

Engineering Data PSE300 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	1797 / 1980	1980 / 2217	2238 / 2443
Air Pressure Drop (bar)	0,17 / 0,21	0,21 / 0,26	0,265 / 0,315
Air Temperature at Dryer Outlet (°C)	27,4 / 27,1	27,9 / 27,6	28,2 / 27,9
Adsorbed power (kW) *	2,65 / 3,18	2,67 / 3,2	2,68 / 3,22
Condenser Heat Rejected (kW)	13,12 / 14,81	13,87 / 15,72	14,7 / 16,55
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)	1,43 / 2,25	1,72 / 3,04	2,13 / 44
Water Pressure Drop (bar)	0,17 / 0,4	0,25 / 0,7	0,36 / 1,4
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)		2,8	
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)	264		
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)	400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz		
L.R.A. Current (Amps)	92		
F.L.A. Current (Amps)	10,7		
M.O.P. Current (Amps)	20		
M.C.A. Current (Amps)	13		
Total Installed Power (kW)	6,2 – 7,6		
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