

HEAT TRACING

1. GENERAL

1.1 Scope

- .1 Heat Tape/Trace components, accessories and installation material for a complete operating system.

1.2 General Requirements

- .1 Provide heat tape where indicated on Mechanical Drawings and specified herein.
- .2 FM Approved constant wattage cable.

1.3 Submittals

- .1 Submit Shop Drawing which shall include the following minimum information. Shop Drawings submitted without this information shall be automatically rejected.
 - .1 Manufacturer's data sheets on each product to be used including:
 - .1 Preparation instructions and recommendations.
 - .2 Storage and handling requirements and recommendations.
 - .3 Installation methods.
 - .2 Materials of construction: indicate material and wire gauge.
 - .3 Power consumption and required power supply.

2. PRODUCTS

2.1 Heat Tracing/Tape

- .1 Parallel zone system, two conductor stranded copper bus wires covered with FEP Teflon or fluoropolymer inner insulation. Resistance heating cable connection to alternate bus wires covered with extruded FEP Teflon insulating jacket and a stainless steel braided overjacket.
- .2 Heating capacity: 20 W/m (6 W/Ft)
- .3 For use with 120 V power supply.
- .4 Standard of Acceptance:
 - .1 Delta-Therm PF Series Catalog No. PF-6-SB

HEAT TRACING

.2 Contact Information:

Delta-Therm Corporation
398 W. Liberty St. P. O. Box 345, Wauconda, IL 60084. ASD.
Toll Free Tel: (800) 526-7887.
Tel: (847) 526-2407.
Fax: (847) 526-4456.
Email: heat@delta-therm.com.
Web: <http://www.delta-therm.com>.

2.2 Controls

- .1 Heat tracing shall turn on to prevent frost build up on the intake of the gravity hood for AHU-H242A.
- .2 System shall be controlled via the Inlet Building main Controller.
- .3 Heat tape will turn “on” when the O/A temperature sensor reads an air temperature between -5 to 5°C and turned “off” otherwise.

3. EXECUTION

3.1 Installation

- .1 Follow Manufacturer’s installation instructions and guidelines for :
 - .1 General installation, set-up, and preparation of the heat trace and associated components
 - .2 Proper end termination of cable with proper termination kits
 - .3 Proper power and control connections
- .2 Heat trace shall be installed directly on the bird screen of the intake gravity hood.
- .3 Heat trace may be installed above (preferred) or below the screen with stainless steel clamps every 75 mm for the entire perimeter of the intake hood.

3.2 Quality Control

- .1 Test continuity of heating cable.
- .2 Perform insulation resistance (megger) test on each heater section before, during, and after pavement placement. Minimum acceptable megger reading shall be 10 megohms.
- .3 Measure voltage and current at each unit after installation is complete.
- .4 Submit written test report showing values measured on each test for each cable.

END OF SECTION