



R Series Refrigerated Air Dryers

Models R200-R1000

Dependable Compressed Air Dryers

Van Air's R Series performance is unmatched in the compressed air industry. Backed by our 50 years of expertise, R Series dryers offer the advantages of optimal efficiency at an affordable price.



R Series dryers are dependable, durable compressed air dryers that effectively remove moisture from indoor air lines and reduce maintenance costs associated with air line contamination. They keep your pneumatic equipment running at peak efficiency with a constant 35-38°F dew point.

Designed with high efficiency, non-fouling, shell and tube heat exchangers, R Series refrigerated dryers provide minimal pressure drop for energy savings, a capacity control valve to prevent heat exchanger freeze-ups and a constant dewpoint over changing operating conditions.

Features

- Environmentally friendly R134A, CFC- free refrigerant
- Non-cycling refrigerant compressor
- Compressor run light
- Built-in drain
- Drain valve is conveniently adjusted without removing panels
- Start/stop switch
- Panel-mounted refrigerant analyzer gauge included on models R325 and above.

Benefits

- Immediate availability for standard models
- Shell and tube heat exchangers for maximum performance and low pressure drop
- No heat exchanger freeze-ups at low loads
- 160°F maximum inlet temperature

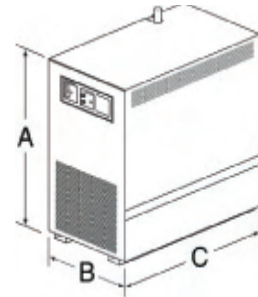
Weights and Dimensions

Model	Rated flow @ 100 psig (SCFM)	In/Out Connection (inches)	H (A) (inches)	D (B) (inches)	W (C) (inches)	KW	Weight (lbs.)	Voltages
R200	200	1½ NPT-F	29	25 ¼	35 ½	1.75	194	230V/1ph/60Hz, 230V/3ph/60Hz, 460V/3ph/60Hz
R250	250	1½ NPT-F	29	27 ¾	35 ½	2.63	201	230V/1ph/60Hz, 230V/3ph/60Hz, 460V/ 3ph/ 60Hz
R325	325	2 NPT-F	29	27 ¾	35 ½	2.63	219	230V/1ph/60Hz, 230V/3ph/60Hz, 460V/3ph/60Hz
R400	400	2 NPT-F	45 ½	27 ¾	35 ½	3.5	358	230V/3ph/60Hz, 460V/3ph/60Hz
R500	500	2 NPT-F	45 ½	27 ¾	35 ½	4.2	363	230V/3ph/60Hz, 460V/3ph/60Hz
R625	625	2 NPT-F	45 ½	41	35 ½	4.2	370	230V/3ph/60Hz, 460V/3ph/60Hz
R800	800	3 FLG	74	41	61	7	1620	230V/3ph/60Hz, 460V/3ph/60Hz
R1000	1000	3 FLG	74	41	61	8.75	1754	230V/3ph/60Hz, 460V/3ph/60Hz

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

Maximum ambient temperature
Maximum inlet temperature
Minimum ambient temperature
Maximum inlet pressure
Refrigerant

120°F (50°C)
160°F (71°C)
41°F (5°C)
232 psig (16 bar)
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: 625 SCFM @ 110°F ambient temperature, 110°F inlet temperature and 125 psig = 625 x 1.1 x 1.1 x .98= revised flow rating of 741 SCFM. * Use Model R800*

Ambient Temperature (C1)

°F	90°	100°	110°	120°
Factor	.85	1	1.1	1.2

Inlet Temperature (C2)

°F	90°	100°	110°	120°
Factor	.95	1	1.1	1.5

Working Pressure (C3)

psig	50	75	90	100	110	125	150	175	200	230
Factor	1.25	1.11	1.05	1	.99	.98	.95	.86	.84	.82



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