

Engineering Data PSE630 - Water Cooled 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	3697 / 4239	4229 / 4816	4742 / 5372
Air Pressure Drop (bar)	0,222 / 0,291	0,291 / 0,376	0,366 / 0,468
Air Temperature at Dryer Outlet (°C)	31,3 / 31,3	31,6 / 31,6	31,8 / 31,8
Adsorbed power (kW) *	4,22 / 5,06	4,23 / 5,08	4,25 / 5,09
Condenser Heat Rejected (kW)	22,2 / 25,27	23,86 / 26,77	25,42 / 28,49
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)	1,57 / 1,95	1,76 / 2,18	1,97 / 2,5
Water Pressure Drop ****(bar)	0,14 / 0,22	0,18 / 0,27	0,22 / 0,35
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)		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)		420	
ELECTRICAL DATA			
Electrical Supply (+/- 10%) (AC)		400V / 3Ph / 50 Hz- 460V / 3Ph / 60Hz	
L.R.A. Current (Amps)		149,5	
F.L.A. Current (Amps)		20,5	
M.O.P. Current (Amps)		40	
M.C.A. Current (Amps)		25,5	
Total Installed Power (kW)		10 – 11,7	
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