

Refrigerated Dryers

Advanced Air System Technology™



RD Series

- ✓ 20 scfm to 2000 scfm
1/2" to 4" units
- ✓ Energy efficient cycling control system saves 30-80% over a non-cycling dryer
- ✓ Cycling prevents freezing of the heat exchanger during off peak operation
- ✓ Unit maintains a constant 38°F dew point at the outlet, despite inlet flow and temperature variations
- ✓ Accepts inlet air temperatures up to 158°F and inlet pressures up to 230 psi
- ✓ Compact design minimizes floor space needed to install dryer

Applications:

Entire shop/factory application for the elimination of water in compressed air. Must be used in applications where temperatures are above freezing.

Specifications:

- 20-2000 scfm capacity (*depending on model*)
- Maximum work 230 psig
- Port sizes from 1/2" to 4"
- Maximum Temp: 158°F
- Pressure Dew Point: 38°F

Features:

- Cycling dryer for energy efficiency
- FTP bulkhead air pipe fittings
- On/Off switch with multi-function display
- Micro-processor based controller
- Automatic timer drain (with manual override)

Benefits:

- Air is a constant 38°F dew point at dryer
- Constant quality of dry air to your system
- Compact size, for an easy fit
- Low maintenance, long life design



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Advanced Air System Technology™

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Model RD	Air Flow (1)	Nominal absorbed power (2)	Maxmium absorbed power (3)	Power Supply V / Ph / Hz				Air Connection	Overall Dimensions (4) (inches)							Net Weight (4)
				115/1/60	230/1/60	230/3/60	430/3/60		A	B	C	D	E	F	G	
	scfm	kW	kW					NPT								
0020	20	0.26	0.42	x				½"	20.90	11.80	20.10	4.10	2.36	6.50	3.50	80
0030	30	0.26	0.42	x	•			½"	20.90	11.80	20.10	2.65	15.75	8.90	3.50	86
0050	50	0.36	0.53	x	•			½"	20.90	11.80	20.10	2.65	15.75	8.90	3.50	91
0075	75	0.50	0.60	x	•			¾"	25.60	14.60	29.50	3.95	18.74	14.20	3.90	143
0100	100	0.64	0.70	x	x			¾"	25.60	14.60	29.50	3.95	18.74	14.20	3.90	148
0125	125	0.97	1.10	x	x			1"	25.60	14.60	29.50	3.95	18.74	14.20	3.90	176
0150	150	0.92	1.10	x	x			1"	30.70	14.60	33.50	8.20	18.74	14.20	3.90	209
0175	175	1.11	1.30	x	x			1"	30.70	14.60	33.50	8.40	19.60	14.20	3.90	227
0200	200	1.30	1.70		x	x	x	1½"	30.70	28.90	37.00	3.30	23.90	17.60	4.80	368
0250	250	1.32	1.70		x	x	x	1½"	30.70	28.90	37.00	3.30	23.90	17.60	4.80	368
0325	325	2.07	3.07		x	•	x	1½"	30.70	28.90	37.00	3.30	23.90	17.60	4.80	416
0425	425	2.82	3.80			x	x	2"	34.00	40.00	43.30	4.00	25.80	17.50	5.10	582
0520	520	3.28	4.60			•	x	2"	34.00	40.00	43.30	4.00	25.80	17.50	5.10	646
0600	600	3.49	4.60			•	x	2½"	34.00	51.90	43.30	4.00	25.80	17.50	5.10	833
0700	700	3.64	4.90			•	x	2½"	34.00	51.90	43.30	4.00	25.80	17.50	5.10	866
0800	700	4.28	6.20			•	x	2½"	34.00	51.90	43.30	4.00	25.80	17.50	5.10	866
1000	1000	5.09	7.60			•	x	3"	37.90	62.60	61.70	6.00	25.80	43.30	7.10	1598
1220	1220	6.48	8.20			•	x	4"	37.90	70.30	61.70	6.00	25.80	43.30	7.10	1907
1600	1600	8.55	10.60			•	x	4"	34.10	88.00	81.70	10.20	13.70	70.10	6.30	2513
2000	2000	10.75	13.60			•	x	4"	34.10	88.00	81.70	10.20	13.70	70.10	6.30	3064

(1) In compliance with CAGI (ADF 100) / NFPA (class H); inlet air temperature 100°F. Ambient air temperature 100°F.

Inlet air pressure 100 psig. Pressure dew point from 33°F to 39°F.

(2) Absorbed power at rated operating conditions and at 115/1/60 and 460/3/60 power supply.

(3) Absorbed power at maximum limit operating conditions and at 115/1/60 and 430/3/60 power supply.

(4) The dimension and weight refer to the version with a timed drain, not with the zero air-loss drain.

- Available on request. Requires up to 12 week lead time on initial orders. Consult factory.

A model selection, sizing and energy savings calculating software is available to properly select a dryer based on your specific operating parameters. Use the correction factors listed below only as a guide and quick reference.

CAPACITY correction factors (*indicative values*): **CAPACITY**(scfm)= **RATED VALUE** x **P1** x **T2** x **T3** x **T4**.

WORKING AIR PRESSURE	PSIG	50	75	100	125	150	232
	P1	0.77	0.90	1.00	1.07	1.12	1.23

DEW POINT	° F	38	40	45	50
	T2	0.77	0.90	1.00	1.07

AMBIENT TEMP	° F	90	100	110	115
	T3	1.07	1.00	0.93	0.88

WORKING INLET AIR TEMP	° F	90	100	110	120	130	149	158
	T4	1.23	1.00	0.81	0.68	0.61	0.49	0.44

Maximum operating ambient temperature: RD 0020 – RD 1220: 115°F. RD 1600 – RD 2000: 110°F. Consult RTi for application with higher ambient temperature.

Minimum operating ambient temperature: RD 0020 – RD 2000: 41°F. Maximum inlet air pressure: 232 psig. Consult RTi for application with higher pressure.

Maximum inlet air temperature: RD 0020 – RD 1220: 158°F. RD 1600 – RD 2000: 149°F.

