Superior cast-iron, three pass, oil-fired boilers

Labor

Look for our

Hydronic Explorer app

on itunes!

Varranty when registered

pon installation

Slant/Fin

• Up to 87% AFUE

- Resistant to thermal shock and corrosion
- Improves overall heating system efficiency
- Three pass Eutectic heat exchanger maximizes heat transfer
- Hinged, reversible swing out door and removable baffles for fast, easy service
- Available with Beckett, Carlin EZ 1 Pro, and Riello burners
- Lifetime limited warranty
- Direct Vent models available for installations without chimneys
- Extremely quiet



EC-10 Series is jacketed and assembled. Less burner and circulator. EC-20 Series is knocked down for field assembly. With burner, less circulator.

2 Series, 8 Models Oil-fired 91,000 to 350,000 BTUH Up to 87% Efficiency



DOE SEPT, 201

Special Eutectic Control Features

Features of Special 2012 Compliant Control

- Dynamic temperature reset
- Energy saving through circulator-off delay
- Priority override for domestic hot water
- Freeze resistance
- 2 in 1 self checking sensor w/ Low Water Cut-off
- Cycle history diagnostic information
- Reduce inventory through universal design
- Backlit LCD screen with programming touch pad
- Built-in power disconnect switch (optional)
- Cold-Start compatible

Standard Control Panel

Includes on-off switch, indicator lights and tridicator. Behind panel is a 2012 compliant Honeywell L7248L.

Good looks and more.

The beauty of the Eutectic Series boilers goes beyond their good looks. With up to 87% AFUE, dramatic energy savings and extremely quiet performance, they can be installed almost anywhere.

The Outback Connection

All piping connections are made at the rear of the boilers to keep installation looking neat. Supply and return connections, drain valve and cast iron flue connector are located here. Flue outlet on the EC-10 series is only 15½" off the floor, low enough for the lowest of chimney breechings.

Annual cleaning is easy

Access to boiler flueways is from the front. Unbolt door and swing open for full access to heat exchanger. Wide open flueways for easy brushing of entire heat exchanger. No place for dirt to hide. Bolted shut door ensures positive seal. Clean-out door is reversible from left hinge



to right. Easily accomplished by removing two screws and loosening two nuts to transfer hinge to opposite side without loosening door from boiler.

DOE SEPT. 2012 COMPLIANT

The Eutectics special control contains a Department of Energy (DOE) 2012 compliant loadmatching energy saving algorithm. This feature saves fuel by dynamically changing the temperature high operating limit to the minimum temperature necessary to meet the heating demand. The qualified service technician can adjust the algorithm to align comfort and energy savings.

No chimney? No problem.

EC-10 series boilers (up to 161MBH) can be vented directly to outdoors with flexible vent piping. No need to build a chimney in new construction or re-line poor chimneys on replacement jobs. Good air in, bad air out.

Concentric vent terminal takes combustion air in through outer ring, gets heated slightly by the exhaust air in the inner ring and insulates the exhaust from building construction. This ingenious device means there is only one opening through the wall. For direct vent applications specify "direct vent kit and burner".



3 PASS DESIGN

The Three pass design is what makes the boiler extremely quiet and efficient. Popular in large commercial boilers, this design maximizes heat transfer, increases efficiency due to increased surface area that the flue gasses come in contact with and keeps it there longer. This results in low stack temperatures indicating high efficiency. There is at least 6 lineal feet and at least 11 square feet of surface area to ensure generous heat transfer. A.F.U.E. is 87%. The extra room in the boiler passageways provides for thermal expansion of the flue gasses making this boiler extremely quiet.

CONTROL PANEL

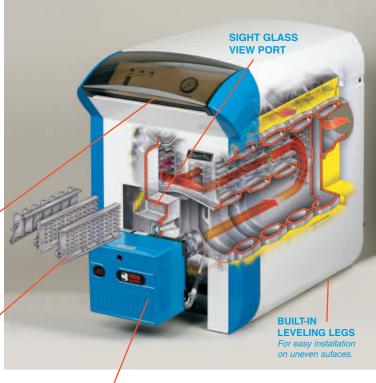
Includes on-off switch, indicator lights and tridicator. Behind panel is a 2012 compliant Honeywell L7248L

BAFFLE PLATES

Removable for easy cleaning of boiler sections, baffle plates help turbulate flue gasses ensuring homogenized flue gas temperatures on boiler heat exchanger walls maximizing heat transfer into boiler water.

Eutectic EC-10 Features

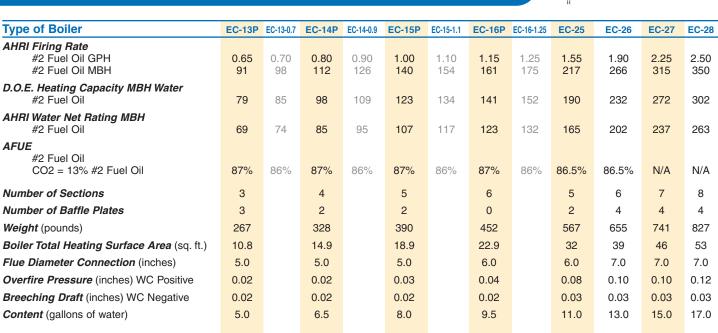
Combines world class design and workmanship with unequaled Eutectic cast iron performance.



OIL BURNERS

Riello, Carlin EZ Pro and Beckett models provide clean, reliable, efficient combustion under all operating conditions. The burner for each Eutectic boiler is optimized and custom manufactured to Slant/Fin specifications. Burners provide high static pressure for positive chamber pressure. Every burner is adjusted for peak performance but final minor adjustments are easily made by the installer. Riello comes with blue burner cover for additional good looks and quietness.

Eutectic Model Comparison



COMBUSTION CHAMBER

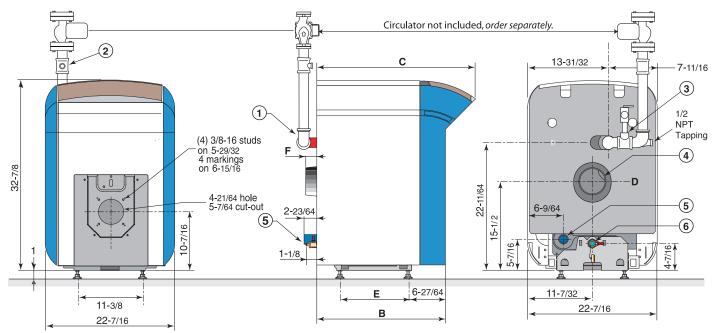
Direct heat transfer to Eutectic iron without refractory chambers or target wall. The 2000 degree boiler flame heats boiler walls quickly, transfers energy to boiler water unimpeded by insulation. Tightly sealed chamber and sections allows positive overfire pressure, further ensuring maximum heat transfer. Minimal draft loss through boiler makes venting through chimney easy.

WATER CHANNELS

When boiler is operating at low water temperatures, water condensation could form on the heat exchanger. These specially integrated channels direct water flow to combustion chamber where it is burned off. The formation of condensation is allowed to occur periodically when the outdoor reset control operates boiler at low temperatures.

AHRI CERTIFIED

Dimensions All dimensions shown are in inches.



| MODEL | В | С | D | E | F |
|--------|--------|----------|---|----------|---------|
| EC-13P | 22-1/4 | 26-31/32 | 5 | 11-13/16 | 1-31/32 |
| EC-14P | 27-1/4 | 31-31/32 | 5 | 16-13/16 | 1-31/32 |
| EC-15P | 32-1/4 | 36-31/32 | 5 | 21-13/16 | 1-31/32 |
| EC-16P | 37-1/4 | 41-31/32 | 6 | 26-13/16 | 3-29/32 |

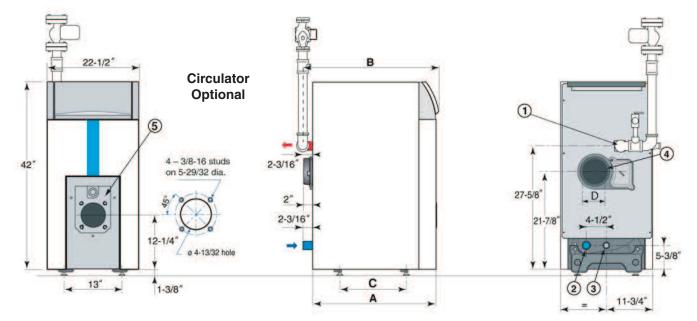
1 1-1/4" NPT nipple

3 3/4" Relief valve

2 1/4" Tapping

4 Flue outlet D 5 1-1/4" NPT nipple

6 1/2" drain outlet



| | Α | В | D | 1 2 | С |
|-------|-----------|----------|----------|--------|------|
| EC-25 | 32-9/16* | 35-3/8" | 6 " dia. | 1-1/2" | 20* |
| EC-26 | 37-9/16* | 40-3/8" | 7" dia. | 1-1/2" | 25* |
| EC-27 | 42-9/16 " | 45-3/8 " | 7 " dia. | 1-1/2" | 30 * |
| EC-28 | 47-9/16 " | 50-3/8 " | 7 " dia. | 1-1/2" | 35" |

1 1-1/2" supply tapping

2 1-1/2" return tapping

3 3/4" drain tapping

5 Burner mounting plate



©Slant/Fin Corp. 2012 • Printed in the U.S.A. 912 • Publication No. EC-10/20-10

4 Flue outlet

SLANT/FIN CORPORATION, Greenvale, N.Y. 11548 • www.slantfin.com





Phone: (516) 484-2600 • Fax: (516) 484-5921 In Canada: Slant/Fin LTD/LTEE, Mississauga, Ontario • www.slantfin.ca