

Condensate Traps

Condensate Drain Systems

Section 23 -- --

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Condensate Traps for HVAC units for Draw-Through and Blow-Through air handlers and necessary ancillary equipment for operation.

1.2 DEFINITIONS

- A. Draw-Through: HVAC units where cooling coil (and drain pan) operates at pressure below ambient.
- B. Blow-Through: HVAC units where cooling coil (and drain pan) operates at pressure above ambient.

1.3 RELATED SECTIONS

- A. Section 23 06 30.13 - HVAC Fan Schedules
- B. Section 23 06 70 - Schedules for Central HVAC Equipment
- C. Section 23 06 80 - Schedules for Decentralized HVAC Equipment
- D. Section 22 05 53 - Identification for Plumbing Piping and Equipment
- E. Section 22 07 19 - Plumbing Piping Insulation
- F. Section 22 13 16 - Sanitary Waste and Vent Piping

1.4 REFERENCES

- A. ASHRAE Standard 62-89R, paragraph 5.6.4.

1.5 SUBMITTALS

- A. Designer or manufacturer shall supply product data sheets, which define the geometry of each trap and the ancillary equipment needed for successful operation of each air handler specified.
- B. Designer or manufacturer shall provide detailed installation drawings, including all ancillary equipment for each air handler.
- C. Designer or manufacture shall provide a complete service and preventive maintenance plan, including the annual estimated cost for each air handler.

1.6 QUALITY ASSURANCE

- A. Designer or Manufacturer Qualifications: Knowledge of the dynamics of fluid flow, including an understanding of pressures and thermal conditions inside and outside the air handler.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation

PART 2 PRODUCTS

2.1 CONDENSATE DRAIN SYSTEM

- A. Provide Trapped Condensate Drain System for all HVAC air handlers.
 - 1. Draw -Through Trap Drain System.
 - 2. Blow -Through Trap Drain System.
- B. Substitutions: CostGard™ Condensate Drain Systems

2.2 ACCESSORIES

- A. Install field supplied pipe supports as required by designer or manufacturer.
- B. Install field supplied pipe and fittings as required by designer or manufacturer.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Allow sufficient height on curb or slab to accommodate drain system.
- B. Allow sufficient height to accommodate drain system if suspended.
- C. Allow 1/8" per foot slope in drain line from drain system to condensate disposal location.
- D. Install in accordance with designer's or manufacturer's instructions.
- E. Provide field data if requested by designer or manufacturer.
- F. Contact designer or manufacturer for technical support.

3.2 MAINTENANCE

- A. Excessive

END OF SECTION