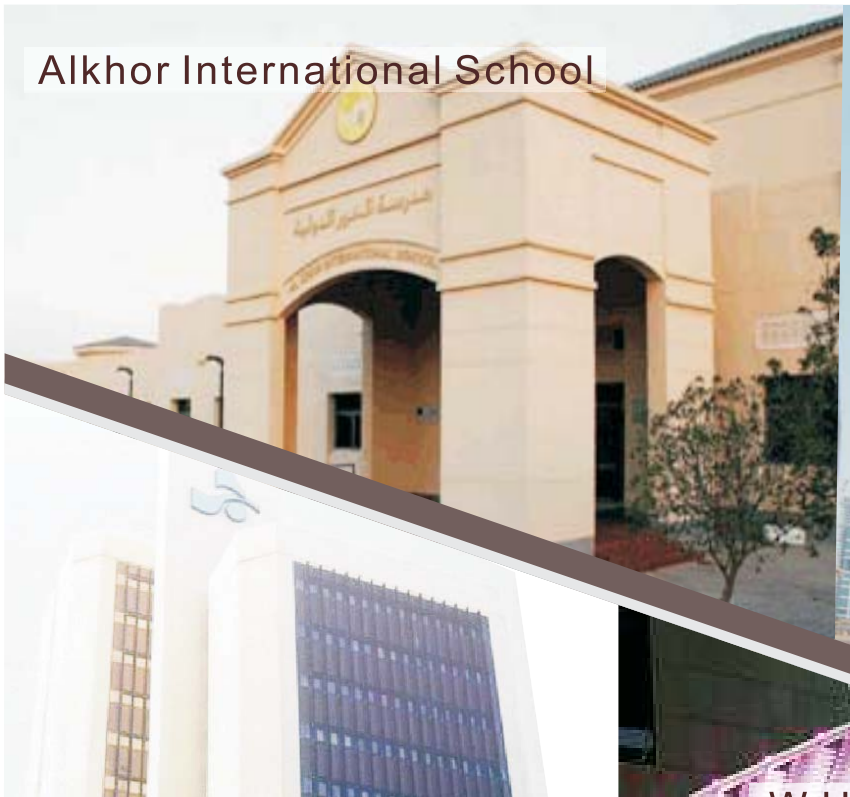
KLIMAK s.r.l

Chilled Water Fan Coil Unit

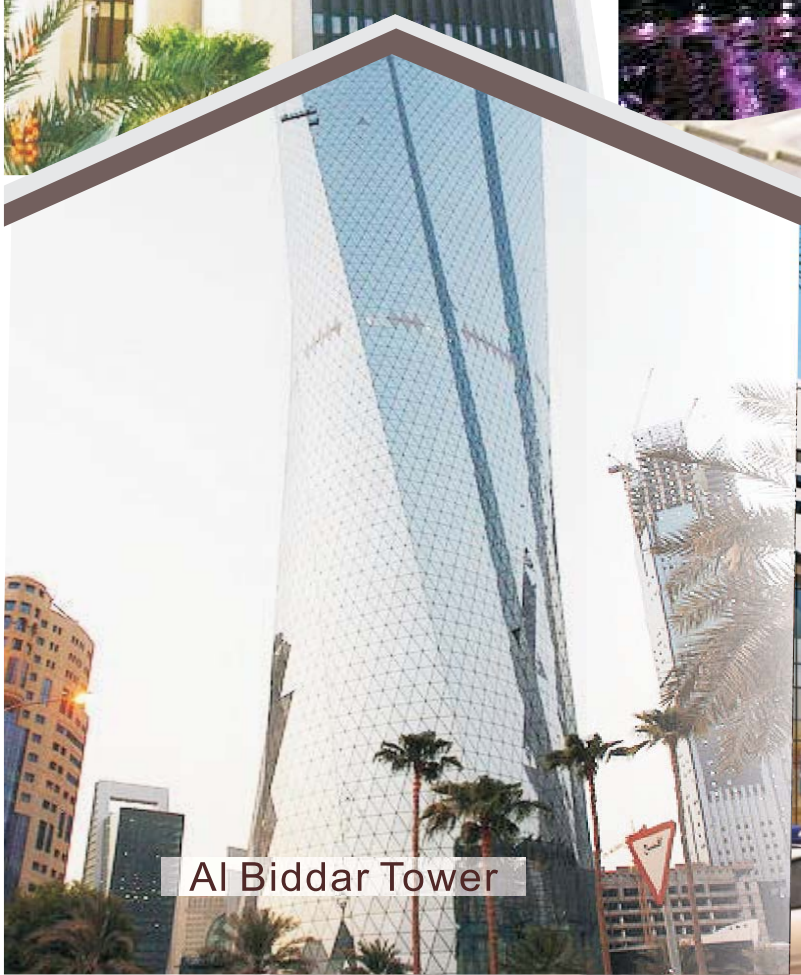
PROJECT REFERENCE


Alkhor International School

Woqood Tower

Jaidah Tower

W.Hotel


Al Biddar Tower

Akis Primary School

Barwa Commercial Avenue

Chilled Water Fan Coil Unit

Horizontal Decorative Fan Coil Unit	Page 02-05
Concealed Ducted Fan Coil Unit (Low ESP)	Page 06-08
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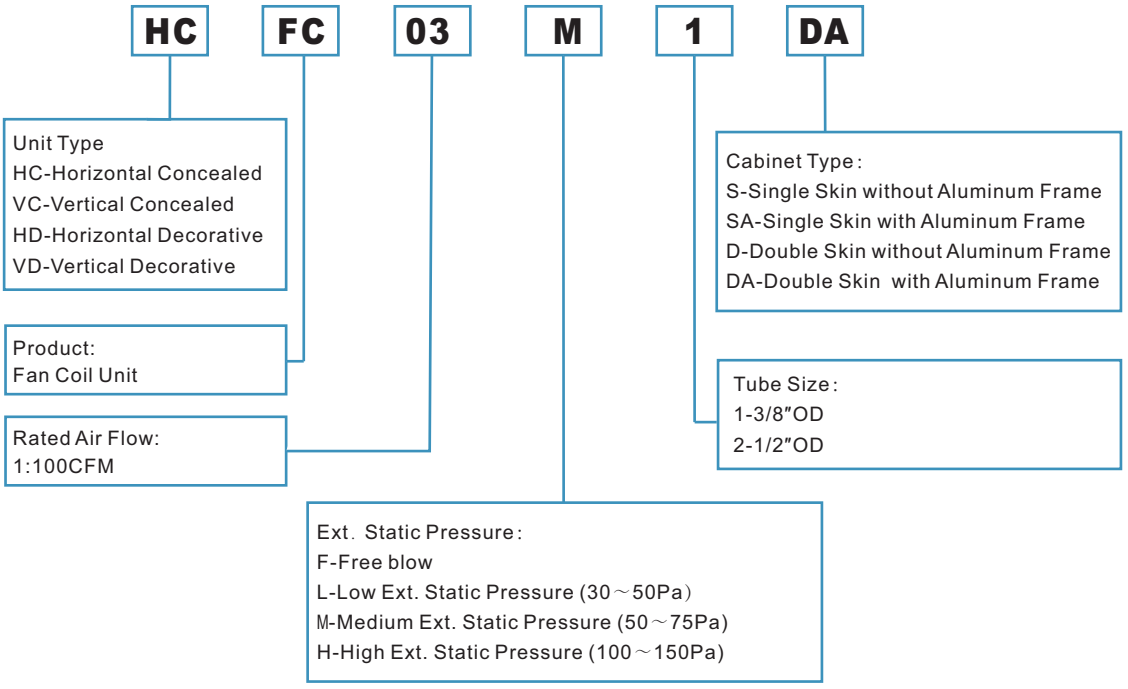
UNIT MODEL IDENTIFICATION



Horizontal Unit

Vertical Unit

Specification

Cabinet:

Double skin panel sheets made of galvanized steel with inner perforated or flat sheet assembled in aluminum extrusion profiles, all with powder coating.
Optional 1: 18mm thick panel with 15mm thick closed cell insulation, assembled in 20mm wide aluminum profile;
Optional 2: 28mm thick panel with 25mm thick closed cell insulation, assembled in 30mm wide aluminum profile.
For hygienic unit: Inner stainless steel flat sheet.

Fan Section

Fan Motor: 3 speed fan motors with permanent split capacitor, thermal overload protection, and permanently lubricated ball bearing, IP 54 with Class F insulation.
Fan Blower: DIDW forward curved centrifugal fan blower made of galvanized steel directly driven by fan motors. All fan blowers are statically and dynamically balanced.
For hygienic unit: powder coated fan housing and slide-out fan arrangement.

Coil Section

Cooling Coils made out of 3/8” inch or 1/2” inch OD copper tubes mechanically bonded into hydrophilic aluminum fins, with copper header; minimum fin thickness 0.105mm, with fin pitch 2.0mm (12FPI).
All cooling coils are computer selected with ARI certified software to meet the requested cooling capacity with maximum face velocity 2.5m/s.

Drain Pan

Drain pan made of powder coated die-formed galvanized steel or stainless steel, external surface insulated with closed cell foam. Auxiliary drain pan is offered under water connection and valve package.

Filter Section

Half inch thick aluminum return air filter assembled in aluminum frames provided for easy withdrawal and replacement.

Air Grille

Horizontal Unit: Double deflection supply air grille and stamped return air grille.
Vertical Unit: Plug-in Supply Air Grille and Return Air Grille (optional extra).

Heater Battery (Optional Extra)

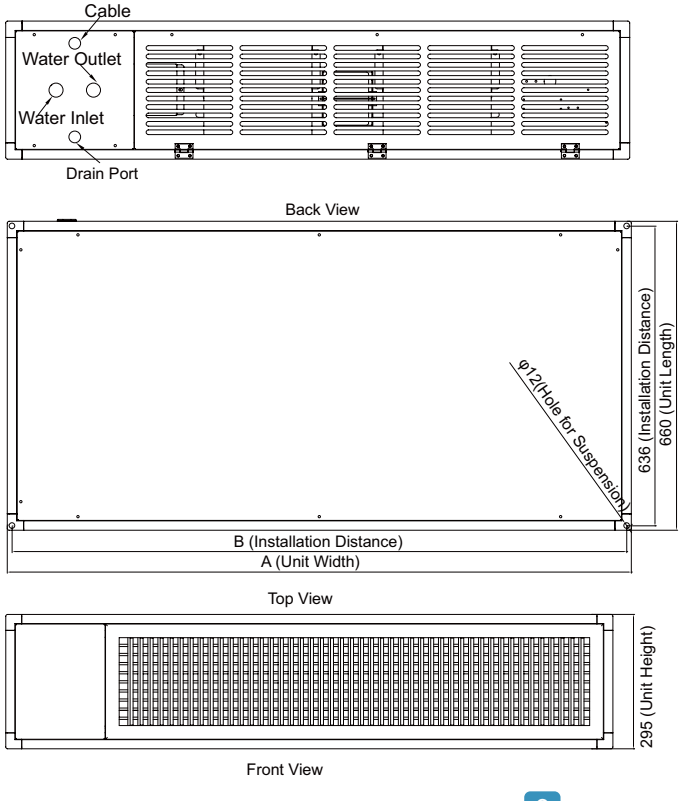
PTC Electrical Heater Battery is supplied with inbuilt thermal protection for heating application on special requirement.

Technical Data-Horizontal Unit

Unit Model			HDFC-02F1DA	HDFC-03F1DA	HDFC-04F1DA	HDFC-05F1DA	HDFC-06F1DA	HDFC-08F1DA	HDFC-10F1DA	HDFC-12F1DA	HDFC-14F1DA
Unit Performance											
Nom. Airflow Rate	High	(L/S)	95	142	189	236	284	378	472	572	667
	Medium	(L/S)	86	131	175	219	264	353	442	503	586
	Low	(L/S)	78	117	156	195	234	311	389	453	528
External Static Pressure		(Pa)	Free Blow								
Noise Level[1]	High	dB(A)	<45	<46	<50	<48	<49	<53	<49	<51	<53
	Medium	dB(A)	<43	<44	<47	<45	<47	<50	<48	<49	<50
	Low	dB(A)	<40	<41	<45	<44	<44	<48	<46	<47	<47
Physical Data											
Cooling Coil Size[2]	Fin Height	(mm)	152	152	203	152	203	203	203	203	203
	Fin Length	(mm)	610	610	610	864	864	1118	1295	1473	1651
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI								
	Max. Working Pre.		20.0 Bar								
Power Supply			220~240V/1PH/50HZ								
Fan Motor	Motor Type		3-Speed Fan Motor								
	Output[1]	(w)	30	35	40	50	60	80	50+50	50+50	60+60
	Qty		1	1	1	1	1	1	2	2	2
Fan Blower	Qty		1	1	1	2	2	2	4	4	4
	Size (Dia x L)	(mm)	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 160	160 x 200	160 x 200
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower								
Chilled Water Connection		(Inch)	1/2"MPT						3/4"MPT		
Drainage Connection		(Inch)	3/4"MPT								
Net Dimension[3]	L x W x H	(mm)	660 x 830 x 295			660 x 1080 x 295		660 x 1340 x 295	660 x 1510 x 295	660 x 1690 x 295	660 x 1870 x 295
Packing Dimension[3]	L x W x H	(mm)	680 x 900 x 365			680 x 1150 x 365		680 x 1410 x 365	680 x 1580 x 365	680 x 1760 x 365	680 x 1940 x 365
Net Weight[4]	4 Row Coil	(Kg)	30.0	30.0	36.0	43.0	49.0	64.0	75.0	85.5	89.0
	5 Row Coil	(Kg)	31.0	31.0	38.0	46.0	52.0	68.0	79.0	90.0	93.5
	6 Row Coil	(Kg)	32.0	32.0	40.0	48.0	54.0	71.0	83.0	94.5	98.0

Notes : (1) Unit noise level & fan motor output are stated based on 4-row cooling coil, and can be different for units with other size cooling coils;
(2) 1/2" OD copper tube cooling coils are available for all models;
(3) Net dimension and packing dimension are stated based on 18mm thick panel sheet, please add 20mm for dimensions of 28mm thick panel usits;
(4) Please add 3kg onto net weights in calculating the shipping data.

Dimensional Drawing



Unit Model	A	B
VDFC-02F1DA	830	810
VDFC-03F1DA	830	810
VDFC-04F1DA	830	810
VDFC-05F1DA	1080	1060
VDFC-06F1DA	1080	1060
VDFC-08F1DA	1340	1320
VDFC-10F1DA	1510	1490
VDFC-12F1DA	1690	1670
VDFC-14F1DA	1870	1850

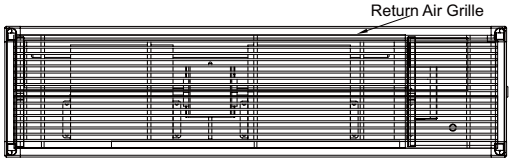
(Unit: mm)

Technical Data-Vertical Unit

Unit Model			VDFC-02F1DA	VDFC-03F1DA	VDFC-04F1DA	VDFC-05F1DA	VDFC-06F1DA	VDFC-08F1DA	VDFC-10F1DA	VDFC-12F1DA	VDFC-14F1DA
Unit Performance											
Nom. Airflow Rate	High	(L/S)	95	142	189	236	284	378	472	572	667
	Medium		86	131	175	219	264	353	442	503	586
	Low		78	117	156	195	234	311	389	453	528
External Static Pressure		(Pa)	Free Blow								
Noise Level[1]	High	dB(A)	<45	<46	<50	<48	<49	<53	<49	<51	<53
	Medium		<43	<44	<47	<45	<47	<50	<48	<49	<50
	Low		<40	<41	<45	<44	<44	<48	<46	<47	<47
Physical Data											
Cooling Coil Size[2]	Fin Height	(mm)	152	152	203	152	203	203	203	203	203
	Fin Length	(mm)	610	610	610	864	864	1118	1295	1473	1651
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI								
	Max. Working Pre.		20.0 Bar								
Power Supply			220~240V/1PH/50HZ								
Fan Motor	Motor Type		3-Speed Fan Motor								
	Output[1]	(w)	30	35	40	50	60	80	50+50	50+50	60+60
	Qty		1	1	1	1	1	1	2	2	2
Fan Blower	Qty		1	1	1	2	2	2	4	4	4
	Size (Dia x L)	(mm)	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 160	160 x 200	160 x 200
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower								
Chilled Water Connection		(Inch)	1/2"MPT						3/4"MPT		
Drainage Connection		(Inch)	3/4"MPT								
Net Dimension[3]	L x W x H	(mm)	878 x 295 x 593			1132 x 295 x 593		1385 x 295 x 593	1565 x 295 x 593	1740 x 295 x 593	1930 x 295 x 593
Packing Dimension[3]	L x W x H	(mm)	940 x 320 x 660			1190 x 320 x 660		1445 x 320 x 660	1625 x 320 x 660	1800 x 320 x 660	1980 x 320 x 660
Net Weight[4]	4 Row Coil	(Kg)	31.0	31.5	36.5	43.5	48.0	63.0	74.0	86.0	91.0
	5 Row Coil		32.0	32.5	39.0	46.0	50.0	67.5	79.0	91.0	96.0
	6 Row Coil		33.0	34.0	42.0	48.0	52.0	72.0	84.0	95.0	100.0

Notes: (1) Unit noise level & fan motor output are stated based on 4-row cooling coil, and can be different for units with other size cooling coils;
(2) 1/2" OD copper tube cooling coils are also available for all models;
(3) Net dimension and packing dimension are stated based on 18mm thick panel sheet, please add 20mm in each dimensions of 28mm thick panel ones;
(4) Please add 3kg onto net weights in calculating the shipping data.

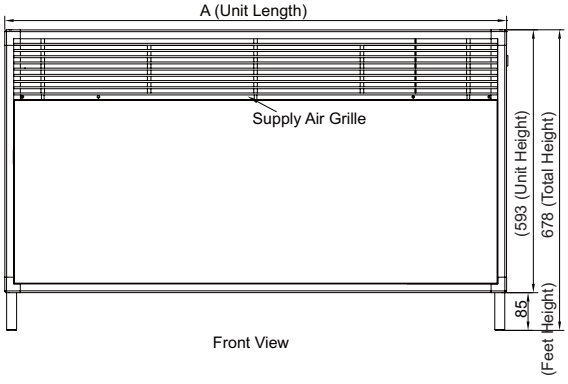
Dimensional Drawing



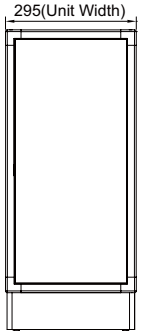
Bottom View

Unit Model	A	Unit Model	A
VDFC-02F1DA	878	VDFC-08F1DA	1385
VDFC-03F1DA	878	VDFC-10F1DA	1565
VDFC-04F1DA	878	VDFC-12F1DA	1740
VDFC-05F1DA	1132	VDFC-14F1DA	1930
VDFC-06F1DA	1132		

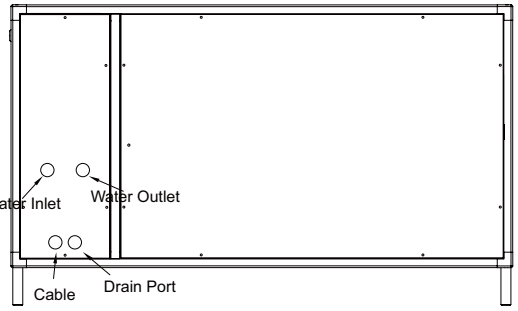
(Unit: mm)



Front View



Side View



BackView

COOLING COIL PERFORMANCE - 3/8" TUBE

Unit Model	Rows of Coil	Fan Speed	Air On DBT/WBT 23℃/16℃				Air On DBT/WBT 24℃/18℃			
			Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃		Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃	
			T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)
HDFC-02F1DA /VDFC-02F1DA	4	High	1.7	1.4	1.3	1.2	2.2	1.4	1.7	1.2
		Medium	1.6	1.3	1.2	1.1	2.0	1.3	1.6	1.1
		Low	1.5	1.2	1.2	1.0	1.9	1.2	1.5	1.0
	5	High	1.8	1.4	1.4	1.3	2.3	1.5	1.8	1.3
		Medium	1.7	1.3	1.3	1.2	2.2	1.4	1.7	1.2
		Low	1.6	1.2	1.2	1.1	2.0	1.3	1.6	1.1
	6	High	2.1	1.6	1.7	1.4	2.7	1.7	2.3	1.5
		Medium	1.9	1.5	1.6	1.3	2.5	1.6	2.1	1.4
		Low	1.8	1.4	1.5	1.2	2.3	1.4	2.0	1.3
HDFC-03F1DA /VDFC-03F1DA	4	High	2.2	1.8	1.7	1.7	2.8	1.9	2.2	1.6
		Medium	2.1	1.7	1.6	1.6	2.7	1.8	2.1	1.5
		Low	1.9	1.6	1.5	1.4	2.5	1.7	1.9	1.4
	5	High	2.4	2.0	1.9	1.8	3.1	2.1	2.4	1.8
		Medium	2.3	1.9	1.8	1.7	2.9	1.9	2.3	1.7
		Low	2.1	1.7	1.7	1.5	2.7	1.8	2.1	1.5
	6	High	2.7	2.2	2.3	2.0	3.5	2.3	3.0	2.0
		Medium	2.5	2.0	2.2	1.9	3.3	2.1	2.8	1.9
		Low	2.3	1.8	2.0	1.7	3.0	1.9	2.6	1.8
HDFC-04F1DA /VDFC-04F1DA	4	High	2.7	2.4	2.5	2.3	3.5	2.4	3.1	2.2
		Medium	2.5	2.2	2.3	2.1	3.3	2.3	3.0	2.1
		Low	2.4	2.0	2.2	2.0	3.1	2.1	2.8	2.0
	5	High	3.2	2.6	2.9	2.5	4.1	2.7	3.7	2.6
		Medium	3.0	2.5	2.7	2.4	3.9	2.6	3.5	2.4
		Low	2.8	2.3	2.5	2.2	3.6	2.4	3.2	2.2
	6	High	3.6	2.9	3.2	2.7	4.7	3.0	3.9	2.7
		Medium	3.4	2.7	3.1	2.6	4.4	2.8	3.7	2.5
		Low	3.1	2.5	2.8	2.3	4.0	2.6	3.4	2.3
HDFC-05F1DA /VDFC-05F1DA	4	High	3.4	2.9	2.9	2.7	4.4	3.0	3.7	2.7
		Medium	3.2	2.8	2.8	2.6	4.2	2.8	3.5	2.6
		Low	3.0	2.5	2.6	2.4	3.9	2.6	3.3	2.4
	5	High	4.0	3.3	3.2	3.0	4.7	3.2	4.1	2.9
		Medium	3.8	3.1	3.1	2.8	4.5	3.0	3.9	2.8
		Low	3.5	2.8	2.8	2.5	4.1	2.8	3.6	2.6
	6	High	4.0	3.4	3.7	3.2	5.2	3.5	4.7	3.2
		Medium	3.8	3.2	3.5	3.0	4.9	3.3	4.4	3.1
		Low	3.5	2.9	3.2	2.8	4.5	3.0	4.1	2.8
HDFC-06F1DA /VDFC-06F1DA	4	High	4.2	3.6	3.8	3.4	5.5	3.7	4.2	3.2
		Medium	4.0	3.4	3.6	3.2	5.3	3.5	4.0	3.0
		Low	3.7	3.1	3.4	3.0	4.9	3.2	3.7	2.8
	5	High	5.0	4.1	4.0	3.6	6.4	4.2	5.1	3.6
		Medium	4.7	3.8	3.8	3.4	6.1	4.0	4.8	3.4
		Low	4.3	3.5	3.5	3.1	5.6	3.6	4.5	3.1
	6	High	5.2	4.3	4.6	4.0	6.8	4.4	5.8	4.0
		Medium	5.0	4.0	4.3	3.7	6.5	4.2	5.5	3.8
		Low	4.6	3.6	4.0	3.4	5.9	3.8	5.1	3.4
HDFC-08F1DA /VDFC-08F1DA	4	High	5.6	4.8	4.7	4.4	7.3	4.9	5.9	4.3
		Medium	5.4	4.5	4.5	4.2	7.0	4.7	5.6	4.1
		Low	4.9	4.1	4.1	3.8	6.4	4.3	5.2	3.8
	5	High	6.6	5.4	5.5	4.9	8.5	5.6	7.0	4.9
		Medium	6.3	5.1	5.3	4.7	8.2	5.3	6.7	4.7
		Low	5.8	4.6	4.8	4.2	7.5	4.8	6.2	4.3
	6	High	7.2	5.7	6.3	5.3	9.3	6.0	7.4	5.2
		Medium	6.9	5.4	5.9	5.0	8.9	5.7	7.1	4.9
		Low	6.3	4.9	5.4	4.6	8.1	5.1	6.5	4.5
HDFC-10F1DA /VDFC-10F1DA	4	High	7.0	5.9	5.8	5.4	8.0	6.2	7.3	5.4
		Medium	6.7	5.6	5.6	5.2	7.7	6.0	7.1	5.1
		Low	6.2	5.1	5.2	4.7	7.1	5.4	6.5	4.7
	5	High	8.0	6.6	6.9	6.1	9.1	6.9	8.4	6.0
		Medium	7.6	6.3	6.6	5.8	8.7	6.6	8.1	5.7
		Low	7.0	5.7	6.0	5.3	8.0	6.0	7.4	5.2
	6	High	8.9	7.1	7.3	6.4	9.9	7.4	9.3	6.5
		Medium	8.6	6.8	7.0	6.1	9.4	7.0	8.9	6.2
		Low	7.8	6.1	6.4	5.5	8.6	6.3	8.2	5.6
HDFC-12F1DA /VDFC-12F1DA	4	High	8.4	7.1	7.0	6.5	10.1	7.0	8.5	6.3
		Medium	7.8	6.5	6.5	6.0	9.3	6.4	7.9	5.8
		Low	7.3	6.0	6.1	5.5	8.7	5.9	7.4	5.4
	5	High	9.6	7.9	8.1	7.2	11.5	7.8	10.2	7.2
		Medium	8.9	7.2	7.4	6.6	10.5	7.1	9.4	6.6
		Low	8.2	6.6	6.9	6.0	9.8	6.5	8.8	6.1
	6	High	10.4	8.4	8.9	7.8	13.5	8.8	11.3	7.8
		Medium	9.5	7.6	8.1	7.0	12.4	7.9	10.4	7.1
		Low	8.8	7.0	7.5	6.4	11.5	7.3	9.7	6.6
HDFC-14F1DA /VDFC-14F1DA	4	High	8.5	7.6	7.9	7.5	11.0	7.7	10.0	7.4
		Medium	7.9	7.0	7.3	6.8	10.2	7.1	9.2	6.7
		Low	7.4	6.5	6.9	6.3	9.6	6.6	8.7	6.3
	5	High	9.8	8.5	9.2	8.3	12.6	8.7	11.6	8.3
		Medium	9.0	7.7	8.4	7.5	11.6	7.9	10.7	7.6
		Low	8.4	7.1	7.8	6.9	10.9	7.3	10.0	7.0
	6	High	11.6	9.5	10.4	9.1	15.0	9.8	12.6	8.9
		Medium	10.6	8.6	9.5	8.2	13.7	8.9	11.6	8.1
		Low	9.8	7.9	8.8	7.5	12.8	8.2	10.8	7.4

Single Skin Unit

Specification

Cabinet

Single skin panel sheets made of galvanized steel, internally insulated with 20mm thick PU, with return air plenum.

Fan Section

Fan Motor: 3 speed fan motors with permanent split capacitor, thermal overload protection, and permanently lubricated ball bearing, IP 54 with Class F insulation.

Fan Blower: DIDW forward curved centrifugal fan blower made of galvanized steel directly driven by fan motors. All fan blowers are statically and dynamically balanced.

Coil Section

Cooling Coils made out of 3/8” inch or 1/2” inch OD copper tubes mechanically bonded into hydrophilic aluminum fins, with copper header; minimum fin thickness 0.105mm, with fin pitch 2.0mm (12FPI).
All cooling coils are computer selected with ARI certified software to meet the requested cooling capacity with maximum face velocity 2.5m/s.

Drain Pan

Drain pan made of powder coated die-formed galvanized steel or stainless steel extending under water connection and valve package, external surface insulated with closed cell foam.

Filter Section

Half inch or 20mm thick polyester or aluminum return air filter assembled in aluminum frames provided for easy withdrawal and replacement.

Heater Battery (Optional Extra)

PTC Electrical heater battery is supplied with inbuilt thermal protection for heating application on special requirement.

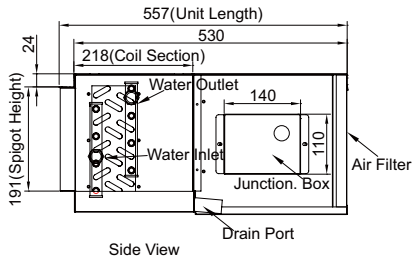
Concealed Ducted Fan Coil Unit (Low ESP)

Technical Data

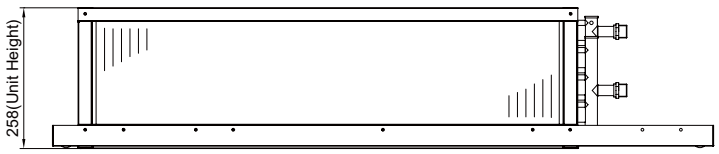
Unit Model			HCFC-02L1S	HCFC-03L1S	HCFC-04L1S	HCFC-05L1S	HCFC-06L1S	HCFC-08L1S	HCFC-10L1S	HCFC-12L1S	HCFC-14L1S
Unit Performance											
Nom. Airflow Rate	High	(L/S)	95	142	189	236	284	378	472	572	667
	Medium	(L/S)	86	131	175	219	264	353	442	503	586
	Low	(L/S)	78	117	156	195	234	311	389	453	528
External Static Pressure(1)		(Pa)	Nominal 30 Pa (30~50Pa)								
Noise Level(2)	High	dB(A)	<45	<47	<51	<49	<51	<53	<51	<53	<54
	Medium	dB(A)	<43	<45	<49	<47	<48	<51	<48	<51	<52
	Low	dB(A)	<40	<42	<47	<44	<46	<50	<46	<48	<49
Physical Data											
Cooling Coil Size(3)	Fin Height	(mm)	152	152	203	152	203	203	203	203	203
	Fen Length	(mm)	610	610	610	864	864	1118	1295	1473	1651
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI								
	Max. Working Pre.		20.0 Bar								
Power Supply			220~240V/1PH/50HZ								
Fan Motor	Motor Type		3-Speed Fan Motor								
	Output(2)	(w)	30	40	50	60	80	100	60+60	80+80	100+100
	Qty		1	1	1	1	1	1	2	2	2
Fan Blower	Qty		1	1	1	2	2	2	4	4	4
	Size (Dia x L)	(mm)	160 x 160	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200	160 x 200
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower								
Chilled Water Connection	3 Row Coil	(Inch)	Inner 1/2"FPT - Outer 3/4"MPT						Inner 3/4"FPT - Outer 1"MPT		
Drainage Connection		(Inch)	3/4"MPT								
Net Dimension		(mm)	557 x 962 x 260			557 x 1212 x 260		557 x 1467 x 260	557 x 1647 260	557 x 1827 x 260	557 x 1997 x 260
Packing Dimension		(mm)	570 x 995 x 270			570 x 1235 x 270		570 x 1490 x 270	570 x 1670 x 270	570x 1850 x 270	570 x 2020 x 270
Net Weight(4)	4 Row Coil	(Kg)	21.0	22.0	24.0	29.0	32.0	39.0	46.0	52.0	58.0
	5 Row Coil	(Kg)	22.0	23.0	25.5	31.0	34.0	41.5	50.0	57.0	63.0
	6 Row Coil	(Kg)	23.0	24.0	27.0	33.0	36.5	44.0	54.0	62.0	69.5

Notes: (1) External Static Pressure are measured based on Medium dirty polyster air fitler;
(2) Unit noise level & fan motor output are stated based on 4-row cooling coil, and can be different for units for other size cooling coils;
(3) 1/2" OD copper tube cooling coils are available with all models;
(4) Please add 3kg onto net weights in calculating the shipping weights.

Dimensional Drawing



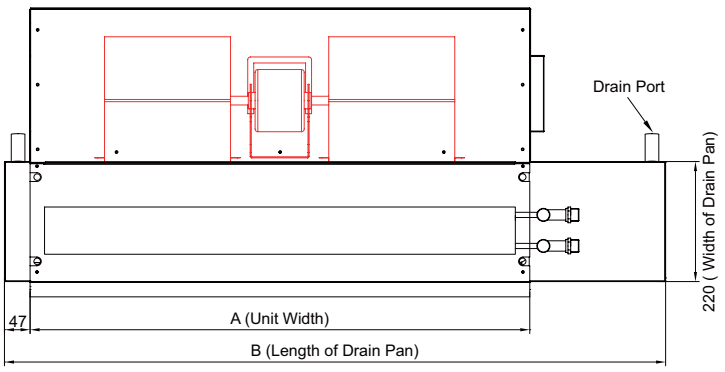
Side View



Front View

Unit Model	A	B
HCFC-02L1S	665	962
HCFC-03L1S	665	962
HCFC-04L1S	665	962
HCFC-05L1S	915	1212
HCFC-06L1S	915	1212
HCFC-08L1S	1170	1467
HCFC-10L1S	1350	1647
HCFC-12L1S	1530	1827
HCFC-14L1S	1700	1997

(Unit: mm)



Top View

COOLING COIL PERFORMANCE - 3/8" TUBE

Unit Model	Rows of Coil	Fan Speed	Air On DBT/WBT 23℃/16℃				Air On DBT/WBT 24℃/18℃			
			Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃		Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃	
			T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)
HCFC-02L1S	4	High	1.7	1.4	1.3	1.2	2.2	1.4	1.7	1.2
		Medium	1.6	1.3	1.2	1.1	2.0	1.3	1.6	1.1
		Low	1.5	1.2	1.2	1.0	1.9	1.2	1.5	1.0
	5	High	1.8	1.4	1.4	1.3	2.3	1.5	1.8	1.3
		Medium	1.7	1.3	1.3	1.2	2.2	1.4	1.7	1.2
		Low	1.6	1.2	1.2	1.1	2.0	1.3	1.6	1.1
	6	High	2.1	1.6	1.7	1.4	2.7	1.7	2.3	1.5
		Medium	1.9	1.5	1.6	1.3	2.5	1.6	2.1	1.4
		Low	1.8	1.4	1.5	1.2	2.3	1.4	2.0	1.3
HCFC-03L1S	4	High	2.2	1.8	1.7	1.7	2.8	1.9	2.2	1.6
		Medium	2.1	1.7	1.6	1.6	2.7	1.8	2.1	1.5
		Low	1.9	1.6	1.5	1.4	2.5	1.7	1.9	1.4
	5	High	2.4	2.0	1.9	1.8	3.1	2.1	2.4	1.8
		Medium	2.3	1.9	1.8	1.7	2.9	1.9	2.3	1.7
		Low	2.1	1.7	1.7	1.5	2.7	1.8	2.1	1.5
	6	High	2.7	2.2	2.3	2.0	3.5	2.3	3.0	2.0
		Medium	2.5	2.0	2.2	1.9	3.3	2.1	2.8	1.9
		Low	2.3	1.8	2.0	1.7	3.0	1.9	2.6	1.8
HCFC-04L1S	4	High	2.7	2.4	2.5	2.3	3.5	2.4	3.1	2.2
		Medium	2.5	2.2	2.3	2.1	3.3	2.3	3.0	2.1
		Low	2.4	2.0	2.2	2.0	3.1	2.1	2.8	2.0
	5	High	3.2	2.6	2.9	2.5	4.1	2.7	3.7	2.6
		Medium	3.0	2.5	2.7	2.4	3.9	2.6	3.5	2.4
		Low	2.8	2.3	2.5	2.2	3.6	2.4	3.2	2.2
	6	High	3.6	2.9	3.2	2.7	4.7	3.0	3.9	2.7
		Medium	3.4	2.7	3.1	2.6	4.4	2.8	3.7	2.5
		Low	3.1	2.5	2.8	2.3	4.0	2.6	3.4	2.3
HCFC-05L1S	4	High	3.4	2.9	2.9	2.7	4.4	3.0	3.7	2.7
		Medium	3.2	2.8	2.8	2.6	4.2	2.8	3.5	2.6
		Low	3.0	2.5	2.6	2.4	3.9	2.6	3.3	2.4
	5	High	4.0	3.3	3.2	3.0	4.7	3.2	4.1	2.9
		Medium	3.8	3.1	3.1	2.8	4.5	3.0	3.9	2.8
		Low	3.5	2.8	2.8	2.5	4.1	2.8	3.6	2.6
	6	High	4.0	3.4	3.7	3.2	5.2	3.5	4.7	3.2
		Medium	3.8	3.2	3.5	3.0	4.9	3.3	4.4	3.1
		Low	3.5	2.9	3.2	2.8	4.5	3.0	4.1	2.8
HCFC-06L1S	4	High	4.2	3.6	3.8	3.4	5.5	3.7	4.2	3.2
		Medium	4.0	3.4	3.6	3.2	5.3	3.5	4.0	3.0
		Low	3.7	3.1	3.4	3.0	4.9	3.2	3.7	2.8
	5	High	5.0	4.1	4.0	3.6	6.4	4.2	5.1	3.6
		Medium	4.7	3.8	3.8	3.4	6.1	4.0	4.8	3.4
		Low	4.3	3.5	3.5	3.1	5.6	3.6	4.5	3.1
	6	High	5.2	4.3	4.6	4.0	6.8	4.4	5.8	4.0
		Medium	5.0	4.0	4.3	3.7	6.5	4.2	5.5	3.8
		Low	4.6	3.6	4.0	3.4	5.9	3.8	5.1	3.4
HCFC-08L1S	4	High	5.6	4.8	4.7	4.4	7.3	4.9	5.9	4.3
		Medium	5.4	4.5	4.5	4.2	7.0	4.7	5.6	4.1
		Low	4.9	4.1	4.1	3.8	6.4	4.3	5.2	3.8
	5	High	6.6	5.4	5.5	4.9	8.5	5.6	7.0	4.9
		Medium	6.3	5.1	5.3	4.7	8.2	5.3	6.7	4.7
		Low	5.8	4.6	4.8	4.2	7.5	4.8	6.2	4.3
	6	High	7.2	5.7	6.3	5.3	9.3	6.0	7.4	5.2
		Medium	6.9	5.4	5.9	5.0	8.9	5.7	7.1	4.9
		Low	6.3	4.9	5.4	4.6	8.1	5.1	6.5	4.5
HCFC-10L1S	4	High	7.0	5.9	5.8	5.4	8.0	6.2	7.3	5.4
		Medium	6.7	5.6	5.6	5.2	7.7	6.0	7.1	5.1
		Low	6.2	5.1	5.2	4.7	7.1	5.4	6.5	4.7
	5	High	8.0	6.6	6.9	6.1	9.1	6.9	8.4	6.0
		Medium	7.6	6.3	6.6	5.8	8.7	6.6	8.1	5.7
		Low	7.0	5.7	6.0	5.3	8.0	6.0	7.4	5.2
	6	High	8.9	7.1	7.3	6.4	9.9	7.4	9.3	6.5
		Medium	8.6	6.8	7.0	6.1	9.4	7.0	8.9	6.2
		Low	7.8	6.1	6.4	5.5	8.6	6.3	8.2	5.6
HCFC-12L1S	4	High	8.4	7.1	7.0	6.5	10.1	7.0	8.5	6.3
		Medium	7.8	6.5	6.5	6.0	9.3	6.4	7.9	5.8
		Low	7.3	6.0	6.1	5.5	8.7	5.9	7.4	5.4
	5	High	9.6	7.9	8.1	7.2	11.5	7.8	10.2	7.2
		Medium	8.9	7.2	7.4	6.6	10.5	7.1	9.4	6.6
		Low	8.2	6.6	6.9	6.0	9.8	6.5	8.8	6.1
	6	High	10.4	8.4	8.9	7.8	13.5	8.8	11.3	7.8
		Medium	9.5	7.6	8.1	7.0	12.4	7.9	10.4	7.1
		Low	8.8	7.0	7.5	6.4	11.5	7.3	9.7	6.6
HCFC-14L1S	4	High	8.5	7.6	7.9	7.5	11.0	7.7	10.0	7.4
		Medium	7.9	7.0	7.3	6.8	10.2	7.1	9.2	6.7
		Low	7.4	6.5	6.9	6.3	9.6	6.6	8.7	6.3
	5	High	9.8	8.5	9.2	8.3	12.6	8.7	11.6	8.3
		Medium	9.0	7.7	8.4	7.5	11.6	7.9	10.7	7.6
		Low	8.4	7.1	7.8	6.9	10.9	7.3	10.0	7.0
	6	High	11.6	9.5	10.4	9.1	15.0	9.8	12.6	8.9
		Medium	10.6	8.6	9.5	8.2	13.7	8.9	11.6	8.1
		Low	9.8	7.9	8.8	7.5	12.8	8.2	10.8	7.4

Double Skin Unit

Specification

Cabinet:

Double skin panel sheets made of galvanized steel with inner perforated or flat sheet assembled in aluminum extrusion profiles, all with powder coating.
Optional 1: 18mm thick panel with 15mm thick closed cell insulation, assembled in 20mm wide aluminum profile;
Optional 2: 28mm thick panel with 25mm thick closed cell insulation, assembled in 30mm wide aluminum profile.
For hygienic unit: Inner stainless steel flat sheet .

Fan Section

Fan Motor: 3 speed fan motors with permanent split capacitor, thermal overload protection, and permanently lubricated ball bearing, IP 54 with Class F insulation.
Fan Blower: DIDW forward curved centrifugal fan blower made of galvanized steel directly driven by fan motors. All fan blowers are statically and dynamically balanced.
For hygienic unit: powder coated fan housing and slide-out fan arrangement.

Coil Section

Cooling Coils made out of 3/8” inch or 1/2” inch OD copper tubes mechanically bonded into hydrophilic aluminum fins, with copper header, minimum fin thickness 0.105mm, with fin pitch 2.0mm (12FPI).
All cooling coils are computer selected with ARI certified software to meet the requested cooling capacity with maximum face velocity 2.5m/s.

Drain Pan

Drain pan made of powder coated die-formed galvanized steel or stainless steel, with auxiliary pan offered under water connection and valve package. All with external surface insulated with closed cell foam.

Filter Section

Half inch or 20mm thick polyester or aluminum return air filter assembled in aluminum frames provided for easy withdraw and replacement.

Heater Battery (Optional Extra)

PTC Electrical Heater Battery is supplied with inbuilt thermal protection for heating application on special requirement.

Technical Data

Unit Model			HCFC-02M1DA	HCFC-03M1DA	HCFC-04M1DA	HCFC-05M1DA	HCFC-06M1DA	HCFC-08M1DA	HCFC-10M1DA	HCFC-12M1DA	HCFC-14M1DA
Unit Performance											
Nom. Airflow Rate	High	(L/S)	95	148	196	243	319	375	510	604	732
	Medium	(L/S)	86	134	178	218	276	325	445	550	650
	Low	(L/S)	78	118	163	190	238	280	385	485	550
External Static Pressure (1)		(Pa)	Nominal 50 Pa (50~75Pa)								
Noise Level (2)	High	dB(A)	<57	<59	<60	<63	<63	<62	<65	<64	<67
	Medium	dB(A)	<55	<57	<58	<61	<60	<58	<63	<62	<64
	Low	dB(A)	<53	<56	<55	<58	<56	<55	<62	<59	<62
Physical Data											
Cooling Coil Size(3)	Fin Height	(mm)	152	203	203	254	203	254	305	305	356
	Fen Length	(mm)	510	510	610	610	864	864	914	1067	1067
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI								
	Max. Working Pre.		20.0 Bar								
Power Supply			220~240V/1PH/50HZ								
Fan Motor	Motor Type		3-Speed Fan Motor								
	Output (2)	(w)	40	40	60	80	100	120	150	150	200
	Qty		1	1	1	1	1	1	1	1	1
Fan Blower	Qty		1	1	1	1	2	2	1	2	2
	Size (Dia x L)	(mm)	180 x 200	180 x 200	180 x 200	180 x 200	180 x 200	180 x 200	200 x 190	200 x 190	200 x 190
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower								
Chilled Water Connection		(Inch)	1/2"FPT - 3/4"MPT							3/4"FPT - 1"MPT	
Drainage Connection		(Inch)	3/4" MPT								
Net Dimension (4)		(mm)	600 x 880 x 365		600 x 980 x 365		600 x 1230 x 365		742 x 1280 x 460	742 x 1430 x 460	
Packing Dimension (4)		(mm)	615 x 910 x 410		615 x 1010 x 410		600 x 1260 x 410		755 x 1310 x 505	755 x 1460 x 505	
Net Weight (5)	4 Row Coil	(Kg)	39.0	41.0	43.5	49.0	54.0	64.0	73.3	81.5	74.0
	5 Row Coil	(Kg)	41.0	43.5	46.5	52.0	58.0	68.0	78.0	87.0	80.3
	6 Row Coil	(Kg)	43.0	46.0	49.5	55.0	62.0	72.0	82.5	92.5	87.0

Unit Model			HCFC-18M1DA	HCFC-20M1DA	HCFC-24M1DA	HCFC-30M1DA	HCFC-36M1DA	HCFC-42M1DA	HCFC-48M1DA	HCFC-54M1DA
Unit Performance										
Nom. Airflow Rate	High	(L/S)	880	983	1130	1415	1700	1967	2100	2360
	Medium	(L/S)	775	875	1020	1280	1530	1720	1930	2170
	Low	(L/S)	683	758	920	1145	1375	1580	1700	1950
External Static Pressure (1)		(Pa)	Nominal 50 Pa (50~75Pa)							
Noise Level (2)	High	dB(A)	<68	<69	<71	<74	<75	<78	<79	<81
	Medium	dB(A)	<66	<66	<68	<71	<72	<75	<75	<77
	Low	dB(A)	<61	<62	<65	<69	<69	<71	<72	<75
Physical Data										
Cooling Coil Size (3)	Fin Height	(mm)	356	406	445	445	445	508	508	508
	Fen Length	(mm)	1219	1219	1219	1372	1524	1524	1652	1830
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI		1/2" OD Copper Tube + hydrophilic aluminum fins 12FPI					
	Max. Working Pre.		20.0 Bar							
Power Supply			220~240V/1PH/50HZ							
Fan Motor	Motor Type		3-Speed Fan Motor							
	Output (2)	(w)	350	350	320	370	450	550	750	750
	Qty		1	1	2	2	2	2	2	2
Fan Blower	Qty		2	2	2	2	2	2	2	2
	Size (Dia x L)	(mm)	200 x 190	200 x 190						
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower							
Chilled Water Connection		(Inch)	3/4"FPT - 1"MPT		1-1/4" MPT					
Drainage Connection		(Inch)	3/4" MPT							
Net Dimension (4)		(mm)	742 x 1523 x 475		825 x 1523 x 540	825 x 1695 x 540	895 x 1845 x 540	995 x 1845 x 615	995 x 1970 x 615	995 x 2150 x 615
Packing Dimension (4)		(mm)	755 x 1550 x 520		840 x 1570 x 570	840 x 1745 x 570	910 x 1895 x 570	1010 x 1895 x 645	1040 x 2020 x 645	1040 x 2260 x 645
Net Weight (5)	4 Row Coil	(Kg)	90.0	98.0	118.0	145.0	165.0	168.0	184.0	199.0
	5 Row Coil	(Kg)	97.0	106.0	126.0	156.0	177.0	181.0	197.0	213.0
	6 Row Coil	(Kg)	104.0	114.0	145.0	166.0	189.0	194.0	210.0	228.0

Notes: (1) External Static Pressure are measured based on Medium dirty polyster air fitler;

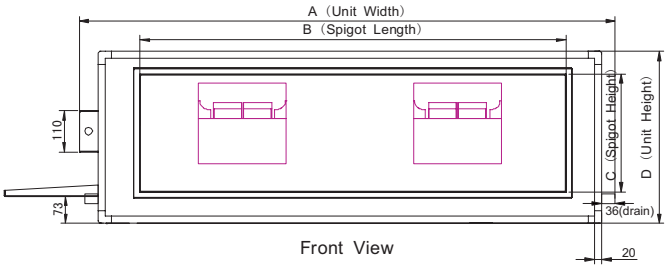
(2) Unit noise level & fan motor output are stated based on 4-row cooling coil, and can be different for units with other size cooling coils;

(3) 1/2" OD copper tube cooling coils are also available for all models;

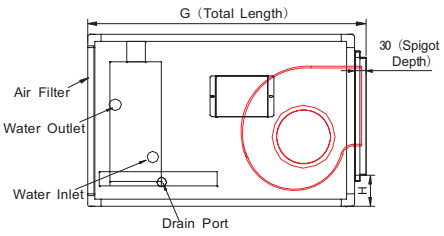
(4) Net dimension and packing dimension are stated based on 18mm thick panel sheet, please add 20mm for dimensions of 28mm thick panel units.

(5) Please add 3kg onto net weights in calculating the shipping data.

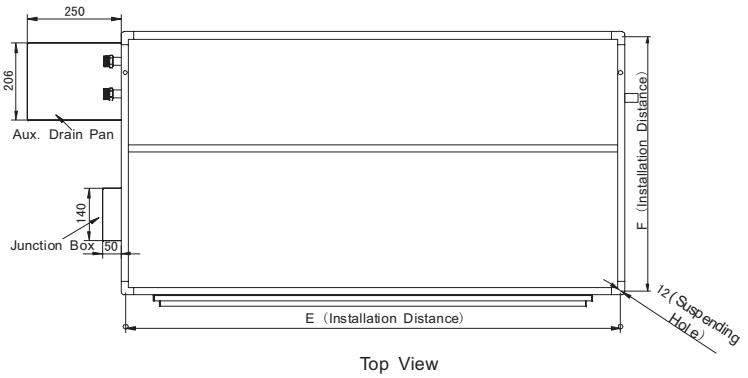
Dimensional Drawing (Unit: mm)



Front View



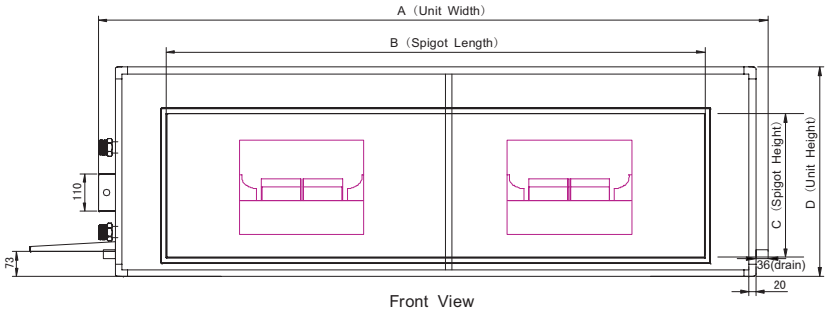
Side View



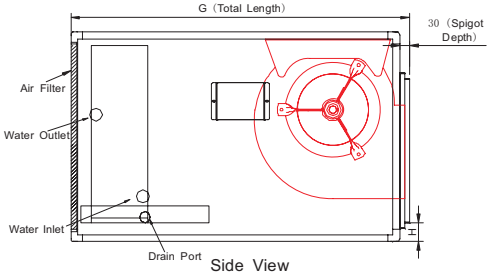
Top View

MO DEL	A	B	C	D	E	F	G	H
HCFC - 02 M1DA	880	569	212	365	774	550	600	89
HCFC - 03 M1DA	880	569	212	365	774	550	600	89
HCFC - 04 M1DA	980	569	212	365	874	550	600	89
HCFC - 05 M1DA	980	569	212	365	874	550	600	89
HCFC - 06 M1DA	1230	935	212	365	1124	550	600	94
HCFC - 08 M1DA	1230	935	212	365	1124	550	600	94
HCFC - 10 M1DA	1280	736	311	460	1174	692	742	85
HCFC - 12 M1DA	1430	1135	311	460	1324	692	742	85
HCFC - 14 M1DA	1430	1135	311	460	1324	692	742	85
HCFC - 18 M1DA	1523	1135	311	475	1417	692	742	100
HCFC - 20 M1DA	1523	1135	311	475	1417	692	742	100

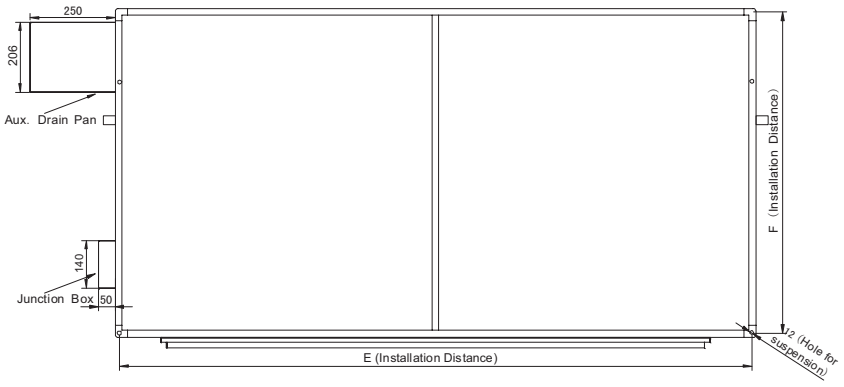
Doouble Skin Uhit



Front View



Side View



Top View

MO DE L	A	B	C	D	E	F	G	H
HCFC-24M1SA	1523	1135	311	540	1417	775	825	67
HCFC-30M1SA	1695	1301	367	540	1583	775	825	57
HCFC-36M1SA	1845	1301	367	540	1733	845	895	57
HCFC-42M1SA	1845	1301	367	615	1733	945	995	19
HCFC-48M1SA	1970	1578	421	615	1860	945	995	56
HCFC-54M1SA	2150	1578	421	615	2038	945	995	65

Double Skin Unit

COOLING COIL PERFORMANCE - 3/8" TUBE

Unit Model	Rows of Coil	Fan Speed	Air On DBT/WBT 23℃/16℃				Air On DBT/WBT 24℃/18℃			
			Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃		Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃	
			T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)
HCFC-02M1DA	4	High	1.5	1.3	1.4	1.2	2.0	1.3	1.5	1.1
		Medium	1.4	1.2	1.3	1.1	1.9	1.2	1.4	1.0
		Low	1.3	1.1	1.2	1.0	1.7	1.1	1.3	1.0
	5	High	1.7	1.4	1.6	1.3	2.2	1.4	1.6	1.2
		Medium	1.5	1.3	1.5	1.2	2.0	1.3	1.5	1.1
		Low	1.4	1.2	1.4	1.2	1.9	1.2	1.4	1.0
	6	High	2.0	1.5	1.6	1.4	2.6	1.6	2.1	1.4
		Medium	1.8	1.4	1.5	1.3	2.4	1.5	1.9	1.3
		Low	1.7	1.3	1.4	1.2	2.2	1.4	1.8	1.2
HCFC-03M1DA	4	High	2.4	2.0	1.9	1.8	3.1	2.0	2.4	1.8
		Medium	2.2	1.8	1.8	1.6	2.9	1.9	2.3	1.6
		Low	2.0	1.7	1.6	1.5	2.7	1.7	2.1	1.5
	5	High	2.8	2.2	2.2	2.0	3.2	2.1	2.9	2.0
		Medium	2.6	2.0	2.1	1.8	3.0	2.0	2.7	1.8
		Low	2.3	1.8	1.9	1.7	2.7	1.8	2.5	1.7
	6	High	2.9	2.3	2.5	2.1	3.8	2.4	3.2	2.2
		Medium	2.7	2.1	2.4	2.0	3.5	2.2	3.0	2.0
		Low	2.5	1.9	2.1	1.8	3.2	2.0	2.8	1.8
HCFC-04M1DA	4	High	2.7	2.4	2.5	2.3	3.6	2.5	3.2	2.3
		Medium	2.6	2.3	2.4	2.2	3.4	2.3	3.0	2.2
		Low	2.4	2.1	2.2	2.0	3.2	2.2	2.8	2.0
	5	High	3.3	2.7	3.0	2.6	4.2	2.8	3.8	2.6
		Medium	3.0	2.5	2.8	2.4	4.0	2.6	3.5	2.4
		Low	2.9	2.4	2.6	2.2	3.7	2.5	3.3	2.2
	6	High	3.8	3.0	3.3	2.8	4.8	3.1	4.0	2.8
		Medium	3.6	2.8	3.1	2.6	4.5	2.9	3.7	2.6
		Low	3.3	2.6	2.9	2.4	4.2	2.7	3.5	2.4
HCFC-05M1DA	4	High	3.6	3.1	2.8	2.8	4.7	3.2	3.5	2.7
		Medium	3.3	2.8	2.6	2.5	4.3	2.9	3.3	2.5
		Low	3.0	2.6	2.4	2.3	4.0	2.6	3.0	2.3
	5	High	4.0	3.4	3.2	3.0	5.2	3.5	4.0	3.0
		Medium	3.8	3.1	3.0	2.8	4.9	3.2	3.7	2.8
		Low	3.4	2.8	2.7	2.5	4.5	2.9	3.4	2.5
	6	High	4.6	3.7	4.0	3.4	5.9	3.8	5.2	3.5
		Medium	4.2	3.4	3.7	3.2	5.5	3.5	4.8	3.2
		Low	3.8	3.0	3.4	2.8	5.0	3.2	4.4	2.9
HCFC-06M1DA	4	High	4.6	3.9	3.6	3.5	5.9	4.0	4.5	3.4
		Medium	4.1	3.5	3.3	3.2	5.4	3.6	4.1	3.1
		Low	3.8	3.2	3.0	2.8	4.9	3.3	3.8	2.8
	5	High	5.4	4.4	4.3	4.0	6.7	4.5	5.5	4.0
		Medium	4.9	4.0	3.9	3.6	6.1	4.0	5.0	3.6
		Low	4.4	3.5	3.5	3.2	5.5	3.6	4.5	3.2
	6	High	5.7	4.7	4.9	4.3	7.4	4.8	6.3	4.4
		Medium	5.1	4.1	4.5	3.9	6.7	4.3	5.7	3.9
		Low	4.6	3.7	4.0	3.4	6.0	3.9	5.2	3.5
HCFC-08M1DA	4	High	5.5	4.7	4.6	4.3	7.1	4.8	5.7	4.3
		Medium	5.0	4.2	4.2	3.9	6.5	4.4	5.3	3.8
		Low	4.5	3.8	3.8	3.5	5.9	3.9	4.8	3.5
	5	High	6.4	5.3	5.2	4.8	8.4	5.5	6.6	4.7
		Medium	5.8	4.7	4.7	4.2	7.6	4.9	6.0	4.3
		Low	5.3	4.2	4.3	3.8	6.8	4.4	5.4	3.8
	6	High	7.2	5.7	5.9	5.2	9.1	5.9	7.5	5.2
		Medium	6.5	5.1	5.3	4.6	8.3	5.3	6.9	4.7
		Low	5.8	4.5	4.8	4.1	7.4	4.7	6.2	4.2
HCFC-10M1DA	4	High	7.3	6.3	5.8	5.7	9.5	6.4	7.3	5.5
		Medium	6.7	5.7	5.3	5.1	8.7	5.9	6.7	5.1
		Low	6.1	5.1	4.9	4.6	8.0	5.3	6.1	4.5
	5	High	8.6	7.1	7.0	6.4	10.9	7.2	8.8	6.4
		Medium	7.9	6.4	6.4	5.8	10.0	6.5	8.1	5.8
		Low	7.1	5.7	5.8	5.1	9.1	5.9	7.4	5.2
	6	High	9.2	7.5	7.9	7.0	11.8	7.7	10.1	7.0
		Medium	8.3	6.7	7.2	6.2	10.8	7.0	9.3	6.3
		Low	7.5	6.0	6.5	5.5	10.6	10.3	8.4	5.7
HCFC-12M1DA	4	High	8.9	7.5	7.1	6.8	10.9	7.5	8.9	6.7
		Medium	8.3	7.0	6.7	6.3	10.3	7.0	8.4	6.3
		Low	7.7	6.4	6.2	5.8	9.5	6.4	7.8	5.7
	5	High	10.2	8.4	8.5	7.6	12.7	8.4	10.7	7.6
		Medium	9.6	7.8	7.9	7.1	11.9	7.9	10.1	7.1
		Low	8.8	7.1	7.3	6.4	10.9	7.2	9.3	6.5
	6	High	11.1	9.0	9.6	8.3	14.3	9.3	12.2	8.4
		Medium	10.3	8.1	9.0	7.7	13.4	8.6	11.5	7.8
		Low	9.5	7.5	8.2	7.0	12.3	7.8	10.6	7.1
HCFC-14M1DA	4	High	10.6	9.0	8.5	8.1	13.1	9.0	10.6	8.0
		Medium	9.8	8.3	7.9	7.5	12.2	8.3	9.9	7.4
		Low	8.8	7.3	7.1	6.6	11.0	7.4	8.9	6.5
	5	High	12.2	10.1	10.1	9.2	15.0	10.1	12.8	9.2
		Medium	11.3	9.2	9.4	8.4	13.9	9.2	11.9	8.4
		Low	10.1	8.1	8.3	7.4	12.4	8.1	10.7	7.4
	6	High	13.3	10.8	11.5	10.0	16.4	10.8	14.6	10.1
		Medium	12.3	9.8	10.6	9.1	15.1	9.9	13.5	9.2
		Low	10.9	8.6	9.4	7.9	13.5	8.7	12.1	8.1
HCFC-18M1DA	4	High	12.2	10.6	10.2	9.8	15.8	10.8	12.9	9.6
		Medium	11.3	9.7	9.5	8.9	14.7	9.9	11.9	8.8
		Low	10.4	8.8	8.8	8.1	13.6	9.1	11.0	8.0
	5	High	14.0	11.8	12.2	11.0	18.1	12.1	15.4	11.0
		Medium	12.9	10.7	11.2	10.0	16.7	11.0	14.3	10.0
		Low	11.8	9.7	10.3	9.1	15.4	10.1	13.2	9.1
	6	High	15.3	12.6	13.9	12.0	19.8	13.0	16.6	11.7
		Medium	14.0	11.4	12.7	10.9	18.2	11.9	15.3	10.6
		Low	12.8	10.3	11.6	9.8	16.7	10.8	14.1	9.7
HCFC-20M1DA	4	High	13.9	11.9	11.5	11.0	17.9	12.2	14.5	10.8
		Medium	12.9	11.0	10.7	10.1	16.7	11.6	13.5	10.0
		Low	11.8	9.9	9.8	9.1	15.3	10.2	12.4	9.0
	5	High	16.3	13.5	13.8	12.4	20.3	13.6	16.7	12.1
		Medium	15.1	12.3	12.7	11.3	18.8	12.5	15.5	1.1
		Low	13.7	11.1	11.5	10.7	17.1	11.2	14.2	10.0
	6	High	18.0	14.5	15.6	13.5	22.3	14.6	18.5	13.1
		Medium	16.5	13.2	14.4	12.3	20.6	13.2	17.2	12.0
		Low	15.0	11.8	13.0	10.9	18.7	12.0	15.6	10.8

COOLING COIL PERFORMANCE - 1/2" TUBE

Unit Model	Rows of Coil	Fan Speed	Air On DBT/WBT 23℃/16℃				Air On DBT/WBT 24℃/18℃			
			Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃		Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃	
			T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)
HCFC-24M1DA	4	High	16.9	14.8	12.9	12.7	21.4	14.9	16.6	13.0
		Medium	15.8	13.6	12.7	12.3	20.0	13.8	15.6	12.0
		Low	14.7	12.6	11.8	11.4	18.9	12.8	14.6	11.1
	5	High	19.7	16.4	16.1	14.9	24.6	16.5	20.0	14.6
		Medium	18.4	15.1	15.0	13.7	23.0	15.3	18.7	13.5
		Low	17.1	13.9	13.9	12.5	21.5	14.1	17.5	12.5
	6	High	21.6	17.5	18.2	16.0	26.7	17.6	22.9	16.0
		Medium	20.1	16.1	16.9	14.7	24.9	16.3	21.4	14.8
		Low	18.6	14.7	15.7	13.5	23.2	15.0	19.9	13.6
HCFC-30M1DA	4	High	20.7	18.2	16.7	16.5	25.0	17.8	20.4	16.0
		Medium	19.4	16.8	15.7	15.3	23.5	16.5	19.4	14.9
		Low	18.1	15.5	14.6	14.0	22.0	15.3	18.0	13.7
	5	High	22.5	19.5	19.9	18.4	28.5	19.6	24.6	18.1
		Medium	21.0	18.0	18.6	17.0	26.8	18.3	23.1	16.8
		Low	19.5	16.5	17.2	15.5	25.0	16.8	21.5	15.4
	6	High	25.9	21.3	22.5	19.8	31.0	20.9	26.2	19.0
		Medium	24.0	19.6	21.0	18.3	29.1	19.4	24.6	17.6
		Low	22.2	17.9	19.4	16.6	26.9	17.8	22.9	16.1
HCFC-36M1DA	4	High	23.5	21.2	19.9	19.7	29.6	21.1	24.4	19.0
		Medium	22.1	19.6	18.7	18.2	27.9	19.6	22.9	17.6
		Low	20.5	18.0	17.4	16.7	26.2	18.2	21.5	16.3
	5	High	26.9	23.3	23.7	22.0	33.9	23.4	28.5	21.2
		Medium	25.0	21.4	22.1	20.2	31.8	21.7	26.7	19.6
		Low	23.3	19.7	20.5	18.5	29.7	20.0	25.0	18.1
	6	High	29.2	24.7	25.2	23.0	37.0	25.0	31.4	22.7
		Medium	27.2	22.7	23.5	21.0	34.5	23.1	29.3	20.9
		Low	25.2	20.8	21.8	19.3	32.2	21.3	27.4	19.3
HCFC-42M1DA	4	High	27.3	24.5	23.0	22.7	30.7	23.0	28.1	21.9
		Medium	25.1	22.1	21.1	20.5	28.4	20.9	26.0	19.9
		Low	23.7	20.7	20.0	19.2	27.1	19.6	24.7	18.7
	5	High	30.8	26.8	27.3	25.3	38.8	26.9	32.2	24.2
		Medium	28.1	24.1	25.0	22.8	35.8	24.4	29.7	21.9
		Low	26.6	22.5	23.5	21.2	33.9	22.9	28.1	20.5
	6	High	33.6	28.5	28.8	26.4	42.6	28.9	35.8	26.1
		Medium	30.7	25.6	26.3	23.7	39.0	26.0	32.8	23.5
		Low	28.9	23.8	24.8	22.1	36.9	24.4	31.0	22.0
HCFC-48M1DA	4	High	29.7	26.4	25.1	24.5	33.7	24.9	30.7	23.7
		Medium	28.2	24.8	23.8	23.0	32.1	23.5	29.2	22.3
		Low	25.9	22.5	21.9	20.8	29.7	21.4	27.1	20.3
	5	High	33.5	28.9	29.7	27.3	42.3	29.1	35.2	26.2
		Medium	31.6	27.0	28.1	25.5	40.2	27.4	33.4	24.6
		Low	29.1	24.4	25.7	23.0	37.1	24.9	30.9	22.4
	6	High	36.6	30.7	31.4	28.5	46.4	31.2	39.1	28.2
		Medium	34.5	28.7	29.7	26.6	43.9	29.2	37.0	26.4
		Low	31.6	25.9	27.2	24.0	40.4	26.6	34.1	33.9
HCFC-54M1DA	4	High	30.9	28.6	28.6	27.7	38.7	28.3	33.4	26.2
		Medium	29.3	26.9	27.1	26.0	36.9	26.7	31.7	24.6
		Low	27.4	24.8	25.3	23.9	34.6	24.7	29.8	22.8
	5	High	38.1	32.6	32.6	30.3	44.2	31.3	40.1	29.7
		Medium	35.9	30.5	30.8	28.4	41.9	29.4	38.1	27.9
		Low	33.5	28.1	28.6	26.0	39.2	27.1	35.7	25.7
	6	High	41.7	34.7	35.8	32.3	48.8	33.7	44.6	31.9
		Medium	39.3	32.5	33.8	30.1	46.2	31.6	42.2	29.9
		Low	36.4	29.7	31.4	27.6	43.2	29.1	39.4	27.6

Double Skin Unit

Specification

Cabinet

Double skin panel sheets made of galvanized steel with inner perforated or flat sheet assembled in aluminum extrusion profiles, all with powder coating.
Optional 1: 18mm thick panel with 15mm thick closed cell insulation, assembled in 20mm wide aluminum profile;
Optional 2: 28mm thick panel with 25mm thick closed cell insulation, assembled in 30mm wide aluminum profile.
For hygienic unit: Inner stainless steel flat sheet .

Fan Section

Fan Motor: 3 speed fan motors with permanent split capacitor, thermal overload protection, and permanently lubricated ball bearing, IP 54 with Class F insulation.
Fan Blower. DIDW forward curved centrifugal fan blower made of galvanized steel directly driven by fan motors. All fan blowers are statically and dynamically balanced.
For hygienic unit: powder coated fan housing and slide-out fan arrangement.

Coil Section

Cooling Coils made out of 3/8” inch or 1/2” inch OD copper tubes mechanically bonded into hydrophilic aluminum fins, with copper header, minimum fin thickness 0.105mm, fin pitch 2.0mm (12FPI).
All cooling coils are computer selected with ARI certified software to meet the requested cooling capacity with maximum face velocity 2.5m/s.

Drain Pan

Drain pan made of powder coated die-formed galvanized steel with or stainless steel, with auxiliary pan offered under water connection and valve package. All with external surface insulated with closed cell foam.

Filter Section

Half inch or 20mm thick polyester or aluminum return air filter assembled in aluminum frames provided for easy withdrawal and replacement.

Heater Battery (Optional Extra)

PTC Electrical Heater Battery is supplied with inbuilt thermal protection for heating application on special requirement.

Concealed Ducted Fan Coil Unit (High ESP)

Technical Data

Unit Model			HCFC-03H1DA	HCFC-04H1DA	HCFC-05H1DA	HCFC-06H1DA	HCFC-08H1DA	HCFC-10H1DA	HCFC-12H1DA	HCFC-14H1DA
Unit Performance										
Nom. Airflow Rate	High	(L/S)	146	186	216	261	410	485	605	775
	Medium	(L/S)	127	160	190	239	364	428	524	670
	Low	(L/S)	111	139	165	205	320	380	452	582
External Static Pressure (1)		(Pa)	Nominal 100 Pa (100~150Pa)							
Noise Level (2)	High	dB(A)	<60	<62	<63	<65	<66	<68	<70	<70
	Medium	dB(A)	<57	<58	<61	<63	<63	<65	<66	<67
	Low	dB(A)	<55	<55	<57	<60	<61	<61	<63	<65
Physical Data										
Cooling Coil Size (3)	Fin Height	(mm)	203	203	254	203	305	305	305	356
	Fen Length	(mm)	510	610	610	864	762	914	1067	1067
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI							
	Max. Working Pre.		20.0 Bar							
Power Supply			220~240V/1PH/50HZ							
Fan Motor	Motor Type		3-Speed Fan Motor							
	Output (2)	(w)	80	100	120	150	150	180	200	300
	Qty		1	1	1	1	1	1	1	1
Fan Blower	Qty		1	1	1	2	1	1	2	2
	Size (Dia x L)	(mm)	200 x 190	200 x 190	200 x 190	180 x 200	200 x 190	200 x 190	200 x 190	
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower							
Chilled Water Connection		(Inch)	Inner 1/2"FPT - Outer 3/4"MPT						3/4"FPT - 1"MPT	
Drainage Connection		(Inch)	3/4" MPT							
Net Dimension (4)		(mm)	600 x 880 x 365	600 x 980 x 365		600 x 1230 x 365	742 x 1280 x 460		742 x 1430 x 460	
Packing Dimension (4)		(mm)	615 x 910 x 410	615 x 1010 x 410		600 x 1260 x 410	755 x 1310 x 505		755 x 1460 x 505	
Net Weight (5)	4 Row Coil	(Kg)	43.0	43.5	50.0	55.0	66.0	75.0	79.5	85.0
	5 Row Coil	(Kg)	45.5	46.5	53.0	59.0	70.0	80.0	85.0	92.0
	6 Row Coil	(Kg)	48.0	49.5	56.0	63.0	74.0	84.5	84.5	99.0

Unit Model			HCFC-18H1DA	HCFC-20H1DA	HCFC-24H1DA	HCFC-30H1DA	HCFC-36H1DA	HCFC-42H1DA	HCFC-48H1DA	HCFC-54H1DA
Unit Performance										
Nom. Airflow Rate	High	(L/S)	905	980	1186	1460	1745	1925	2150	2360
	Medium	(L/S)	810	875	1031	1315	1530	1720	1930	2170
	Low	(L/S)	695	766	930	1178	1348	1560	1690	1935
External Static Pressure (1)		(Pa)	Nominal 100 Pa (100~150Pa)							
Noise Level (2)	High	dB(A)	<71	<72	<75	<77	<78	<80	<82	<84
	Medium	dB(A)	<66	<68	<71	<74	<75	<76	<79	<79
	Low	dB(A)	<63	<65	<69	<72	<72	<72	<75	<76
Physical Data										
Cooling Coil Size (3)	Fin Height	(mm)	356	406	445	445	445	508	508	508
	Fen Length	(mm)	1219	1219	1219	1372	1524	1524	1652	1830
	Coil Style		3/8" OD Copper Tube + hydrophilic aluminum fins 12FPI		1/2" OD Copper Tube + hydrophilic aluminum fins 12FPI					
	Max. Working Pre.		20.0 Bar							
Power Supply			220~240V/1PH/50HZ							
Fan Motor	Motor Type		3-Speed Fan Motor							
	Output (2)	(w)	450	500	320	450	450	550	750	1000
	Qty		1	1	2	2	2	2	2	2
Fan Blower	Qty		2	2	2	2	2	2	2	2
	Size (Dia x L)	(mm)	200 x 190		225 x 300	250 x 340	280 x 360	280 x 360	280 x 360	280 x 360
	Fan Blower Type		Double Inlet Forward Curved Centrifugal Fan Blower							
Chilled Water Connection		(Inch)	3/4"FPT - 1"MPT			1-1/4" MPT				
Drainage Connection		(Inch)	3/4" MPT							
Net Dimension (4)		(mm)	742 x 1523 x 475		825 x 1523 x 540	825 x 1695 x 540	895 x 1845 x 540	995 x 1845 x 615	995 x 1970 x 615	995 x 2150 x 615
Packing Dimension (4)		(mm)	755 x 1550 x 520		840 x 1570 x 560	840 x 1745 x 560	910 x 1895 x 560	1010 x 1895 x 635	1040 x 2020 x 635	1040 x 2260 x 635
Net Weight (5)	4 Row Coil	(Kg)	92.0	99.0	118.0	145.0	165.0	168.0	184.0	199.0
	5 Row Coil		99.0	108.0	126.0	156.0	177.0	181.0	197.0	213.0
	6 Row Coil	(Kg)	106.0	116.0	135.0	166.0	189.0	194.0	210.0	228.0

Notes: (1) External Static Pressure are measured based on Medium dirty polyster air fitler;

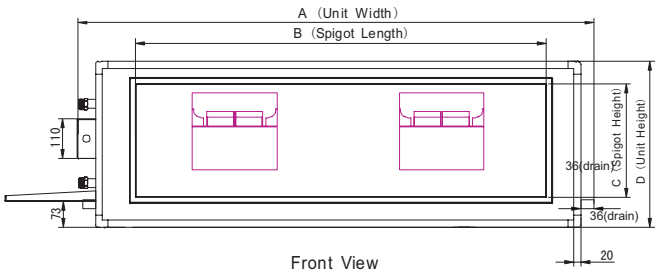
(2) Unit noise level & fan motor output are stated based on 4-row cooling coil, and can be different for units with other size cooling coils;

(3) 1/2" OD copper tube cooling coils are also available for all models;

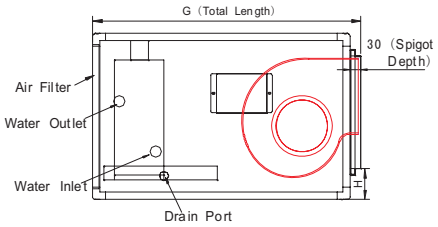
(4) Net dimension and packing dimension are stated based on 18mm thick panel sheet, please add 20mm for dimensions of 28mm thick panel units.

(5) Please add 3kg onto net weights in calculating the shipping data.

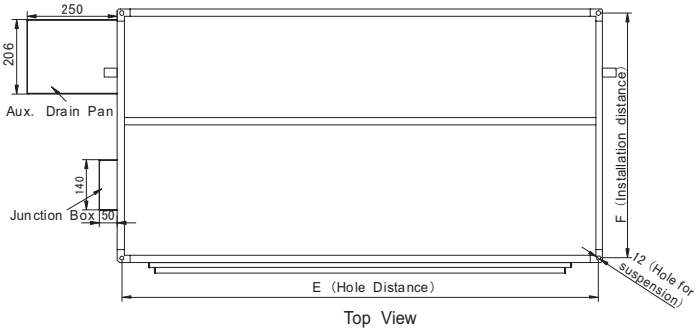
Dimensional Drawing (Unit: mm)



Front View



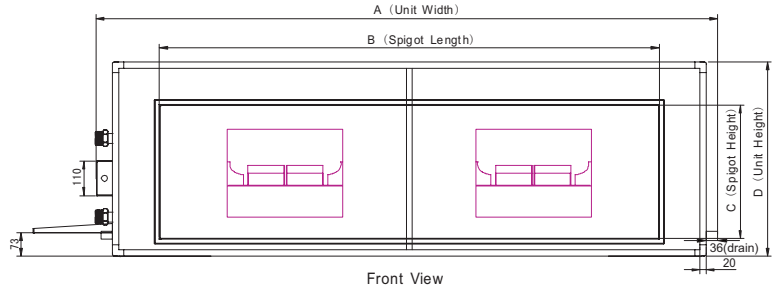
Side View



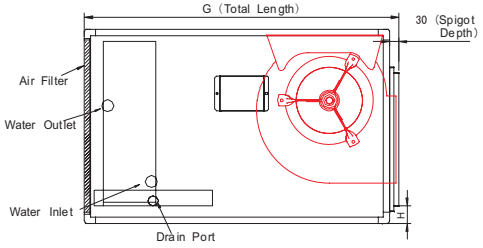
Top View

MODEL	A	B	C	D	E	F	G	H
HCFC - 03 H1DA	880	569	212	365	774	550	600	89
HCFC - 04 H1DA	980	569	212	365	874	550	600	89
HCFC - 05 H1DA	980	569	212	365	874	550	600	89
HCFC - 06 H1DA	1230	935	212	365	1124	550	600	94
HCFC - 08 H1DA	1100	736	311	460	994	692	742	85
HCFC - 10 H1DA	1280	736	311	460	1174	692	742	85
HCFC - 12 H1DA	1430	1135	311	460	1324	692	742	85
HCFC - 14 H1DA	1430	1135	311	460	1324	692	742	85
HCFC - 18 H1DA	1523	1135	311	475	1417	692	742	100
HCFC - 20 H1DA	1523	1135	311	475	1417	692	742	100

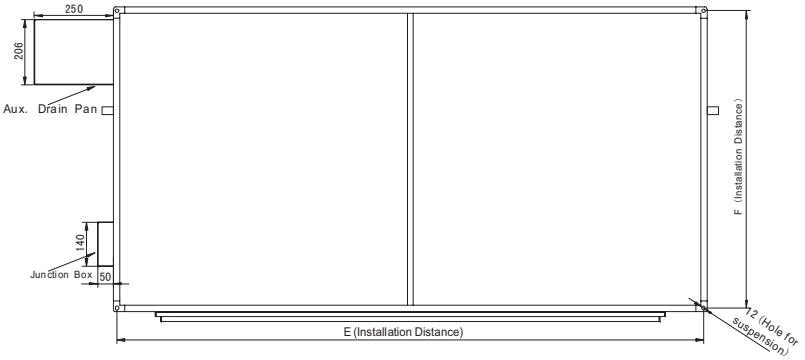
Double Skin Unit



Front View



Side View



Top View

MODEL	A	B	C	D	E	F	G	H
HCFC- 24 H 1DA	1523	1136	311	540	1417	775	825	67
HCFC- 30 H 1DA	1695	1301	367	540	1583	775	825	57
HCFC- 36 H 1DA	1845	1301	367	540	1733	845	895	57
HCFC- 42 H 1DA	1845	1301	367	615	1733	945	995	69
HCFC- 48 H 1DA	1970	1578	421	615	1860	945	995	56
HCFC- 54 H 1DA	2150	1578	421	615	2038	945	995	65

Double Skin Unit

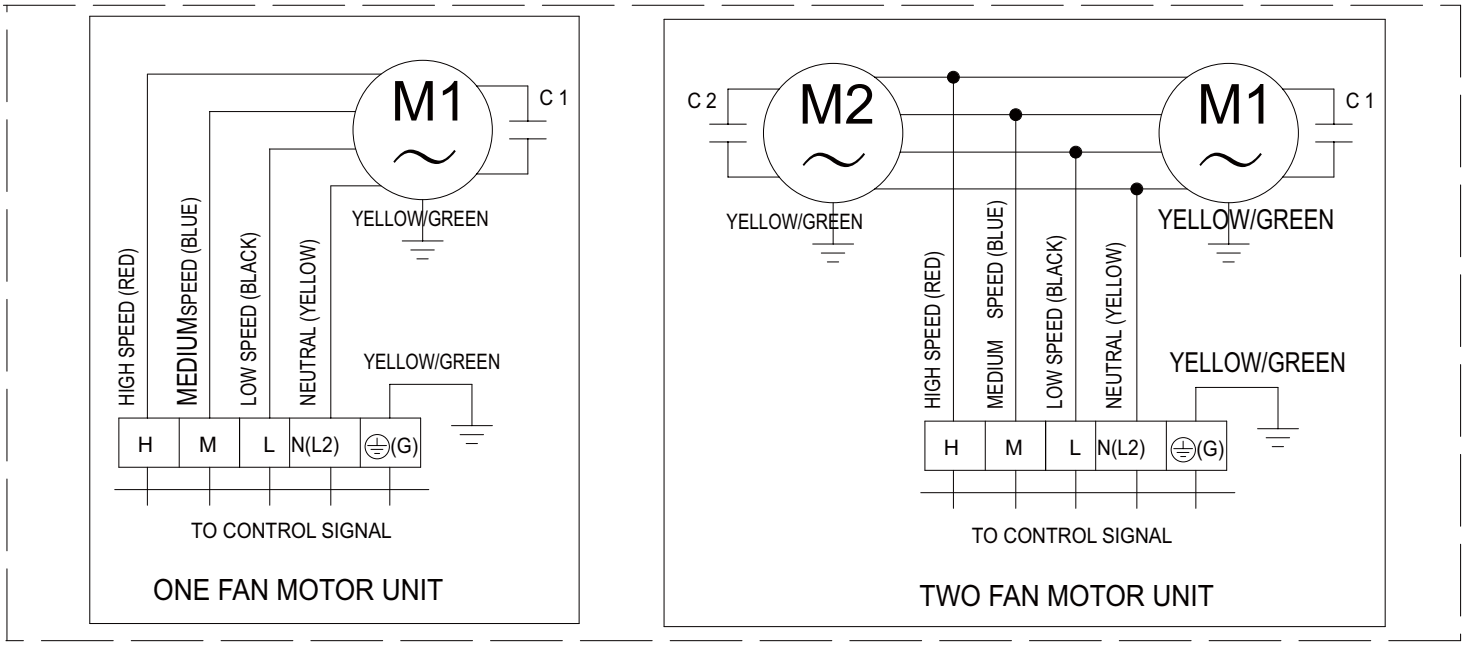
COOLING COIL PERFORMANCE - 3/8" TUBE

Unit Model	Rows of Coil	Fan Speed	Air On DBT/WBT 23℃/16℃				Air On DBT/WBT 24℃/18℃			
			Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃		Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application EWT/LWT 5.5℃/14.5℃	
			T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)
HCFC-03H1DA	4	High	2.4	2.0	1.9	1.8	2.6	1.8	2.4	1.7
		Medium	2.1	1.8	1.7	1.6	2.4	1.7	2.2	1.6
		Low	2.0	1.6	1.6	1.4	2.2	1.5	2.0	1.4
	5	High	2.7	2.2	2.2	2.0	3.2	2.1	2.8	2.0
		Medium	2.5	1.9	2.0	1.8	2.9	1.9	2.6	1.8
		Low	2.2	1.7	1.8	1.6	2.6	1.7	2.4	1.6
	6	High	2.9	2.3	2.5	2.1	3.7	2.4	3.2	2.2
		Medium	2.6	2.0	2.3	1.9	3.4	2.1	2.9	1.9
		Low	2.3	1.8	2.0	1.7	3.0	1.9	2.6	1.7
HCFC-04H1DA	4	High	3.0	2.5	2.4	2.2	3.4	2.4	3.1	2.2
		Medium	2.7	2.2	2.2	2.0	3.1	2.1	2.8	2.0
		Low	2.5	2.0	2.0	1.8	2.9	1.9	2.6	1.8
	5	High	3.1	2.6	2.9	2.5	4.1	2.7	3.6	2.5
		Medium	2.8	2.3	2.6	2.2	3.7	2.4	3.3	2.2
		Low	2.6	2.1	2.3	2.0	3.3	2.2	3.0	2.0
	6	High	3.7	2.9	3.2	2.7	4.6	3.0	3.9	2.7
		Medium	3.3	2.6	2.9	2.4	4.1	2.6	3.5	2.4
		Low	3.0	2.3	2.6	2.1	3.7	2.3	3.2	2.1
HCFC-05H1DA	4	High	3.3	2.8	2.6	2.5	4.3	2.9	3.3	2.5
		Medium	3.0	2.6	2.4	2.3	4.0	2.6	3.0	2.3
		Low	2.8	2.3	2.2	2.0	3.6	2.4	2.8	2.0
	5	High	3.7	3.1	3.0	2.8	4.9	3.2	3.7	2.7
		Medium	3.4	2.8	2.7	2.5	4.5	2.9	3.4	2.5
		Low	3.1	2.5	2.5	2.2	4.0	2.6	3.1	2.2
	6	High	4.2	3.3	3.7	3.1	5.4	3.5	4.3	3.0
		Medium	3.8	3.0	3.4	2.8	5.0	3.2	3.9	2.7
		Low	3.4	2.7	3.0	2.5	4.5	2.8	3.6	2.4
HCFC-06H1DA	4	High	4.0	3.4	3.6	3.2	5.2	3.5	4.0	3.0
		Medium	3.8	3.2	3.4	3.0	4.9	3.3	3.8	2.8
		Low	3.4	2.8	3.1	2.7	4.5	2.9	3.4	2.5
	5	High	4.7	3.8	3.8	3.4	5.9	3.8	4.8	3.4
		Medium	4.4	3.5	3.6	3.2	5.5	3.6	4.5	3.2
		Low	4.0	3.1	3.2	2.8	5.0	3.2	4.1	2.8
	6	High	4.9	4.0	4.5	3.8	6.4	4.1	5.5	3.8
		Medium	4.6	3.7	4.2	3.5	6.0	3.9	5.2	3.5
		Low	4.1	3.3	3.8	3.1	5.4	3.4	4.6	3.1
HCFC-08H1DA	4	High	5.8	5.0	5.0	4.7	7.5	5.1	6.3	4.6
		Medium	5.3	4.6	4.6	4.3	7.0	4.7	5.8	4.3
		Low	4.9	4.2	4.2	3.9	6.4	4.3	5.4	3.9
	5	High	6.8	5.7	5.7	5.2	8.8	5.8	7.2	5.2
		Medium	6.3	5.2	5.2	4.7	8.2	5.4	6.7	4.7
		Low	5.8	4.7	4.8	4.3	7.5	4.9	6.1	4.3
	6	High	7.7	6.2	6.3	5.5	9.3	6.1	7.9	5.6
		Medium	7.1	5.6	5.8	5.0	8.6	5.6	7.3	5.1
		Low	6.4	5.1	5.3	4.5	7.9	5.1	6.7	4.6
HCFC-10H1DA	4	High	7.1	6.1	6.1	5.7	9.2	6.2	7.1	5.4
		Medium	6.6	5.5	5.7	5.2	8.5	5.7	6.6	4.9
		Low	6.1	5.1	5.2	4.7	7.9	5.2	6.1	4.5
	5	High	8.3	6.8	7.0	6.2	10.5	7.0	8.9	6.3
		Medium	7.7	6.2	6.4	5.7	9.7	6.4	8.2	5.7
		Low	7.1	5.7	5.9	5.2	9.0	5.8	7.6	5.2
	6	High	8.8	7.2	7.7	6.7	11.5	7.5	9.8	6.8
		Medium	8.1	6.5	7.0	6.0	10.5	6.8	9.0	6.1
		Low	7.4	5.9	6.5	5.5	9.6	6.2	8.3	5.6
HCFC-12H1DA	4	High	8.9	7.5	7.1	6.8	10.9	7.5	8.9	6.7
		Medium	8.1	6.8	6.5	6.1	10.0	6.8	8.2	6.0
		Low	7.4	6.1	5.9	5.5	9.1	6.1	7.5	5.4
	5	High	10.2	8.4	8.5	7.7	12.4	8.4	10.7	7.6
		Medium	9.3	7.5	7.7	6.8	11.3	7.5	9.8	6.9
		Low	8.4	6.7	7.0	6.1	10.3	6.7	8.9	6.2
	6	High	11.1	9.0	9.6	8.3	14.3	9.3	12.2	8.4
		Medium	10.0	8.0	8.7	7.4	13.0	8.3	11.1	7.6
		Low	9.0	7.1	7.8	6.6	11.6	7.4	10.1	6.7
HCFC-14H1DA	4	High	11.0	9.4	8.8	8.5	13.6	9.4	11.0	8.3
		Medium	10.0	8.5	8.0	7.6	12.4	8.5	10.1	7.5
		Low	9.1	7.6	7.3	6.9	11.4	7.7	9.3	6.8
	5	High	12.1	10.3	10.5	9.6	15.6	10.5	13.2	9.5
		Medium	10.9	9.2	9.5	8.6	14.2	9.4	12.1	8.6
		Low	10.0	8.2	8.7	7.7	13.0	8.5	11.1	7.7
	6	High	13.9	11.3	11.9	10.5	17.0	11.3	14.9	10.4
		Medium	12.5	10.1	10.8	9.3	15.4	10.1	13.5	9.3
		Low	11.3	9.0	9.8	8.3	14.0	9.1	12.3	8.4
HCFC-18H1DA	4	High	12.5	10.8	10.4	10.0	16.1	11.0	13.1	9.8
		Medium	11.6	10.0	9.7	9.2	15.1	10.2	12.3	9.1
		Low	10.5	8.9	8.9	8.2	13.7	9.2	11.2	8.1
	5	High	14.3	12.0	12.2	11.1	18.4	12.3	15.3	11.1
		Medium	13.2	11.1	11.3	10.2	17.2	11.4	14.3	10.2
		Low	12.0	9.8	10.2	9.1	15.6	10.2	13.0	9.1
	6	High	15.6	12.9	13.8	12.2	20.2	13.3	16.9	12.0
		Medium	14.5	11.8	12.9	11.1	18.7	12.2	15.8	11.0
		Low	12.9	10.5	11.5	9.9	16.9	10.9	14.2	9.8
HCFC-20H1DA	4	High	13.8	11.9	11.5	10.9	17.9	12.2	14.5	10.8
		Medium	12.9	11.0	10.7	10.1	16.7	11.3	13.5	10.0
		Low	11.8	10.0	9.9	9.1	15.4	10.3	12.5	9.1
	5	High	15.7	13.2	13.7	12.4	20.2	13.5	16.7	12.1
		Medium	14.5	12.1	12.7	11.3	18.8	12.5	15.5	11.1
		Low	13.3	10.9	11.6	10.2	17.3	11.3	14.3	10.1
	6	High	17.9	14.5	14.6	13.0	22.2	14.6	18.5	13.1
		Medium	16.5	13.2	13.5	11.9	20.6	13.4	17.2	12.0
		Low	15.1	11.9	12.3	10.7	18.8	12.1	15.8	10.8

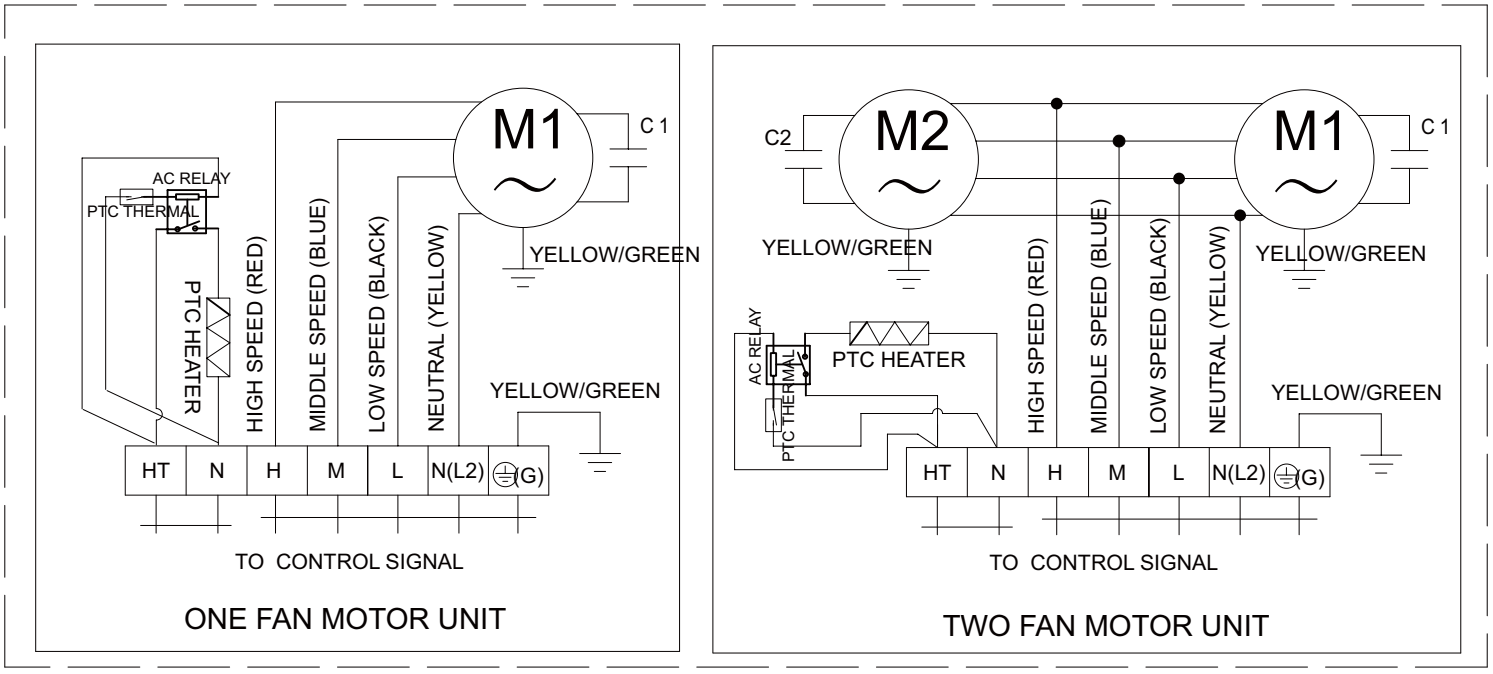
COOLING COIL PERFORMANCE - 1/2" TUBE

Unit Model	Rows of Coil	Fan Speed	Air On DBT/WBT 23℃/16℃				Air On DBT/WBT 24℃/18℃			
			Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application	EWT/LWT 5.5℃/14.5℃	Standard Application EWT/LWT 5.5℃/11.5℃		High Delta T Application	EWT/LWT 5.5℃/14.5℃
			T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)	T.C. (kw)	S.C. (kw)
HCFC-24H1DA	4	High	17.4	15.3	13.3	13.1	22.0	15.4	17.1	13.4
		Medium	15.9	13.7	12.7	12.4	20.2	13.9	15.7	12.1
		Low	14.8	12.1	11.9	11.5	19.0	12.9	14.7	11.2
	5	High	19.9	16.8	16.6	15.5	23.8	16.5	20.6	15.2
		Medium	18.1	15.1	15.1	13.8	21.8	14.9	18.8	13.6
		Low	16.9	13.9	14.0	12.7	20.4	13.7	17.6	12.6
	6	High	21.7	17.9	18.9	16.7	27.6	18.3	23.6	16.6
		Medium	19.6	15.9	17.1	14.8	25.1	16.4	21.5	14.9
		Low	18.2	14.6	15.8	13.6	23.3	15.1	20.1	13.7
HCFC-30H1DA	4	High	21.1	18.6	16.3	16.0	25.4	18.2	20.8	16.3
		Medium	19.7	17.2	16.0	15.6	23.9	16.9	19.6	15.2
		Low	18.4	15.8	14.9	14.3	22.3	15.6	18.4	14.0
	5	High	23.0	20.0	20.3	18.9	29.0	20.1	25.1	18.5
		Medium	21.4	18.4	18.9	17.4	27.2	18.6	23.5	17.1
		Low	19.9	16.9	17.5	15.9	25.4	17.2	21.9	15.7
	6	High	26.4	21.8	23.0	20.4	31.6	21.4	28.1	20.0
		Medium	24.6	20.0	21.4	18.7	29.6	19.8	26.2	18.4
		Low	22.7	18.3	19.7	17.0	27.5	18.2	24.4	16.9
HCFC-36H1DA	4	High	23.9	21.6	19.4	19.1	27.1	20.3	24.7	19.4
		Medium	22.1	19.6	18.7	18.2	25.1	18.5	22.9	17.6
		Low	20.3	17.7	17.2	16.5	23.2	16.8	21.3	16.1
	5	High	27.3	23.8	24.1	22.4	31.2	2.5	29.0	21.7
		Medium	25.0	21.4	22.1	20.2	28.8	20.4	26.7	19.6
		Low	23.0	19.4	20.2	18.2	26.7	18.6	24.7	17.8
	6	High	29.7	25.2	26.8	24.0	37.6	25.5	31.9	23.2
		Medium	27.2	22.7	24.5	21.5	34.5	23.1	29.3	20.9
		Low	24.8	20.4	22.4	19.4	31.8	21.0	27.0	19.0
HCFC-42H1DA	4	High	26.9	24.1	22.7	22.4	30.3	22.6	27.7	216.0
		Medium	25.1	22.1	21.1	20.5	28.4	20.9	26.0	19.9
		Low	23.5	20.5	19.8	19.0	26.9	19.5	24.5	18.5
	5	High	30.4	26.3	27.0	24.9	38.3	26.5	31.8	23.9
		Medium	28.1	24.1	25.0	22.8	35.8	24.4	29.7	21.9
		Low	26.3	22.3	23.3	21.0	33.6	22.7	27.9	20.3
	6	High	33.1	28.0	28.4	26.0	42.0	28.4	35.3	25.6
		Medium	30.7	25.6	26.3	23.7	39.0	26.0	32.8	23.5
		Low	28.6	23.6	24.6	21.9	36.6	24.2	30.8	21.8
HCFC-48H1DA	4	High	30.1	26.9	25.4	25.0	34.2	25.3	31.1	24.1
		Medium	28.2	24.8	23.8	23.0	32.1	23.5	29.2	22.3
		Low	25.8	22.4	21.9	20.7	29.6	21.3	27.0	20.3
	5	High	34.0	29.4	30.2	27.8	42.9	29.6	35.7	26.7
		Medium	31.6	27.0	28.1	25.5	40.2	27.4	33.4	24.6
		Low	28.9	24.3	25.6	22.9	37.0	24.8	30.8	22.3
	6	High	37.2	31.3	31.9	29.1	47.2	31.8	39.7	28.7
		Medium	34.5	28.7	29.7	26.6	43.9	29.2	37.0	26.4
		Low	31.5	25.7	27.0	23.9	40.2	26.4	34.0	23.8
HCFC-54H1DA	4	High	30.9	28.6	28.6	27.7	38.7	28.3	33.4	26.2
		Medium	29.3	26.9	27.1	26.0	36.9	26.7	31.7	24.6
		Low	27.3	24.6	25.2	23.8	34.5	24.6	29.7	22.7
	5	High	38.1	32.6	32.6	30.3	44.2	31.3	40.1	29.7
		Medium	35.9	30.5	30.8	28.4	41.9	29.4	38.1	27.9
		Low	33.3	27.9	28.4	25.8	39.0	27.0	35.5	25.6
	6	High	41.7	34.7	35.8	32.3	48.8	33.7	44.6	31.9
		Medium	39.3	32.5	33.8	30.1	46.2	31.6	42.2	29.9
		Low	36.2	29.5	31.2	27.4	43.0	28.9	39.2	27.4

Wiring Diagram



ELECTRICAL WIRING OF FCU UNITS WITHOUT ELEC. HEATER



ELECTRICAL WIRING OF FCU UNITS WITH ELEC. HEATER

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