

## Engineering Data PST460 - Water Cooled Data 50 / 60 Hz

PERFORMANCE DATA			
Pressure Dew Point (°C)	3	5	7
Airflow Capacity (m³/h FAD 20°C)	2690 / 3013	3086 / 3409	3481 / 3794
Air Pressure Drop (bar)	0,153 / 0,19	0,197 / 0,236	0,246 / 0,288
Air Temperature at Dryer Outlet (°C)	30,7 / 30,7	31,1 / 30,9	31,4 / 31,1
Adsorbed power (kW) *	3,1 / 3,72	3,12 / 3,74	3,14 / 3,76
Condenser Heat Rejected (kW)	16,32 / 18,53	17,5 / 19,78	18,65 / 20,92
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)	1,01 / 1,2	1,11 / 1,31	1,21 / 1,42
Water Pressure Drop **** (bar)	0,06 / 0,87	0,07 / 0,1	0,09 / 0,12
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)	3		
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)	104,5		
F.L.A. Current (Amps)	14,2		
M.O.P. Current (Amps)	30		
M.C.A. Current (Amps)	17,5		
Total Installed Power (kW)	7,6 – 9,0		
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