

# 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 70-90
  - 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



**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 balanced.

**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.

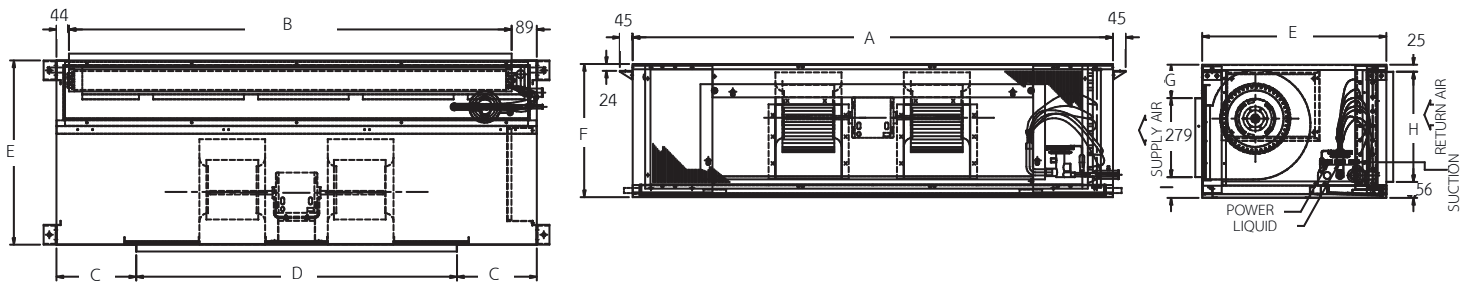
SPECIFICATION MODEL : FHDC / TACU						
Nominal Cooling Capacity	(BTU/Hr)	80,000	90,000	100,000	120,000	150,000
COP	(Watt / Watt)	3.01	2.96	2.92	2.91	2.83
Power Consumption	(kW)	7.79	8.90	10.02	12.08	15.55
Rated Operation Current	(Amp.)	17.32	18.32	22.49	25.55	37.19
Power Supply	(Volt/Phase/Hz)	380/3/50				
Fan Coil Unit	Model	FHDC-80AS	FHDC-90AS	FHDC-100AS	FHDC-120AS	FHDC-150AS
	Type	Duct Type				
Rated Air Flow at High Speed	(CFM)	2,600	3,000	3,300	4,000	5,000
Blower	Type	Multi Blade Centrifugal Fan : Direct Drive (3 Speed)				
	Quantity	2				
Motor	Power Input	1,141	1,131	1,141	1,131	1,141 x 2
	Rated Current	5.09	4.72	5.09	4.72	5.09 x 2
	Quantity	1				
	Power Supply	220/1/50				
Evaporator Coil	Aluminium Louver Fin with Inner Grooved Copper Tube (7 mm.)					
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	
Weight	(kgs.)	76	80	96	101	131
Condensing Unit	Model	TACU-008AS	TACU-009AS	TACU-010AS	TACU-012AS	TACU-015AS
	Type	Vertical Air Flow				
Condenser Coil Type	Aluminium Louver Fin with Inner Grooved Copper Tube (7 mm.)					
Fan	Type	Propeller				
	Quantity	1			2	
Motor	Power Input	485			485 x 2	
	Rated Current	1.23			1.23 x 2	
	Quantity	1			2	
Compressor	Type	Scroll				
	Refrigerant	R-410A (Holding Charge)				
	Power Input	6,170	7,290	8,400	9,970	12,300
	FLA	11.0	13.9	16.2	18.0	24.6
	LRA	101	127	153		174
	Quantity	1				
Power Supply	380/3/50					
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



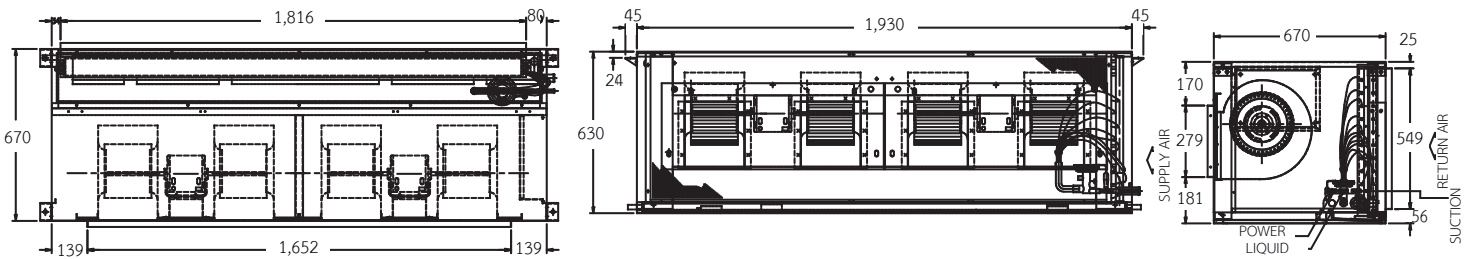
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**FHDC 080AS to 120AS**

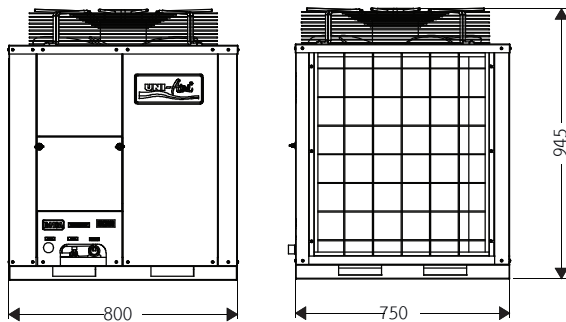


MODEL	A	B	C	D	E	F	G	H	I
FHDC-80AS	1,695	1,562	281.5	1,132	650	470	118	389	73
FHDC-90AS									
FHDC-100AS	1,820	1,687	344	1,132	670	575	164	494	132
FHDC-120AS									

**FHDC 150AS**



**MODEL : TACU-008AS to TACU-010AS**



**MODEL : TACU-012AS to TACU-015AS**

