

**USask Master Specification Directions:** The master specifications are intended to be incorporated into the Consultant's final, project specific specification package. The project specific specifications are expected to include any and all sections or portions of sections (Part 1, Part 2, Part 3) that are required to create a fully executable project specification. USask Master Specs only provide information that USask **requires** be a part of the final specification package. Components or sections not included in the Master USask Specifications may still be required for a complete, well-designed project. **It is the consultant's responsibility to ensure all specifications match USask requirements. Any deviations or revisions to any section included in the master specifications requires written consent from the USask Engineering department. The consultant is liable for any omissions, errors, or incorrect equipment or components supplied to site.**

The Master Specifications shall be used in conjunction with USask's Design Guidelines. Any conflicts shall be brought to the attention of USask Engineering staff for clarification.

**Part 1            General**

**Part 2            Products**

**2.1                SYSTEM DESCRIPTION**

.1                Performance Requirements:

- .1                Catalogued or published ratings for manufactured items: obtained from tests carried out by manufacturer or those ordered by manufacturer from certified ADC (Air Diffusion Council) testing agency signifying adherence to codes and standards.

**2.2                MANUFACTURED UNITS**

- .1                Terminal units of the same type to be product of one manufacturer.

**2.3                VARIABLE VOLUME BOXES – SINGLE DUCT**

- .1                Factory reset to air flow between minimum and maximum air volume.
- .2                Sizes, capacities, differential pressures and sound ratings: as indicated.
- .3                Complete with:
  - .1                Operator and controller: as indicated on drawings. Controller supplied by USask.
  - .2                Multiport outlet adapter: as indicated.
  - .3                Reheat coil: as indicated.
  - .4                Access doors upstream of heating coil for cleaning.
- .4                Adjustable reset start point.
- .5                Operator to be field mounted and calibrated (by this contractor):
  - .1                Gauge taps for balancing with standard pressure gauge.
  - .2                Controller to have adjustable flow settings.
- .6                Casing: constructed of not less than 22 gauge galvanized steel, 25mm thick closed-cell foam insulation. Cellular insulation meets UL 181 and NFPA 90A, and does not support mold growth. Mount control components inside protective metal shroud.

- .7 Acceptable manufacturers: Krueger, EH Price, Nailor.

## **2.4 VARIABLE VOLUME BOXES – DUAL DUCT**

- .1 Factory reset to air flow between minimum and maximum air volume.
- .2 Sizes, capacities, differential pressures and sound ratings: as indicated.
- .3 Complete with:
  - .1 Link shaft and dampers. Controls to be supplied by USask controls department.
  - .2 Multiport sensor.
  - .3 NEMA1 control enclosures.
  - .4 Sound attenuator: as specified in Section 23 32 48- Acoustical Air Plenums, and as noted on drawings.
  - .5 Multiport outlet adapter: as indicated.
- .4 Adjustable reset start point.
- .5 Operator to be field mounted and calibrated:
  - .1 Gauge taps for balancing with standard pressure gauge.
  - .2 Controller to have adjustable flow settings.
- .6 Casing: constructed of not less than 22 gauge galvanized steel, 25mm thick closed-cell foam insulation. Cellular insulation meets UL 181 and NFPA 90A, and does not support mold growth. Mount control components inside protective metal shroud.
- .7 Acceptable model: E.H. Price. No equals.

## **Part 3 Execution**

### **3.1 INSTALLATION**

- .1 Install in accordance with manufacturers recommendations.
- .2 Support independently of ductwork.
- .3 Locate controls, dampers and access panels for easy access.

**END OF SECTION**