

WPR8L

Packaged Vertical Type

TECHNICAL SPECIFICATION

Total Cooling Capacity	8.0 kW	Refrigerant	R410A
Electrical Input (Cooling)	2.0 kW	Refrigerant Charge	1.5 kg
E.E.R.(Cooling)	4.0	Minimum Water Flow	0.4 l/s
Running Amps (Total)	12.5A	Water Coil Pressure Drop	38 kPa
Fan Motor Full Load Amps	2.0A	Filter (Option)	EU1
Electrical Supply Required	1 Ph.240V.50Hz	Electric Heater (Option)	6.0 kW

COOLING CAPACITY (kW)

AIR FLOW RATE (L/S)			420			
COIL E.A.T.	DB °C		23	27	31	
	WB °C		17	19	21	
Entering Water Temperature (E.W.T) °C	20	Т	8.5	8.9	9.4	
		S	6.1	7.0	7.9	
		FL	0.5	0.5	0.5	
		HR	10.3	10.8	11.2	
	25	Т	8.1	8.6	9.5	
		S	6.2	6.9	7.9	
		FL	0.5	0.5	0.5	
		HR	10.0	10.5	11.5	
	30	Т	7.6	<u>8.0</u>	8.9	
		S	5.7	<u>6.6</u>	7.7	
		FL	0.5	<u>0.5</u>	0.5	
		HR	9.6	<u>10.0</u>	11.0	
	35	Т	7.1	7.5	7.8	
		S	5.5	6.4	7.2	
		FL	0.5	0.5	0.5	
		HR	9.1	9.5	9.9	
	40	Т	6.8	7.0	7.3	
		S	5.0	6.2	7.0	
		FL	0.5	0.5	0.5	
		HR	8.8	9.0	9.4	

T = Total Capacity (kW)
FL = Water Flow (l/s)
___ = Nominal Capacity (kW)

S = Sensible Capacity (kW)

E.A.T.= Entering Air Temperature (°C)

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 $5\,^\circ\!\mathbb{C}$ water temperature difference.

HEATING CAPACITY (kW)

WPR Reverse Cycle Version

AIR FLOW RATE (L/S)			420			
WATE FLOW RATE (L/S)			0.5			
COIL E.A.T.	DB °C		18	21	25	
Entering Water Temperature (E.W.T) °C	15	НС	8.1	8.0	7.6	
		Hab	6.1	6.0	5.6	
		LWT	11.1	11.2	11.4	
		INPT	2.0	2.0	2.0	
	20	НС	8.6	<u>8.5</u>	8.1	
		Hab	6.6	<u>6.5</u>	6.1	
		LWT	15.9	<u>15.9</u>	16.1	
		INPT	2.0	2.0	2.0	
	25	НС	9.3	9.2	8.9	
		Hab	7.2	7.1	6.7	
		LWT	20.5	20.6	20.8	
		INPT	2.1	2.1	2.1	

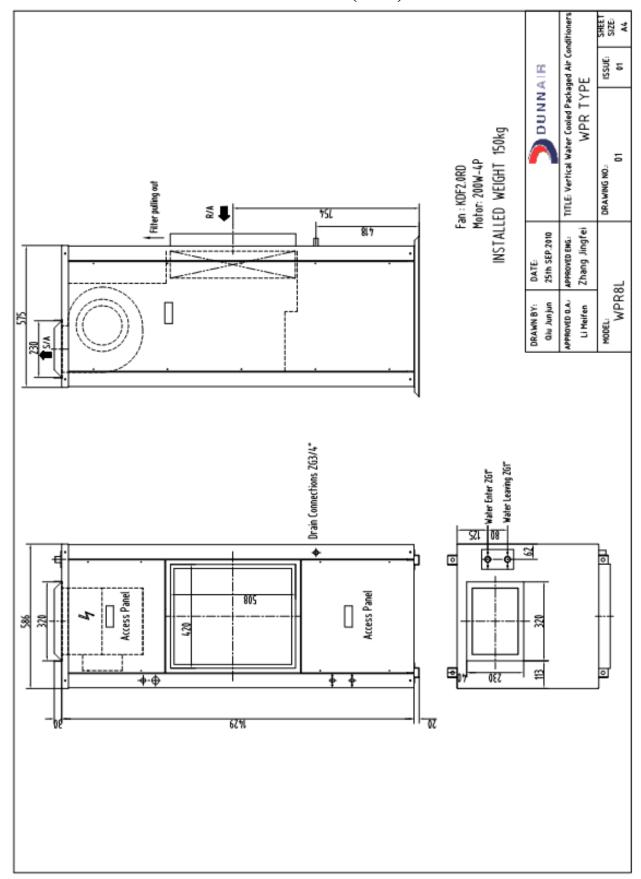
HC = Heating Capacity (kW)
L.W.T.= Leaving Water Temperature (°C)

Hab = Heat Absorbed (kW)

L.W.T.= Leaving Water Temperature ($^{\circ}$ C) E.A.T.= Entering Air Temperature ($^{\circ}$ C) INPT = Compressor Input Power (kW) __ = Nominal Capacity (kW)

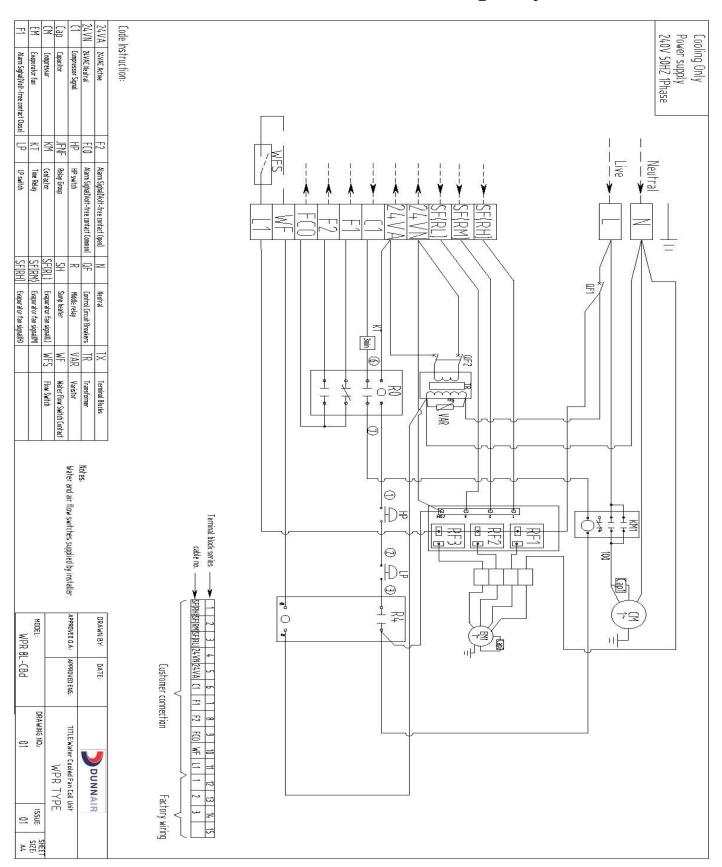
Note: All units are reverse cycle heat pump units. Models can also be provided as cooling only or cooling only with electric heater.

DIMENSIONS (mm)



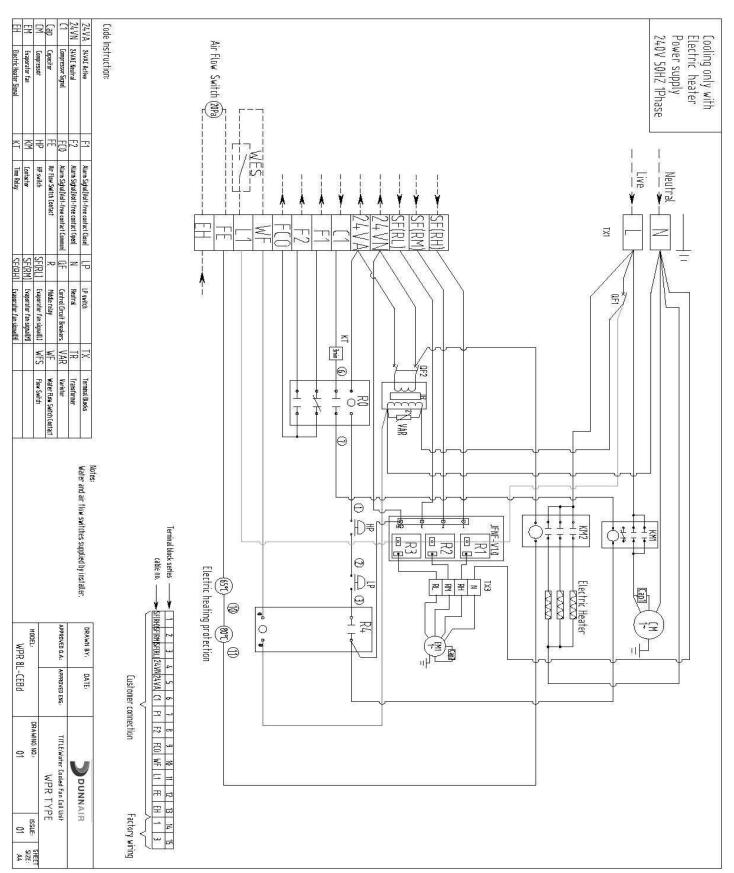


WIRING DIAGRAMS - Cooling Only



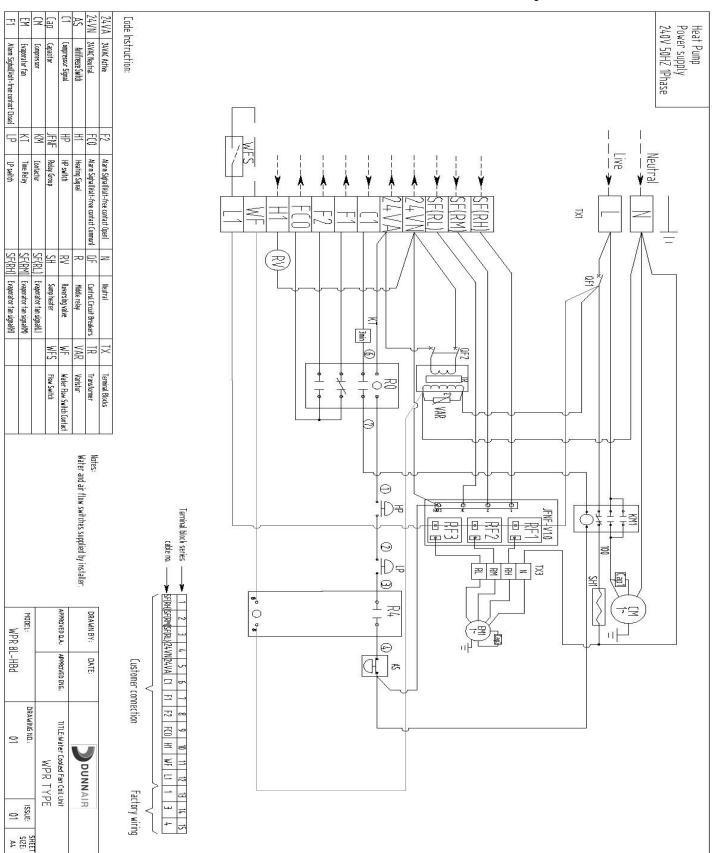


WIRING DIAGRAMS – Cooling Only with Electric Heater





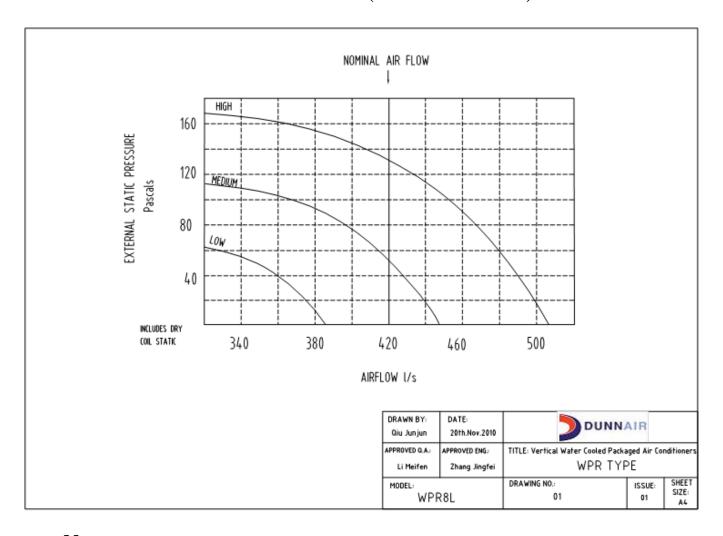
WIRING DIAGRAMS – Reverse Cycle





AIR HANDLING PERFORMANCE

Fan Curve (Without Filter)



Note:

- 1. In tropical (high humidity) conditions, care must be taken to select an air flow which gives a suitable coil face air velocity, to prevent water carry over.
- 2. For applications with low resistance, be sure not to exceed the fan motor full load Amps.
- **3.** Applications using full or high proportions of fresh air should be referred to DUNNAIR engineering office to establish of unit model.
- 4. EU1 rate filter pressure loss 15Pa.



AIR HANDLING PERFORMANCE

Sound Levels

