

ULTIMATE[®]

Gas & Oil-Fired Hot Water Boilers



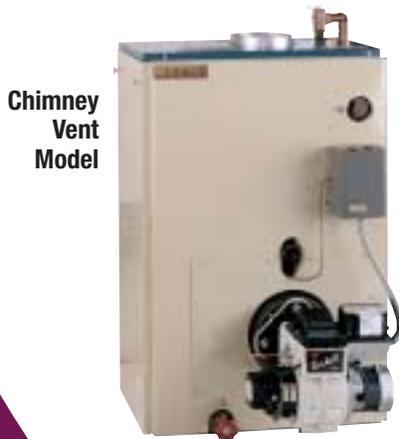
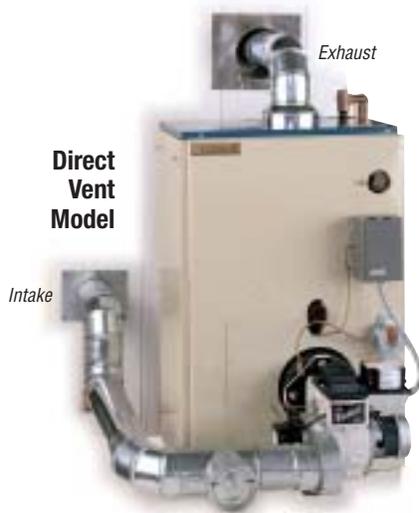
The Ultimate Solution!

An ISO 9001-2000 Certified Company



ULTIMATE[®]

The Ultimate Series of Hot Water Boilers combines versatility, efficiency and design to make it the ideal choice for heating comfort and reliability.



ULTIMATE Versatility

The ULTIMATE Series is one of the most versatile Hydronic solutions available today...

- Indoors, choose the ULTIMATE for either Chimney or Direct Vent Applications
- Add the tankless coil option to heat tap water for kitchen and bath
- Outdoors choose ULTIMATE'S double insulated, stainless steel jacket model to heat your pool
- Oil, Propane or Natural Gas – the ULTIMATE does it all!

ULTIMATE Efficiency

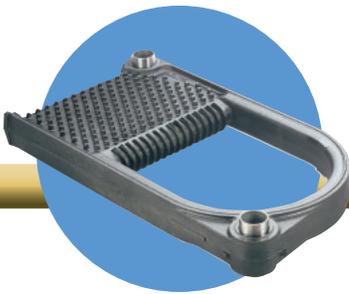
As a result of its advanced design, the ULTIMATE Series features ENERGY STAR[®] rated efficiency of up to 87.6% A.F.U.E! The ULTIMATE dramatically reduces fuel costs providing an excellent return on your home heating investment.

ULTIMATE Design

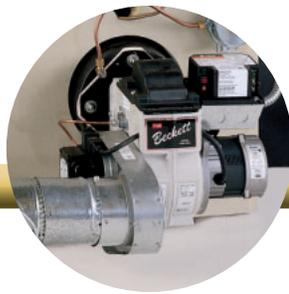
ULTIMATE's advanced engineering combines superior pressure-fired burner performance with a high tech heat exchanger design featuring special heat "scrubbing" thermal pins for greater space heating efficiency. Every ULTIMATE is thoroughly blanketed with insulation, adding to its superior heat transfer and quiet operation. The ULTIMATE's combined efficiency gains result in higher output from a much smaller, more compact boiler making the ULTIMATE easier to install.

Ultimate oil models utilize both a pre- and post-purge feature, providing smoother, more positive start-ups and shut-offs for greater reliability. This keeps the Ultimate cleaner internally allowing maximum fuel efficiency.

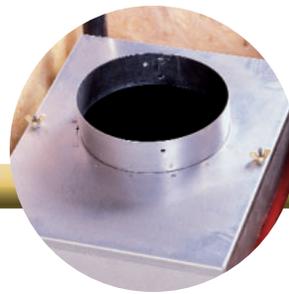




Cast iron Heat Exchanger sections for maximum reliability



Post purge keeps boiler cleaner, safer.



Easy access to Heat Exchanger for cleaning



Tankless coil door provides easy access

ULTIMATE Serviceability

The ULTIMATE Series requires minimal annual maintenance. The same basic boiler is used regardless of applications, simplifying service and parts ordering. The ULTIMATE features easily accessible standard controls. Corrosion resistant brass wing nuts make it easy to remove the flue collector cover exposing the entire heat exchanger for easy and thorough cleaning.

An easy access tankless coil door allows convenient service and inspection when necessary. Stainless steel studs on coil plates do not rust and remain easy to remove.

ULTIMATE Peace of Mind

The ULTIMATE Series is backed by the strongest warranty in the industry - a full twenty year warranty covering the entire heat exchanger.

Quality Burner Options

Beckett Carlin Riello

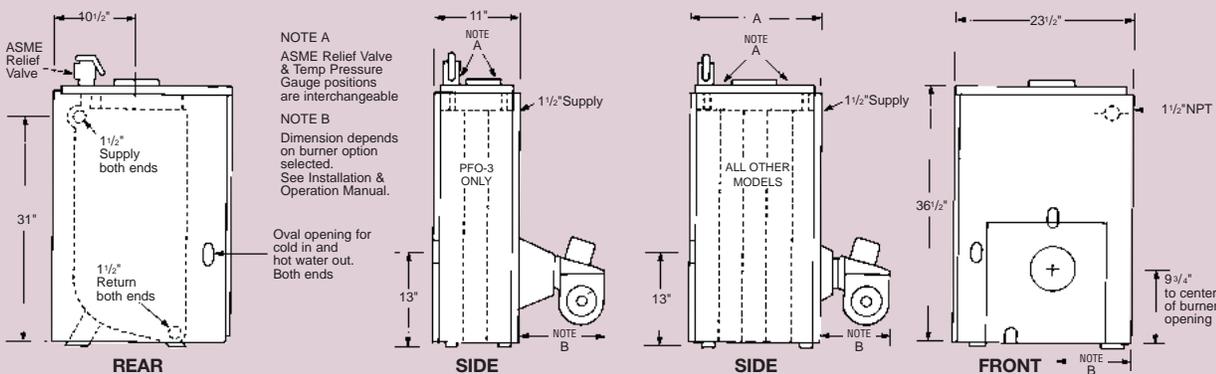
ULTIMATE WATER FACTORY SUPPLIED EQUIPMENT

STANDARD EQUIPMENT (indoor, chimney vent)

- Assembled heat exchanger with combustion chamber and flue collector mounted.
- Insulated jacket
- Temperature/pressure gauge
- ASME relief valve
- Aquastat
- Circulator
- Beckett pressure fired flame retention burner

OPTIONAL EQUIPMENT:

- Domestic hot water coil
- Stainless steel jacket for outdoor installation
- Direct vent hood exhaust system for through-the-wall venting includes (inlet & exhaust hoods, pressure switch, pre/post purge Beckett burner, exterior wall plate and vacuum relief)
- Power gas burner
- Riello R40 Series Burners
- Carlin EZ Series Burners



Oil-Fired Models Indoor

| MODEL SECTIONS | RECOMMENDED FIRING RATES GPH | HEATING CAPACITY MBH | NET I=B=R RATING MBH | AFUE | FLUE SIZE ¹ | LENGTH "A" DIMENSION | DES MODEL SUFFIX ² | OUTDOOR MODEL SUFFIX |
|------------------------------|------------------------------|----------------------|----------------------|--------------|------------------------|----------------------|-------------------------------|----------------------|
| | | Note 1 | Note 2 | Note 3 | | | | |
| Without Tankless Coil | | | | | | | | |
| *PFO-3 | Min. .45 Max. .90 | 56 105 | 48 91 | 87.5 82.8 | 5" 5" | 11" 11" | U/DES-4AW U/DES-4AW | N/A N/A |
| *PFO-4 | Min. .65 Max. 1.35 | 74 159 | 64 138 | 87.5 83.3 | 6" 6" | 14 1/4" 14 1/4" | U/DES-4AW U/DES-6AW | W W |
| *PFO-5 | Min. .75 Max. 1.70 | 93 199 | 81 173 | 87.5 83.9 | 6" 6" | 17 1/2" 17 1/2" | U/DES-4AW U/DES-6AW | N/A N/A |
| *PFO-7 | Min. 1.05 Max. 2.35 | 130 276 | 113 240 | 87.6 ** | 7" 7" | 24" 24" | U/DES-6AW U/DES-6SW | W W |
| *PFO-9 | Min. 1.35 Max. 3.00 | 167 353 | 146 307 | 87.6 ** | 8" 8" | 30 1/2" 30 1/2" | U/DES-6AW U/DES-6SW | W W |
| With Tankless Coil | | | | | | | | |
| *PFO-3T | Min. .50 Max. 1.10 | 62 129 | 54 112 | 87.6 82.9 | 6" 6" | 14 1/4" 14 1/4" | U/DES-4AW U/DES-6AW | N/A N/A |
| *PFO-4T | Min. .65 Max. 1.45 | 80 169 | 70 147 | 87.5 83.3 | 6" 6" | 17 1/2" 17 1/2" | U/DES-4AW U/DES-6AW | N/A N/A |
| *PFO-5T | Min. .80 Max. 1.75 | 99 208 | 86 182 | 87.5 83.8 | 7" 7" | 20 3/4" 20 3/4" | U/DES-4AW U/DES-6AW | N/A N/A |
| *PFO-6T | Min. .95 Max. 2.10 | 117 250 | 102 217 | 87.5 84.3 | 7" 7" | 24" 24" | U/DES-6AW U/DES-6SW | N/A N/A |
| *PFO-8T | Min. 1.25 Max. 2.75 | 154 324 | 134 282 | 87.4 ** | 8" 8" | 30 1/2" 30 1/2" | U/DES-6AW U/DES-6SW | N/A N/A |

Natural Or Propane Gas-Fired Models Indoor

| MODEL SECTIONS | RECOMMENDED FIRING RATES GPH | HEATING CAPACITY MBH | NET I=B=R RATING MBH | AFUE | FLUE SIZE ³ | LENGTH "A" DIMENSION | DES MODEL SUFFIX ⁴ | OUTDOOR MODEL SUFFIX |
|------------------------------|------------------------------|----------------------|----------------------|--------------|------------------------|----------------------|-------------------------------|----------------------|
| | | Note 1 | Note 2 | Note 3 | | | | |
| Without Tankless Coil | | | | | | | | |
| PFG-3 | Min. 63 Max. 126 | 54 104 | 47 90 | 84.7 81.6 | 5" 5" | 11" 11" | U/DES-4GL U/DES-4GL | N/A N/A |
| PFG-4 | Min. 84 Max. 189 | 72 156 | 63 136 | 84.8 81.9 | 6" 6" | 14 1/4" 14 1/4" | U/DES-4GL U/DES-6GL | W W |
| PFG-5 | Min. 105 Max. 211 | 90 175 | 78 152 | 84.8 82.1 | 6" 6" | 17 1/2" 17 1/2" | U/DES-4GL U/DES-6GL | N/A N/A |
| PFG-7 | Min. 147 Max. 240 | 126 200 | 109 174 | 84.9 82.5 | 7" 7" | 24" 24" | U/DES-6GL U/DES-6GL | W W |
| PFG-9 | Min. 189 Max. 240 | 162 201 | 141 175 | 84.9 83.0 | 8" 8" | 30 1/2" 30 1/2" | U/DES-6GL U/DES-6GL | W W |
| With Tankless Coil | | | | | | | | |
| *PFG-3T | Min. 70 Max. 154 | 60 127 | 52 110 | 85.0 81.5 | 6" 6" | 14 1/4" 14 1/4" | U/DES-4GL U/DES-6GL | N/A N/A |
| *PFG-4T | Min. 91 Max. 183 | 78 151 | 68 131 | 85.0 81.8 | 6" 6" | 17 1/2" 17 1/2" | U/DES-4GL U/DES-6GL | N/A N/A |
| *PFG-5T | Min. 112 Max. 212 | 96 175 | 83 153 | 85.0 82.1 | 7" 7" | 20 3/4" 20 3/4" | U/DES-4GL U/DES-6GL | N/A N/A |
| *PFG-6T | Min. 133 Max. 240 | 114 199 | 99 173 | 85.0 82.4 | 7" 7" | 24" 24" | U/DES-6GL U/DES-6GL | N/A N/A |
| *PFG-8T | Min. 175 Max. 240 | 150 201 | 130 175 | 85.0 82.9 | 8" 8" | 30 1/2" 30 1/2" | U/DES-6GL U/DES-6GL | N/A N/A |

* Indicates an ENERGY STAR® product.

** Firing rate is greater than that requiring testing under DOE regulation.

1 - Chimney size for models fired under 2.00 GPH is 8" x 8"; for models fired over 2.00 GPH chimney size is 8" x 12".

2 - Direct Exhaust System includes 4" Exhaust for boilers fired at 1.00 GPH or less and a 6" Exhaust for boilers fired over 1.00 GPH. Beckett Post-Purge Burner is noted by the "A" in U/DES Model suffix and "S" represents Beckett CF375 Post-Purge Burner.

3 - Chimney size is 8" x 8".

4 - Direct Exhaust System includes 4" Exhaust for boilers with input through 140 MBH and 6" Exhaust for boilers over 140 MBH.

NOTES:

1) DOE HEATING CAPACITY IS INDICATED IN THOUSANDS OF BTU PER HOUR. USE OF ANTIFREEZE IN ANY BOILER CAN REDUCE CAPACITY, NET OUTPUT AND EFFICIENCY BY A SIGNIFICANT AMOUNT.

2) NET RATINGS ARE INDICATED IN THOUSANDS OF BTU PER HOUR BASED ON A PIPING AND PICK-UP ALLOWANCE OF 1.15.

3) ANNUAL FUEL UTILIZATION EFFICIENCY BASED ON TESTS PERFORMED UNDER U.S. DEPARTMENT OF ENERGY STANDARDS AND REPORTED TO FEDERAL TRADE COMMISSION.

It is strongly recommended that, before selecting a boiler model for a specific installation, installers familiarize themselves with "Proper Venting of High Efficiency Boilers" published by ECR International.

Specifications subject to change without notice.

ULTIMATE

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