

High-Pressure Refrigerated Dryers



Reliable · Efficient · Energy-Efficient

In industrial operations, the reliability, efficiency, and energy performance of high-pressure compressed air treatment systems are critical to maintaining productivity and controlling operating costs. Our high-pressure air treatment solutions combine environmentally conscious design with reliability-focused engineering to maximize treatment efficiency, reduce equipment downtime and overall operating costs, and provide dependable support for production processes.

High-Pressure Refrigerated Dryers

High-Pressure Refrigerated Dryers — Low Maintenance, High Value

The Hankison High-Pressure Refrigerated Dryer combines ease of installation, high performance, and application versatility, making it an ideal choice for a wide range of industrial operations. Installation is straightforward. Simply connect the inlet and outlet air lines to obtain a clean, dry compressed air supply ready for integration into your production process.

Featuring a corrosion-resistant heat exchanger and a high-efficiency moisture separator, the dryer provides a long service life and a stable supply of high-quality compressed air. It helps reduce condensate in downstream equipment, lowers the risk of material degradation, decreases pneumatic tool replacement frequency, and minimizes production interruptions caused by moisture, thereby improving overall operational stability.

With its compact, space-saving design, the dryer is well suited to a wide range of operating environments. The dryer performs reliably in industries that demand high standards of hygiene, stability, and operational reliability, including food and beverage processing, PET bottle blowing, natural gas processing, and marine applications. Its simple operation enhances productivity while providing greater convenience for users.

Efficiency-Optimized Design — Engineered to Industry Standards, Quality Assured

The Hankison High-Pressure Refrigerated Dryer is engineered to industry-leading standards and maintains a stable pressure dew point even under full-load operating conditions, ensuring consistent drying performance. Every unit undergoes rigorous operational testing and pressure leak testing prior to shipment to ensure dependable quality. Designed for ambient temperatures up to 45°C, the dryer performs reliably under demanding operating conditions and across a wide range of industrial applications.



Lower Operating Costs — Energy-Efficient, Stable & Reliable

The Hankison High-Pressure Refrigerated Dryer delivers exceptional energy efficiency and dependable performance through the following key features:



- 1 Innovative Condenser Design:** The top-mounted condenser incorporates advanced aerodynamic design principles that help prevent dust and debris from clogging the condenser fins. This ensures efficient heat dissipation, reduces maintenance requirements, and extends equipment service life.
- 2 Intuitive Operator Interface:** Clearly arranged controls and refrigerant pressure gauges enable simple and user-friendly operation. Even personnel with limited technical experience can operate the dryer confidently, improving productivity while minimizing operator error.
- 3 High-Efficiency Heat Exchange System:** The heat exchanger integrates a pre-cooler, evaporator, and separator. The pre-cooler and evaporator feature high-efficiency copper-tube construction, providing superior heat transfer, improved energy utilization, and lower operating costs.
- 4 Precise Flow Control:** A thermostatic expansion valve automatically adjusts refrigerant flow in response to temperature changes, ensuring optimum operating conditions under varying load demands while enhancing both energy efficiency and system stability.
- 5 Robust Structural Design:** The dryer features a low-centre-of-gravity design with excellent vibration resistance, ensuring stable operation even in demanding environments. This minimizes vibration-related failures and helps maintain continuous, reliable production.



High-Pressure Refrigerated Dryers

Model	Flow Rate m³/hr Maximum Pressure bar				Power Supply V/Ph/hz	Air Connection (In/Out)	Dimensions (mm)			Weight kg
	HPR30A	HPR35A	HPR40A	HPR55A			L	W	H	
Air-Cooled										
H	32	36	40	44	220/1/50	NPT 1/2"	660	465	800	87
	67	74	83	92	220/1/50	NPT 1/2"	660	465	800	92
	116	128	143	158	220/1/50	NPT 1/2"	660	465	800	98
	173	193	214	238	220/1/50	NPT 1/2"	720	520	800	105
	232	257	285	316	220/1/50	NPT1"	720	520	800	125
	289	321	356	395	220/1/50	NPT1"	720	520	800	135
	347	385	428	475	220/1/50	NPT1"	760	560	820	145
	405	449	499	554	220/1/50	NPT1"	760	560	820	160
	463	514	570	633	380/3/50	NPT 1-1/4"	760	560	820	175
	521	578	641	712	380/3/50	NPT 1-1/4"	960	590	980	190
	578	642	713	791	380/3/50	NPT 1-1/4"	960	590	980	205
	636	706	784	870	380/3/50	NPT 1-1/4"	960	590	980	215
	694	770	855	949	380/3/50	NPT 1-1/4"	1060	620	1180	225
	810	899	998	1108	380/3/50	DN40	1060	620	1180	245
	925	1027	1140	1265	380/3/50	DN40	1060	620	1180	265
	1041	1156	1283	1424	380/3/50	DN40	1400	800	1300	290
	1157	1284	1425	1582	380/3/50	DN50	1400	800	1300	330
	1273	1412	1568	1740	380/3/50	DN50	1400	800	1300	350
	1388	1541	1710	1898	380/3/50	DN50	1520	890	1400	380
	1619	1798	1996	2215	380/3/50	DN50	1520	890	1400	420
	1851	2054	2281	2531	380/3/50	DN65	1520	890	1400	460
	2082	2311	2566	2848	380/3/50	DN65	1640	980	1520	510
	2314	2568	2851	3164	380/3/50	DN65	1640	980	1520	580
	2438	2706	3004	3334	380/3/50	DN65	1640	980	1520	630
	2703	3000	3330		380/3/50	DN65	1640	980	1520	670
Water-Cooled										
H				633	380/3/50	NPT 1-1/4"	680	450	680	175
				641	380/3/50	NPT 1-1/4"	680	450	680	190
		642	713	791	380/3/50	NPT 1-1/4"	770	540	800	205
	636	706	784	870	380/3/50	NPT 1-1/4"	770	540	800	215
	694	770	855	949	380/3/50	NPT 1-1/4"	770	540	800	225
	810	899	998	1108	380/3/50	DN40	1080	700	1130	245
	925	1027	1140	1265	380/3/50	DN40	1080	700	1130	265
	1041	1156	1283	1424	380/3/50	DN40	1080	700	1130	290
	1157	1284	1425	1582	380/3/50	DN50	1250	800	1300	330
	1273	1412	1568	1740	380/3/50	DN50	1450	890	1420	350
	1388	1541	1710	1898	380/3/50	DN50	1450	890	1420	380
	1619	1798	1996	2215	380/3/50	DN50	1560	980	1500	420
	1851	2054	2281	2531	380/3/50	DN65	1750	1005	1550	460
	2082	2311	2566	2848	380/3/50	DN65	1910	1050	1600	510
	2314	2568	2851	3164	380/3/50	DN65	2100	1080	1700	580
	2438	2706	3004	3334	380/3/50	DN65	2100	1080	1700	630
	2703	3000	3330		380/3/50	DN65	2100	1080	1700	670

Notes:

1. The rated pressure dew point complies with ISO 8573-1, Class 6.
2. Performance data are based on the following conditions: Ambient temperature: 40°C, Inlet air temperature: 80°C



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