

# 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 field supplied products 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 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.

**\*\*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 successful operation of each air handler specified.

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

- B. 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. 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

**\*\*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 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

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

END OF SECTION