Nominal Flows indicated are for 100°F inlet temperature, 100°F ambient temperature and 100 psig compressed air pressure. Designed to deliver avg. Class 4 PDP at rated load conditions. Maximum compressed air inlet pressure: 200 PSIG / Minimum 50 PSIG. Consult factory for lower operating pressures.

Minimum pressure w/o need for external control pressure to operate drain – 75 PSIG. For lower operating pressures, a separate 80 – 100 PSI compressed air source required for operating drains.

The leader in every market we serve

by continuously improving all business processes

with a focus on innovation and velocity

Gardner Denver®

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QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

MEMBER OF 100 YEARS OF INDUSTRY LEADERSHIP CAGI Compressed Air & Gas Institute www.cagi.org

KNOW PRESSURE COMPRESSED AIR CHALLENGE

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