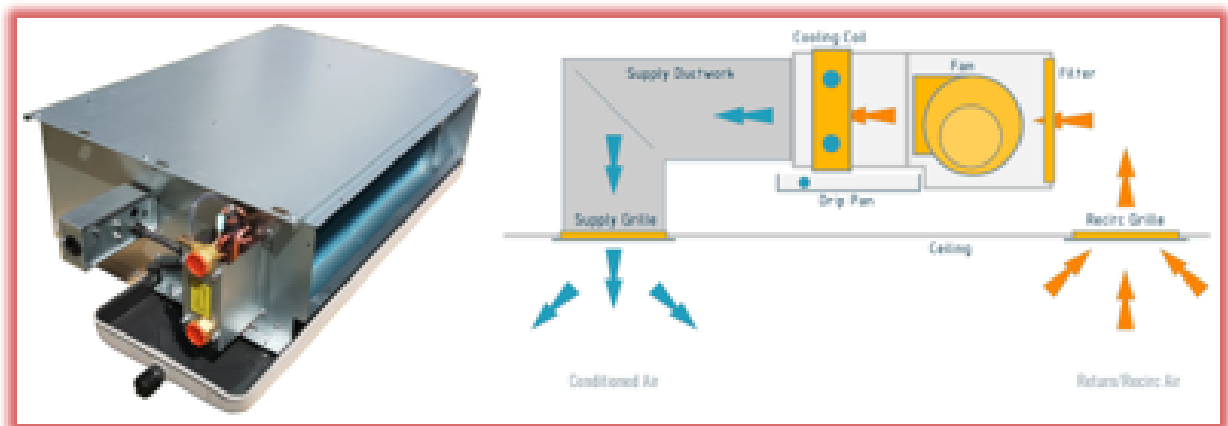


METHOD STATEMENT

FOR INSTALLATION OF



FAN COIL UNITS

Method Statement for Installation of Fan Coil Units

1.0 Scope

1.1 This method statement applies to Fan Coil Units and associated valve package and controls, as per Specification Section 15700.

2.0 Purpose

2.1 Purpose of this method statement is to outline the method of storage, handling and installation of fan coil units, valve package and controls.

3.0 Material

3.1 Fan Coil Units.

3.2 Gate valves, 2 way control valves, and commissioning set.

3.3 Piping accessories as per approved submittals.

3.4 Threaded rods, fasteners, etc., for supports.

4.0 Method**4.1 Receiving**

4.1.1 When received at site, each Fan Coil Unit shall be checked for quantities, Model Nos., physical damages and coil connection details and notify supplier of any non-compliance. After completion of inspection, FCUs shall be stored properly with protective covering.

4.1.2 Any items found damaged or not suitable as per the project requirements shall be removed from site. Until such time, the damaged/non-compliant material shall be clearly marked and stored separately to prevent any inadvertent use.

4.1.3 Valves and other accessories shall be checked for size, Model and quantity. As in 4.1.2 above any non-compliant material will be returned to the supplier for suitable replacement.

4.1.4 Valves and controls shall be segregated as per sizes/models and stored on racks within a covered store.

4.2 Storage

4.2.1 While unloading, the FCUs shall be carefully and slowly lowered to the ground. Adequate manpower will be engaged for safe handling of the FCUs. The FCUs will be segregated model wise and stacked accordingly for easy retrieval.

4.2.2 Manufacturer's instructions shall be strictly followed as applicable.

- 4.2.3 A maximum of 5 Nos. FCUs or as recommended by the manufacturer shall be stacked one above the other in one lot.
- 4.2.4 Where applicable, the bigger size FCUs shall be stored at the bottom and smaller size FCUs above.
- 4.2.5 Store Keeper will be responsible for proper storage and maintenance of records, as required.

4.3 Preparation

- 4.3.1 Mark the support locations as per approved drawings/manufacturers details and fix the approved anchor fasteners in the slab.
- 4.3.2 Fix the duct flexible connection on air outlet side of the Fan Coil Units.
- 4.3.3 Ensure ducting is provided with acoustic lining as per approved shop drawings.
- 4.3.4 Check co-ordination with false ceiling and other services prior to installation.
- 4.3.5 Ensure easy accesses and sufficient clearance for servicing and maintenance i.e. for cleaning of filters, removal of motors, maintenance of valve packages.

4.4 Installation

- 4.4.1 Follow the manufacturer's instructions while installing the FCU.
- 4.4.2 Install Fan Coil Unit with threaded rod and G.I. fasteners and rubber bushes supplied by the manufacturer. Sufficient manpower will be engaged for safe installation.
- 4.4.3 Check the slope of the drain tray in the direction of drainpipe connection.
- 4.4.4 Flow test the drain tray and ensure water is drained out completely.
- 4.4.5 Complete the valve package and piping connections as per approved drawings.
- 4.4.6 Ensure 2-way valves, and commissioning set is installed correctly as per direction of the flow.
- 4.4.7 Connect the drain piping as per approved drawings.
- 4.4.8 Ensure the provision for cleaning of drain tray.
- 4.4.9 Install the electrical connections as per approved drawings and as per approved method statement reference ETA/MS/E-015.

4.4.10 Clean the interiors of FCU and drain tray.

4.4.11 FCU CHW inlet and outlets shall be connected to CHW piping by using Di-electric couplers.

4.5 Testing

4.5.1 FCU and valve package shall be pressure tested along with chilled water piping system.

4.5.2 Flow test the drain tray and ensure water is drained out completely.

5.0 Inspection

5.1 Work Inspection Request shall be raised for Consultant's inspection and sign off.

5.2 Inspection shall be carried out as per the installation checklist.

5.3 Inspection shall be recorded in the approved format.

6.0 Safety

6.1 All safety precautions shall be followed as per established project safety plan and procedure.

6.2 Only experienced and skilled technicians shall be engaged for carrying out FCU installation work.

6.3 The people involved in the installation shall use PPE such as safety helmets, safety shoes, safety harness, gloves, etc., as required.

6.4 Safety officer shall check and ensure that all safety precautions are followed.

6.5 Safety officer shall check and ensure that all scaffolding and ladders used at site are having duly signed tags.

7.0 References

7.1 Manufacturer's catalogue.

7.2 Approved submittal.

7.3 Approved shop drawings.

7.4 Specification section: 15700.

8.0 Records

8.1 'Work Inspection Request' duly signed by the Consultant.

8.2 Fan Coil Unit installation checklist.