

WPR12L

Packaged Vertical Type

TECHNICAL SPECIFICATION

Total Cooling Capacity	11.6 kW	Refrigerant	R410A
Electrical Input (Cooling)	3.28kW	Refrigerant Charge	2.0 kg
E.E.R.(Cooling)	3.5	Minimum Water Flow	0.528 l/s
Running Amps (Total)	20.9A	Water Coil Pressure Drop	40 kPa
Fan Motor Full Load Amps	3.0A	Filter (Option)	EU1
Electrical Supply Required	1 Ph.240V.50Hz	Electric Heater (Option)	9.0 kW

AIR FLOW RATE (L/S)			660			
COIL E.A.T.	DB °C		23	27	31	
	WB °C		17	19	21	
Entering Water Temperature (E.W.T) °C	20	Т	12.3	13.0	13.6	
		S	8.2	9.2	10.1	
		FL	0.7	0.7	0.7	
		HR	15.4	16.0	16.8	
	25	Т	11.7	12.5	13.7	
		S	8.3	9.0	10.2	
	25	FL	0.7	0.7	0.7	
		HR	15.0	14.9	16.3	
		Т	11.0	<u>11.6</u>	13.0	
	30	S	8.3	<u>9.0</u>	9.9	
		FL	0.7	<u>0.7</u>	0.7	
		HR	14.2	<u>14.9</u>	16.3	
	35	Т	10.3	10.8	11.3	
		S	7.2	8.3	9.2	
		FL	0.7	0.7	0.7	
		HR	13.5	14.0	14.5	
	40	Т	9.8	10.1	10.6	
		S	7.0	7.9	8.9	
		FL	0.7	0.7	0.7	
		HR	13.0	13.2	13.9	

FL = Water Flow (I/s)

T = Total Capacity (kW) S = Sensible Capacity (kW) E.A.T.= Entering Air Temperature ($^{\circ}$ C)

__ = Nominal Capacity (kW) HR = Heat Rejection

COOLING CAPACITY (kW)

HEATING CAPACITY (kW)

WPR Reverse Cycle Version

AIR FLOW RATE (L/S)			660			
WATE FLOW RATE (L/S)			0.7			
COIL E.A.T.	DB °C		18	21	25	
Entering Water Temperature (E.W.T) °C	15	НС	11.8	11.7	11.1	
		Hab	8.4	8.3	7.8	
		LWT	11.0	11.0	11.2	
		INPT	3.3	3.3	3.3	
	20	НС	12.5	<u>12.4</u>	11.8	
		Hab	9.2	<u>9.0</u>	8.6	
		LWT	15.7	<u>15.8</u>	16.0	
		INPT	3.3	3.3	3.3	
	25	НС	13.6	13.4	12.9	
		Hab	10.1	9.9	9.3	
		LWT	20.4	20.4	20.6	
		INPT	3.5	3.5	3.6	

HC = Heating Capacity (kW) L.W.T.= Leaving Water Temperature ($^{\circ}$ C) E.A.T.= Entering Air Temperature ($^{\circ}$ C)

Hab = Heat Absorbed (kW)

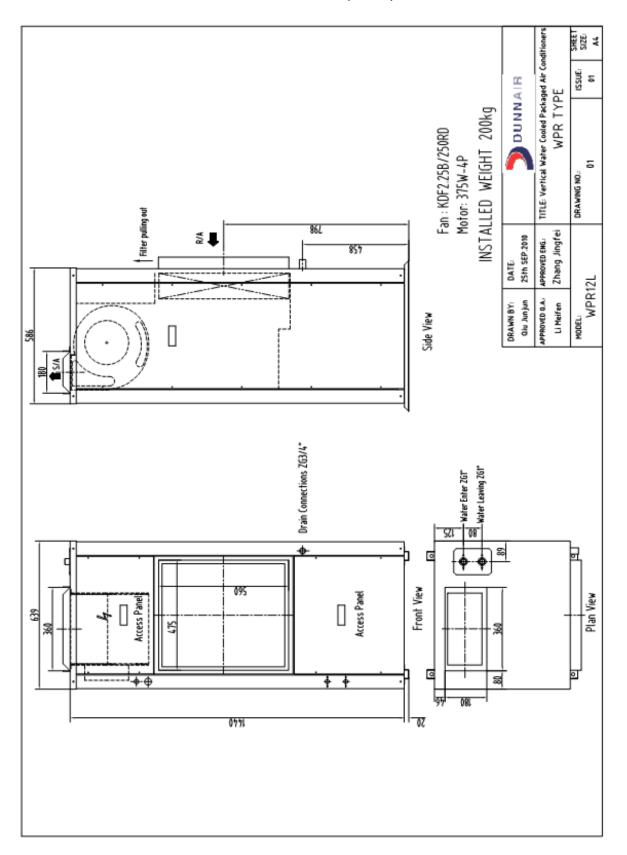
INPT = Compressor Input Power (kW)

__ = 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.

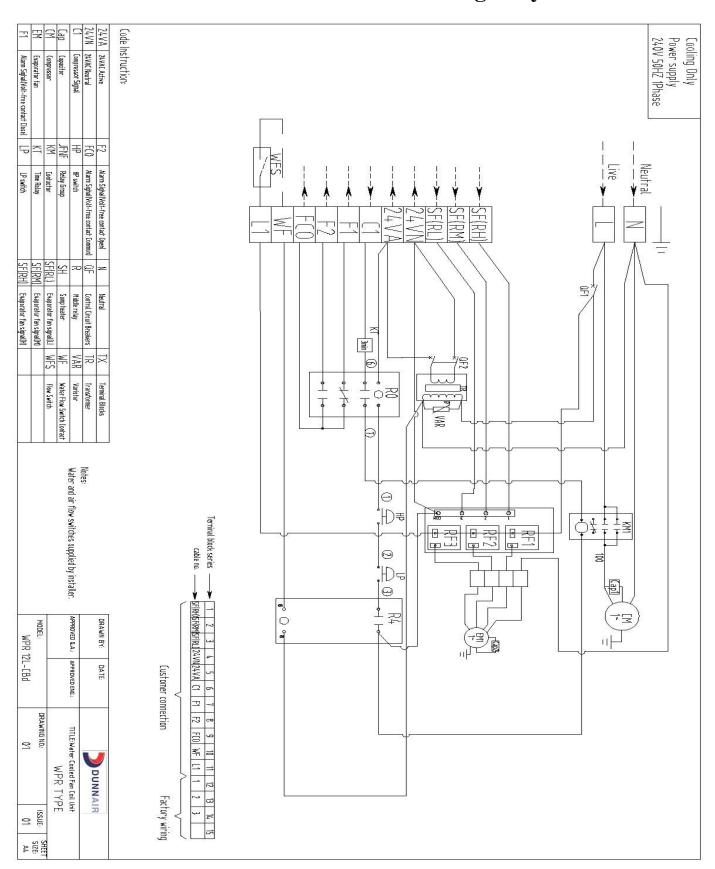
- Note: 1. Capacities are gross and do not include allowance for fan motor heat loss. For fan motor heat loss refers to Air Handling Performance.
 - difference.

DIMENSIONS (mm)



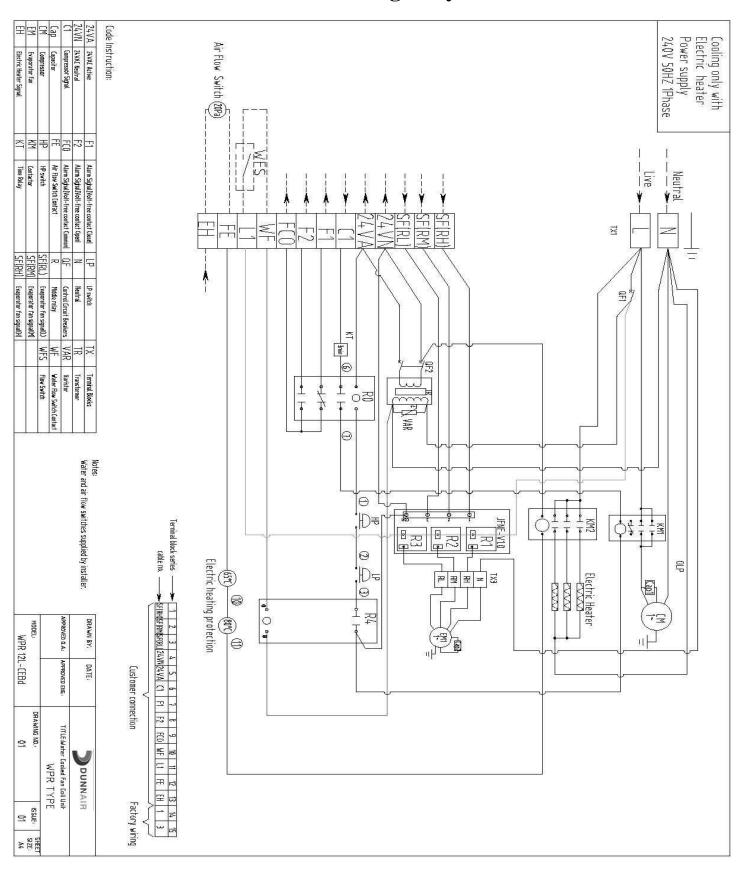


WIRING DIAGRAMS - Cooling Only



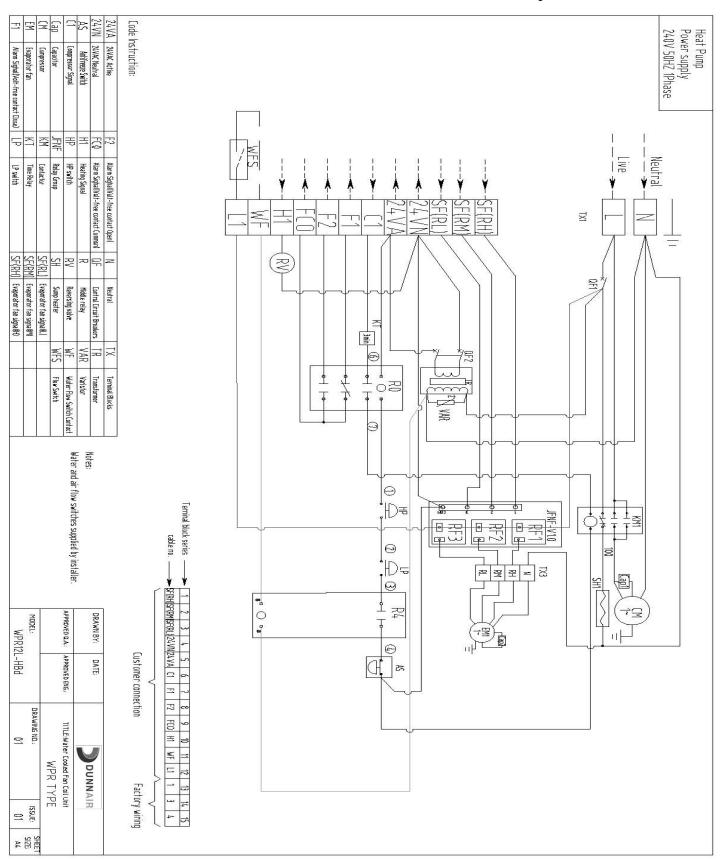


WIRING DIAGRAMS - Cooling Only with Electric Heater





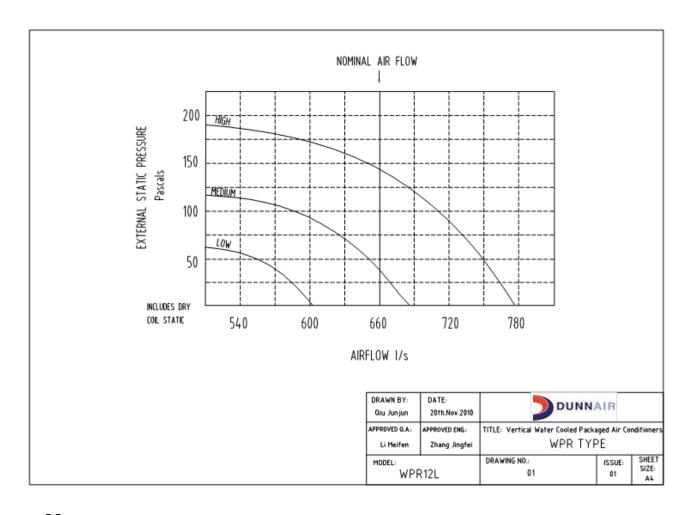
WIRING DIAGRAMS – Reverse Cycle





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.
- 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

