



DRYER DATA SHEET

Doc. No.: TI.IDS-211		KAESER BLOWER DESICCANT DRYERS		Date: 06/13/2022
Version: 1.1		KBD SERIES		Page: 1 of 1
MODEL		500	600	
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]		40-110		
Differential Pressure at Rated Capacity [psid]		2.7	3.6	
Rated dew point [°F]		-40		
Capacity at rated conditions ⁴ [scfm]		500	600	
Blower Flow rate [cfm]		94	113	
Average cooling air flow rate at Rated Conditions [scfm]		5.5	6.6	
Maximum Cooling air flow rate [scfm]		22.5	27.0	
II. DESICCANT DATA				
Type		Activated Alumina		
Desiccant Charge per tower				
1/8" [lbs]		354	453	
1/4" [lbs]		0	0	
1/2" Ceramic Tab [lbs]		0	0	
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		10.0	12.0	
Average Power Consumption at Dryer Rated Capacity kW		8.0	10.2	
Nominal Blower Motor hp		2.5	4.0	
Control Circuit Fuse Rating A		1.25		
Heater Full Load Amps at 460VAC		12.6	15.1	
Blower Full Load Amps at 460VAC		4.1	6.2	
Suggested Fuse Size, Heater		20	20	
Suggested Fuse Size, Blower		7.5	10	
Enclosure NEMA Rating		NEMA 4/4X		
IV. GENERAL INFORMATION				
Envelope dimensions - W x D x H [in] <i>(dimensions do not include a filter package)</i>		53 x 59 x 105	54 x 60 x 108	
Total Weight [lbs]		1,900	2,200	
Air Connection [NPT]		2"	2"	
Service Clearance [in]				
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