

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 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



Models 10 to 15



Models 25 to 150



Models 200 to 500



Product Specifications

Model	Rated Flow ¹	Refrigerant	Voltages	Power	In/Out Connection	Dimensions			Weight
	scfm		V/ph/Hz	kW	NPT	H in	W in	D in	lbs
HPR5-10	10	R134a	115/1/60	0.20	0.375"	15	13	13	64
HPR15	15			0.24	0.375"	15	13	13	69
HPR25	25			0.41	0.75"	22	15	15	88
HPR35	35			0.46	0.75"	22	15	15	92
HPR50	50			0.57	0.75"	22	20	20	101
HPR75	75			0.72	0.75"	20	19	21	110
HPR100	100			0.74	1.0"	21	13	30	123
HPR125	125			0.76	1.0"	21	13	30	133
HPR150	150			1.11	1.0"	21	13	30	153
HPR200	200		460/3/60	1.42	1.5"	30	17	36	183
HPR250	250			1.98	1.5"	30	17	36	211
HPR300	300			2.05	1.5"	30	20	38	218
HPR400	400			2.50	2.0"	30	21	38	232
HPR500	500			3.06	2.0"	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 (7 bar) 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	Max.		Min.		Max.		Min.		Max. Ambient		Min. Ambient	
Model	Inlet Air Pressure		Inlet Air Pressure		Inlet Air Temperature		Inlet Air Temperature		Air Temperature		Air Temperature	
scfm	psig	bar	psig	bar	°F	°C	°F	°C	°F	°C	°F	°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	bar	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



Global locations

SPX USA

Hankison Headquarters

1000 Philadelphia Street
Canonsburg, PA 15317-1700 USA
P: (724) 745-1555
F: (724) 745-6040

Hankison Rental Northeast

100 Commerce Drive, Suite 40
Washington, PA 15301
P: (724) 225-1470
F: (724) 222-1317

Hankison Rental Southwest

1486 Champion Drive
Terrell, TX 75160 U.S.A.
P: (800) 379-3711
F: (972) 563-9991

SPX Canada

Hankison Canada

1415 California Avenue
Brockville, ON, Canada K6V 7H7
P: (800) 267-3884
F: (800) 318-0952

SPX Mexico

Hankison Mexico

Avenida Constitución #2165 -B
Colonia Julián Carrillo
San Luis Potosí, S.L.P.
C.P. 78250 México
P: +52 (444) 815-7074
F: +52 (444) 815-8295

SPX South America

Hankison Brazil

Rua Joao Daprat, 231 b
09600-010-SÃO Bernardo Do Campo, SP
Brazil
P: +55 (11) 2166-4050
F: +55 (11) 2166-4070

SPX Europe

Hankison Ireland

Killarney, Co Kerry
Ireland
P: (+353) 6466-33322
F: (+353) 6466-33371

Hankison Netherlands

Munnikenheiweg 41
Postbus 570
4870 NE Etten-Leur Netherlands
P: (+31) 76-5085800
F: (+31) 76-5085800

Hankison Germany

Konrad-Zuse-Str. 25
D-47445 Moers Germany
P: (+49) 2841-8190
F: (+49) 2841-87112

SPX India

SPX India PVT, LTD
Manufacturing G-72/73
Riico Industrial Area
Mansarovar, RAJASTHAN
Jaipur 302 020
India
P: (+91) 141-2396759
F: (+91) 141-2395048

SPX Asia Pacific

SPX China

5th Floor, Park Center,
No.1568 Huashan Road, Shanghai China
P: +86 (021) 2208-5840
F: +86 (021) 2208-5866

SPX Korea

#940-1 Yerin-Ri
Jeonggwan-Myeon
Gijang-Gun, Busan, Rep. of Korea
P: +82 (51) 728-5360
F: +82 (51) 728-5359

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader.

For more information, please visit www.spx.com

SPX FLOW TECHNOLOGY

1000 Philadelphia Street
Canonsburg, PA 15317-1700 USA
P: (724) 745-1555
F: (724) 745-6040
E: hankison.americas@spx.com

SPX reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spx.com. The green ">" is a trademark of SPX Corporation, Inc.