

Engineering Data PSE750 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	4442 / 5082	4986 / 5654	5684 / 6423
Air Pressure Drop (bar)	0,167 / 0,213	0,21 / 0,26	0,263 / 0,328
Air Temperature at Dryer Outlet (°C)	31,0 / 31,0	31,3 / 31,3	31,4 / 31,4
Adsorbed power (kW) *	5,97 / 7,16	5,97 / 7,17	5,97 / 7,17
Condenser Heat Rejected (kW)	27,8 / 31,59	29,5 / 33,57	31,56 / 35,71
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)	1,93 / 2,4	2,13 / 2,7	2,4 / 3,07
Water Pressure Drop ****(bar)	0,14 / 0,21	0,17 / 0,27	0,21 / 0,34
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)	8,1		
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 6" 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)	730		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	189,7		
F.L.A. Current (Amps)	31,6		
M.O.P. Current (Amps)	65		
M.C.A. Current (Amps)	39		
Total Installed Power (kW)	15 - 18		
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 water 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