

## **PART 1 - GENERAL**

### **1.1 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 independent testing agency signifying adherence to Codes and Standards.

### **1.2 SUBMITTALS**

- .1 Product Data.
  - .1 Submit manufacturer's printed product literature, specifications and datasheet in accordance with Architectural Specifications. Include product characteristics, performance criteria, and limitations.
  - .2 Indicate following:
    - .1 Capacity;
    - .2 Throw and terminal velocity;
    - .3 Noise criteria;
    - .4 Pressure drop;
    - .5 Neck velocity.
- .2 Quality Assurance: Submit the following in accordance with Architectural Specifications.
  - .1 Certificate: Submit catalogued or published ratings obtained from tests carried out by the manufacturer or those ordered by the manufacturer from an independent testing agency demonstrating adherence to codes and standards.
  - .2 Instructions: Submit manufacturer's installation instructions:

### **1.3 QUALITY ASSURANCE**

- .1 Health and Safety: Apply pertinent measures in accordance to Architectural Specifications.
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## **1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Packing, Shipping, Handling, and Unloading.
  - .1 Deliver, store, and handle in accordance with Architectural Specifications.
  - .2 Deliver, store, and handle materials in accordance with manufacturer's written instructions.
- .2 Waste Management and Disposal.
  - .1 Construction/Demolition Waste Management and Disposal: separate waste materials for reuse and recycling in accordance with Architectural Specifications.

## **1.5 MAINTENANCE**

- .1 Extra Materials.
  - .1 Provide maintenance materials in accordance with Architectural Specifications.
  - .2 Include:
    - .1 Keys for volume control adjustment.
    - .2 Keys for air flow pattern adjustment.

## **PART 2 - PRODUCTS**

### **2.1 GENERAL**

- .1 Standard products meeting requirements regarding following items: air flow, pressure loss, air terminal velocity, range, noise level, and velocity at maximum narrowing point (clamp).
  - .2 Casing.
    - .1 Steel casing: Primed stamped steel, cold rolled with apparent joints welded and miter joints at the angles.
    - .2 Aluminum casing: Extruded aluminum, satin finish, with mechanical fasteners and miter joints at the angles.
    - .3 Sealing trim surrounding casing.
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- .4 Assembling frame, coated for casing mounted within coated wall or partition, or made from plaster plates, as prescript.
- .5 Hidden attach system.
- .3 Hidden manual operation device for volumetric registers.
- .4 Diffusers, registers, grilles, and Pod unit shall be with vandalproof screw.
- .5 Acceptable Products: E.H. Price; Titus; Nailor.
- .6 Characteristics: See table on drawing.

## **2.2 MANUFACTURED UNITS**

- .1 Grilles, registers, and diffusers of same generic type, products of one manufacturer.

## **PART 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 Install in accordance with manufacturers instructions.
- .2 Install with flat head cadmium plated screws in countersunk holes, where fastenings are visible.
- .3 Bolt diffusers and grids located in the gymnasium and other playing rooms. Install a security chain for each grid and diffuser.
- .4 Paint the back of the grilles, diffusers and registers flat black as to minimise visibility of metallic components.
- .5 For double-deflection grids, make sure the blades are set to the required orientation.
- .6 Install balancing dampers with each grid and diffuser.

### **END OF SECTION**

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