

Engineering Data PSE220 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	1232 / 1351	1383 / 1534	1555 / 1727
Air Pressure Drop (bar)	0,08 / 0,095	0,10 / 0,122	0,13 / 0,155
Air Temperature at Dryer Outlet (°C)	28,1 / 28	28,5 / 28,2	29 / 28,7
Adsorbed power (kW) *	1,96 / 2,35	1,97 / 2,35	1,97 / 2,36
Condenser Heat Rejected (kW)	8,86 / 10,05	9,48 / 10,74	10,04 / 11,38
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)	0,62 / 0,77	0,7 / 0,88	0,77 / 0,99
Water Pressure Drop **** (bar)	0,04 / 0,06	0,04 / 0,07	0,06 / 0,08
Condensing Temperature (°C)	40		
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)	2,8		
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	2½" BSPP – F / 2" ½ NPT with adapter		
Condensate Drain Inlet	½" BSP - F		
Condensate Drain Outlet ***	3/8" BSP - F		
DIMENSIONS + WEIGHT			
Width (mm)	703		
Height (mm)	1280		
Depth (mm)	1268		
Weight (kg)	260		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	70		
F.L.A. Current (Amps)	9,45		
M.O.P. Current (Amps)	15		
M.C.A. Current (Amps)	11,5		
Total Installed Power (kW)	4,2 – 5,3		
Control Type	Microprocessor 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