

HLK AIR TREATMENT

HEATLESS DESICCANT AIR DRYERS

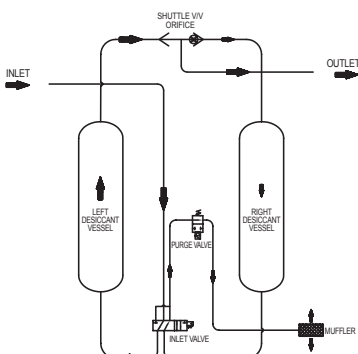
The HLK series delivers maximum value to applications that operate at-or-near full capacity using a simple timer based controller in the traditional heatless drying technology. With the HLK you'll enjoy a consistent performance and cost savings with its automatic time-controlled bed regeneration cycles.

Feature

- Consistent outlet pressure dew points. Large desiccant beds produce, -40 ($^{\circ}\text{C}$) pressure dew points.
- Minimum purge air usage, maximising the moisture holding capacity of the purge air, minimising the amount of adsorption required.
- Long desiccant life-beds that are sized to prevent fluidisation. It's slow and complete regeneration, preventing desiccant movement and deterioration.
- Heavy duty purge exhaust muffler for quiet operation.
- Non-lubricated, soft sealed control valves.
- Stainless steel support screens and air diffusers remove all contaminants and protects valves.
- Simple 'plug and play' operation required (once connected to utilities).
- Wall mountable.

How it works

Compressed air enters the dryer and is directed to Vessel 1 by valve (A) and then to the dryer outlet through shuttle valve (B). A portion of the dried air is throttled to near atmospheric pressure by means of orifice (C). This extremely dry, low pressure air flows through and regenerates the desiccant in Vessel 2 and is exhausted through purge/repressurisation valve (D), allowing Vessel 2 to repressurise slowly. At the end of 5 minutes (when operating on a 10 minute cycle, 2 minutes on a 4 minute cycle) valve (A) shifts and purge/repressurisation valve (D) reopens. The main air flow is now dried by Vessel 2 while Vessel 1 is being regenerated.



HL10K~HL35K



Shuttle Valve



Wall Mount Dryer
HL10K~HL35K

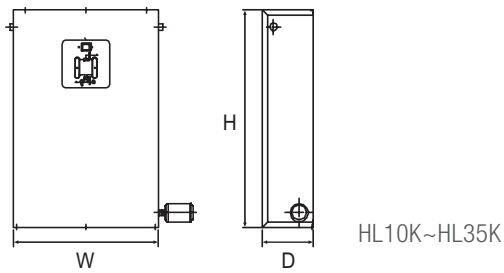


Specifications

Model	Flow * Capacity (Nm ³ /min)	Dimension (mm)			Weight * (kg)	Inlet / Outlet Connections PT
		H	W	D		
HL10K	0.29	775	445	170	25	1/2 *
HL15K	0.43	775	445	170	27	1/2 *
HL20K	0.58	775	445	170	32	1/2 *
HL25K	0.72	803	615	220	42	1/2 *
HL35K	1.01	803	615	220	45	1/2 *

* Rating condition are 38°C inlet temperature, 6.9 bar G inlet pressure, 100% relative humidity, 38°C ambient temperature.

* Standard voltage is 220V/1PH/50-60 Hz



Correction Factors

Inlet Pressure (bar)	Inlet Temperature (°C)						
	32	35	38	41	43	46	49
4.1	0.87	0.78	0.69	0.61	0.52	0.44	0.36
4.8	0.98	0.88	0.78	0.69	0.59	0.49	0.40
5.5	1.08	0.97	0.86	0.76	0.65	0.54	0.45
6.2	1.17	1.05	0.93	0.82	0.71	0.59	0.48
6.9	1.25	1.13	1.00	0.88	0.76	0.63	0.52
7.6	1.35	1.21	1.07	0.95	0.81	0.68	0.56
8.3	1.43	1.29	1.15	1.01	0.87	0.73	0.60
9.0	1.43	1.36	1.21	1.06	0.91	0.76	0.63
9.7	1.43	1.41	1.26	1.11	0.96	0.80	0.65