



# Multi-Fuel

Residential

## Hand-Fired Updraft Multi-Fuel Boilers



Manufactured  
over  
35 Years

### Alternate Heating Systems

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Coal • Liquid/Gas Fuels

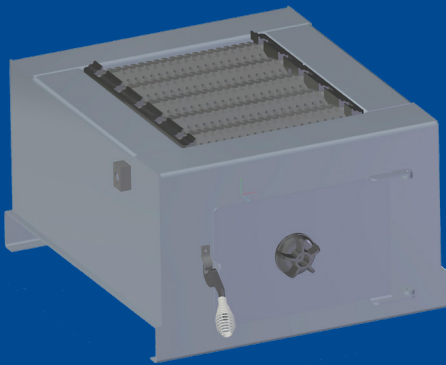


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## Residential

**For the ultimate in fuel burning flexibility**, look to the AHS Multi-fuel boiler. Engineered to burn a variety of fuels with high efficiency, our multi-fuel boiler will provide economical heat and hot water for your specific application.

The AHS Multi-Fuel boiler is available in configurations that allow you to burn bituminous (soft) coal and anthracite (hard) coal with liquid or gas fuel backup. The secret to burning two different fuels in the same firebox is our all new grate base design (see below). Liquid fuel backup enabled models include a separate firing chamber where fuel oil, natural gas, or propane is fired.



Our all-new grate base design features time proven perforated cast iron grates to allow more airflow into the combustion chamber. The grates are linked together to provide even and precise movement for equal ash separation along the entire coal bed ensuring you the highest quality ash. The new base design is furnished with a larger ash pan throughout all the models with a top handle making it easier to lift. The new door design is larger, it will include a gasket for a tight seal and a draft control knob for a more controllable combustion.

## Standard Equipment

- **LARGE LOADING DOOR**  
Full gasket for maximum efficiency
- **DUAL DRAFT SYSTEM**
- **AUTOMATIC DRAFT CONTROL.**
- **FIREBRICK LINED FIREBOX**
- **HYDRO TESTED TO 60 LBS. PSI**
- **CONSTRUCTED OF 1/4" STEEL PLATE THROUGHOUT**
- **HONEYWELL CIRCULATOR CONTROL AQUASTAT**
- **TEMPERATURE/PRESSURE GAUGE**
- **ASME TESTED PRESSURE RELIEF VALVE**
- **LOAD DOOR SMOKE FLAP**
- **COAL FORCED DRAFT KIT**
- **WATER COOLED BAFFLES**  
Increase heat exchange surface for burning coal.
- **LARGE ASH PAN**
- **SEALED ASH DOOR**





C100



C40



CO55



CO70

## Multi-Fuel Boiler Nomenclature:

The following letters are used in designating boiler fuel configurations and have the following meanings. Note that the letters may be used in combination to designate the options included on a particular boiler configuration.

**C** - Coal burning • **O** - Oil/Liquid fuel burning

Models designated with a "C" for coal burning are provided in standard configuration for hard or soft coal. Models designated with an "O" for oil/liquid fuel burning are capable of burning a variety of liquid fuels. Typical fuels are fuel oil, natural gas, and propane.

AHS Multi-Fuel boilers are currently manufactured in four standard sizes. All units are traditional, hand-fired, updraft boilers. For automatic feeding boilers, please explore our Wood Gun wood gasification product line or our Coal Gun automatic coal stoker product line.

## Multi-Fuel Boiler Specifications

| With oil backup   | CO40       | CO55       | CO70       | CO100       |
|-------------------|------------|------------|------------|-------------|
| Coal              | 150,000    | 225,000    | 265,000    | 400,000     |
| Oil (max)         | 225,000    | 225,000    | 250,000    | 400,000     |
| Heating Surface   | 24 sq ft   | 32 sq ft   | 39 sq ft   | 56 sq ft    |
| Water Capacity    | 44 gallons | 59 gallons | 75 gallons | 100 gallons |
| Fire Box Capacity | 7.5 cu ft  | 10 cu ft   | 14 cu ft   | 22 cu ft    |
| Coal Capacity     | 125 lbs.   | 200 lbs.   | 250 lbs.   | 400 lbs.    |
| Door Opening      | 14" x 14"  | 14" x 14"  | 14" x 14"  | 16" x 16"   |
| Flue Size         | 8"         | 8"         | 8"         | 8"          |
| Weight            | 1,230 lbs  | 1,400 lbs  | 1,630 lbs  | 2,130 lbs.  |

| Without oil backup | C40        | C55        | C70        | C100       |
|--------------------|------------|------------|------------|------------|
| Coal               | 150,000    | 225,000    | 265,000    | 400,000    |
| Heating Surface    | 20 sq ft   | 27 sq ft   | 33 sq ft   | 50 sq ft   |
| Water Capacity     | 40 gallons | 55 gallons | 70 gallons | 95 gallons |
| Fire Box Capacity  | 7.5 cu ft  | 10 cu ft   | 14 cu ft   | 22 cu ft   |
| Coal Capacity      | 125 lbs.   | 200 lbs.   | 250 lbs.   | 400 lbs.   |
| Door Opening       | 14" x 14"  | 14" x 14"  | 14" x 14"  | 16" x 16"  |
| Flue Size          | 8"         | 8"         | 8"         | 8"         |
| Weight             | 1,050 lbs  | 1,220 lbs  | 1,450 lbs  | 1,950 lbs. |

Specifications subject to change without notice.



## Optional Multi-Fuel Equipment

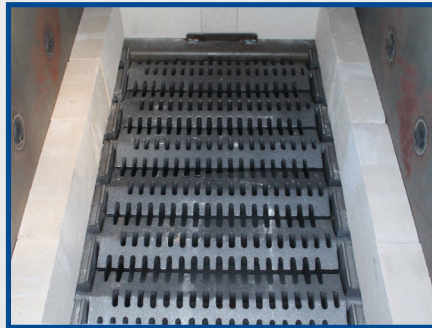
- Domestic hot water coil(s).
- Low water cutoff - safety shutdown if water level drops.
- Liquid fuel burning package.
- Automatic switchover package - automatically switch to fuel oil backup when fire goes out.



Auto Switch Over Optional  
on CO models

## Standard Multi-Fuel Equipment

See inside for complete list of standard features



Perforated Cast Iron Grates



Load Door Smoke Flap  
Standard



Forced Draft for Burning Coal  
Standard



Firebox Watertubes  
Standard

## Limited Warranty

Alternate Heating Systems boilers and furnaces are warranted against defects in materials and workmanship for the following periods:

- Boiler Vessel and Grate - 10 years
- All other components both manufactured by Alternate Heating Systems and purchased from vendors will vary in length of warranty from 30 days to 1 year

A copy of the complete warranty text, detailing coverage, limitations, warranty claim procedure and state law rights is available from Alternate Heating Systems.



**(717) 987-0099**  
[www.alternateheatingsystems.com](http://www.alternateheatingsystems.com)

Alternate Heating Systems manufactures alternative fuel burning heating equipment and sells (primarily direct) throughout the US, Canada, and internationally. Call us today to schedule a tour of our facilities, visit our showroom, and see a working demonstration of any boiler models.



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*Time is the best friend of Truth.*