

PART 1 GENERAL

1.1 SUMMARY

.1 Section includes:

- .1 Supply, return and exhaust grilles and registers, diffusers and linear grilles, for commercial and residential use.**

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.**
- .2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.**
- .3 Section 01 78 00 - Closeout Submittals.**

1.3 REFERENCES

- .1 American Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE).**
 - .1 ASHRAE 70, Method of Testing for Rating the Performance of Air Ducts and Outlets.**

1.4 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.**

1.5 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 Indicate following:**
 - .1 Capacity**
 - .2 Throw and terminal velocity**
 - .3 Noise criteria**
 - .4 Pressure drop**
 - .5 Neck velocity**

- .2 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.

1.6 DELIVERY, STORAGE, AND HANDLING

- .1 Packing, shipping, handling and unloading:

- .1 Deliver, store and handle in accordance with Section 01 61 00 - Common Product Requirements.

- .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 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.7 MAINTENANCE

- .1 Extra Materials:

- .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.

- .2 Include:

- .1 Keys for volume control adjustment

- .2 Keys for air flow pattern adjustment.

PART 2 PRODUCTS

2.1 GENERAL

- .1 To meet capacity, pressure drop, terminal velocity, throw, noise level, neck velocity.

- .2 Frames:

- .1 Full perimeter gaskets.

- .2 Plaster frames where set into plaster or gypsum board.

- .3 Concealed fasteners.

- .3 Concealed manual volume control damper operators as indicated.

- .4 Colour: standard or as directed by Owner's Representative.

- .5 Acceptable Product: E. H. Price, Titus, Nailor, Carnes, Airvector, Anemostat, Kruger.

2.2 MANUFACTURED UNITS

- .1 Grilles, registers and diffusers of same generic type to be product of one manufacturer.

2.3 SUPPLY GRILLES AND REGISTERS

- .1 See Schedule.

2.4 RETURN AND EXHAUST GRILLES AND REGISTERS

- .1 See Schedule.

2.5 DIFFUSERS

- .1 See Schedule.

2.6 LINEAR GRILLES

- .1 See Schedule.

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 stainless steel or cadmium plated screws in countersunk holes where fastenings are visible.
- .3 Bolt grilles, registers and diffusers, in place, in gymnasium and similar game rooms.
- .4 Provide concealed safety chain on each grille, register and diffuser in gymnasium and similar game rooms and elsewhere.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION