

FR Series

High Efficiency Oil-Fired Steel Boiler



- **Up to 86.7% AFUE**
- **90 to 210 Net BTUs**
 - In 6 sizes
- **Chimney vented**
- **Integrated boiler control**
 - User-friendly
 - Combination high limit circulator relay
 - Extensively tested & proven
- **Horizontal firetube heat exchanger, 1/4" and 5/16" boiler-plate steel**
 - Meets the ASME Boiler and Pressure Vessel Code
- **Domestic hot water coil standard**
 - Extended flange on FR98-173
- **Wet leg design**
 - Provides more heat transfer surface for increased heating efficiency
- **Lifetime limited warranty**
 - See your installing contractor for more warranty information



New Yorker[®]
RESIDENTIAL HEATING BOILERS

MADE IN

U . S . A .

Ratings, Specifications, and Dimensions



| Model | FR-98-W | FR-122-W | FR-147-W | FR-173-W | FR-205-W | FR-232-W |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| AFUE % | 86.4 | 85.1 | 86.7 | 85.9 | 86.0 | 85.1 |
| DOE Heating Capacity MBH | 104 | 132 | 154 | 184 | 215 | 242 |
| Net AHRI Output MBH | 90 | 115 | 134 | 160 | 187 | 210 |
| Firing Rate (gal./hr.) | .85 | 1.10 | 1.25 | 1.50 | 1.75 | 2.00 |
| Nozzle Specification | .75 60°B | .90 60°B | 1.00 60°B | 1.25 60°B | 1.50 60°B | 1.65 60°B |
| Stack Diameter | 6" | 6" | 7" | 7" | 8" | 8" |
| Number of Tubes | 12 | 12 | 18 | 18 | 18 | 18 |
| Boiler Water Capacity | 20 | 20 | 40 | 40 | 46 | 46 |
| Supply Size (dia.) | 1-1/4" | 1-1/4" | 2" | 2" | 3" | 3" |
| Return Size (dia.) | 1-1/4" | 1-1/4" | 2" | 2" | 2" | 2" |
| Chimney Size (min.) | 8" x 8" x 15' | 8" x 8" x 15' | 8" x 8" x 15' | 8" x 8" x 15' | 8" x 8" x 15' | 8" x 8" x 15' |
| Approximate Shipping Weight | 450 | 450 | 720 | 720 | 780 | 780 |
| Jacket Height - 'A' | 37-7/8" | 37-7/8" | 46-5/8" | 46-5/8" | 46-17/32" | 46-17/32" |
| Jacket Width - 'B' | 19-7/8" | 19-7/8" | 21-7/8" | 21-7/8" | 21-3/4" | 21-3/4" |
| Jacket Depth - 'C' | 18-5/16" | 18-5/16" | 21-5/8" | 21-5/8" | 25-7/8" | 25-7/8" |
| Smoke Outlet Height - 'D' | 25-1/4" | 25-1/4" | 30-1/4" | 30-1/4" | 29-3/4" | 29-3/4" |
| Overall Depth - 'E' | 28-1/2" | 28-1/2" | 33-3/4" | 33-3/4" | 38-3/4" | 38-3/4" |
| Smokebox Depth - 'F' | 3-7/8" | 3-7/8" | 5-3/8" | 5-3/8" | 6-1/8" | 6-1/8" |
| Flue Collar O.D. - 'G' | 5-7/8" | 5-7/8" | 6-7/8" | 6-7/8" | 7-7/8" | 7-7/8" |

Net AHRI Water Ratings shown based on a piping and pickup allowance of 1.15. Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.
Extended coil flange on FR-98-173

Standard Features

- Horizontal firetube boiler
- Integrated boiler control system
- 3450 RPM flame retention Beckett oil burner
- Electronic ignitor 14KV
- Taco 007 circulator
- Domestic hot water coil
- Clean cut fuel pump
- Tridicator
- National board registration
- Swing away burner
- Aquastat
- Cast iron observation door
- 1-stage fuel pump
- Hinged flue door

