

SECTION 23 61 00 - GAS-FIRED FURNACE

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. Provide labor, materials, equipment and services to perform operations required for the complete installation and related Work as required in Contract Documents.

1.2 SUBMITTALS

- A. Gas-fired furnace, complete with accessory items and wiring diagrams.

PART 2 - PRODUCTS

2.1 CENTRAL HEATING SYSTEM

- A. General:
 - 1. Equipment associated with this system shall be furnished by one equipment manufacturer.
 - 2. Any accessories, control devices, for a complete operable system.
- B. Gas-Fired Furnace:
 - 1. The furnace shall be vertical **gas** type, fired unit with capacity as scheduled.
 - 2. Factory assembled and wired and test operated. The furnace shall consist of:
 - a) Heavy gauge steel cabinet with baked enamel finish.
 - b) Ceramic coated steel heat exchanger.
 - c) Centrifugal type multi-speed blower, with direct drive and extended oilers. The motor shall have built-in thermal overload protection, with manual reset. Provide 1 in. thick throw-away air filter box arranged to handle total system air.
 - d) Atmospheric gas burner with combustion, operating and safety controls with 100% safety shut-off. Gas train shall include pressure regulating valve and main gas shut-off valve.
 - e) Fan and limit control arranged for automatic blower operation and for protection against abnormal operating condition.
 - f) 124 volt control transformer.

- g) Electric **7** day programmable thermostat and guard (range 45° - 85°F.)
 - h) Solid state electronic spark ignition, intermittent pilot.
 - i) Automatic vent damper.
3. Complete unit to be AGA and UL labeled.
- C. Design Equipment: Daikin.
- D. Make: American Standard, Carrier, Daikin, Lennox, Trane, **or approved equal**

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Provide complete installation of equipment in accordance with manufacturer's installation instructions.
- B. Set on 4 in. concrete pad.
- C. Provide control wiring, thermostat mounting.

END OF SECTION