



# DRYER DATA SHEET

Doc. No.: TI.IDS-212		KAESER BLOWER DESICCANT DRYERS				Date: 06/13/2022
Version: 1.1		KBD SERIES				Page: 1 of 1
MODEL		750	900	1050	1300	1500
<b>I. MINIMUM-MAXIMUM OPERATING CONDITIONS</b>						
Maximum inlet air pressure (compressed air at inlet to dryer) <sup>1</sup> [psig]		150				
Maximum inlet air temperature (compressed air at inlet to dryer) <sup>2</sup> [°F]		120				
Min-Max ambient temperature <sup>3</sup> [°F]		35-110				
Differential Pressure at Rated Capacity [psid]		1.3	1.8	2	2.8	3
Rated dew point [°F]		-40				
Capacity at rated conditions <sup>4</sup> [scfm]		750	900	1050	1300	1500
Blower Flow rate [cfm]		140	158	183	227	281
Average cooling air flow rate at Rated Conditions [scfm]		8.3	9.9	11.6	14.3	16.5
Maximum Cooling air flow rate [scfm]		33.8	40.5	47.3	58.5	67.5
<b>II. DESICCANT DATA</b>						
Type		Activated Alumina				
Desiccant Charge per tower						
1/8" [lbs]		590	710	876	1167	1167
1/4" [lbs]		0	0	48	92	92
1/2" Ceramic Tab [lbs]		0	0	0	0	0
Typical Service Life (Continuous Operation at rated capacity)		1-2 years				
<b>III. ELECTRICAL DATA</b>						
Power Supply V/Ph/Hz		460/3/60				
Heater Rated Capacity kW		14.0	17.0	19.0	23.0	28.0
Average Power Consumption at Dryer Rated Capacity kW		11.8	12.8	15.1	20.4	27.1
Nominal Blower Motor hp		4.0	4.0	5.0	7.5	10.0
Control Circuit Fuse Rating A		1.25				
Heater Full Load Amps at 460VAC		17.6	21.3	23.8	28.9	35.1
Blower Full Load Amps at 460VAC		6.2	6.2	7.6	11	14
Suggested Fuse Size, Heater		25	30	30	40	45
Suggested Fuse Size, Blower		10	10	12	17.5	20
Enclosure NEMA Rating		NEMA 4/4X				
<b>IV. GENERAL INFORMATION</b>						
Envelope dimensions - W x D x H [in] (dimensions do not include a filter package)		60 x 68 x 114	60 x 68 x 114	64 x 62 x 113	66 x 73 x 118	80 x 79 x 116
Total Weight [lbs]		2,500	2,600	3,000	3,600	5,400
Air Connection ASME/ANSI 16.5 150lb Raised Face Flange		3"				
Service Clearance						
Front		24				
Back		24				
Sides		24				
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