

## BOGE HLD Desiccant Dryers

Ensure a continuous supply of clean, dry air!

The new HLD series from BOGE has raised the bar for heatless desiccant dryers. You can expect removal of water vapor by lowering the pressure dew point of your compressed air stream to  $-40^{\circ}\text{F}/^{\circ}\text{C}$  or  $-94^{\circ}\text{F}/-70^{\circ}\text{C}$  (optional) to ensure a continuous supply of clean, dry air while achieving up to an ISO class 1 rating. Thanks to technologically advanced PLC controls and the highest quality valves, the HLD series provides low pressure drop and consistent dew point performance designed for even the most demanding applications.

A BOGE heatless desiccant dryer uses 15% expanded dry pure air to regenerate desiccant beds and is the lowest initial investment compared to externally heated and blower purge desiccant dryers.

**ENERGY-  
SAVING-  
OPTION**



### PLC controlled operation

The new HLD series is operated by a robust and reliable PLC control system offering valuable features including power on, hours run and service required indicators. Memory retention is built into the PLC and enables the controller to pick up where it left off in the drying cycle, ensuring consistently clean and dry air downstream.

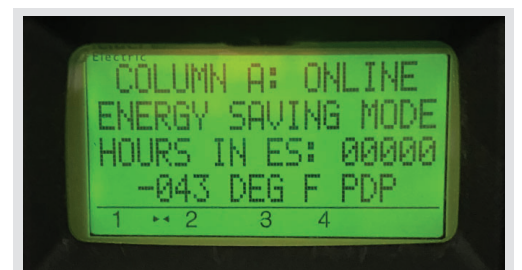
### High quality construction

The HLD series boasts reliable field proven valves including pneumatically operated 3-way valves (used for inlet valves on models HLD 50 to 800) and high performance butterfly valves (used for inlet valves on models HLD 1000 and up). Stainless steel check valves provide worry-free operation and minimal maintenance along with a precision purge control valve allowing operators to easily adjust purge flow to match operating conditions for optimal energy savings. Units are both ASME coded and UL/CUL compliant.



### Energy-saving option

With this option, a dew point sensor is incorporated into the dryer providing the ultimate in energy and power savings. Outlet dew point is constantly monitored allowing cycle time to be adjusted depending on the actual moisture load saving valuable purge air. By reducing valve actuation and increasing service life, this option includes an extended 5-year valve warranty.



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## An overview of the new BOGE HLD desiccant dryers

BOGE Type	Electrical (V/Ph/Hz)	Flow capacity <sup>(1)</sup>		Max. pressure <sup>(2)</sup>		Weight <sup>(3)</sup>		Dimensions W x D x H (inch)	Compressed air connection <sup>(4)</sup> NPT (F) / FLG
		cfm	m <sup>3</sup> /min	psi	bar	lbs	kg		
HLD 50	115/1/60	50	85	150	10	190	86	27 x 27 x 59	3/4"
HLD 70	115/1/60	70	119	150	10	270	123	28 x 30 x 53	3/4"
HLD 100	115/1/60	100	170	150	10	300	136	28 x 30 x 64	1"
HLD 150	115/1/60	150	255	150	10	415	188	32 x 33 x 54	1"
HLD 200	115/1/60	200	340	150	10	540	245	40 x 40 x 60	1 1/2"
HLD 250	115/1/60	250	425	150	10	590	268	41 x 46 x 73	1 1/2"
HLD 350	115/1/60	350	595	150	10	735	333	44 x 42 x 64	1 1/2"
HLD 500	115/1/60	500	850	150	10	1100	499	48 x 42 x 79	2"
HLD 650	115/1/60	650	1150	150	10	1600	726	52 x 46 x 76	2"
HLD 800	115/1/60	800	1359	150	10	2000	907	52 x 46 x 86	2 1/2"
HLD 1000	115/1/60	1000	1699	150	10	2650	1202	59 x 48 x 103	3"
HLD 1250	115/1/60	1250	2124	150	10	3000	1361	67 x 49 x 106	3"
HLD 1500	115/1/60	1500	2549	150	10	3500	1588	73 x 56 x 97	3"
HLD 2000	115/1/60	2000	3398	150	10	4600	2087	73 x 56 x 111	4"
HLD 2500	115/1/60	2500	4247	150	10	5100	2313	99 x 58 x 116	4"
HLD 3000	115/1/60	3000	5097	150	10	6500	2948	99 x 58 x 125	4"

## Specifications

	Standard	Optional
Maximum particle size (ISO class) <sup>(5)</sup>	class 2 (1 micron)	class 1 (0.01 micron)
Maximum water content (ISO class) <sup>(5)</sup>	class 2 (-40°F)	class 1 (-94°F pdp)
Minimum / design / maximum operating pressure range <sup>(2)</sup>	70 psig / 100 psig / 150 psig	
Minimum / design / maximum ambient temperature	38°F / 100°F / 120°F	
Minimum / design / maximum inlet temperature	38°F / 100°F / 120°F	
Power supply requirements	115V/1Ph/60Hz	230V/1Ph/60Hz & 12 VDC

## Conversion factors <sup>(6)</sup>

Working pressure	psi	60	70	80	90	100	110	130	140	150
nominal airflow correction factors		0.65	0.74	0.83	0.91	1.00	1.04	1.12	1.16	1.20
Ambient temperature	F°		70	80	90	100	105	110	115	120
nominal airflow correction factors			1.12	1.10	1.06	1.00	0.93	0.86	0.80	0.75

(1) In compliance with ADF 100 specifications for compressed air dryers: Inlet temperature: 100°F, ambient temperature: 100°F, inlet pressure dew point: -40°F. For all other conditions refer to the correction factors or contact [usa@boge.com](mailto:usa@boge.com).

(2) Maximum working pressure for all models is 150 psig. For higher pressures, contact [usa@boge.com](mailto:usa@boge.com).

(3) Approx. weight for all models does not include desiccant installed.

(4) 3" and below are NPT(F) threaded. 4" and above are flanged. All units with 3" piping and above will be ANSI welded pipe.

(5) Per ISO 8573.1:2010.

(6) Be used as a rough guide only. All applications should be confirmed by BOGE. Contact BOGE for sizing assistance.

(7) Includes NPT pre and after filters mounted on the dryers. For flanged, consult factory.

(8) All models are UL/cUL compliant.

(9) All models have ASME coded pressure vessels. For other approvals, consult [usa@boge.com](mailto:usa@boge.com).

(10) For sizes above 3000 scfm and pressure below 60 psig, please contact [usa@boge.com](mailto:usa@boge.com).