

### Introduction:

Fan coil units are available in DX Coil and Chilled Water. These are used for installation as end terminals in any commercial, industrial buildings and large residential to provide the required temperature and airflow for each room.

FCUs may be mounted in cabinets, inside walls, in-ceiling plenums, or in other locations. Its range is from 300CFM to 1600CFM. These units are constructed rugged and strong. They are lightweight and compact for installation between the ceiling and false ceiling or on the floor. It is the most suitable to operate with centralized production of chilled water. The units are connected with the chiller individually with individual regularity operational control.

These units provide the advantage of setting different temperatures for each room. It also results in energy saving by switching off the units of a vacant room.

### Features:

#### Quiet & Smooth Operation:

*Antarc* fan coil units have a low noise level. The design of its blower assembly and smooth running of moving parts results in quiet operation.

#### Excellent Performance:

The centrifugal fan quietly blows conditioned air in the unit where it passes through the designed coil and enter in the room. It provides the required temperature for the space.

#### Compact & Space Saver:

*Antarc* fan coil units are designed simple and compact, to suit the limited spaces available at the site. The concealed units can be installed without ducts or with very short ducts and the exposed FCUs require no ducting. The only need is to connect the small water piping and electric supply.

#### Energy Saving and Air Conditioning:

A different temperature can be set in each room as per requirement. It can also be switched off if a room is vacant. The electrical consumption will be spent accordingly. So it saves energy.

#### Suitable for All Applications:

*Antarc* fan coil units are perfectly suited for installation in any commercial building, industrial application, hotels, offices, hospitals, and restaurant as well as for large residences to provide the required temperature and airflow for each room. It provides the perfect solution to match your needs.



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### Types of FCU



**Wall Mounted Type**  
(Mounted on Wall)



**Concealed Type**  
(Mounted with Ceiling Above the false ceiling)



**Floor Mounted FCU**  
(Mounted on Floor)

### Components of FCU:

#### Thermostats:

The thermostat is used to control the temperature with bright indication lights. These thermostats may be mounted on the wall or mounted in a unit depending upon the design requirement.

#### Motorized Valve:

Antarc fan coil units are supplied with a factory-fitted 3-way motorized valve, to control the room temperature in connection with the setting of room temperature.

#### Motor & Blowers:

Antarc fan coil units are equipped with high-quality aluminum blowers for operation. These blowers are tested by quality control inspectors. 3-Speed motor Low-Medium High with a specific clause.

#### Coils :

The coils are designed according to the requirement as per capacity of Unit

#### Drain Pan:

The drain pipe is closed-cell polyurethane insulated drain pans with Rexene covering. The 'H' models are provided with double-walled sandwiched drain pans.

#### Filters:

All exposed models are supplied with washable air filters.

#### Supply & Return Air Grills:

All exposed models are supplied with double deflection supply air grills and stamped return air grills.

#### Electric Heaters (Optional):

Electric heaters may be provided as optional for heating in winter. These heaters are provided with auto-reset type thermal cut outs.

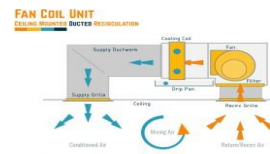


Features	Detail	FCU -10	FCU -12	FCU -18	FCU -24	FCU -30	FCU -36
Cooling Capacity	Ton	2.5	4	6	8	10	12
Air Flow	cfm	800 – 1000	1200- 1600	1800- 2000	2400- 3200	3000- 3600	3600- 4800
Water Flow	US GPM	8--10	12--14	18-20	24-26	30-32	36-38
Static Pressure	Standard (inH2O)	1.0 to 5.0	1.0 to 5.1	1.0 to 5.2	1.0 to 5.3	1.0 to 5.4	1.0 to 5.5
Water test line Sizes	inlet/out	5/8	7/8	1.0	1-1/4"	1-3/8"	1-1/2.
Fan	Type	Centrifugal					
	Drive	Forward curve/backward					
Motor	Watts/HP	373/ 0.5	746/ 1.0	1100/ 1.5	15000/ 2.0	2238/ 3.0	3000/ 4.0
Heat Exchanger/ Coil		99.9% copper pipe, blue fin with headers					
Body	Grade	IP 55.56					
	Frame	High Grade Aluminum profile					
Safety Devices	Power Monitor, Overload relay as per standard units						
Power Supply	220 1P 50Hz						

**NOTE:** Aluminum washable filter will be provided with the unit. AHU can be provided upto 50 Ton w.r.t client requirements. Special Filter F9, F5, F4 and Hepa Filters are optional. Additional DX Coil with matching outdoor unit at same body can also be provided.

The data is based on following conditions:

Cooling capacity\* and cooling input power \*Indoor temperature 27°CDB/19°CWB): Ambient Temperature 42°CDB, Cooling Capacity\*\* and Cooling Input Power\*\* Indoor Temp. 29°CDB/19°CWB: Ambient Temperature 46°CDB.



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