



# Division 235200

# Heating Boilers

## DESIGN GUIDE

## 1 General

### 1.1 General

- A. Effective July 1, 2023, gas fired boilers are not anticipated to be allowed for heating applications unless boiler is a replacement of an existing boiler.

### 1.2 Redundancy

- A. Boilers Minimum of 2, each sized at 60-70% of peak load. For modular applications with 3 or more, provide N+1 such that loss of a single boiler provides for 2/3 of peak heating load.

## 2 Materials

### 2.1 Gas or Propane Fired Boilers

- A. For non-central plant applications, boilers, when utilized, shall be high efficiency condensing style boilers with BACnet interface for heating water applications.



## 3 Execution

### 3.1 General

- A. Install in accordance with the manufacturer's requirements.
- B. Vent in accordance with the manufacturer's requirements. See 235100.
- C. Install on concrete housekeeping pad.
- D. Vent gas regulators outside the building.
- E. Provide high efficiency boilers with acid neutralization traps.
- F. Provide start-up by manufacturers representative. Training provided by manufacturer's representative. Provide copy of start-up reports in O & M Manual.

## 4 Appendix

### 4.1 Reserved for future.