WPR100L

Vertical Water Cooled Packaged

TECHNICAL SPECIFICATION							
Total Cooling Capacity	96.6 kW	Refrigerant	R410A				
Electrical Input (Cooling)	23.8kW	Refrigerant Charge	2*4.5+2.5kg				
E.E.R.(Cooling)	4.06	Minimum Water Flow	4.64 l/s				
Running Amps (Total)	67.6A	Water Coil Pressure Drop	48kPa				
Fan Motor Full Load Amps	11.6A	Filter (Option)	EU1				
Electrical Supply Required	3 Ph.415V.50Hz	Electric Heat (Option)	70 kW				

COOLING CAPACITY (kW)

AIR FLOW RATE (L/S)			5000		
COIL E.A.T.	DB℃ WB℃		23	27	31
			17	19	21
Entering Water Temperature (E.W.T) °C	20	Т	102.6	108.0	114.5
		S	73.6	84.3	94.6
		FL	5.8	5.8	5.8
		HR	126.2	131.4	138.3
	25	Т	97.6	103.8	114.2
		S	74.2	82.5	94.5
		FL	5.8	5.8	5.8
		HR	121.5	127.4	138.3
	30	Т	91.8	96.6	107.9
		S	68.8	79.4	92.0
		FL	5.8	5.8	5.8
		HR	115.1	120.4	132.4
	35	Т	85.8	90.3	93.9
		S	66.2	76.8	86.4
		FL	5.8	5.8	5.8
		HR	109.6	114.3	118.4
	40	Т	81.9	84.0	88.2
		S	64.5	74.2	84.2
		FL	5.8	5.8	5.8
		HR	106.6	108.0	113.4

 T = Total Capacity (kW)
 S = Sensible Capacity (kW)
 FL = Water Flow (I/s)

 E.A.T.= Entering Air Temperature (°C)
 __ = Nominal Capacity (kW)
 HR = Heat Rejection

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E.A.T.= Entering Air Temperature (°C) ____ = Nominal Capacity (kW) HR = Heat Rejection Note: 1. Capacities are gross and do not include allowance for fan motor heat loss. For fan motor heat loss refers to Air Handling Performance.

2. Water flow and cooling capacity based on 5 $^\circ$ C water temperature difference

HEATING CAPACITY (kW)

WPR Reverse Cycle Version

AIR FLOW RATE (L/S)		5000				
WATE FLOW RATE (L/S)			5.8			
COIL E.A.T.	DB °C		18	21	25	
Entering Water Temperature	15	HC	97.7	96.6	92.4	
		Hab	73.7	72.4	68.6	
		LWT	11.0	11.0	11.2	
		INPT	24.2	24.0	23.8	
(E.W.T) °C	20	HC	103.7	102.5	97.6	
		Hab	78.5	77.2	73.2	
		LWT	15.7	15.8	16.0	
		INPT	25.3	25.3	24.4	
		HC	112.8	110.9	107.2	
	25	Hab	85.7	83.9	80.9	
		LWT	20.4	20.4	20.6	
		INPT	27.1	27.1	26.4	

 HC = Heating Capacity (kW)
 Hab = Heat Absorbed (kW)
 L.W.T.= Leaving Water Temperature (°C)

 E.A.T.= Entering Air Temperature (°C)
 INPT = Compressor Input Power (kW)
 ____ = Nominal Capacity (kW)

Note: All units are reverse cycle heat pump units. Models can also be provided as cooling only or cooling with electric heater.



DIMENSIONS (mm)

WATER SUPPLY & RETURN



CONDENSATE DRAIN



AIR HANDLING PERFORMANCE

Fan Curve (Without Filter)



Note:

- In tropical (high humidity) conditions, care must be token to select an air flow which gives a suitable coil face air velocity, to prevent water carry over. For applications with low resistance, be sure not to exceed the fan motor full load Amps.
- 1. 2. 3. 4.
- EU1 rate filter pressure loss 15Pa.

Sound Levels



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WIRING DIAGRAM





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