

ESSENTIAL SOLUTIONS FOR DRY COMPRESSED AIR

# REFRIGERATED AIR DRYERS

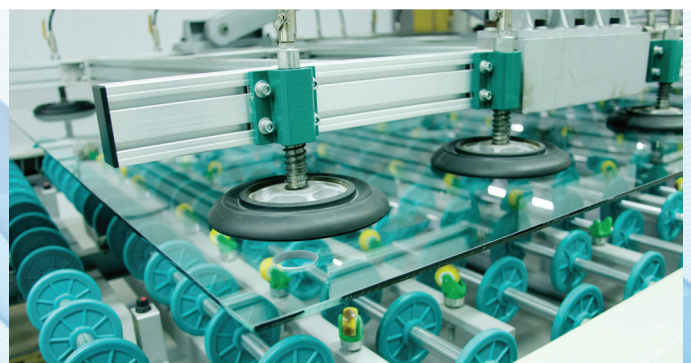


# PROTECT DOWNSTREAM EQUIPMENT

Moisture in your operation's compressed air system can lead to corrosion, contamination, and even costly damage to your critical downstream equipment. Refrigerated compressed air dryers offer a reliable, economic, and basic solution for reducing condensate and contaminants to help deliver clean, dry air for your processes and productivity.

## Reliable Dry Air for Routine Applications

Refrigerated compressed air dryers help protect your systems using a cooling technology to help maintain stable operational dewpoints in the 3°C to 5°C (37°F to 41°F) range (ISO 8573-1 Purity Class 4 for water). Refrigerated dryers are ideal for general industrial applications that don't require ultra-dry air (dewpoint below -40°C/-40°F) but still require consistent moisture removal and dependable compressed air treatment.



# DESIGNED TO PERFORM

Engineered for convenience and reliability, the dryers feature compact footprints, service-friendly layouts, and intuitive control interfaces. The practical design, corrosion-resistant construction, and accessible components can help reduce maintenance downtime.

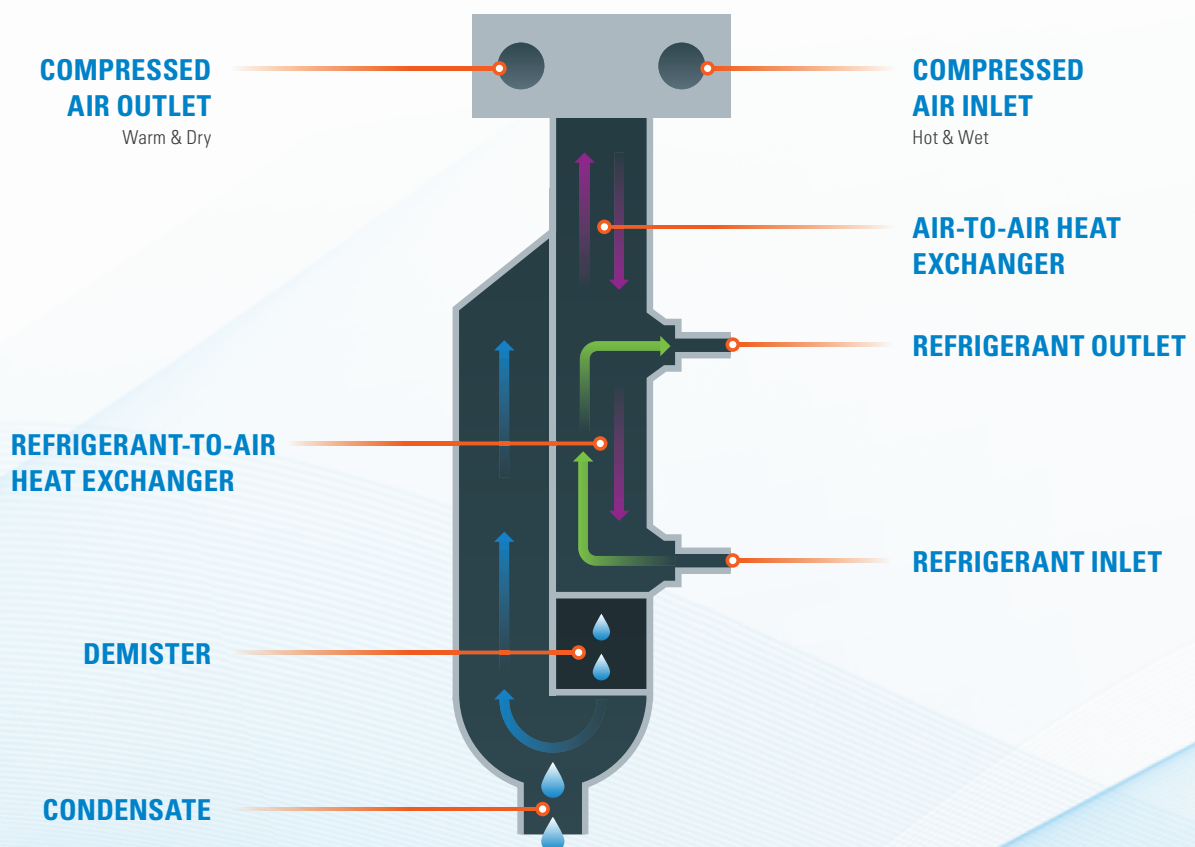
With multiple models and configurations available for flow rates ranging from 20 m<sup>3</sup>/h (≈12 scfm) to more than 20,000 m<sup>3</sup>/h (≈11,800 scfm), Donaldson has a compact dryer for standard and high pressure applications and varying loads or scalable models capable of growing with your operation and working conditions.

## High-Performance Heat Exchanger and Condensate Separation Design

Donaldson refrigerated dryers utilize aluminum or copper-brazed stainless-steel heat exchangers that deliver effective thermal transfer and corrosion resistance with minimal pressure loss.

The addition of zero-loss condensate drains helps remove moisture from the system without wasting valuable compressed air. This combination supports long-term durability and a low total cost of ownership.

### ALUMINUM HEAT EXCHANGER



# BURAN™ DRYER SERIES

## Compact Refrigerated Air Dryer for Everyday Use

The Buran dryer series is a compact fridge dryer for air systems up to 1,000 m<sup>3</sup>/h (590 scfm). It's a fitting choice for small or mid-sized operations looking for effective low dewpoint air drying without the complexity of larger systems. Built-in filters (on select models) and zero-loss drainage simplify setup and operation.

### Features

- + Dewpoint-dependent compressor control
- + Electronic zero compressed air loss condensate drain
- + Durable aluminum heat exchanger
- + Integrated filters on select models (help comply with ISO 8573-1 Class 2-4-2)

### Applications

- + Light and medium-duty industrial air drying
- + Workshops, OEM equipment, packaging, assembly lines
- + Small to mid-size compressed air systems where moisture removal is essential



# BORA DHP DRYER SERIES

## High-Pressure Refrigerated Dryer for Demanding Applications

The Bora DHP dryer series delivers robust performance for systems operating at up to 45 bar (652.67 psi) and flows from 25 to 6,000 m<sup>3</sup>/h (14.71 to 3,531.47 scfm). This heavy-duty refrigerant dryer features electronic controls and a scroll compressor to provide quiet, stable operation in high-pressure environments.

### Features

- + Stable dewpoint under varying loads
- + Electronic control system with pressure and temperature sensors
- + Copper-brazed stainless steel heat exchanger
- + High overload capacity to a pressure dewpoint of approximately 20°C
- + Available in air- and water-cooled models

### Applications

- + High-pressure compressed air networks up to 45 bar
- + Process industries, metalworking, and power plants
- + Systems where stable 3°C dewpoint and continuous moisture removal are required



# BOREAS™ DRYER SERIES

## Scalable Refrigerated Air Dryers with Flexible Control Options

The Boreas dryer series covers a wide flow range – from 1,260 to 21,000 m<sup>3</sup>/h (742 to 12,360 scfm) – and supports both cycling and variable speed refrigerated air dryer configurations. Designed for medium to large facilities, Boreas offers control flexibility and reliable low dewpoint air drying.

### Features

- + Available with hot gas bypass or variable speed control
- + Electronic level-controlled drain with status alerts
- + Multifunction display for clear system feedback
- + Available in air- and water-cooled models

### Applications

- + Large-scale or growing industrial compressed air systems
- + Applications needing flexible moisture removal systems
- + Multi-shift operations or facilities with fluctuating air demand requiring stable performance and condensate management



# COMPLIANCE WITH AIR QUALITY STANDARDS

Donaldson Refrigerated Dryers Can Help Support Your Compliance Efforts with ISO 8573-1:2010 Air Purity Classes for Moisture Content



When paired with the right pre- and after-filtration components, the dryers form the foundation of a reliable compressed air purification system. Removing contaminants like oil, moisture, and particulate helps protect your equipment, boost efficiency, and deliver top-quality products.

# YOUR PARTNER FOR FILTRATION SOLUTIONS

From the initial review of your process needs to identifying the right dryer for your operation, Donaldson will work with you to provide an energy-efficient, cost-effective compressed air solution for your organization. Post installation, you can continue to rely on Donaldson for service, support and replacement components.

## Here for You

Donaldson is a global provider of industrial filtration solutions. Our advanced technology, extensive product portfolio, and unrivaled customer support help organizations meet their needs.

If your industrial processes and applications include compressed air and gases, hydraulics, or dust, fume, and mist collection, Donaldson can leverage more than a century of experience and knowledge along with solutions and services to help you keep your operation working.

Backed by more than **500,000 installations**, **over 4.6 million replacement filters sold annually**, and a select network of partners, no other manufacturer is more capable – or more trusted – to solve your filtration and purification challenges than Donaldson.



**For more information on our range of refrigerated dryers, or for help identifying the right solution for your application, contact your local Donaldson representative.**



**donaldson.com**

Donaldson Company, Inc.  
Minneapolis, MN, USA

