



DRYER DATA SHEET

Doc. No.: TLIDS-201
 Version: 1.2
 KAESER High Pressure REFRIGERATED DRYERS
 HT SERIES
 Date: 01/06/2023
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MODEL	HT 0.5-725	HT 0.75-725	HT 1.0-725	HT 1.5-725	HT 2.5-725	HT 3.5-725	HT 4-725	HT 6-725	HT 7.5-725	HT 10-725	
I. MINIMUM-MAXIMUM OPERATING CONDITIONS											
Maximum inlet air pressure (compressed air at inlet to dryer) [psig]	725										
Maximum inlet air temperature (compressed air at inlet to dryer) [°F]	120										
Min-Max ambient temperature [°F]	40 - 110, air cooled / 40-130, water cooled										
Nominal pressure drop at rated flow [psid]	1.7	1.9	2.4	4.6	4.5	3.7	3.1	6.2	3.6	4.6	
Rated dew point [°F]	38										
Rated capacity* [scfm]	130	200	300	500	750	1000	1250	1750	2000	3000	
II. REFRIGERATION SYSTEM DATA											
BTU/HR - Refrigeration	4820	6030	8900	15200	22000	30500	42140	57310	69370	92550	
Outlet air temperature (nominal at rated conditions) [°F]	85										
Refrigerant type	R-134a					R-404a					
Refrigerant charge [lb]	AC/WC	0.71/NA	1.25/NA	2.18/1.25	2.75/1.87	3.31/2.0	4.31/3.25	18.5/14.5	18.5/14.5	23.5/20.5	28.5/22.0
Air flow across condenser [cfm]	300	450	710	1070	1680	2170	3400	4230	5300	4900	
III. ELECTRICAL DATA											
Nominal Voltage (consult factory for other voltages)	115/1/60	115/1/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	
Min-Max voltage	104 - 127	104 - 127	414 - 506	414 - 506	414 - 506	414 - 506	414 - 506	414 - 506	414 - 506	414 - 506	
Amperage Draw	Total Full Load Amps	10.2	15.2	3.6	4.7	7.1	9.6	8.2	9.3	15.7	21.1
	Compressor Locked Rotor Amps	51	66.3	25	33	44	63	49.5	70	99	127
Branch circuit fuse size [amps]		20	25	15	15	15	20	15	15	30	40
Max Power consumption [kW]		0.932	1.28	1.255	1.962	2.91	4.12	5.01	7.71	9.71	14.4
IV. WATER COOLED DATA											
Water Regulating Valve Setting [psig]	135										
Minimum Required Available Water Pressure Differential [psig]	40										
Flow Required with 85°F Water [gpm]	NA	NA	1.3	2.1	3.0	3.6	12	14	21	27	
Water Supply Connection	NA	NA	1/2-14 NPT(F)				3/4-14 NPT(F)	1-14 NPT(F)	1.25-11.5 NPT(F)		
V. GENERAL INFORMATION											
Envelope dimensions - W x D x H [in]	25.62 x 19.62 x 37.56	25.62 x 19.62 x 37.56	32.15 x 32.15 x 38.6	32.15 x 32.15 x 38.6	32.15 x 41.62 x 58.06	32.15 x 41.62 x 58.06	52 x 50 x 59	52 x 50 x 59	52 x 50 x 59	52 x 50 x 59	
Weight [lb]	251	279	425	463	691	734	889	939	1204	1329	
Air inlet/outlet connections	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	1.5 NPT	3"-8 (Male) NPT	3"-8 (Male) NPT	3"-8 (Male) NPT	3"-8 (Male) NPT	
Service/Air Flow Clearances [in]											
	Front						36				
	Back						6				
	Sides						36				
Drain connection [in]	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4"-18 NPT	1/4"-18 NPT(F)	1/4"-18 NPT(F)	1/4"-18 NPT(F)	

* Rated conditions = inlet air pressure of 725 psig, inlet air temperature of 100°F, and max. ambient temperature of 100°F
 Note: See Service Manual for complete details