

Engineering Data PSE350 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	2047 / 2242	2283 / 2488	2560 / 2765
Air Pressure Drop (bar)	0,23 / 0,276	0,288 / 0,34	0,363 / 0,423
Air Temperature at Dryer Outlet (°C)	27,0 / 26,8	27,3 / 27,2	27,8 / 27,5
Adsorbed power (kW) *	3,08 / 3,69	3,1 / 3,71	3,11 / 3,73
Condenser Heat Rejected (kW)	15,83 / 17,86	16,8 / 18,8	17,8 / 19,93
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)	0,98 / 1,14	1,05 / 1,22	1,14 / 1,32
Water Pressure Drop **** (bar)	0,06 / 0,08	0,07 / 0,09	0,08 / 0,1
Condensing Temperature (°C)	40		
Sound Pressure Level (dBA) (1 m free field)**	58		
Refrigerant Type	R513a		
Fridge Compressor Type / n°	Hermetic Scroll / 1		
Refrigerant Quantity (kg)	2,9		
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)	270		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	105		
F.L.A. Current (Amps)	13.95		
M.O.P. Current (Amps)	25		
M.C.A. Current (Amps)	17.5		
Total Installed Power (kW)	6.6 – 9		
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