

High-Pressure Desiccant Dryers



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High-Pressure Desiccant Dryers — Intelligent, Efficient and Versatile

The Hankison High-Pressure Desiccant Dryer delivers exceptional operational reliability through advanced control and drying technology. During operation, one stainless steel vessel dries the incoming compressed air while the other simultaneously regenerates the desiccant. This alternating cycle continues automatically throughout operation, ensuring a continuous supply of clean, dry, high-quality compressed air.

Superior Design for Demanding Applications

Manufactured from high-quality stainless steel and engineered with carefully selected components, the Hankison High-Pressure Desiccant Dryer is designed to meet the challenges of demanding high-pressure applications. With a maximum rated inlet pressure of up to 360 bar, it provides reliable and consistent drying performance under severe operating conditions, helping to maintain system efficiency and operational reliability.

Broad Application Coverage

Combining outstanding quality, durability, and versatility, the Hankison High-Pressure Desiccant Dryer is widely used in critical industries including defense support applications, petroleum refining, offshore and deep-sea drilling, and high-pressure pneumatic tool systems. It is also well suited for aerospace wind tunnel testing, high-pressure nitrogen filling, and PET bottle blowing applications.

All gauges and measuring instruments undergo rigorous pressure testing to ensure measurement accuracy and reliable performance, supporting precise process control and dependable operation.

Product Advantages — Superior Performance, Exceptional Value

- **Premium High-Pressure Switches:** High-quality pressure switches ensure accurate and reliable operation, helping to prevent safety risks and production losses caused by incorrect operation.
- **Automatic Safety Features:** Automatic pressurization and regeneration functions enhance operational safety, reduce manual intervention, and improve overall system stability and reliability.
- **High-Performance, Durable Desiccant:** The high-pressure desiccant provides outstanding drying efficiency and excellent resistance to degradation, ensuring long-term stable performance, extending service life, and reducing operating costs.
- **Optimized Low-Noise Design:** High-efficiency silencers and flow restrictors work together to significantly reduce operating noise, creating a more comfortable working environment while supporting environmental compliance.
- **Intelligent Control System:** Equipped with a PLC-based control system and a user-friendly interface, the dryer enables easy operation and real-time monitoring, improving automation and simplifying system management.
- **Stable Pressure Output:** Heavy-duty pneumatic valves help prevent sudden pressure fluctuations, maintaining stable outlet pressure and ensuring a reliable compressed air supply to downstream equipment.
- **Compact Skid-Mounted Design:** The integrated filter and dryer package features a compact footprint and attractive appearance. Mounted on a skid frame for easy transportation and installation, it helps reduce installation time and accelerate project implementation.



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Model	Flow Rate m³/hr	Maximum Pressure bar	Power Supply V/Ph/hz	Air Connection (In/Out)	Dimensions (mm)			Weight kg
					L	W	H	
H42HPD035	42	35	220/1/50	1/4"	800	500	1300	120
H66HPD035	66	35	220/1/50	1/4"	800	500	1500	124
H126HPD035	126	35	220/1/50	1/2"	800	500	1500	147
H198HPD035	198	35	220/1/50	1/2"	800	550	1600	163
H282HPD035	282	35	220/1/50	1/2"	800	550	1600	195
H312HPD035	312	35	220/1/50	1"	800	550	1600	228
H408HPD035	408	35	220/1150	1"	800	600	1700	260
H42HPD055	42	55	220/1/50	1/4"	800	500	1300	120
H66HPD055	66	55	220/1/50	1/4"	800	500	1500	123
H126HPD055	126	55	220/1/50	1/2"	800	500	1500	148
H198HPD055	198	55	220/1/50	1/2"	800	550	1600	172
H282HPD055	282	55	220/1/50	1/2"	800	550	1600	204
H312HPD055	312	55	220/1/50	1"	800	550	1600	230
H408HPD055	408	55	220/1/50	1"	800	600	1700	265
H42HPD080	42	80	220/1/50	1/4"	800	500	1200	102
H66HPD080	66	80	220/1/50	1/4"	800	500	1200	106
H126HPD080	126	80	220/1/50	1/2"	800	500	1300	128
H198HPD080	198	80	220/1/50	1/2"	800	500	1300	154
H282HPD080	282	80	220/1/50	1/2"	800	500	1300	185
H42HPD120	42	120	220/1/50	1/4"	800	500	1200	102
H66HPD120	66	120	220/1/50	1/4"	800	500	1200	104
H126HPD120	126	120	220/1/50	1/4"	800	500	1300	126
H198HPD120	198	120	220/1/50	1/4"	800	500	1300	150
H42HPD250	42	250	220/1/50	1/4"	800	500	1200	96
H66HPD250	66	250	220/1/50	1/4"	800	500	1200	100
H126HPD250	126	250	220/1/50	1/4"	800	500	1300	135
H42HPD360	42	360	220/1/50	1/4"	800	500	1200	92
H66HPD360	66	360	220/1/50	1/4"	800	500	1200	95
H126HPD360	126	360	220/1/50	1/4"	800	500	1300	128

Notes:

1. Performance data are based on the following conditions: Ambient temperature: 40°C; Inlet air temperature: 45°C



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