



DWAI-14HAB

Packaged Horizontal Type

TECHNICAL SPECIFICATION

Total Cooling Capacity (kW)	14.0	Refrigerant	R410A
Electrical Input (Cooling)(kW)	3.68	Refrigerant Charge (kg)	1.9
E.E.R.(Cooling)	3.80	Minimum Water Flow (l/s)	0.85
Running Amps (Normal) / Max. Amps (A)	15.33 / 18.30	Water Coil Pressure Drop (kPa)	44
Fan Motor Full Load Amps (A)	1.8	Filter (Option)	
Electrical Supply Required	1 Ph.240V.50Hz		

COOLING CAPACITY (kW)

AIR FLOW RATE (L/S)			750			
COIL E.A.T.	DB ℃		23	27	31	
	WB ℃		17	19	21	
Entering Water Temperature	20	Т	14.9	15.7	16.6	
		S	10.7	11.5	11.7	
		FL	0.9	0.9	0.9	
		HR	18.5	19.2	20.1	
	25	Т	14.1	14.8	15.1	
		S	10.6	11.3	11.6	
		FL	0.9	0.9	0.9	
		HR	17.8	18.7	20.4	
	30	Т	13.2	<u>14.0</u>	14.7	
		S	10.5	<u>11.1</u>	11.5	
		FL	0.9	<u>0.9</u>	0.9	
(E.W.T) °C		HR	16.9	<u>17.7</u>	19.5	
	35	Т	12.6	13.4	14.1	
		S	10.3	10.5	11	
		FL	0.9	0.9	0.9	
		HR	15.9	16.6	17.2	
	40	Т	12.2	12.7	13.4	
		S	10.2	10.4	10.9	
		FL	0.9	0.9	0.9	
		HR	15.4	15.6	16.4	

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

Reverse Cycle Version

AIR FLOW RATE (L/S)			750			
WATER FLOW RATE (L/S)			0.9			
COIL E.A.T.	DB ℃		18	21	25	
Entering Water Temperature (E.W.T) °C	15	НС	13.6	13.4	12.8	
		Hab	9.9	9.7	9.3	
		LWT	11.4	11.4	11.6	
		INPT	3.02	3.12	3.22	
	20	НС	14.9	<u>14.8</u>	14.1	
		Hab	10.7	<u>10.6</u>	10.0	
		LWT	16.2	<u>16.2</u>	16.4	
		INPT	3.11	<u>3.22</u>	3.34	
	25	НС	15.7	15.4	14.9	
		Hab	11.8	11.5	10.9	
		LWT	20.8	20.9	21.0	
		INPT	3.22	3.33	3.44	

HC = Heating Capacity (kW) L.W.T.= Leaving Water Temperature ($^{\circ}$ C) INPT = Compressor Input Power (kW)

Hab = Heat Absorbed (kW) E.A.T.= Entering Air Temperature ($^{\circ}$ C)

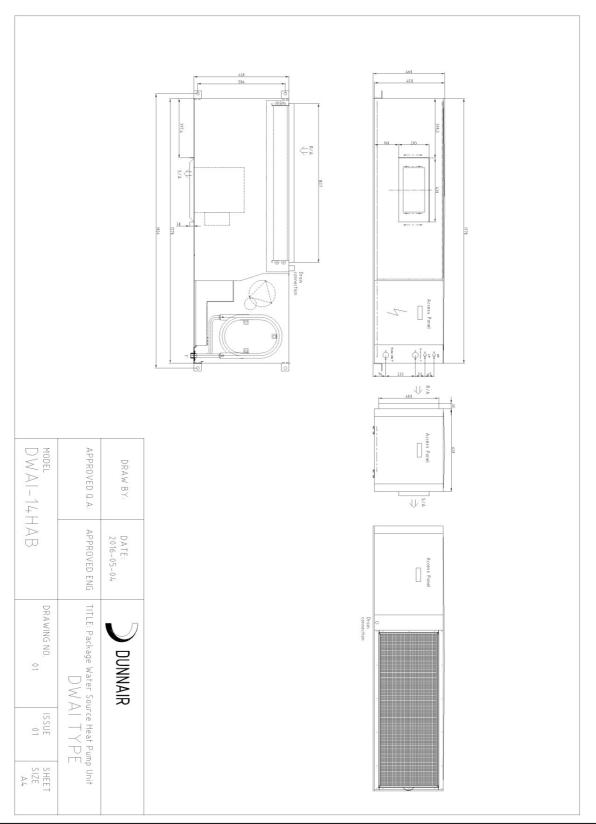
__ = Nominal Capacity (kW)

Note: All units are reverse cycle heat pump units.

DUNNAIR (Aust) Pty Ltd supports a policy of continuous improvement. Therefore specifications and designs are subject to change without prior notice.

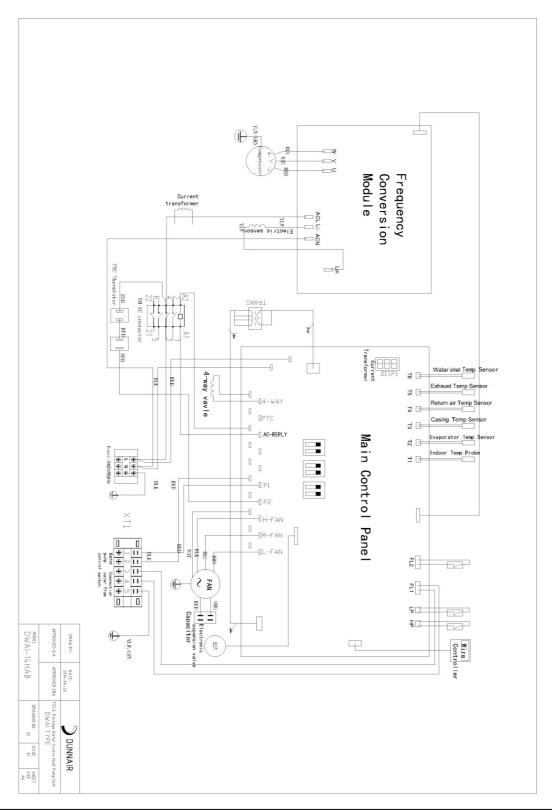
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DIMENSIONS (mm)





WIRING DIAGRAMS – Reverse Cycle





AIR HANDLING PERFORMANCE

Fan Curve (Without Filter)



Note:

- **1.** In tropical (high humidity) conditions, care must be taken to select 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 Curve

