

V-Series Refrigerated Dryers

5-1,200 cfm



Everyday Productivity

Experience dependable air quality with compact V-Series non-cycling refrigerated air dryers and achieve the perfect balance between technology and simplicity.

 See Our Entire Portfolio of Refrigerated Air Dryers

Reliable Performance

V-Series non-cycling dryers keep your facility running smoothly, delivering clean, dry air with an ISO 8573-1 Air Quality: Class 5-6 pressure dew point. They are engineered to circulate refrigerant continuously, which is ideal for applications where demand is constant.

Optimum Efficiency

Integrated moisture separators and drains remove condensate from the compressed air stream, ensuring the delivery of high-quality air and improving your overall operating efficiency.

Ease of Use

These compact dryers combine advanced technology with an intuitive design, featuring analog dew point indicators for models up to 150 cfm and LED displays for larger models. This enables proactive maintenance through continuous air quality monitoring, preventing equipment damage and downtime.

Optional High-Inlet Temperature Configurations

The V-Series high-inlet temperature dryers are designed to operate under harsh working conditions, delivering inlet temperatures of up to 200°F. These dryers are an excellent match for reciprocating compressors between 5-30 hp, making them ideal for light industrial applications like auto body shops and service centers.



Why Choose Non-cycling Dryers?

Non-cycling dryers provide continuous operation using a straightforward design, making them ideal for:

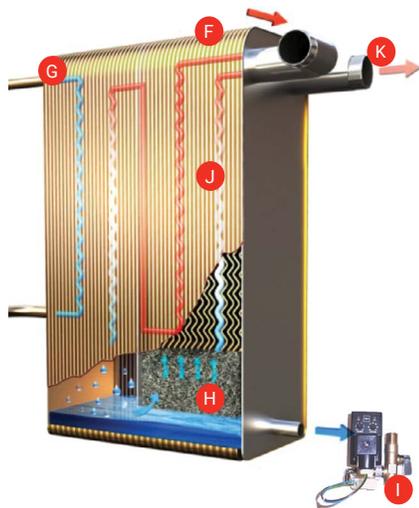
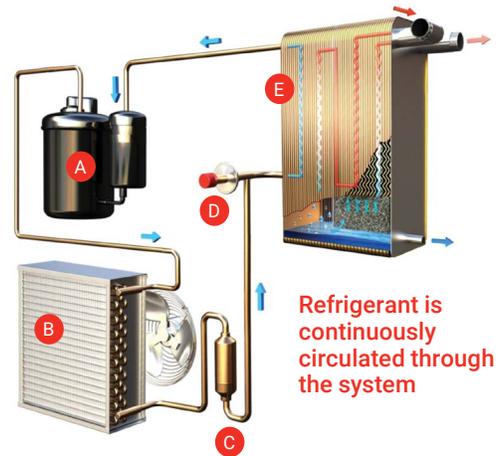


- Applications where compressed air demand is relatively constant
- Systems using reciprocating and rotary compressors
- Lowering upfront costs compared to other dryer technologies
- Providing clean, dry compressed air that improves product quality and reduces equipment maintenance and energy costs

How it Works

Refrigeration Circuit

A hermetically sealed refrigerant compressor **A** takes in evaporated refrigerant and compresses it to a higher pressure. The air-cooled condenser **B** turns the high-pressure gas into a high-pressure refrigerant. An in-line filter dryer **C** removes contaminants from the high-pressure refrigerant gas. A constant pressure valve **D** reduces the pressure and regulates the flow of refrigerant into the heat exchanger **E**.



Air Circuit

Warm, saturated compressed air enters the air-to-air heat exchanger **F** and is cooled by the exiting air. The pre-cooled air **G** then enters the air to refrigerant heat exchangers and is further chilled causing water vapor to condense. Condensed moisture is collected from the air stream by an integral separator **H** with a stainless steel demister. Liquid condensate is removed from the separator by a **I** high performance drain. Cold air is then reheated in the air-to-air heat exchanger **J** to eliminate pipe sweating. Clean dry air exits **K** the dryer and is now conditioned for use.



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