

Engineering Data PSE1200 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	7072 / 8046	8061 / 8983	9040 / 10154
Air Pressure Drop (bar)	0,208 / 0,268	0,27 / 0,334	0,34 / 0,427
Air Temperature at Dryer Outlet (°C)	31,5 / 31,5	31,7 / 31,5	32 / 31,8
Adsorbed power (kW) *	7,92 / 9,51	7,96 / 9,54	8 / 9,59
Condenser Heat Rejected (kW)	42,37 / 47,95	45,35 / 50,77	48,32 / 54,35
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)	2,65 / 3,12	2,89 / 3,39	3,15 / 3,75
Water Pressure Drop ****(bar)	0,07 / 0,09	0,08 / 0,11	0,09 / 0,13
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)		8,3	
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		2	
Separator Type		Demister	
Drain Type		Integrated or Electronic	
PIPING CONNECTIONS			
Air Inlet / Outlet		PN 16 - DN 150 / ANSI 4" 150 LBS	
Condensate Drain Inlet		½" BSP - F	
Condensate Drain Outlet ***		3/8" BSP - F	
DIMENSIONS + WEIGHT			
Width (mm)		1205	
Height (mm)		1900	
Depth (mm)		1974	
Weight (kg)		850	
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)		400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz	
L.R.A. Current (Amps)		229,7	
F.L.A. Current (Amps)		37,8	
M.O.P. Current (Amps)		80	
M.C.A. Current (Amps)		47	
Total Installed Power (kW)		20,2 – 24,2	
Control Type		Microprocessor Advance Touch	
Fieldbus		Modbus RTU e il Modbus TCP/IP su RS485	
Electrical Protection Class (Std.)	20,2 – 24,2	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