

Engineering Data PSE520 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	3073 / 3443	3545 / 3905	3926 / 4378
Air Pressure Drop (bar)	0,21 / 0,26	0,275 / 0,328	0,332 / 0,405
Air Temperature at Dryer Outlet (°C)	30,6 / 30,6	31 / 30,8	31,0 / 31
Adsorbed power (kW) *	4,27 / 5,12	4,29 / 5,14	4,3 / 5,16
Condenser Heat Rejected (kW)	19,76 / 22,5	21,1 / 23,96	22,5 / 25,45
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)	1,31 / 1,59	1,45 / 1,77	1,59 / 1,98
Water Pressure Drop****(bar)	0,1 / 0,15	0,13 / 0,18	0,15 / 0,23
Condensing Temperature	40		
Sound Pressure Level (dBA) (1 m free field)**	58		
Refrigerant Type	R513A		
Fridge Compressor Type / n°	Hermetic Scroll / 1		
Refrigerant Quantity (kg)	3,2		
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	1		
Separator Type	Demister		
Drain Type	Integrated or Electronic		
PIPING CONNECTIONS			
Air Inlet / Outlet	PN 16 - DN 100 / ANSI 4" 150 LBS		
Condensate Drain Inlet	½" BSP - F		
Condensate Drain Outlet ***	3/8" BSP - F		
DIMENSIONS + WEIGHT			
Width (mm)	973		
Height (mm)	1900		
Depth (mm)	1287		
Weight (kg)	380		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	119,5		
F.L.A. Current (Amps)	17,4		
M.O.P. Current (Amps)	35		
M.C.A. Current (Amps)	21,5		
Total Installed Power (kW)	8,9 – 10,4		
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

**** 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