

1 General

1.1 RELATED SECTIONS

- .1 Section 23 09 33 - Electric and Electronic Controls Systems for HVAC
- .2 Section 26 05 00 - Common Work Result Electrical

1.2 REFERENCES

- .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .2 American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).
 - .1 ASHRAE 79 - Method of testing for rating fan coil conditioners.

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet in accordance with Section 01 33 00 - Submittal Procedures. Include product characteristics, performance criteria, and limitations.
 - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Material Safety Data Sheets (MSDS) in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Product data to include:
 - .1 Filters, fan accessibility.
 - .2 Suspension, anchoring of cabinet.
 - .3 Physical size.
 - .4 Thermostat, transformer, controls where integral.
 - .5 Finish.
 - .6 kW rating, voltage, phase.
 - .7 Cabinet material thicknesses.
- .2 Shop Drawings:
 - .1 Submit drawings stamped and signed as reviewed by Contractor.
- .3 Quality assurance submittals: submit following in accordance with Section 01 33 00 - Submittal Procedures.
 - .1 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
 - .2 Instructions: submit manufacturer's installation instructions.

1.4 QUALITY ASSURANCE

- .1 Health and Safety:
 - .1 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Packing, shipping, handling and unloading:
 - .1 Deliver, store and handle in accordance with manufacturer's written instructions and Section 01 61 00 - Common Product Requirements.
- .2 Waste Management and Disposal:
 - .1 Construction/Demolition Waste Management and Disposal: separate waste materials for reuse in accordance with Section 01 74 00 - Cleaning.
 - .2 Divert unused metal and wiring materials from landfill to metal recycling facility approved by Departmental Representative.

2 Products

2.1 FAN COIL UNITS

- .1 Cabinet: steel, 1.2 mm thick, floor, wall or ceiling mounting, recessed. Front inlet/ front outlet.
- .2 Elements: stainless steel sheathed with corrosion protected steel fins covering full length of element capacity as indicated.
- .3 Blower motors: single phase, ECM drive.
- .4 Wall mounted thermostats: type as indicated, to Section 23 09 33 - Electric and Electronic Control System for HVAC.
- .5 Filter: cartridge style, throwaway.
- .6 Trim for flush installation.
- .7 Finish: three stage phosphatized treatment followed by 2 coats air dry enamel with final coat.
- .8 Assembly fully wired to one outlet location.
- .9 Multiple knockouts for up to 1 1/2" conduit.
- .10 Refrigerant coil complete with drain pan for heating and cooling, for use with condensing unit specified in Section 23 81 40 - Air and Water Source Unitary Heat Pumps.

3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

3.2 INSTALLATION

- .1 Mount or hang units as indicated.
- .2 Make power and control connections.
- .3 Co-ordinate ducting of fresh air with other divisions.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 00 - Cleaning.
- .2 Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION
