

# Condensate Traps

## Condensate Drain Systems

Section 23 \_ \_ \_

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**\*\* NOTE TO SPECIFIER \*\* Section 23 \_ \_ \_ - CONDENSATE DRAIN SYSTEM is suggested for all HVAC condensate drains.**

**This section is based on products supplied by the field and maintenance provided by others.**

### 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 in which the cooling coil (and drain pan) operate at a pressure below ambient.
- B. Blow-through: HVAC units in which the cooling coil (and drain pan) operate at a 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.

**\*\*NOTE TO SPECIFIER \*\* [Click Here](#) View: Standard 62-89R**

#### 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 the successful operation of each air handler specified.

**\*\*NOTE TO SPECIFIER \*\*** [\[Click Here\]](#) View: Example Submittal

- B. The designer or manufacturer shall provide detailed installation drawings, including all ancillary equipment for each air handler.

**\*\*NOTE TO SPECIFIER \*\*** [\[Click Here\]](#) View: Example Drawings

- C. The designer or manufacturer shall provide a complete service and preventive maintenance plan, including the estimated annual cost for each air handler.

## 1.6 QUALITY ASSURANCE

- A. Designer or Manufacturer Qualifications: Knowledge of fluid flow dynamics, 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 a 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

**\*\*NOTE TO SPECIFIER \*\*** [\[Click Here\]](#) View: CSI Specification and Drawings.

Substitutions are products of *Trent Technologies* located at:  
15939 Old Jacksonville Highway  
Tyler, TX 75703  
Tel: 903-509-4843  
Email: [info@TrentTech.com](mailto:info@TrentTech.com)  
Web: [www.TrentTech.com](http://www.TrentTech.com)  
For additional information: [\[Click Here\]](#)

### 2.2 ACCESSORIES

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

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Allow sufficient height on the curb or slab to accommodate the drain system.
- B. Allow sufficient height to accommodate the 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 the designer's or manufacturer's instructions.
- E. Provide field data if requested by the designer or manufacturer.
- F. Contact the designer or manufacturer for technical support.

### 3.2 MAINTENANCE

- A. Excessive

**\*\*NOTE TO SPECIFIER \*\*** [\[Click Here\]](#) **View: Maintenance Requirements**

END OF SECTION