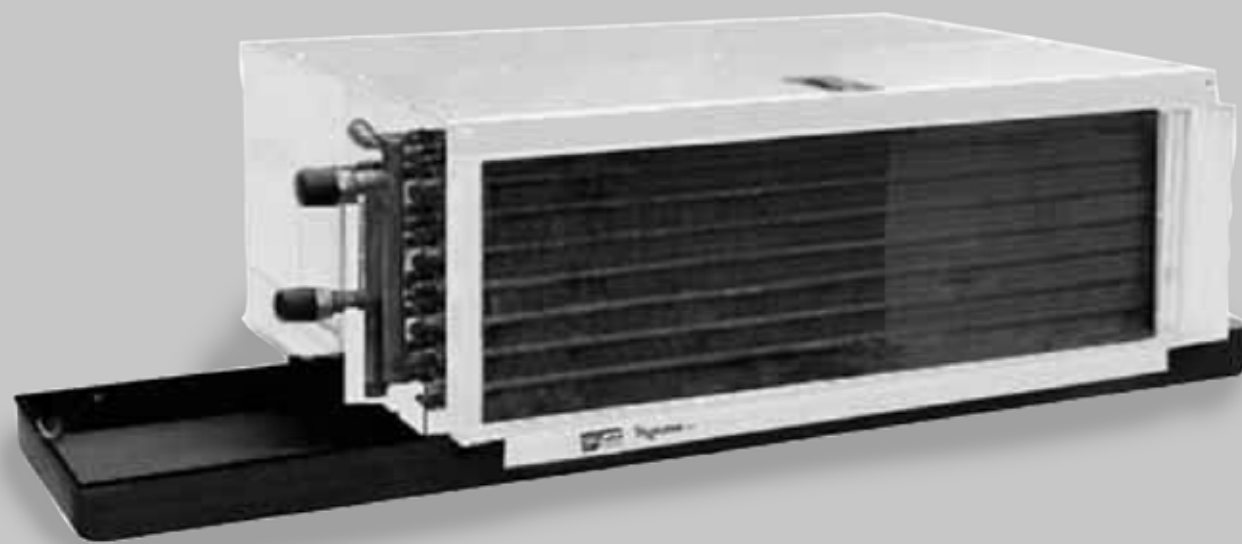


CONCEALED DUCTED FN COIL UNIT (LOW ESP)



SPECIFICATIONS

CABINET

Single skin: Casing made of 1.2mm powder coated galvanized steel sheets, internally insulated with 15mm closed cell foam insulation.

Double skin: Casing made of 1.0mm outer and 0.6mm inner powder coated galvanized steel sheets, with 15mm thick closed cell foam insulation

Option: Return air spigot with bottom withdrawal air filter (additional cost).

FAN SECTION

Fan Motor: 3 speed fan motors with permanent split capacitor, thermal overload protection, and lifetime lubricated ball bearing.

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 10mm or 12mm OD copper tubes mechanically bonded into aluminum fins, with copper header; fin thickness 0.1mm, with fin spacing 2.0mm (12FPI). Cooling coils are ARI rated.

DRAIN PAN

Drain pan made of powder coated galvanized steel along with auxiliary drain pan extending under valve package, insulated with closed cell foam.

Option: Drain pan made of stainless steel (additional cost).

FILTER SECTION

12mm thick aluminum return air filter assembled in aluminum frames provided for easy withdrawal and replacement.

HEATER BATTERY

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

Unit Model		HCFC-02L1	HCFC-03L1	HCFC-04L1	HCFC-05L1	HCFC-06L1	
Unit Performance							
Nom. Airflow Rate	High	(L/S)	95	142	189	236	284
	Medium	(L/S)	86	131	175	219	264
	Low	(L/S)	78	117	156	195	234
External Static Pressure ¹		(Pa)	Free Blow				
Noise Level ²	High	(dB(A))	<45	<47	<51	<49	<51
	Medium	(dB(A))	<43	<45	<49	<47	<48
	Low	(dB(A))	<40	<42	<47	<44	<46
Physical Data							
Cooling Coil Size ³	Fin Height	(mm)	152	152	203	152	203
	Fin Length	(mm)	610	610	610	864	864
	Coil Style	3/8" OD Copper Tube + Hydrophilic Aluminum Fins 12 FPI					
	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
	Qty		1	1	1	1	1
Fan Blower	Qty		1	1	1	2	2
	Size (Dia x L)	(mm)	160 X 160	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				
Drainage Connection		(inch)	3/4" MPT				
Standard Dimension ⁴		(mm)	557 x 962 x 260		557 x 1212 x 260		
Packing Dimension ⁴		(mm)	570 x 995 x 270		570 x 1235 x 270		
Net Weight ⁵	4 Row Coil	(kg)	25.0	26.0	28.0	34.0	37.0
	5 Row Coil	(kg)	26.0	27.0	30.0	36.0	39.0
	6 Row Coil	(kg)	27.0	28.0	31.0	38.0	41.0

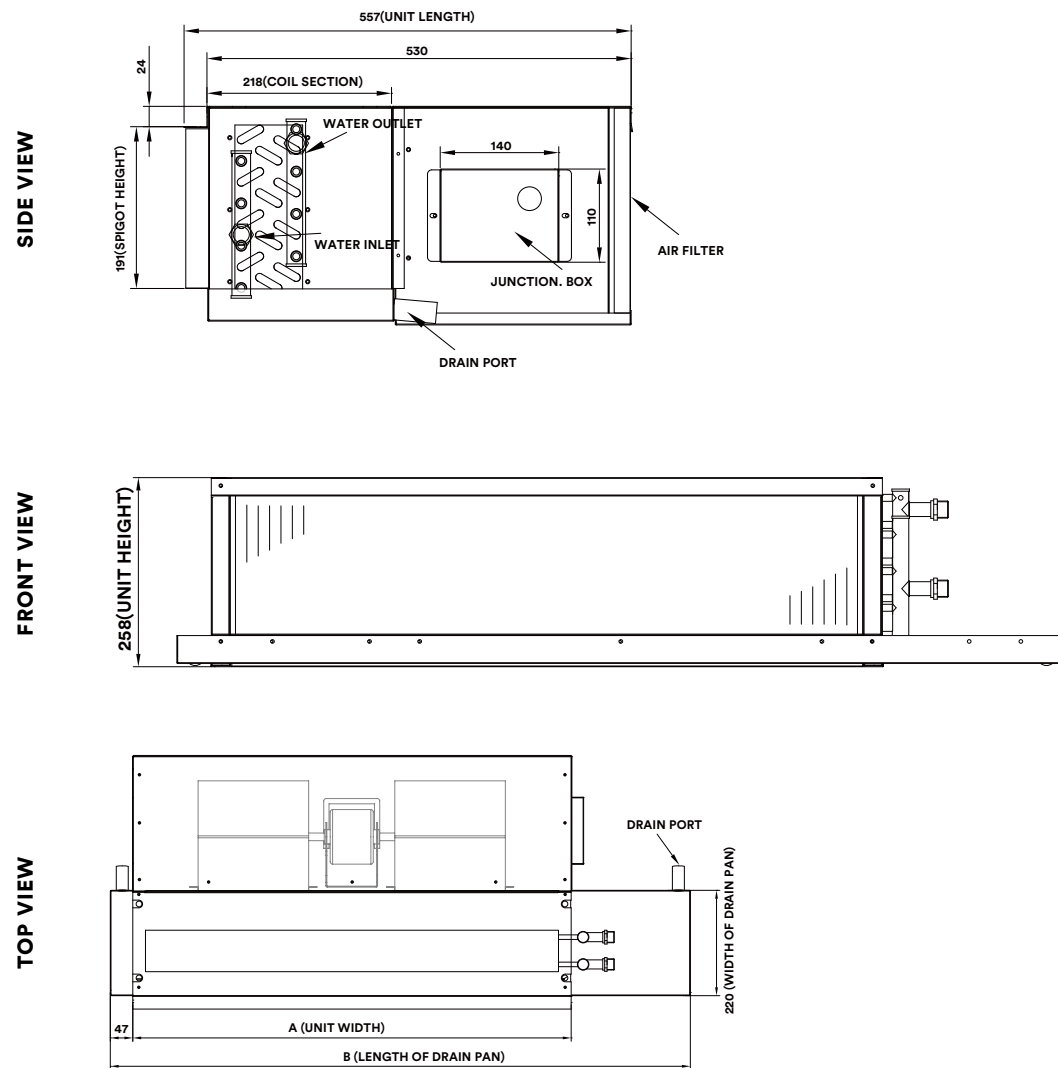
NOTES

- (1) External Static Pressure are measured based on Medium dirty polyester air filter.
- (2) Unit noise level and 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 available with all models.
- (4) Standard dimension and packing dimension are stated based on 15mm thick closed cell foam insulation.
- (5) Please add 3kg onto net weights in calculating the shipping weights.

Unit Model		HCFC-08L1	HCFC-10L1	HCFC-12L1	HCFC-14L1	
Unit Performance						
Nom. Airflow Rate	High	(L/S)	378	472	572	667
	Medium	(L/S)	353	442	503	586
	Low	(L/S)	311	389	453	528
External Static Pressure ¹		(Pa)	Free Blow			
Noise Level ²	High	(dB(A))	<53	<51	<53	<54
	Medium	(dB(A))	<51	<48	<51	<52
	Low	(dB(A))	<50	<46	<48	<49
Physical Data						
Cooling Coil Size ³	Fin Height	(mm)	203	203	203	203
	Fin Length	(mm)	1118	1295	1473	1651
	Coil Style	3/8" OD Copper Tube + Hydrophilic Aluminum Fins 12 FPI				
	Max. Working Pre	20.0 Bar				
Power Supply		220-240V/1PH/50HZ				
Fan Motor	Motor Type		3-Speed Fan Motor			
	Output ²	(w)	100	60 + 60	80 + 80	100 + 100
	Qty		1	2	2	2
Fan Blower	Qty		2	4	4	4
	Size (Dia x L)	(mm)	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" MPT - Outer 3/4" MPT	Inner 3/4" MPT - Outer 1" MPT		
Drainage Connection		(inch)	3/4" MPT			
Standard Dimension ⁴		(mm)	557 x 1467 x 260	557 x 1647 x 260	557 x 1827 x 260	557 x 1997 x 260
Packing Dimension ⁴		(mm)	570 x 1490 x 270	570 x 1670 x 270	570 x 1850 x 270	570 x 2020 x 270
Net Weight ⁵	4 Row Coil	(kg)	44.0	52.0	58.0	64.0
	5 Row Coil	(kg)	47.0	56.0	63.0	69.0
	6 Row Coil	(kg)	49.0	60.0	68.0	75.0

NOTES

- (1) External Static Pressure are measured based on Medium dirty polyester air filter.
- (2) Unit noise level and 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 available with all models.
- (4) Standard dimension and packing dimension are stated based on 15mm thick closed cell foam insulation.
- (5) Please add 3kg onto net weights in calculating the shipping weights.



UNIT MODEL	A (mm)	B (mm)
HCFC-02L1	665	962
HCFC-03L1	665	962
HCFC-04L1	665	962
HCFC-05L1	915	1212
HCFC-06L1	915	1212
HCFC-08L1	1170	1467
HCFC-10L1	1350	1647
HCFC-12L1	1530	1827
HCFC-14L1	1700	1997

CONCEALED DUCTED FAN COIL UNIT (LOW ESP)

Unit Model	Rows of Coil	Fan Speed	Air on DBT/WBT 23°C/16°C				Air on DBT/WBT 24°C/18°C			
			Standard Appli- cation EWT/LWT 5.5°C/11.5°C		High Delta T Appli- cation EWT/LWT 5.5°C/14.5°C		Standard Appli- cation EWT/LWT 5.5°C/11.5°C		High Delta T Appli- cation EWT/LWT 5.5°C/14.5°C	
			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-02L1	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-03L1	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-04L1	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-05L1	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	

CONCEALED DUCTED FAN COIL UNIT (LOW ESP)

Unit Model	Rows of Coil	Fan Speed	Air on DBT/WBT 23°C/16°C				Air on DBT/WBT 24°C/18°C			
			Standard Application EWT/LWT 5.5°C/11.5°C		High Delta T Application EWT/LWT 5.5°C/14.5°C		Standard Application EWT/LWT 5.5°C/11.5°C		High Delta T Application EWT/LWT 5.5°C/14.5°C	
			T.C.	S.C.	T.C.	S.C.	T.C.	S.C.	T.C.	S.C.
			(kw)	(kw)	(kw)	(kw)	(kw)	(kw)	(kw)	(kw)
HCFC-06L1	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-08L1	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-10L1	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

Unit Model	Rows of Coil	Fan Speed	Air on DBT/WBT 23°C/16°C				Air on DBT/WBT 24°C/18°C			
			Standard Application EWT/LWT 5.5°C/11.5°C		High Delta T Application EWT/LWT 5.5°C/14.5°C		Standard Application EWT/LWT 5.5°C/11.5°C		High Delta T Application EWT/LWT 5.5°C/14.5°C	
			T.C.	S.C.	T.C.	S.C.	T.C.	S.C.	T.C.	S.C.
			(kw)	(kw)	(kw)	(kw)	(kw)	(kw)	(kw)	(kw)
HCFC-12L1	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-14L1	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

