



DRYER DATA SHEET

Doc. No.: TI.IDS-213

KAESER BLOWER DESICCANT DRYERS

Date: 06/13/2022

Version: 1.1

KBD SERIES

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MODEL	1800	2200	2600	3200	3600	4300
I. MINIMUM-MAXIMUM OPERATING CONDITIONS						
Maximum inlet air pressure (compressed air at inlet to dryer) ¹ [psig]	150					
Maximum inlet air temperature (compressed air at inlet to dryer) ² [°F]	120					
Min-Max ambient temperature ³ [°F]	35-110					
Differential Pressure at Rated Capacity [psid]	4.2	2.4	3.4	4.6	1.6	1.8
Rated dew point [°F]	-40					
Capacity at rated conditions ⁴ [scfm]	1800	2200	2600	3200	3600	4300
Blower Flow rate [cfm]	317	403	449	552	614	732
Average cooling air flow rate at Rated Conditions [scfm]	19.8	24.2	28.6	35.2	39.6	47.3
Maximum Cooling air flow rate [scfm]	81.0	99.0	117.0	144.0	162.0	193.5
II. DESICCANT DATA						
Type	Activated Alumina					
Desiccant Charge per tower						
1/8" [lbs]	1167	1706	1706	2119	2353	2679
1/4" [lbs]	92	161	161	258	258	146
1/2" Ceramic Tab [lbs]	0	0	0	0	0	719
Typical Service Life (Continuous Operation at rated capacity)	1-2 years					
III. ELECTRICAL DATA						
Power Supply V/Ph/Hz	460/3/60					
Heater Rated Capacity kW	33.0	40.0	45.0	54.0	60.0	70.0
Average Power Consumption at Dryer Rated Capacity kW	29.0	33.5	40.5	40.1	45.1	54.3
Nominal Blower Motor hp	10.0	10.0	15.0	5.0	7.5	7.5
Control Circuit Fuse Rating A	1.25					
Heater Full Load Amps at 460VAC	41.4	50.2	56.5	67.8	75.3	103
Blower Full Load Amps at 460VAC	14	14	21	7.6	11	11
Suggested Fuse Size, Heater	60	70	80	90	100	110
Suggested Fuse Size, Blower	20	20	30	12	15	15
Enclosure NEMA Rating	NEMA 4/4X					
IV. GENERAL INFORMATION						
Envelope dimensions - W x D x H [in] (dimensions do not include a filter package)	80 x 79 x 116	85 x 86 x 128	85 x 89 x 128	85 x 107 x 128	85 x 116 x 134	109 x 123 x 130
Total Weight [lbs]	5,500	8,100	8,200	9,400	9,900	12,350
Air Connection ASME/ANSI 16.5 150lb Raised Face Flange	4"			6"		
Noise Level at Rated Conditions db(A)	85 as a time weighted average when measured in a free field at 3 feet from dryer					

Note: See Service Manual for complete details

1. 250 MAWP Available
2. Inlet temperatures higher than 100°F can cause a minor rise in outlet PDP
3. Low ambient available
4. Rated conditions = inlet air pressure of 100 psig, inlet air temperature of 100°F, and max. ambient temperature of 100°F