

SECTION 15835
ELECTRIC HEAT

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Electric Cabinet Heaters and Unit Heaters.
2. Electric Baseboard Heaters.
3. Electric Heating Coils in Ductwork.
4. Electric Wall Insert Heaters.
5. Electric Radiant Heater Panels.

B. Related Sections:

1. Section 15010 - Basic Mechanical Requirements.
2. Section 15050 - Basic Mechanical Materials and Methods.
3. Section 15900 - Ductwork and Accessories.
4. Section 15950 - Controls.

1.02 REFERENCES

- A. Underwriters Laboratories, Inc. (UL).**

1.03 SYSTEM DESCRIPTION

A. Design Requirements:

1. General:
 - a. Electric heat shall not be used unless authorized by the University.
 - b. Specify that all contactors, relays, terminal boxes, thermostats and other electrical appurtenances for electric heat to be in accordance with "Electric Wiring" paragraph in Section 15050 - Basic Mechanical Materials and Methods.
2. Electric Cabinet Heaters and Unit Heaters:
 - a. Specify entire unit UL listed.
 - b. Provide summer-winter switch to allow operation without heat when desired.
3. Electric Baseboard Heaters:

- a. Specify entire unit UL listed.
 - b. Enclosure panel minimum 16 gage steel.
- 4. Electric Heating Coils in Ductwork:
 - a. Specify entire unit UL listed.
 - b. Provide safety control to prohibit operation without air blower operation.
Consider stepped control or SCR control.
- 5. Electric Wall Insert Heaters:
 - a. Specify entire unit UL listed.
 - b. Suitable for recessed or surface mounting.
- 6. Electric Radiant Heater Panels:
 - a. Specify UL listed.
 - b. Use only for small spot problem heating solutions.

PART 2 - PRODUCTS

2.01 ELECTRIC CABINET HEATERS AND UNIT HEATERS

A. Manufacturers:

Carrier
Chromalox
Electromode
Indeeco
Markel
Modine

2.02 ELECTRIC BASEBOARD HEATERS

A. Manufacturers:

Chromalox
Electromode
Markel
Modine
Thermador

2.03 ELECTRIC HEATING COILS IN DUCTWORK

A. Manufacturers:

Brasch
Carrier
Chromalox
Indeeco

Markel

2.04 ELECTRIC WALL INSERT HEATERS

A. Manufacturers:

Chromalox
Electromode
Markel
Thermador

2.05 ELECTRIC RADIANT HEATER PANELS

A. Manufacturers:

Aztec International Ltd.
Markel

PART 3 - EXECUTION

3.01 INSTALLATION

- A. In general, for project specifications, remove "Design Requirements" sub-paragraph A in Part 1, paragraph 1.03 "System Description" of this Design Guide and use list to expand on specific requirements of installation for each product specified.

END OF SECTION 15835