



DRYER DATA SHEET

Doc. No.: TI.IDS-213		KAESER HEATLESS DESICCANT DRYERS					Date: 03/22/2021
Version: 1.0		DC-HF SERIES					Page: 1 of 1
MODEL	2.0	3.7	5.0	5.9	7.6	11.3	
I. MINIMUM-MAXIMUM OPERATING CONDITIONS							
Maximum inlet air pressure (compressed air at inlet to dryer) ¹ [psig]						218	
Maximum inlet air temperature (compressed air at inlet to dryer) ² [°F]						122	
Min-Max ambient temperature ³ [°F]						36-104	
Differential Pressure at Rated Capacity [psid]						2.18	
Rated dew point [°F]						-40, -94	
Capacity at rated conditions ⁴ [scfm]	-40°F Operation ⁵	7	13	18	21	27	40
Average Purge Air Flow Rate [scfm]	-40°F Operation ⁵	1.55	2.94	3.72	4.60	5.26	9.68
Maximum Purge air flow rate [scfm]	-40°F or -94°F Operation	1.77	3.50	4.42	5.44	6.18	11.55
II. DESICCANT DATA							
Type	Activated Alumina						
Desiccant Charge per tower							
	1/16" [lbs]	4.10	6.13	8.71	11.35	14.88	0.00
	1/8" [lbs]	0.00	0.00	0.00	0.00	0.00	19.29
Typical Service Life (Continuous Operation at rated capacity)	2 Years						
III. ELECTRICAL DATA							
Power Supply	V/Ph/Hz	120/1/50-60					
Control Voltage	[V]	24 VDC					
Average Power Consumption at Dryer Rated Capacity [W]		50					
Control Circuit Fuse Rating	A	16					
Enclosure Rating		IP 54					
IV. GENERAL INFORMATION							
Envelope dimensions - W x D x H (with filters) [in]	13.39 (29.53) x 6.61 x 19.88 (21.45)	13.39 (29.53) x 6.61 x 26.65 (28.23)	13.39 (29.53) x 6.61 x 35.24 (36.81)	13.39 (29.53) x 6.61 x 43.78 (45.35)	14.96 (31.53) x 7.4 x 39.57 (41.14)	14.96 (32.24) x 7.4 x 49.41 (51.18)	
Total Weight [lbs]	77.2	92.6	112.4	132.3	154.3	180.8	
Air Connection [NPT]	1/2" - 14			3/4" - 14			
Average Noise Level at Rated Conditions ⁶	db(A)	60	62	62	62	63	
Max Noise Level at Rated Conditions	db(A)	74	74	75	76	78	

Note: See Service Manual for complete details

- 250 MAWP Available
- Inlet temperatures higher than 100°F cause higher outlet PDP (dew point of -94°F not possible for inlet temperatures above 95°F)
- Low ambient available
- Rated conditions = inlet air pressure of 100 psig, inlet air temperature of 100°F, and max. ambient temperature of 100°F
- For -94°F capacities and average purge flow, consult factory
- The level of short term sound pressure at the distance of 1m in open space (LpA)