



DRYER DATA SHEET

Doc. No.: TI.IDS-206

KAESER HEATLESS DESICCANT DRYERS

Date: 06/13/2022

Version: 1.1

KAD SERIES

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MODEL	370	450	590	750	930
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]	140				
Min-Max ambient temperature ³ [°F]	35 - 120				
Differential Pressure at Rated Capacity [psid]	1.2	1.8	2.4	3.3	3.7
Rated dew point [°F]	+38, -4, -40, -94				
Capacity at rated conditions ⁴ [scfm] -40°F	370	450	590	750	930
Average Purge flow rate at Rated Conditions [scfm]	Consult operations section of manual for average and maximum purge flow rates				
Maximum Purge flow rate at Rated Conditions [scfm]					
II. DESICCANT DATA					
Type	Activated Alumina				
Charge in each chamber [lbs]	229	271	355	455	590
Nominal Bead Size	1/8"				
Typical Service Life (Continuous Operation at rated capacity)					
-40°F PDP	3-5 years				
-94°F PDP	1-2 years				
III. ELECTRICAL DATA					
Power Supply	AC: 115/1/60-230/1/60 DC: 11.5-28V				
Nominal Power Consumption W	≤35				
Nominal Current A	≤1				
Control Circuit Fuse Rating A	1, slow blow				
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>	58 x 42 x 65	58 x 42 x 73	55 x 51 x 104	57 x 51 x 107	63 x 59 x 112
Total Weight [lbs]	1215	1350	1473	2134	2414
Air Connection [NPT]	2"	2"	2"	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 cause higher 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