

### Technical Specifications - HBP-ZL Dryer Range

Dryer Type	Capacity Scfm	Capacity m3 / min	Capacity Nm3/h	Conn	Dimensions				Installed Power kW
					W	D	H	Wgt	
HBP-165	165	4.60	280	1 ½" PN16	1500	950	2080	960	8.50
HBP-225	225	6.37	382	1 ½" PN16	1500	950	2300	1200	10.50
HBP-280	280	7.92	476	2" PN16	1650	950	2200	1300	11.20
HBP-350	350	9.91	595	2" PN16	1650	950	2400	1500	14.20
HBP-450	450	12.70	765	2 ½" PN16	1800	1100	2400	1700	17.20
HBP-565	565	15.90	960	2 ½" PN16	1600	1100	2900	1900	22.00
HBP-850	850	24.00	1250	3" PN16	2700	950	2500	2100	26.00
HBP-1000	1000	28.31	1700	3" PN16	2350	1300	2960	2500	33.00
HBP-1130	1130	31.99	1920	4" PN16	2350	1200	3040	2700	34.50
HBP-1400	1400	39.64	2380	4" PN16	2700	1700	2640	2900	37.50
HBP-1700	1700	48.13	2890	5" PN16	2520	1700	3200	3100	40.00
HBP-2500	2500	70.70	4250	5" PN16	2700	1700	3100	3500	51.50
HBP-3000	3000	84.95	5100	6" PN16	2700	1700	3800	4000	61.00
HBP-4250	4250	120.00	7225	8" PN16	4500	2400	3200	6700	100.00
HBP-5500	5500	155.74	9350	8" PN16	4500	2400	4400	7500	138.00



#### Dryer Sizing Example:

Max Flow (VT): .....1000 cfm (1700 m3/h)  
 Max Comp Air Inlet Temp: .....+ 30°C  
 Minimum Working Pressure:.....6 bar

#### Conversion Factor: 1.09

$$V_{corr} = \frac{VT}{CF1} = \frac{1000cfm}{1.09} = 917.4 \text{ cfm}$$

#### Dryer Type for Application = HBP-ZL 1000

Sizing is for guidance only.

A site survey is recommended to ensure correct application.

Terms of Warranty: Qualified commissioning with warranty service contract (Mandatory)

#### Capacity related to 1 bar abs, 20°C and 35°C inlet temperature.

- Pre & after filtration included
- PN 16 flange connection as standard
- Electrical connection 3/415 V/50 Hz + N
- Standard Pressure 11 Bar max – Higher Pressure on request
- Cooling by side channel blower @ 150mbar
- PLC control – Allen Bradley as standard  
– Mitsubishi, Siemens on request
- HMI – Human Machine Interface - Touch screen
- Collective fault indicator with alarm page
- Trending on Dewpoint
- Energy monitoring & display on HMI
- Pressure indication by Transducer on HMI
- IP55 complete with alarm beacon/relay
- Stainless steel desiccant diffusers
- Stainless steel pressure gauges with shut off valve
- Dewpoint control by AEMS (Automatic Energy Management System)
- Cycle time 6 hours – Standard – Variable with load
- 5 years warranty with maintenance agreement

#### Conversion Factor (CF1) relating to operating pressure at -40°C dewpoint

Inlet temperature	Working overpressure (bar)						
	4	5	6	7	8	9	10
30°C	0.72	0.92	1.09	1.25	1.36	1.45	1.51
35°C	0.55	0.70	0.86	1.00	1.12	1.25	1.37
40°C	0.33	0.45	0.58	0.71	0.82	0.92	1.02

## Service Division

All HBP dryers are fully supported by a nationwide team of Hi-line Service Technicians. All factory trained and fully conversant with energy management of compressed air. HBP's are normally sold with a Hi-line Maintenance Agreement which then extends the warranty period to 5 years full warranty.

Hi-line Technicians are available to service other brands of dryers and retro fit our energy saving touch screen panel to less sophisticated dryers.



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