

Engineering Data PSE180 - Air Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	1083 / 1166	1202 / 1294	1331 / 1421
Air Pressure Drop (bar)	0,16 / 0,19	0,20 / 0,24	0,25 / 0,28
Air Temperature at Dryer Outlet (°C)	27,0 / 26,8	27,3 / 27,2	27,8 / 27,5
Adsorbed power (kW) *	1,51 / 1,86	1,54 / 1,90	1,57 / 1,95
Condenser Heat Rejected (kW)	7,98 / 8,99	8,47 / 9,53	8,9 / 9,99
REFERENCE DATA			
Working Pressure (bar g)	7		
Inlet Air Temperature (°C)	35		
Ambient Temperature (°C)	25		
Relative Humidity (%)	100		
GENERAL DATA			
Condenser Airflow (m³/h) / number of fans	2800 / 1		
Maximum Operating Pressure (bar g)	14		
Sound Pressure Level (dBA) (1 m free field)**	58		
Refrigerant Type	R513A		
Fridge Compressor Type / n°	Hermetic Scroll / 1		
Refrigerant Quantity (kg)	1,7		
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	1		
Separator Type	Demister		
Drain Type	Integrated or Electronic		
PIPING CONNECTIONS			
Air Inlet / Outlet	2" BSPP – F / 2" NPT with adapter		
Condensate Drain Inlet	½" BSP - F		
Condensate Drain Outlet ***	3/8" BSP - F		
DIMENSIONS + WEIGHT			
Width (mm)	703		
Height (mm)	1365		
Depth (mm)	1150		
Weight (kg)	210		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	48,5		
F.L.A. Current (Amps)	6.9		
M.O.P. Current (Amps)	10		
M.C.A. Current (Amps)	8.5		
Total Installed Power (kW)	3,5 – 4,2		
Control Type	Microprocessor Touch		
Fieldbus	Modbus RTU su RS485		
Electrical Protection Class (Std.)	IP44		

PERFORMANCE IN ACCORDANCE WITH ISO 7183

* Compressor Absorbed Power (kW)

** Sound pressure level in accordance with ISO 3746

*** With Integrated Drain

Operating limits:

Max / Min Ambient Temperature (°C): 50 / 5

Max / Min Air Inlet Temperature (°C): 65 / 5