

Features & Benefits

RDA Series 800-6000 CFM VSD

Variable Speed Drive Dryers

Vertical Heat Exchanger Design

The ALU-DRY aluminum heat exchanger module has a vertical flow layout, ensuring the wet compressed air flows down and moisture is pulled by gravity to the automatic drain. The design of this heat exchanger can handle much higher temperatures than most competitive designs.

Condenser Fan | Coils

Generous sizing of the condenser unit ensures maximum performance of the refrigerant circuit and the ability to operate with changes in ambient conditions quickly. Access to the condenser for cleaning and maintenance is simple.

Refrigeration Compressor

The circulation of the refrigerant in the cooling system is done through the highly efficient refrigerant compressor. Thanks to its innovative construction, this has reduced energy consumption and increased reliability levels.

Zero Air Loss Drain

RDA-VSD dryers are equipped with a zero loss drain valve which is operated by the programmable controller. This drain is designed for economical removal of unwanted water, oil emulsions, and other liquids. These drains will only open when liquid is present and will not allow any compressed air to escape from the system.



Serviceability

With an average Phillips screwdriver, the panel protecting the major components of the refrigerated dryer slides off, meaning that servicing is not complex and less costly.



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Single Point Condensate Drain

All RDA models come with a single point condensate connection.

This single connection makes it easy when connecting it to your condensate management system.



Electronic Control

All models have an electronic control board, with a double sensor system that keeps the dew point and condensing pressure within ideal operating parameters.



Condensate Drain Controls

RDA dryers are equipped with an electronic drain valve which is controlled by the programmable controller.



Not only does the controller ensure timely draining of the condensation, but also allows for easy programming and testing of the drain valve.

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Variable Speed Drive Refrigeration Compressor

The VSD feature on this dryer allows the refrigeration compressor to speed up and slow down to meet periods of both high and low demands, without using any excess energy.

Consistent Dewpoint

The dryer operates off of a set target dewpoint rather than cycling between a range of refrigerant pressures. This produces a consistent dewpoint which means consistent production results

Soft Motor Starts

As opposed to full voltage motor starts on most fixed speed dryers, the VFD drive initiates slow motor starts which significantly lowers the electrical demand. Up to 75% turndown allows for a wide range of efficiency

Reduced Power Consumption

Unlike a standard dryer, KW consumption stays on par with your compressed air dewpoint demand, resulting in significant energy savings.

Variable Speed Drive Fan

The condenser fan on the dryer is also controlled with a variable speed drive. This allows for the condenser fan to speed up and slow down as refrigerant pressure changes, thus saving on energy costs.





Electronic Controller

DMC 50 controller continuously monitors the pressure and operating temperature, calculates the heat load and adjusts the rotation speed of the compressor and fans.



Touch Screen

Large touch screen display shows current operating parameters, hour meter, scheduled maintenance, alarm memory, and energy savings.

RS485 Interface

Remote monitoring of the dryer is made possible because of the RS485 interface that comes standard with all VSD dryers.

Models & Specifications

Model	CFM	HP Rating	NPT/Flang	ge Voltage	Dimensions (in)	Weight (lbs)
RDA-800-VSD-460	800	150	3" NPT	460/3/60	40x32x58	546
RDA-1000-VSD-460	1000	200	3" NPT	460/3/60	40x32x58	620
RDA-1250-VSD-460	1250	250	3" NPT	460/3/60	40x32x58	671
RDA-1500-VSD-460	1500	300	4" flange	460/3/60	45x48x69	1036
RDA-1750-VSD-460	1750	350	4" flange	460/3/60	45x48x69	1133
RDA-2000-VSD-460	2000	450	4" flange	460/3/60	45x48x69	1208
RDA-2500-VSD-460	2500	550	4" flange	460/3/60	45x48x69	1366
RDA-3000-VSD-460	3000	650	6" flange	460/3/60	52x69x72	1855
RDA-3750-VSD-460	3750	850	6" flange	460/3/60	52x69x72	2099
RDA-4000-VSD-460	4000	900	8″ flange	460/3/60	56x87x74	2356
RDA-5000-VSD-460	5000	1100	8″ flange	460/3/60	56x87x74	2680
RDA-6000-VSD-460	6000	1350	8″ flange	460/3/60	58x86x97	3212
Correcting factor for opera Inlet air pressure (PSI)	ting chang	es 100	120	140 160	180 203	220 232
Factor		1.00	1.07	1.13 1.18	1.23 1.27	1.30 1.33
Correcting factor for ambient temperature changes						
Ambient Temperature (°F) Factor		95 1.04		05 110 93 0.83	113 .70	
Correcting factor for inlet air temperature changes						
Air temperature (°F) Factor		≤90 1.11		110 120 0.80 0.65	131 0.53	
Correcting factor for operating changes						
Dew Point (°F) Factor		38 0.92	41 4 <u>5</u> 1.00 1.	5 50 07 1.25		

5 Year Pneu-Assure Warranty

Industry-Leading Peace-of-Mind

5 Year Warranty on Major Components

> Refrigeration Compressor Condenser Coil Heat Exchanger

1 Year Warranty on the Entire Unit Regular maintenance NOT included Guaranteed Support

From Your Certified Distributor

Technical Expertise

Industry-leading knowledge & experience

*Requires the purchase of a PneuTech line filter with installation directly before the inlet of the dryer. Warranty subject to change based on region and distributor's agreement.

Why PneuTech?

You are the #1 priority when you partner with PneuTech.

Your goals are our goals - because your success is our success.

Your experience is superior when partnering with PneuTech because of quality products and personal service.

You want efficiency, reliability and versatility when sourcing compressed air equipment - that's what we strive for.



Other PneuTech Products



RK Fixed Speed Rotary Screw 5HP-50HP



RSP Fixed Speed Rotary Screw 75HP-450HP



FHO Inline Filtration



CSO Oil Water Separators



RK Variable Speed Rotary Screw 5HP-75HP



RSP Variable Speed Rotary Screw 75HP-450HP



RDA Refrigerated Air Dryers



NGO Nitrogen Generators



Using our combined industry experience, we provide knowledge, support, and superior products to compressed air distributors across the globe.

We are committed to producing positive results through being trustworthy, ethical, and accessible.

We are founded in the beliefs that through working together we can continue to transform the industry, while rising to turn challenges into opportunities.



United States | United Kingdom | New Zealand

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