

Heatless & Micro-Heated Desiccant Dryers

H-HL / H-EH Series



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The H-HL and H-EH desiccant dryers utilize heatless and micro-heated desiccant technologies respectively, combined with dual-tower configurations and valve control, delivering reliable compressed air after-treatment with excellent product durability.

Product Features

- Reliable Performance, Long Service Life
- Intelligent Control for Precision and Efficiency
- Integrated Design for Easy Installation
- Superior Engineering, Outstanding Performance
- Premium Materials Inside and Out
- Enhanced Features for an Optimized User Experience





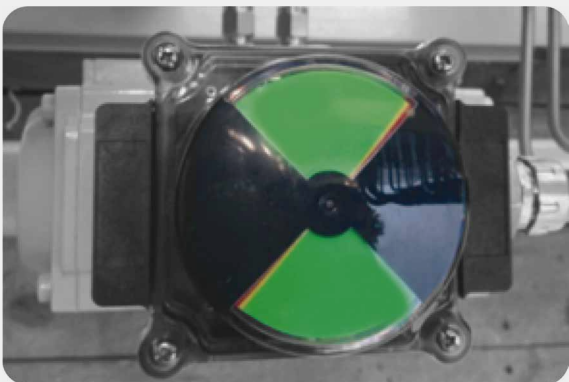
Advanced Dryer Tower Design

- **Premium Materials & Optimized Desiccant Capacity:** The dryer tower is constructed from carefully selected premium materials. Sufficient desiccant capacity is incorporated into the design to ensure reliable long-term operation and consistent drying performance.
- **Patented Flow Distribution with No Dead Zones:** The patented flow-distribution design eliminates dead zones within the tower, ensuring uniform airflow distribution and maximizing drying efficiency.



Premium Pressure Reducing Valve

- **Precise Pressure Control:** The pressure reducing valve accurately regulates the control air pressure for valve actuation within a range of 0.45–0.6 MPa, effectively preventing damage to pneumatic actuators caused by excessive pressure.
- **On-Site Adjustability:** The pressure reducing valve can be manually adjusted according to actual inlet air pressure conditions, providing the flexibility to accommodate a wide range of operating environments.



Intelligent Control System

- **Precise Cycle Switching :**
The intelligent control system precisely manages the dryer's switching cycles, ensuring accurate, reliable, and stable operation.
- **Real-Time Operating Status Monitoring :**
The system provides real-time display of key operating conditions, including adsorption, regeneration, and pressure equalization, allowing operators to monitor system performance at all times.
- **Flexible Cycle Settings :**
A standard switching cycle is provided as the default setting, while customized cycle intervals can be configured according to actual site conditions to meet a wide range of operating requirements.

Technical Specifications

H-HL 20 Series Heatless Desiccant Dryers

- Air Flow Rate: 1.2-127m³/min
- Maximum Working Pressure: 1.0MPa
- Rated Working Pressure: 0.7MPa
- Maximum Inlet Temperature: 45 °C
- Pressure Dew Point: -20°C
- Regeneration Air Consumption: ≤14%

H-EH 20 Series Micro-Heated Desiccant Dryers

- Air Flow Rate: 1.2-127m³/min
- Maximum Working Pressure: 1.0MPa
- Rated Working Pressure: 0.7MPa
- Maximum Inlet Temperature: 45 °C
- Pressure Dew Point: -20°C
- Regeneration Air Consumption: ≤8%

Model	Flow Rate	Power Supply	Air Connection Size	Dimensions (mm)			Weight
	m³/min	V/Ph/hz	mm	L	W	H	kg
H-HL 20 Series Heatless Desiccant Dryers							
H72HL20	1.2	220/1/50	1/2" BSPT	730	480	1550	132
H126HL20	2.1	220/1/50	3/4" BSPT	850	500	1620	144
H216HL20	3.6	220/1/50	3/4" BSPT	950	550	1630	168
H282HL20	4.7	220/1/50	1" BSPT	1050	600	1680	321
H312HL20	5.2	220/1/50	1" BSPT	1050	600	1680	328
H408HL20	6.8	220/1/50	1-1/2" BSPT	1050	600	1680	358
H540HL20	9	220/1/50	1-1/2" BSPT	1250	650	1760	405
H690HL20	11.5	220/1/50	1-1/2" BSPT	1250	650	1760	427
H840HL20	14	220/1/50	2" BSPT	1350	700	1840	485
H1050HL20	17.5	220/1/50	2" BSPT	1350	700	1840	565
H1380HL20	23	220/1/50	2-1/2" BSPT	1450	800	1930	814
H1710HL20	28.5	220/1/50	3" BSPT	1680	950	2060	955
H2040HL20	34	220/1/50	3" BSPT	1750	950	2080	1112
H2550HL20	42.5	220/1/50	DN100 FLG	1850	1000	2150	1238
H3120HL20	52	220/1/50	DN100 FLG	2000	1100	2260	1537
H3600HL20	60	220/1/50	DN125 FLG	2100	1200	2430	1818
H4500HL20	75	220/1/50	DN125 FLG	2200	1250	2430	2156
H5220HL20	87	220/1/50	DN125 FLG	2200	1250	2430	2182
H5940HL20	99	220/1/50	DN150 FLG	2320	1400	2680	2832
H6780HL20	113	220/1/50	DN150 FLG	2320	1400	2680	2860
H7620HL20	127	220/1/50	DN150 FLG	2420	1450	2680	3820
H-EH 20 Series Micro-Heated Desiccant Dryers							
H72EH20	1.2	220/1/50	1/2" BSPT	730	480	1550	145
H126EH20	2.1	220/1/50	3/4" BSPT	850	500	1620	152
H216EH20	3.6	220/1/50	3/4" BSPT	950	550	1650	186
H282EH20	4.7	220/1/50	1" BSPT	1050	600	1720	347
H312EH20	5.2	220/1/50	1" BSPT	1050	600	1720	352
H408EH20	6.8	220/1/50	1-1/2" BSPT	1050	600	1720	395
H540EH20	9	220/1/50	1-1/2" BSPT	1250	650	1800	447
H690EH20	11.5	220/1/50	1-1/2" BSPT	1250	650	1800	456
H840EH20	14	380/3/50	2" BSPT	1350	700	1900	533
H1050EH20	17.5	380/3/50	2" BSPT	1350	700	1900	611
H1380EH20	23	380/3/50	2-1/2" BSPT	1450	800	1980	867
H1710EH20	28.5	380/3/50	3" BSPT	1680	950	2100	1009
H2040EH20	34	380/3/50	3" BSPT	1750	950	2110	1145
H2550EH20	42.5	380/3/50	DN100 FLG	1850	1000	2190	1302
H3120EH20	52	380/3/50	DN100 FLG	2000	1100	2300	1611
H3600EH20	60	380/3/50	DN125 FLG	2100	1200	2450	1912
H4500EH20	75	380/3/50	DN125 FLG	2200	1250	2470	2280
H5220EH20	87	380/3/50	DN125 FLG	2200	1250	2470	2312
H5940EH20	99	380/3/50	DN150 FLG	2320	1400	2720	2988
H6780EH20	113	380/3/50	DN150 FLG	2320	1400	2720	3046
H7620EH20	127	380/3/50	DN150 FLG	2420	1450	2720	3982

Notes: 1. Standard operating conditions: Ambient temperature 38°C, inlet air temperature 38°C, and operating pressure 7 barg.

2. Maximum allowable conditions: Ambient temperature 40°C, inlet air temperature 45°C, and operating pressure 10 barg.

Technical Specifications

H-HL 40 Series Heatless Desiccant Dryers

- Air Flow Rate: 1.2-127m³/min
- Maximum Working Pressure: 1.0MPa
- Rated Working Pressure: 0.7MPa
- Maximum Inlet Temperature: 45 °C
- Pressure Dew Point: -40°C
- Regeneration Air Consumption: ≤14%

H-EH 40 Series Micro-Heated Desiccant Dryers

- Air Flow Rate: 1.2-127m³/min
- Maximum Working Pressure: 1.0MPa
- Rated Working Pressure: 0.7MPa
- Maximum Inlet Temperature: 45 °C
- Pressure Dew Point: -40°C
- Regeneration Air Consumption: ≤8%

Model	Flow Rate	Power Supply	Air Connection Size	Dimensions (mm)			Weight
	m³/min	V/Ph/hz	mm	L	W	H	kg
H-HL 40 Series Heatless Desiccant Dryers							
H72HL40	1.2	220/1/50	1/2" BSPT	730	480	1550	132
H126HL40	2.1	220/1/50	3/4" BSPT	950	550	1630	168
H216HL40	3.6	220/1/50	1" BSPT	1050	600	1680	321
H282HL40	4.7	220/1/50	1-1/2" BSPT	1050	600	1680	342
H312HL40	5.2	220/1/50	1-1/2" BSPT	1050	600	1680	358
H408HL40	6.8	220/1/50	1-1/2" BSPT	1250	650	1760	405
H540HL40	9	220/1/50	2" BSPT	1350	700	1840	442
H690HL40	11.5	220/1/50	2" BSPT	1350	700	1840	485
H840HL40	14	220/1/50	2" BSPT	1350	700	1840	565
H1050HL40	17.5	220/1/50	2-1/2" BSPT	1450	800	1930	814
H1380HL40	23	220/1/50	3" BSPT	1680	950	2060	955
H1710HL40	28.5	220/1/50	3" BSPT	1750	950	2080	1112
H2040HL40	34	220/1/50	DN100 FLG	1850	1000	2150	1238
H2550HL40	42.5	220/1/50	DN100 FLG	2000	1100	2260	1537
H3120HL40	52	220/1/50	DN125 FLG	2100	1200	2430	1818
H3600HL40	60	220/1/50	DN125 FLG	2200	1250	2430	2156
H4500HL40	75	220/1/50	DN150 FLG	2320	1400	2680	2832
H5220HL40	87	220/1/50	DN150 FLG	2320	1400	2680	2860
H5940HL40	99	220/1/50	DN150 FLG	2420	1450	2680	3385
H6780HL40	113	220/1/50	DN150 FLG	2420	1450	2680	3820
H7620HL40	127	220/1/50	DN150 FLG	2620	1500	2750	4226
H-EH 40 Series Micro-Heated Desiccant Dryers							
H72EH40	1.2	220/1/50	1/2" BSPT	730	480	1550	145
H126EH40	2.1	220/1/50	3/4" BSPT	950	550	1650	186
H216EH40	3.6	220/1/50	1" BSPT	1050	600	1720	347
H282EH40	4.7	220/1/50	1-1/2" BSPT	1050	600	1720	385
H312EH40	5.2	220/1/50	1-1/2" BSPT	1050	600	1720	395
H408EH40	6.8	220/1/50	1-1/2" BSPT	1250	650	1800	447
H540EH40	9	380/3/50	2" BSPT	1350	700	1900	496
H690EH40	11.5	380/3/50	2" BSPT	1350	700	1900	533
H840EH40	14	380/3/50	2" BSPT	1350	700	1900	611
H1050EH40	17.5	380/3/50	2-1/2" BSPT	1450	800	1980	867
H1380EH40	23	380/3/50	3" BSPT	1680	950	2100	1009
H1710EH40	28.5	380/3/50	3" BSPT	1750	950	2110	1145
H2040EH40	34	380/3/50	DN100 FLG	1850	1000	2190	1302
H2550EH40	42.5	380/3/50	DN100 FLG	2000	1100	2300	1611
H3120EH40	52	380/3/50	DN125 FLG	2100	1200	2450	1912
H3600EH40	60	380/3/50	DN125 FLG	2200	1250	2470	2280
H4500EH40	75	380/3/50	DN150 FLG	2320	1400	2720	2988
H5220EH40	87	380/3/50	DN150 FLG	2320	1400	2720	3046
H5940EH40	99	380/3/50	DN150 FLG	2420	1450	2720	3506
H6780EH40	113	380/3/50	DN150 FLG	2420	1450	2720	3982
H7620EH40	127	380/3/50	DN150 FLG	2620	1500	2800	4396

Notes: 1. Standard operating conditions: Ambient temperature 38°C, inlet air temperature 38°C, and operating pressure 7 barg.
2. Maximum allowable conditions: Ambient temperature 40°C, inlet air temperature 45°C, and operating pressure 10 barg.



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>



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