



DUNNAIR
(Aust) Pty Ltd

Water Cooled



DWAIS8

Split Ducted Type

TECHNICAL SPECIFICATION

Total Cooling Capacity	8.0 (2.0-8.6) kW	Refrigerant	R410A
Electrical Input (Cooling)	2.17 kW	Refrigerant Charge	1.6 kg
E.E.R.(Cooling)	3.69	Minimum Water Flow	0.40 l/s
Running Amps (Total)	13A	Water Coil Pressure Drop	36 kPa
Fan Motor Full Load Amps	1.0A	Electrical Supply Required	1 Ph.240V.50Hz

COOLING CAPACITY (kW)

AIR FLOW RATE (L/S)		370			
COIL E.A.T.	DB °C	23	27	31	
	WB °C	17	19	21	
Entering Water Temperature (E.W.T) °C	20	T	8.3	8.5	8.7
		S	6.3	6.8	7.2
		FL	0.47	0.47	0.47
		HR	9.1	9.2	9.5
	25	T	8.1	8.3	8.4
		S	6.2	6.7	7.0
		FL	0.47	0.47	0.47
		HR	8.9	9.0	9.4
	30	T	7.8	<u>8.0</u>	8.2
		S	6.0	<u>6.6</u>	6.9
		FL	0.47	<u>0.47</u>	0.47
		HR	8.6	<u>8.7</u>	9.1
	35	T	7.7	7.9	8.1
		S	5.9	6.4	6.6
		FL	0.47	0.47	0.47
		HR	8.3	8.4	8.6
	40	T	7.5	7.6	7.8
		S	5.8	6.3	6.6
		FL	0.47	0.47	0.47
		HR	8.1	8.0	8.4

HEATING CAPACITY (kW)

AIR FLOW RATE (L/S)		370			
WATE FLOW RATE (L/S)		0.47			
COIL E.A.T.	DB °C	18	21	25	
Entering Water Temperature (E.W.T) °C	15	HC	8.2	8.0	7.9
		Hab	6.5	6.3	6.2
		LWT	11.2	11.3	11.5
		INPT	2.11	2.13	2.15
	20	HC	8.4	<u>8.3</u>	8.2
		Hab	6.7	<u>6.5</u>	6.4
		LWT	15.6	<u>15.7</u>	15.8
		INPT	2.16	<u>2.20</u>	2.25
	25	HC	8.8	8.6	8.6
		Hab	7.0	6.8	6.6
		LWT	20.3	20.4	20.5
		INPT	2.28	2.30	2.34

HC = Heating Capacity (kW)

L.W.T.= Leaving Water Temperature (°C)

INPT = Compressor Input Power (kW)

Hab = Heat Absorbed (kW)

E.A.T.= Entering Air Temperature (°C)

___ = Nominal Capacity (kW)

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°C water temperature difference.

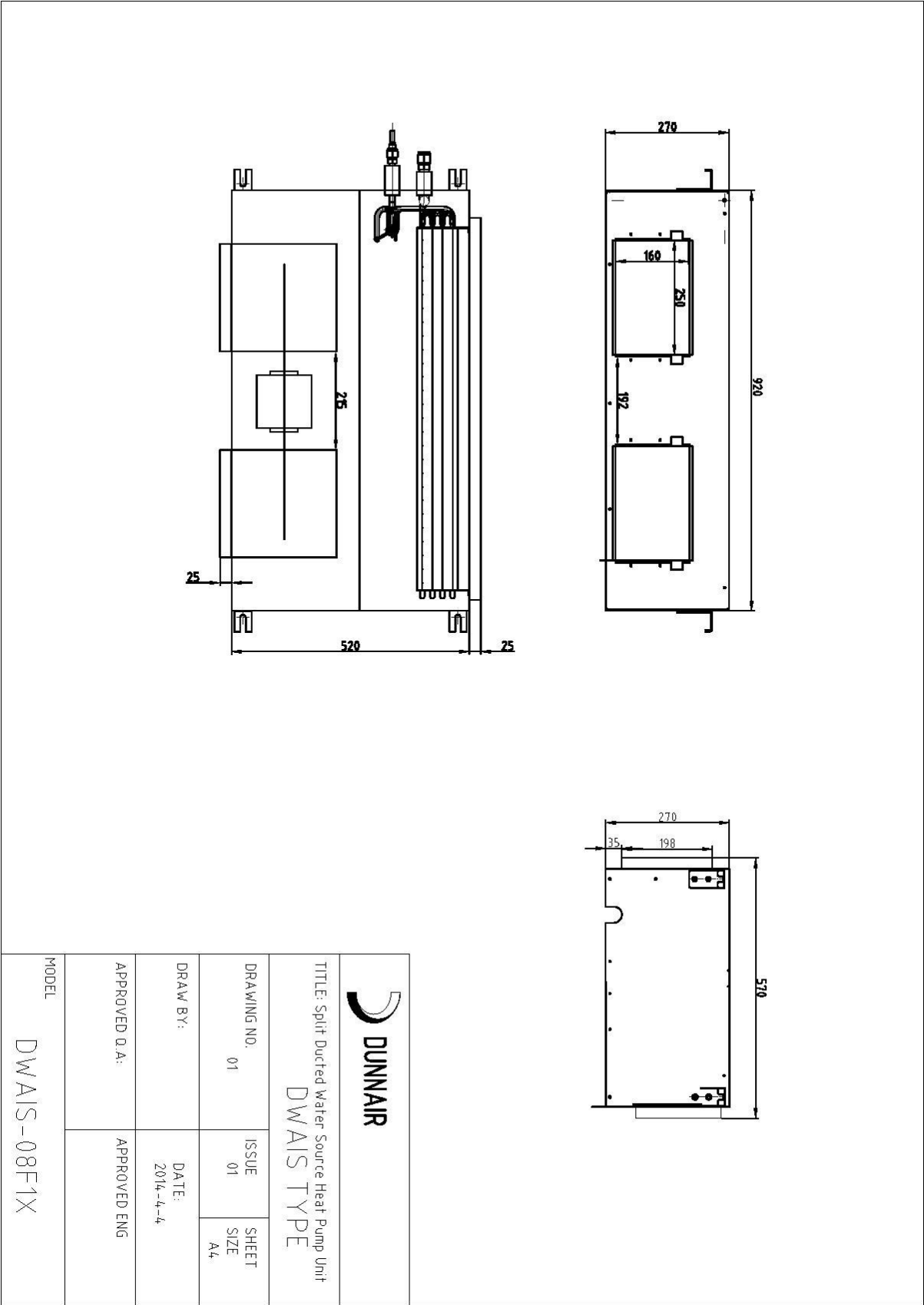
Note:

All units are reverse cycle heat pump units. Models can also be provided as cooling only.

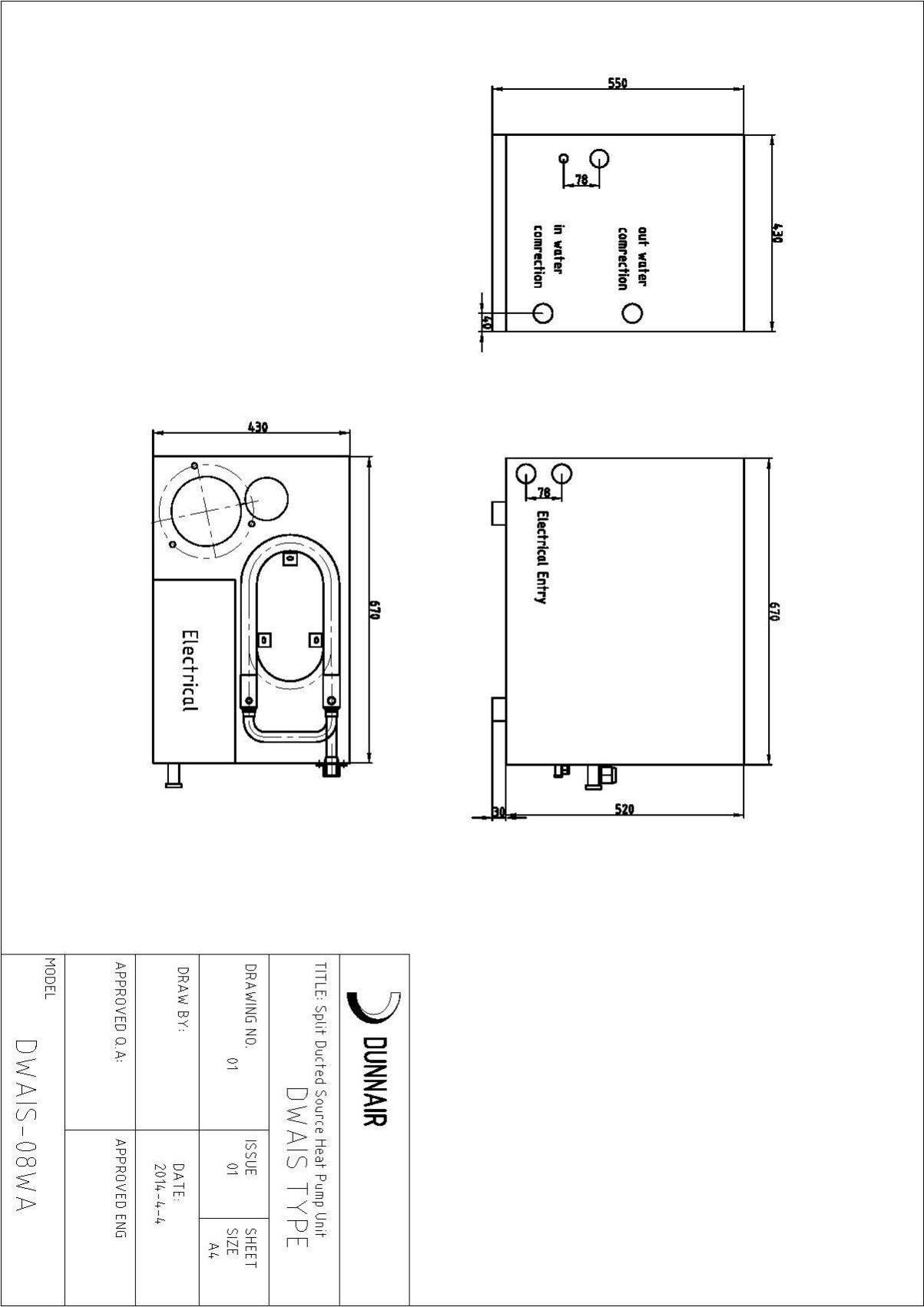
Unit comes with EU1 rated Nylon filter.

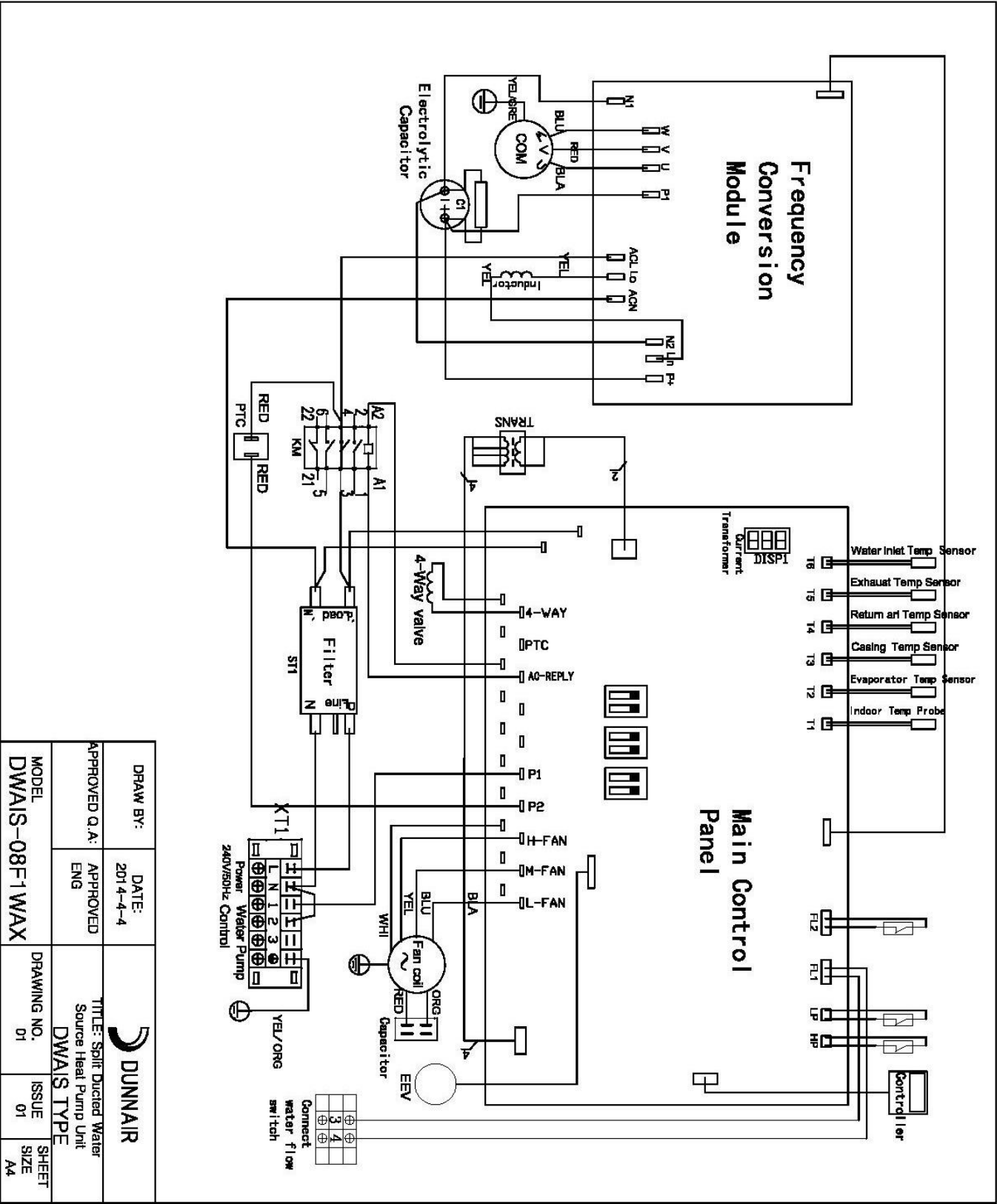
Water flow switch shall be prepared by installer.

INDOOR UNIT DIMENSIONS (mm)



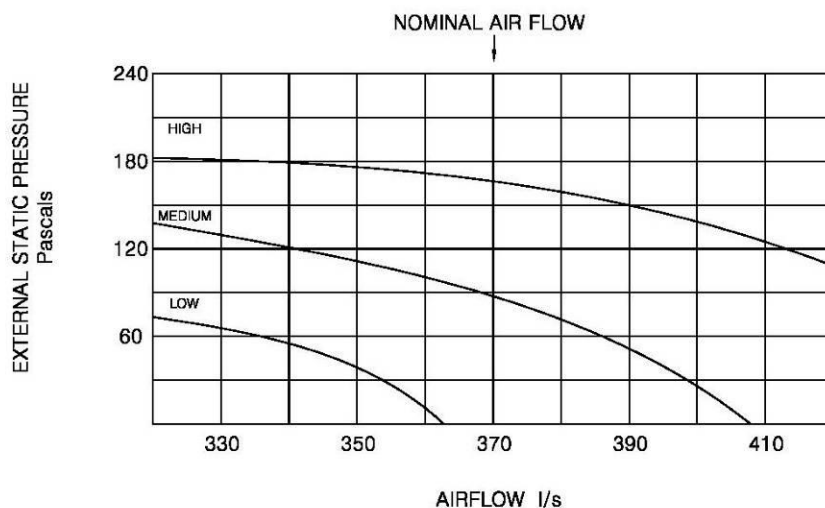
OUTDOOR UNIT DIMENSIONS (mm)





AIR HANDLING PERFORMANCE

Fan Curve (Without Filter)



DRAW BY:	DATE: 2014-4-4	DUNNAIR		
APPROVED Q.A.:	APPROVED ENG	TITLE: Split Ducted Water Source Heat Pump Unit DWAIS TYPE		
MODEL DWAIS-08F1WAX		DRAWING NO. 01	ISSUE 01	SHEET SIZE A4

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

