

Engineering Data PSE1500 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	8895 / 9914	10028 / 11368	11268 / 12735
Air Pressure Drop (bar)	0,203 / 0,247	0,253 / 0,318	0,314 / 0,392
Air Temperature at Dryer Outlet (°C)	30,3 / 30,6	31,0 / 31	31,4 / 31,1
Adsorbed power (kW) *	10,68 / 12,8	10,79 / 12,92	10,89 / 13,04
Condenser Heat Rejected (kW)	52,97 / 60,14	56,85 / 64,26	60,5 / 68,36
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)	3,61 / 4,44	4,03 / 5,01	4,49 / 5,67
Water Pressure Drop****(bar)	0,13 / 0,18	0,15 / 0,23	0,19 / 0,29
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)	14,2		
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" 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)	1070		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	291		
F.L.A. Current (Amps)	52,3		
M.O.P. Current (Amps)	110		
M.C.A. Current (Amps)	65		
Total Installed Power (kW)	26,2 - 31		
Control Type	Microprocessor Advance Touch		
Fieldbus	Modbus RTU e il Modbus TCP/IP su RS485		
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