Distributed by: Air & Vacuum Process, Inc.
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VAN AIR SYSTEMS

R Series Refrigerated Air Dryers

Models R10-R175

Exclusive Design

Van Air's R Series unique plate in vessel heat exchanger design provides maximum reliability and consistent performance at a very affordable price.

All compressed air systems suffer from the common problems of dirt, oil and water contamination entering the system. These are intensified when air is compressed. Failure to remove these contaminants will result in serious problems within the compressed air system, such as pipe corrosion and damaged pneumatic equipment. Van Air Refrigerated Air Dryers remove this condensate for effective indoor airline protection.

With a unique plate in vessel heat exchanger and space saver design R Series compressed air dryers keep your air system running at peak efficiency with a constant 35-38°F dewpoint.

Features

- "Plug & Play" design for easy installation and operation
- Space saving design
- Oversized demister separator for efficient liquid removal over all operating conditions
- Low pressure differential across the dryer (1.45 psig) for energy savings
- Oversized condenser to operate in ambients up to 120°F (50°C)
- Visual indicator of dryer performance
- Easy drain access for service
- Environmentally friendly CFC-free R134A refrigerant

Benefits

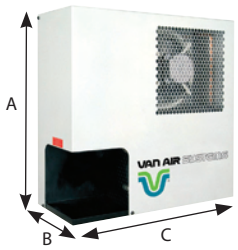
- Less system downtime
- Energy savings
- Reduced maintenance
- Environmentally friendly

Weights and Dimensions

Model	Rated flow @ 100 psig (SCFM)	In/Out Connection (inches)	H (A) (inches)	D (B) (inches)	W (C) (inches)	Weight (lbs.)	Voltages
R10	10	½ NPT-F	17	8 ¼	17 ¾	42	115V/1ph/60Hz
R15	15	½ NPT-F	17	8 ¼	17 ¾	42	115V/1ph/60Hz
R25	25	½ NPT-F	20	8 ¼	19 ¾	52	115V/1ph/60Hz
R35	35	½ NPT-F	20	8 ¼	19 ¾	52	115V/1ph/60Hz
R50	50	¾ NPT-F	22 ¼	9	20 ½	58	115V/1ph/60Hz
R75	75	¾ NPT-F	22 ¼	9	20 ½	68	115V/1ph/60Hz
R100	100	¾ NPT-F	22 ¼	9	20 ½	77	115V/1ph/60Hz
R125	125	1 ½ NPT-F	23 ¾	16 ¾	21 ¾	115	115V/1ph/60Hz & 230V/1ph/60Hz
R150	150	1 ½ NPT-F	23 ¾	16 ¾	21 ¾	128	115V/1ph/60Hz & 230V/1ph/60Hz
R175	175	1 ½ NPT-F	23 ¾	16 ¾	21 ¾	132	230V/1ph/60Hz

*Rated flow based on 100°F (38°C) ambient temperature, 100°F (38°C) inlet temperature and 100 psig (7 bar) working presure.

Maximum ambient temperature	120°F (50°C)
Maximum inlet temperature	150°F (65°C)
Minimum ambient temperature	41°F (5°C)
Maximum inlet pressure	232 psig (16 bar)
Refrigerant	R134a



Air Flow Correction Factors

Dryer rated flow is based on standard inlet conditions of 100 psig, 100°F inlet temperature and 100°F ambient temperature. The air flow correction factors are to be used for operating conditions other than standard. To obtain corrected flow at new operating conditions multiply system flow x C1xC2xC3 correction factors.

Example: 50 SCFM @ 110°F ambient temperature, 120°F inlet temperature and 125 psig = 50 x 1.1 x 1.5 x .95 = revised flow rating of 78 SCFM. *Use Model R75*

Ambient Temperature (C1)

°F	60	70	80	89	100	110	120
°C	16	21	27	32	38	43	49
Factor	.75	.8	.85	.92	1.00	1.1	1.2

Intlet Temperature (C2)

°F	90	100	110	120	140	149
°C	32	38	43	49	60	65
Factor	.81	1.00	1.2	1.5	2.2	2.3

Working Pressure (C3)

psig	60	80	100	125	150	175	200	230
bar	4	6	7	9	10	12	14	16
Factor	1.2	1.08	1.00	.95	.89	.86	.84	.82

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