



# DRYER DATA SHEET

Doc. No.: TI.IDS-209

KAESER HEATED DESICCANT DRYERS

Date: 06/13/2022

Version: 1.1

KED SERIES

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MODEL	750	900	1050	1300	1500	1800
<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 - 120					
Differential Pressure at Rated Capacity [psid]	1.3	1.8	2	2.8	3	4.2
Rated dew point [°F]	-4 or -40 with purge booster					
Capacity at rated conditions <sup>4</sup> [scfm]	750	900	1050	1300	1500	1800
Purge and cooling air flow rate at Rated Conditions [scfm]	53	63	74	91	105	126
<b>II. DESICCANT DATA</b>						
Type	Activated Alumina					
Desiccant Charge per tower						
1/8" [lbs]	590	590	710	876	1167	1167
1/4" [lbs]	0	0	0	48	92	92
1/2" Ceramic Tab [lbs]	0	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	10	12	14	17	19	23
Average Power Consumption at Dryer Rated Capacity [kW]	7.5	9.0	10.5	12.8	14.3	19.2
Control Circuit Fuse Rating A	1.25					
Full Load Amps at 460VAC	12.02	14.43	16.85	21.34	22.85	27.66
Suggested Fuse Size, Heater	20	20	25	30	30	35
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 59 x 114	60 x 59 x 114	64 x 62 x 113	66 x 63 x 118	80 x 66 x 116	80 x 66 x 116
Total Weight [lbs]	2323	2339	2816	3326	5094	5094
Air Connection ASME/ANSI 16.5 150lb Raised Face Flange	3"					
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