Commercial Steam Boilers



41K Series

Gas-Fired Steam Modular Boiler









Electronic Ignition Base Standard Equipment:

- Base
- Fire Door
- Burner Orifice
- Manifold
- Main and Pilot Burner
- Electronic Pilot Gas Valve
- Intermittent Pilot Module
- Complete Jacket Assembly

Steam Trim Package:

- Low Water Cut-Off
- Glass Gauge Set
- Safety Valve
- Steam Gauge
- Pressure Limit
- Drain Valve

41 K Series Boiler Bases are pre-assembled at the factory with burner manifold, burner orifices, gas valves and electronic ignition installed, ready for field installation of the pre-tested sections and appropriate packages.

Plug 'N Play Harness and Junction Box

Individual base and junction box controls are designed for easy installation with Plug 'n Play harnesses. The entire boiler links together in a "snap". A color-coded factory supplied harness eliminates wiring errors



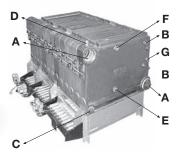




Gas-Fired Steam Modular Boiler

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RIGHT & LEFT END TAPPINGS

| A: Supply & Return | 4" |
|--|------|
| B: Primary LWCO & Gauge Glass Set | 1/2" |
| C: Drain (Left & Right End) | 3/4" |
| D: Plugged | 1/2" |
| E: Accessories | 1" |
| *F: Safety Valve | 1" |
| G: Plugged or Electronic (Probe Type) LWCO | 3/4" |

Specifications:

| • | | | | | | | | | | | | |
|------------------------|-----------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------|-----------------------|-------------------------|------------|------------|--------------------------------|--------------------|---|
| AHRI CERTIFIED RATINGS | | | | | | | DIMENSIONS | | | | | |
| | | Gross | | | | | Base Size & Flue Outlet | | | Chimney | Flue Collector | |
| MODEL | Input MBH ⁽¹⁾ | Output MBH ⁽¹⁾ | Steam PPF ⁽²⁾ | Steam Sq. Ft. ⁽³⁾ | Steam MBH ⁽²⁾ | Thermal Efficiency | 300 8" | 400 10" | 500 12" | Size ⁽⁴⁾ I.D. x Ht. | Size to Chimney | Horsepower Gross Output ⁽⁵⁾ |
| 41K300S | 300 | 233 | 1.333 | 729 | 175 | 77% | 1 | 0 | 0 | 8" x 20' | 8 | 6.96 |
| 41K400S | 400 | 310 | 1.333 | 971 | 233 | 77% | 0 | 1 | 0 | 10" x 20' | 10 | 9.25 |
| 41K500S | 500 | 388 | 1.333 | 1213 | 291 | 77% | 0 | 0 | 1 | 12" x 20' | 12 | 11.58 |
| 41K600S | 600 | 465 | 1.333 | 1454 | 349 | 77% | 2 | 0 | 0 | 12" x 20' | 12 | 13.88 |
| 41K700S | 700 | 543 | 1.333 | 1696 | 407 | 77% | 1 | 1 | 0 | 12" x 20' | 12 | 16.21 |
| 41K800S | 800 | 620 | 1.333 | 1938 | 465 | 77% | 0 | 2 | 0 | 14" x 20' | 14 | 18.51 |
| 41K900S | 900 | 698 | 1.333 | 2183 | 524 | 77% | 0 | 1 | 1 | 14" x 20' | 14 | 20.84 |
| 41K1000S | 1000 | 775 | 1.333 | 2421 | 581 | 77% | 0 | 0 | 2 | 14" x 20' | 14 | 23.13 |
| 41K1100S | 1100 | 853 | 1.333 | 2667 | 640 | 77% | 1 | 2 | 0 | 16" x 20' | 16 | 25.46 |
| 41K1200S | 1200 | 930 | 1.333 | 2908 | 698 | 77% | 0 | 3 | 0 | 16" x 20' | 16 | 27.76 |
| 41K1300S | 1300 | 1008 | 1.333 | 3150 | 756 | 77% | 1 | 0 | 2 | 16" x 20' | 16 | 30.09 |
| 41K1400S | 1400 | 1085 | 1.333 | 3392 | 814 | 77% | 0 | 1 | 2 | 18" x 20' | 18 | 32.39 |
| 41K1500S | 1500 | 1163 | 1.333 | 3633 | 872 | 77% | 0 | 0 | 3 | 18" x 20' | 18 | 34.72 |

- 1. Ratings are at sea level to 2,000 feet. For altitudes above 2,000 feet, reduce all ratings 4% for each 1,000 feet above sea level.
- 2. Net steam ratings based on piping and pickup allowance of 1.333 (300-1500). Contact Technical Support before selecting boiler for installations having unusual piping and pick-up factors, such as intermittent system operations, extensive piping systems, etc.
- 3. Ratings in square feet are computed at 240 Btuh/square foot for steam boilers.
- 4. Chimney sizes shown are one option based on a typical venting system as shown in Figure 6 of the Installation Manual, and sized according to the National Fuel Gas Code, assuming Type B double wall vent and vent connectors, other venting system designs are acceptable as shown on Flue Connection and Venting section of the installation manual. For further chimney design and sizing information, consult the National Fuel Gas Code, ANSI Z223.1/NFPA 54-latest revision, or ASHRAE HVAC Systems and Equipment Handbook, Chimney, Gas Vent, and Fireplace Systems, or the Standard for Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances. NFPA 211. Follow standard engineering practice.
- 5. Ratings based on 33,500 Btuh per horsepower.









