

Efficient Gas-Fired Water Boiler



- 84% AFUE
- 70-280 MBH
 - In 7 sizes
- Chimney vented
- Integrated boiler control
 - User-friendly
 - Energy-saving "thermal purge" feature circulates residual warm water in heating system prior to firing boiler
 - Optional 24V LWCO add-on kit
 - Optional outdoor reset add-on kit
 - Combo high limit circulator relay
- Natural or LP gas
- Cast iron heat exchanger
 - Meets the ASME Boiler and Pressure Vessel Code
- Metal section connectors
 - Resist chemicals, increases the life of the boiler
- Step-opening gas valve
 - Provides smooth & quiet start-up
- Lifetime limited warranty
 - See your installing contractor for more warranty information





Ratings & Specifications









| Model | Input (MBH) | DOE Heating Capacity (MBH) | Net AHRI Rating, Water (MBH) | AFUE% |
|-------|----------------|----------------------------------|------------------------------------|-------|
| CG30E | 70 | 59 | 51 | 84.0 |
| CG40E | 105 | 88 | 77 | 84.0 |
| CG50E | 140 | 117 | 102 | 84.0 |
| CG60E | 175 | 146 | 127 | 84.0 |
| CG70E | 210 | 176 | 153 | 84.0 |
| CG80E | 245 | 205 | 178 | 84.0 |
| CG90E | 280 | 234 | 203 | 84.0 |

All models certified for use from sea level to 10,000 feet in elevation. Input & outputs are reduced by 4% per 1,000 feet above sea level for elevations above 2,000 ft. Boilers are shipped with 30 psi safety relief valves, MAWP is 50 psi.

Standard Equipment

- Insulated steel jacket
- Integral draft diverter, damper and connector included
- Heavy gauge 1" base insulation
- Integrated boiler control Simple self-diagnostic control system with LEDs for status settings and errors
- Step-opening redundant gas valve
- 130°F minimum return temperature rating
- Spark ignition with continuous retry
- User-friendly wiring with 120V J-box
- Circulator choice of Taco or Grundfos
- · Cast iron section assembly
- Resettable blocked vent switch
- Boiler drain valve
- Cast iron supply manifold with safety relief valve tapping
- Stainless steel burners

| | Dimensions (inches) | | | | | | | Vent Size |
|-------|---------------------|--------|------------------|--------|--------|--------------|-----------------|----------------|
| Model | Width "W" | Height | Depth (total) | Supply | Return | Gas Valve | Relief Valve | Diamater (in.) |
| CG30E | 14 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 4 |
| CG40E | 16 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 5 |
| CG50E | 19 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 6 |
| CG60E | 22 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 6 |
| CG70E | 25 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 3/4 | 3/4 | 7 |
| CG80E | 28 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 3/4 | 3/4 | 7 |
| CG90E | 31 | 40 | 33-1/4 | 1-1/4 | 1-1/4 | 3/4 | 3/4 | 8 |

NOTES:

- Minimal radial distance around vent pipe and breeching for singlewall metal pipe vent connector, otherwise follow vent connector manufacturer's recommended clearances.
- 2. Add height required to maintain 6" clearance from all vent components.







