

MODEL FHDC / TACU

HIGH STATIC (150 Pa External Static)

DUCTED FAN COIL UNIT

CAPACITY RANGE FROM

80,000 TO 150,000 BTU/H (23.45 kW - 43.96 kW)



FEATURES

- Easy to maintenance.
 - Casing opens from left, right, and bottom of the unit
 - Drain pan, blower set, and evaporator coil easily pulled out from bottom to maintenance
- Modern SLIM design with low unit height
 - 470 mm for model 80-90
 - 575 mm for model 100-120
 - 630 mm for model 150
- 150 Pa External static pressure with direct-drive motor (3-speed taped)
- Durable construction
- Supplied with air filters

DESCRIPTION

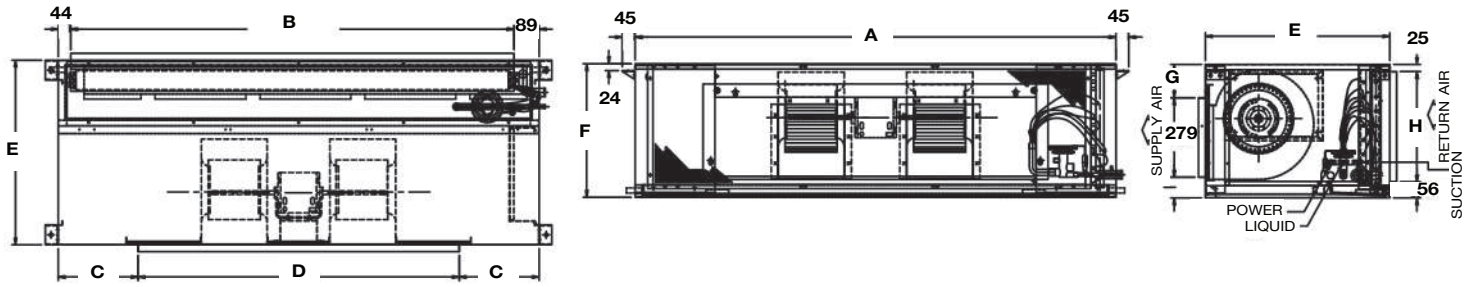
- FHDC ducted fan coil unit are suitable for ceiling duct mounted
- Draw Thru type with return air plenum
- Direct expansion



Air Conditioning Experts

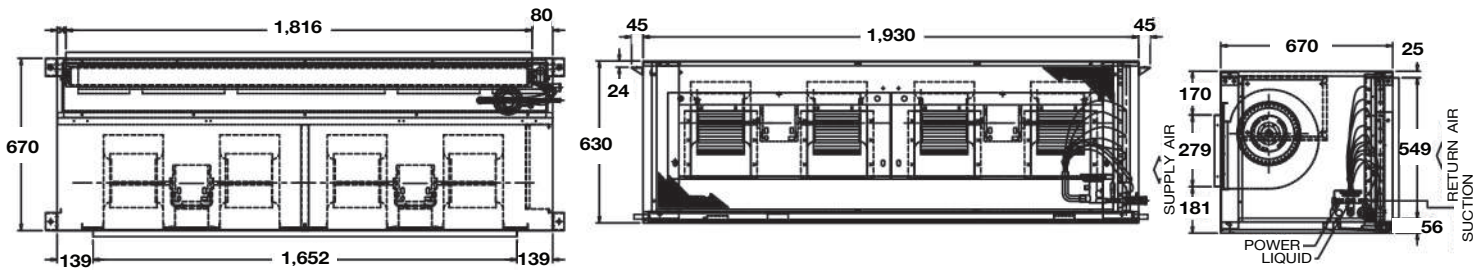
DIMENSIONAL DRAWINGS MODEL: FHDC

MODEL: FHDC 080A1 to 120A1



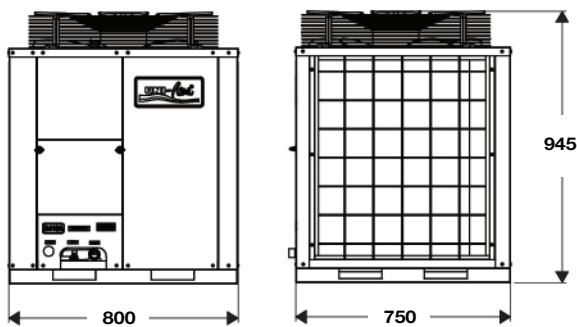
MODEL	DIMENSIONAL MODEL: FHDC								
	A	B	C	D	E	F	G	H	I
FHDC-080A1	1,695	1,562	281.5	1,132	650	470	118	389	73
FHDC-090A1									
FHDC-100A1	1,820	1,687	344	1,132	670	575	164	494	132
FHDC-120A1									

MODEL: FHDC 150A1

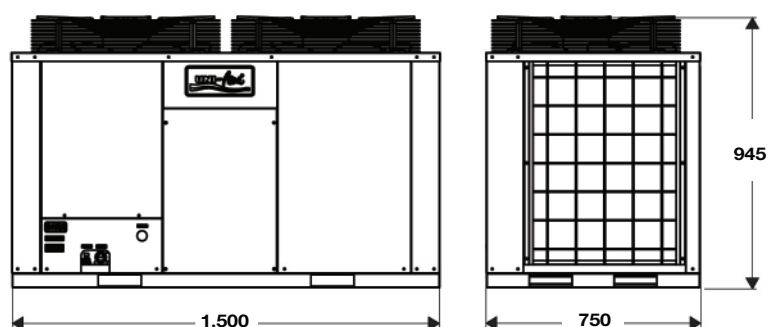


DIMENSIONAL DRAWINGS CONDENSING UNIT MODEL: TACU

MODEL: TACU 080AS to 010AS



MODEL: TACU 012AS to 015AS





Model : TACU
008AS to 010AS



Model : TACU
012AS to 015AS

UNIT CASING

- Constructed of zinc-coated heavy-gauge, Galvanized steel
- Powder coated for protection against rust



Option : Free blow supply air grille

TECHNICAL SPECIFICATION

The unit with plenum is fabricated from electro-zinc coated steel sheet. The cabinet is finished in white powder coating for protection against rust. The exterior panels are insulated with 10 mm. thick polyethylene foam. The insulation is affixed to the casing with the water proof adhesive.

BLOWER

The blower is the double inlet, forward curved centrifugal type and statically and dynamically

DX COIL

The coil consists of full face coil with counterflow circuits, seamless staggered copper tubes mechanically bonded into aluminium fins. Each coil is degreased internally and externally, brazed in nitrogen atmosphere, leak tested at 350 psig and completely dehydrated before assembly

MOTOR

3 - Speed - Direct drive

CONDENSATION REMOVAL

Drip pan with water - repellent type insulation to ensure positive removal of all condensation and prevent condensation on the underside of the drip pan. The unit shall have double drain tray with separate drain connection.

FILTERS

Air filters are nylon filter type.

SPECIFICATION MODEL : FHDC / TACU

Nominal Cooling Capacity	(BTU/Hr)	80,000	90,000	100,000	120,000	150,000
COP	(Watt / Watt)	3.01	2.96	2.92	2.91	2.83
Power Consumption	(kW)	7.79	8.90	10.02	12.08	15.55
Rated Operation Current	(Amp.)	17.32	18.32	22.49	25.55	37.19
Power Supply	(Volt/Phase/Hz)	380/3/50				
Fan Coil Unit	Model Type	FHDC-80A1	FHDC-90A1	FHDC-100A1	FHDC-120A1	FHDC-150A1
Rated Air Flow at High Speed	(CFM)	2,667	3,000	3,333	4,000	5,000
Blower	Type	Multi Blade Centrifugal Fan : Direct Drive (3 Speed)				
	Quantity (PCS)	2				
Motor	Power Input (Watt)	1,141	1,131	1,141	1,131	1,141 x 2
	Rated Current (Amp.)	5.09	4.72	5.09	4.72	5.09 x 2
	Quantity (PCS)	1				
	Power Supply (Volt/Phase/Hz)	220/1/50				
Evaporator Coil		Aluminium Louver Fin with Inner Grooved Copper Tube				
Expansion Device Type		Thermostatic Expansion Valve (TXV.)				
Control Type		Optional				
Air Filter Type		Nylon Filter				
Drain Connection	(Inch)(OD)	3/4				
Dimension (W x D x H)	(mm.)	1,695 x 650 x 470		1,820 x 670 x 575		1,930 x 670 x 630
Weight	(kgs.)	76	80	96	101	131
Condensing Unit	Model Type	TACU-008AS	TACU-009AS	TACU-010AS	TACU-012AS	TACU-015AS
Condenser Coil Type		Aluminium Louver Fin with Inner Grooved Copper Tube				
Fan	Type	Propeller				
	Quantity (PCS)	1		2		
Motor	Power Input (Watt)	485		485 x 2		
	Rated Current (Amp.)	1.23		1.23 x 2		
	Quantity (PCS)	1		2		
Compressor	Type	Scroll				
	Refrigerant	R-410A (Holding Charge)				
	Power Input (Watt)	6,170	7,290	8,400	9,970	12,300
	FLA (Amp.)	11.0	13.9	16.2	18.0	24.6
	LRA (Amp.)	101	127	153		174
	Quantity (PCS)	1				
Refrigerant Type		R-410A (Holding Charge)				
Pipe Connection	Suction Line (Inch)(OD)	7/8		1-1/8		
	Liquid Line (Inch)(OD)	1/2			5/8	
Dimension (W x D x H)	(mm.)	800 x 750 x 945			1,500 x 750 x 945	
Weight	(kgs.)	120	142	150	170	185

*Nominal cooling capacity based on 80 °FDB and 67 °FWB entering air temp., And 45 °F suction temp. and 95 °F ambient temp.

Specification are subjected to change without notice for future improvement

FLA = Full Load Amp.

LRA = Locked Rotor Amp



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