



Refrigerated Compressed Air Dryers

HPR SERIES 10 to 500 scfm (17 to 850 nm³/h)



Improve System Productivity

Meeting Global Demand

Since 1948, customers around the world have depended on Hankison for innovative air treatment solutions. HPR series refrigerated air dryers offer the perfect balance between technology and simplicity to dry compressed air systems to ISO 8573-1: 2010 Air Quality Class 5 for pressure dew point.

Efficiency

Pneumatic processes and controls require clean, dry compressed air. HPR series dryers improve productivity, reduce maintenance costs and ensure optimal performance of air operated components.

Durability and Reliability

HPR Series dryers are designed for long service life. Rugged sheet metal cabinets, protected by an epoxy based powder coat finish, withstand harsh environments.

Hermetically sealed refrigeration systems utilize environmentally friendly R-134a refrigerant.

At a Glance...

HPR Series - Models 5-10 to 50 scfm

- Smooth bore, copper tube-on-tube heat exchangers deliver low dew point performance
- Centrifugal separator efficiently captures liquid condensate at varying inlet loads
- Condensate Management:
 - » Models 10-15 scfm: Pneumatically operated internal float drain
 - » Models 25-50 scfm: Electronic drain valve
- Controls:
 - » Models 10-15 scfm: Lighted On/Off switch
 - » Models 25-50 scfm: Lighted On/Off switch and dew point temperature indicator
- Optional wall mount bracket and air bypass valve enables retrofit of HPR5/10-HPR15 models into legacy 8005-8015 installations

HPR Series - Models 75 to 500 scfm

- 316 stainless steel heat exchangers optimize heat transfer and service life
- Integral stainless demister/separator captures liquid condensate and solid particles
- Replaceable ambient air filter protects the condenser from airborne contaminants
- Electronic drain valve automatically discharges condensate from the dryer
- Controls:
 - » Models 75-150 scfm: Lighted On/Off switch and dew point indicator
 - » Models 200-500 scfm: Lighted On/Off switch, LED dew point temperature indicator, timer drain adjustment on the panel

Models 10 to 15 scfm



Models 10 to 15 scfm



Models 25 to 150 scfm



Models 200 to 500 scfm



Product Specifications

Model	Rated Flow ¹	Refrigerant	Voltages	Power	In/Out	Dimensions			Weight
	scfm		V/ph/Hz		Connections	H	W	D	
HPR5-10	10	R134a	115/1/60	0.20	3/8" OD	15	13	13	64
HPR15	15			0.24	3/8" OD	15	13	13	69
HPR25	25			0.41	3/4" NPT	22	16	15	88
HPR35	35			0.46	3/4" NPT	22	16	15	92
HPR50	50			0.57	3/4" NPT	22	20	20	101
HPR75	75			0.72	3/4" NPT	20	19	20	110
HPR100	100			0.74	1" NPT	21	13	30	123
HPR125	125			0.76	1" NPT	21	13	30	153
HPR150	150			1.11	1" NPT	21	13	30	161
HPR200	200			1.42	1 1/2" NPT	30	17	36	183
HPR250	250		1.98	1 1/2" NPT	30	17	36	211	
HPR300	300		2.05	1 1/2" NPT	30	20	38	219	
HPR400	400		2.50	2" NPT	30	21	38	232	
HPR500	500		3.06	2" NPT	32	25	41	262	

¹ Rated Flow Capacity - Conditions for rating dryers are in accordance with ISO 7183 (Option A2). Compressed air at dryer inlet: 100 psig (6.7 barg) and 100°F (38°C); ambient air temperature: 100°F (38°C); operating on 60 Hz power supply. At rated conditions, pressure drop is less than 5 psid.

Operating Conditions

Flow Model scfm	Max.		Min.		Max.		Min.		Max. Ambient		Min. Ambient	
	Inlet Air Pressure psig	Inlet Air Pressure barg	Inlet Air Pressure psig	Inlet Air Pressure barg	Inlet Air Temperature °F	Inlet Air Temperature °C	Inlet Air Temperature °F	Inlet Air Temperature °C	Air Temperature °F	Air Temperature °C	Air Temperature °F	Air Temperature °C
5-10 to 50	250	17	30	2	120	49	40	4	110	43	45	7
75 -500	232	16	10	1	120	49	40	4	110	43	45	7

Capacity Correction Factors

To adjust dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from Tables 1 and 2.

Sizing Example: What is the capacity of an HPR100 at 100°F inlet air temperature, 150 psig working pressure and 110°F ambient air temperature ?

Answer: 100 scfm (rated flow from Product Specification Table) x 1.08 (correction factor for inlet temperature and pressure from Table 1) x 0.94 (correction factor for ambient temperature from Table 2) = 102 scfm

Table 1 - Capacity Correction Factors

Inlet Pressure		Inlet Temperature			
psig	barg	90°F 32°C	100°F 38°C	110°F 43°C	120°F 49°C
80	5.6	1.19	0.95	0.77	0.63
100	6.9	1.25	1.00	0.82	0.68
125	8.6	1.30	1.05	0.86	0.72
150	10.3	1.34	1.08	0.90	0.75
175	12.1	1.37	1.11	0.92	0.78
200	13.8	1.39	1.14	0.95	0.80
250	17.2	1.43	1.17	0.98	0.83

Table 2 - Correction Factors for Ambient Air Temperature

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



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