

Refrigerated Dryers

H-Rs Series



H-Rs Series

Refrigerated Dryers

The Hankison H-Rs Series Refrigerated Dryers deliver cleaner, drier compressed air with proven technology and exceptional reliability. Designed with customer needs in mind, they provide higher efficiency, lower energy consumption, and dependable long-term performance.

Product Information

- Non-Cycling Refrigerated Dryer
- Rated Pressure Dew Point: 7°C
- Flow Capacity: 0.7-145 m³/min
- Cooling Method: Air-Cooled / Water-Cooled



Product Highlights

Enhanced Operating Conditions

Rated Conditions:

Inlet Air Temperature: 40°C

Ambient Temperature: 30°C

Operating Pressure: 7 bar(g)

Pressure Dew Point: 7°C (Adjustable to 3°C)

Maximum Operating Conditions:

Inlet Air Temperature: 60°C

Ambient Temperature: 46°C

Operating Pressure: 16 bar

Optimized Refrigeration System

Equipped with high-efficiency scroll or rotary compressors across the entire product range and charged with R407C refrigerant to ensure excellent refrigeration performance.

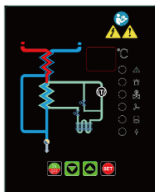
Automatic and electronic bypass valves provide enhanced capacity control and improved performance under varying load conditions.

Upgraded Heat Exchanger

The high-efficiency heat exchanger design improves heat transfer performance, reduces pressure drop, and minimizes overall system energy consumption.

Intelligent Control System

A newly upgraded control system comes standard with anti-freeze protection, remote start/stop capability, 485 communication, and fault alarm functions.



All-New Control Panel

The user-friendly control panel provides clear, at-a-glance monitoring of six key operating conditions, including power status, compressor operation, fan operation, defrost status, over-temperature alarm, and fault indication.

All-New Heat Exchanger Design

Featuring a newly engineered heat exchanger with a counterflow design for enhanced heat transfer efficiency and improved air-water separation performance.

The enlarged precoolers reduce the temperature differential between the inlet and outlet air streams, resulting in a lower compressed air temperature and improved drying performance.

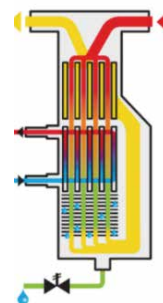
Design Specifications:

Maximum Operating Pressure: 16 bar

Approach Temperature: 5°C

Pressure Drop: < 0.15 bar

This advanced design significantly improves overall heat exchanger efficiency.



Upgraded Condenser (Water-Cooled Models)

New-design 316 stainless steel plate condenser offering high heat transfer efficiency, excellent corrosion resistance, non-pressure-vessel classification, and standard water flow control valve.



Premium Bypass Valve System

Models up to H1380Rs are equipped with an automatic hot-gas bypass valve that continuously adjusts in response to load variations.

Models above H1380Rs feature both automatic and electronic bypass valves. When the evaporating temperature approaches the freezing point, the electronic bypass valve automatically opens to prevent icing.



High-Efficiency Refrigeration Compressors

The entire H-Rs series is equipped with high-efficiency scroll or rotary refrigeration compressors and utilizes environmentally friendly R407C refrigerant, ensuring excellent cooling performance, high energy efficiency, and long-term system reliability.

H-Rs Refrigerated Dryers

Model	Flow Rate		Power Supply V/Ph/hz	Voltage Range	Air Connection Size mm	Dimensions (mm)			Weight kg
	m³/min	m³/hr				L	W	H	
Air-Cooled									
H42Rs-A	0.7	42	220/1/50	10%	0.75" BSPT	400	400	650	47
H72Rs-A	1.2	72	220/1/50	10%	0.75" BSPT	400	400	650	47
H108Rs-A	1.8	108	220/1/50	10%	1" BSPT	520	430	660	56
H216Rs-A	3.6	216	220/1/50	10%	1.5" BSPT	600	500	770	72
H294Rs-A	4.9	294	220/1/50	10%	1.5" BSPT	700	650	850	79
H342Rs-A	5.7	342	220/1/50	10%	1.5" BSPT	700	650	850	88
H390Rs-A	6.5	390	220/1/50	10%	1.5" BSPT	700	650	850	92
H444Rs-A	7.4	444	220/1/50	10%	1.5" BSPT	700	650	850	97
H540Rs-A	9	540	220/1/50	10%	1.5" BSPT	750	660	880	116
H690Rs-A	11.5	690	220/1/50	10%	2" BSPT	900	600	1100	147
H810Rs-A	13.5	810	220/1/50	10%	2" BSPT	900	600	1100	153
H990Rs-A	16.5	990	380/3/50	10%	2.5" BSPT	1000	650	1200	173
H1050Rs-A	17.5	1050	380/3/50	10%	2.5" BSPT	1000	650	1200	178
H1170Rs-A	19.5	1170	380/3/50	10%	2.5" BSPT	1000	650	1200	186
H1380Rs-A	23	1380	380/3/50	10%	3" FLG	1160	760	1260	225
H1590Rs-A	26.5	1590	380/3/50	10%	3" FLG	1160	760	1260	231
H1740Rs-A	29	1740	380/3/50	10%	3" FLG	1260	800	1350	264
H2100Rs-A	35	2100	380/3/50	10%	3" FLG	1260	800	1350	276
H2340Rs-A	39	2340	380/3/50	10%	4" FLG	1320	1040	1700	355
H2700Rs-A	45	2700	380/3/50	10%	4" FLG	1320	1040	1700	367
H3090Rs-A	51.5	3090	380/3/50	10%	4" FLG	1320	1040	1700	384
H3480Rs-A	58	3480	380/3/50	10%	5" FLG	1600	1280	1800	446
H4080Rs-A	68	4080	380/3/50	10%	5" FLG	1600	1280	1800	465
H4200Rs-A	70	4200	380/3/50	10%	5" FLG	1600	1280	1800	487
H4560Rs-A	76	4560	380/3/50	10%	6" FLG	1760	1350	1900	764
H4800Rs-A	80	4800	380/3/50	10%	6" FLG	1760	1350	1900	798
H5520Rs-A*	92	5520	380/3/50	10%	6" FLG	1900	1480	2120	1126
H5940Rs-A*	99	5940	380/3/50	10%	6" FLG	1900	1480	2120	1154
H7680Rs-A*	128	7680	380/3/50	10%	6" FLG	2040	1960	2120	1582
H8700Rs-A*	145	8700	380/3/50	10%	8" FLG	1900	2500	2200	1837

* Non-standard customisation available. Please consult the Hankison Marketing Department for details.

H-Rs Refrigerated Dryers

Model	Flow Rate		Power Supply	Voltage Range	Air Connection Size	Dimensions (mm)			Weight
	m ³ /min	m ³ /hr	V/Ph/hz		mm	L	W	H	kg
Water-Cooled									
H690Rs-W*	11.5	690	220/1/50	10%	2" BSPT	850	500	920	136
H810Rs-W*	13.5	810	220/1/50	10%	2" BSPT	850	500	920	144
H990Rs-W*	16.5	990	380/3/50	10%	2.5" BSPT	1010	600	1020	165
H1050Rs-W	17.5	1050	380/3/50	10%	2.5" BSPT	1010	600	1020	172
H1170Rs-W	19.5	1170	380/3/50	10%	2.5" BSPT	1010	600	1020	183
H1380Rs-W	23	1380	380/3/50	10%	3" FLG	1110	630	1200	212
H1590Rs-W	26.5	1590	380/3/50	10%	3" FLG	1110	630	1200	227
H1740Rs-W	29	1740	380/3/50	10%	3" FLG	1200	660	1230	256
H2100Rs-W	35	2100	380/3/50	10%	3" FLG	1200	660	1120	272
H2340Rs-W	39	2340	380/3/50	10%	4" FLG	1310	960	1500	348
H2700Rs-W	45	2700	380/3/50	10%	4" FLG	1310	960	1500	359
H3090Rs-W	51.5	3090	380/3/50	10%	4" FLG	1310	960	1500	372
H3480Rs-W	58	3480	380/3/50	10%	5" FLG	1360	1020	1550	427
H4080Rs-W	68	4080	380/3/50	10%	5" FLG	1360	1020	1550	456
H4200Rs-W	70	4200	380/3/50	10%	5" FLG	1360	1020	1550	475
H4560Rs-W	76	4560	380/3/50	10%	6" FLG	1560	1200	1550	754
H4800Rs-W	80	4800	380/3/50	10%	6" FLG	1560	1200	1550	772
H5520Rs-W*	92	5520	380/3/50	10%	6" FLG	1560	1480	1550	1117
H5940Rs-W*	99	5940	380/3/50	10%	6" FLG	1560	1480	1550	1136
H7680Rs-W*	128	7680	380/3/50	10%	6" FLG	1660	1580	1600	1569
H8700Rs-W*	145	8700	380/3/50	10%	6" FLG	1760	2060	1650	1796

* Non-standard customisation available. Please consult the Hankison Marketing Department for details.



Contact Us

North America: Hankison, 647 SW 40 Avenue, Cala, Florida 34474, USA

Service Hotline: 1-724-745-1555

China Region: 11th Floor, Shangjia Center, No. 99 Xianxia Road, Changning District,
Shanghai, China

Service Hotline: +86 21 2221 6000

Website: <https://www.hankisonair.com>



Hankison
WeChat Account