New HFCF Mechanical Specifications

General

1) This section specifies the fan, motor, filters, casing, drain pan etc. of fan coil units and associated accessories.

2) The fan coil unit is developed basically by reference to China National Standard, GB T 19232-2003.

Fan

1) The fan shall be of double inlet double width, forward curved centrifugal flow type and of metal construction impeller to a solid steel shaft;

2) Fan diameter is 160mm;

Coils

1) Coils shall be constructed of seamless copper tubes with hydrophilic aluminum fins.

2) The coils shall be designed at 1800kPa.

3) Coils shall be provided with air vents at the highest point and drain purge at the lowest point.

Motor

1) Fan motors shall be of the "split capacitor" type suitable for operation.

2) Motor shall be three speeds, NSK ball bearing types.

3) Electrical cables or wirings installed outside the casing and inside the air stream shall be protected by metallic flexible conduits.

Filters

1) Filters shall be of the Nylon or aluminum washable type with a minimum thickness 20mm.

2) Filters shall be easily taken down and cleaned.

Casing/Plenums

1) The casing/plenums of fan coil unit shall be provided with supply and return ducts connections.

2) Casing/plenum shall be of galvanized steel construction of at least 0.8mm thick.

3) Casing/plenums shall have sufficient access door for inspection and maintenance of filters.

Drain Pan

1) Drain Pan shall be situated beneath the cooling coil to ensure all condensate can be fully collected.

2) Drain pan shall be constructed from galvanized steel or stainless steel and not less than 0.6 and 0.8mm thickness respectively.

3) The insulation of drain pan shall be constructed with one-piece material.

Options

1) The fan coil unit with factory mounted 2-way or 3-way valve shall be provided by manufacture.

2) The factory mounted valve shall be of pressure test and coordinated with thermostat provided by manufacture.

3) The fan coil unit shall have Nylon/Aluminum filters for optional.