

RNC Series Refrigerated Dryer-Filter Specifications

Model RNC	Rated Flow ⁽¹⁾	Standard Controller ⁽²⁾	Connection (in) ⁽³⁾	Dimensions (IN)			Weight (lbs)	w/Oil removal filter (lbs)	voltages (v/ph/hz)	kW	Dryer Model Number	Kits for Dryers	Kits for Dryers Mfg. After June 15, 2006
				H	W ⁽⁴⁾	D							
10	10	On/Off Switch	3/8" OD	14	11	16	64	115/1/60	115/1/60		RNC 5, 10, 15	RNCMK1 RNCMK2 RNCMK12 RNCMK3 RNCMK13 RNCMK4 RNCMK14 N/A RNCMK5 RNCMK15 RNCMK6 RNCMK16 RNCMK7 RNCMK8 RNCMK18 N/A RNCMK9 RNCMK19 RNCMK10	N/A RNCMK2 RNCMK12 RNCMK3 RNCMK13 SEE BELOW SEE BELOW N/A RNCMK22S RNCMK42S RNCMK23S RNCMK43S RNCMK24S RNCMK44S RNCMK25S RNCMK45S RNCMK26S RNCMK46S RNCMK27S RNCMK47S RNCMK28S RNCMK48S RNCMK29S
15	15		3/8" OD	14	11	16	69				RNC 25, 35		
25	25		1/2" NPT	26	20.5	18	86				RNC 25, 35 W/ OPTION F		
35	35		1/2" NPT	26	20.5	18	90				RNC 50		
50	50		1/2" NPT	26	20.5	18	95				RNC 50 W/ OPTION F		
75	75	I-Controller Level 1	3/4" NPT	26	20.5	18	106	147	.21 .25 .41 .59 .93	115/1/60 208-230/1/60 220-240/1/50	RNC 75, 100 RNC 75, 100 W/ OPTION F RNC 100	SEE BELOW SEE BELOW N/A RNCMK22S RNCMK42S RNCMK23S RNCMK43S RNCMK24S RNCMK44S RNCMK25S RNCMK45S RNCMK26S RNCMK46S RNCMK27S RNCMK47S RNCMK28S RNCMK48S RNCMK29S	
100	100		1" NPT	38	29	20	251	281					RNC 100 W/ OPTION F
125	125		1" NPT	38	29	20	273	287					RNC 125, 150
150	150		1" NPT	38	29	20	279	287					RNC 125, 150 W/ OPTION F
200	200		1 1/2" NPT	39	34	32	425	438					RNC 200, 250
250	250	I-Controller Level 2	1 1/2" NPT	39	34	32	463	476	1.28 1.30 1.26 1.96 2.00 2.03 2.68 3.06 4.32	208-230/3/60 460/3/60 575/3/60 380-420/3/50	RNC 200, 250 W/ OPTION F RNC 300 RNC 300 W/ OPTION F RNC 400, 500 RNC 400, 500 W/ OPTION F RNC 600 RNC 600 W/ OPTION F RNC 750	RNCMK16 RNCMK17 RNCMK17 RNCMK8 RNCMK18 N/A RNCMK9 RNCMK19 RNCMK10	
300	300		1 1/2" NPT	46	35	32	527	540					RNC 300
400	400		2" NPT	46	35	32	571	603					RNC 400, 500
500	500		2 1/2" NPT	58	32	42	684	716					RNC 400, 500 W/ OPTION F
600	600		2 1/2" NPT	58	32	42	646	691					RNC 600
750	750	2 1/2" NPT	58	32	42	734	804	RNC 750					
1000	1000	I-Controller Level 4	3 ANSI flange	85	49	41	1146	1173	6.13 7.29 9.47 11.3 11.5 15.0	19.7	RNC 750 W/ OPTION F RNC 1000, 1250, 1500 RNC 1000, 1250, 1500 W/ OPTION F RNC 1000, 1250, 1500 (MFG 1/15/02 - 6/14/06) RNC 1000, 1250, 1500 W/ OPTION F (MFG 1/15/02 - 6/14/06) RNC 1750, 2000, 2500, 3000 RNC 1750, 2000, 2500, 3000 w/ OPTION F RNC 1750, 2000, 2500, 3000 (MFG 1/15/02 - 6/14/06)	RNCMK20 RNCMK11 RNCMK21 RNCMK11-5	RNCMK49S RNCMK30S RNCMK50S RNCMK30S
1250	1250		4 ANSI flange	85	49	51	1521	1548					
1500	1500		4 ANSI flange	85	49	51	1547	1574					
1750	1750		6 ANSI flange	85	55	60	1940	1994					
2000	2000		6 ANSI flange	85	55	60	1986	2040					
2500	2500	6 ANSI flange	85	55	60	2315	2369						
3000	3000		6 ANSI flange	85	55	60	2646	2700					

* Consult your local Distributor for information on complete maintenance kits

Refrigerant: RNC10-RNC750 use R-134a, models RNC1000-RNC3000 use R-404a

Maximum operating pressure: 232 PSIG

Maximum operating temperature: 130° F:

(1) Rated Flow Capacity - Conditions for rating dryers are in accordance with CAGI (Compressed Air and Gas Institute) Standard ADF100: Refrigerated Compressed Air Dryers - Methods for Testing and Rating. Conditions for rating above dryers are: compressed air at dryer inlet: 100 psig and 100° F saturated; ambient temperature: 100° F; operating on 60 Hz power supply. For dew point performance ratings, models RNC200-RNC1000, request a CAGI data sheet from your local distributor.

(2) I-Controller Level 4 is standard on RNC1000-RNC3000

I-Controller Level 2 is standard on RNC125-RNC750

I-Controller Level 1 is standard on RNC25-RNC100

(3) OD connection is tubing: NPT connections are male

(4) Add 2 inches for Inlet/Outlet connections (does not apply to RNC10-RNC15 or RNC1000-RNC3000)

(1) CSA/UL and CE certified

(2) NEMA 1 standard

f. Units are air-cooled as standard. Contact your local Distributor if water-cooled versions are required.

Table 1 – Correction Factors (Multipliers) for Inlet Air Temperature & Pressure

Inlet Pressure (PSIG)	Inlet Temperature				
	80° F (27° C)	90° F (32° C)	100° F (38° C)	110° F (43° C)	130° F (54° C)
50	1.35	1.05	0.84	0.69	.44
80	1.50	1.17	0.95	0.79	.52
100	1.55	1.23	1.00	0.82	.56
125	1.63	1.31	1.07	0.91	.61
150	1.70	1.37	1.13	0.95	.64
175	1.75	1.42	1.18	0.99	.68
200	1.80	1.47	1.22	1.03	.72

CAPACITY CORRECTION FACTORS

To adjust dryer capacity for conditions other than rated, use Correction Factors (multipliers) from Tables 1 and 2.

Example: What is the capacity of a 1,000 scfm model when the compressed air at the inlet to the dryer is 150 psig and 100° F (38° C), and the ambient temperature is 90° F (32° C)?

Answer: 1,000 scfm (rated flow from Specifications Table) x 1.13 (correction factor for inlet temperature and pressure from Table 1) x 1.06 (correction factor for ambient temperature from Table 2) = 1,198 scfm

Table 2 – Correction Factors for Ambient Temperature

Ambient Temperature	80° F (27° C)	90° F (32° C)	100° F (38° C)	110° F (43° C)
Multiplier	1.12	1.06	1.00	0.94

50 Hz operation: Deregulate for 50 Hz operation. Apply the correction factor of .8333 to flow temperature and pressure.