

Engineering Data PSE1800 - Air Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	10808 / 11812	12025 / 12911	13168 / 14684
Air Pressure Drop (bar)	0,226 / 0,27	0,28 / 0,31	0,327 / 0,40
Air Temperature at Dryer Outlet (°C)	30,7 / 30,6	31 / 30,6	31,0 / 31,1
Adsorbed power (kW) *	13,45 / 16,41	13,71 / 16,7	13,9 / 16,97
Condenser Heat Rejected (kW)	64,5 / 72,61	68,4 / 76,98	72,73 / 81,75
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		19500 / 1	
Maximum Operating Pressure (bar g)		14	
Sound Pressure Level (dBA) (1 m free field)**		69	
Refrigerant Type		R513A	
Fridge Compressor Type / n°		Hermetic Scroll / 1	
Refrigerant Quantity (kg)		13	
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)		2040	
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

Operating limits:

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

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