Engineering Data
Rev 04 – 12/10/2020

Engineering Data PSE1800 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	10612 / 11947	11997 / 13292	13482 / 14526
Air Pressure Drop (bar)	0,22 / 0,272	0,275 / 0,33	0,341 / 0,39
Air Temperature at Dryer Outlet (°C)	30,5 / 30,6	30,9 / 30,8	31,1 / 30,7
Adsorbed power (kW) *	12,22 / 14,66	12,32 / 14,78	12,42 / 14,89
Condenser Heat Rejected (kW)	66,4 / 75,15	70,8 / 80,21	75,68 / 85,23
REFERENCE DATA			
Working Pressure (bar g)	7		
Inlet Air Temperature (°C)	35		
Ambient Temperature (°C)	25		
Relative Humidity (%)	100		
GENERAL DATA			
Water Flow (m³/h)	4, 7 / 5,84	5,24 / 6,66	5,92 / 7,62
Water Pressure Drop****(bar)	0,15 / 0,23	0,18 / 0,29	0,23 / 0,38
Condensing Temperature (°C)	40		
Sound Pressure Level (dBA) (1 m free field)**	69		
Refrigerant Type	R513A		
Fridge Compressor Type / n°	Hermetic Scroll / 1		
Refrigerant Quantity (kg)	14		
Capacity Control	Cycling		
Expansion System	Capillary Tube		
Air-to-air Heat Exchanger	Aluminium plate fins		
Air-to-refrigerant Heat Exchanger	Aluminium plate fins		
Number of Heat Exchangers	3		
Separator Type	Demister		
Drain Type	Integrated or Electronic		
PIPING CONNECTIONS			
Air Inlet / Outlet	PN 16 - DN 200 / ANSI 8” 150 LBS		
Condensate Drain Inlet	½” BSP - F		
Condensate Drain Outlet ***	3/8” BSP - F		
DIMENSIONS + WEIGHT			
Width (mm)	1517		
Height (mm)	1900		
Depth (mm)	2529		
Weight (kg)	1210		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	321		
F.L.A. Current (Amps)	59,4		
M.O.P. Current (Amps)	125		
M.C.A. Current (Amps)	73,5		
Total Installed Power (kW)	29,8 – 35,1		
Control Type	Microprocessor Advance Touch		
Fieldbus	Modbus RTU su RS485 - TCP/IP su RJ45		
Electrical Protection Class (Std.)	IP54		

PERFORMANCE IN ACCORDANCE WITH ISO 7183
* Compressor Absorbed Power (kW)
** Sound pressure level in accordance with ISO 3746
*** With Integrated Drain
**** The total pressure drop , including the water regulator valve , is about 1,7-2 bar

Operating limits:
Max / Min Ambient Temperature (°C): 50 / 5
Max / Min Air Inlet Temperature (°C): 65 / 5

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