



Multi-Fuel

Residential

Hand-Fired Updraft Multi-Fuel Boilers



Manufactured
over
30 Years

Coal • Liquid/Gas Fuels

Alternate Heating Systems

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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 soft and hard coal or soft and hard coal with liquid or gas fuel backup. Coal configurations are optimized for burning anthracite coal but a special package is available to enable the burning of more common bituminous coal. The secret to burning two different fuels in the same firebox is our Rolla-Grate rotary grate system (see below). Liquid fuel backup enabled models include a separate firing chamber where fuel oil, natural gas, or propane is combusted.



Rolla-Grate™
**Triangular
Rotary Grate**



The Rolla-Grate triangular rotary grate system is the secret to the flexibility of the AHS multi-fuel boiler. This remarkable system adjusts from a flat, nearly solid platform for burning hard coal to a base with large air flow openings for burning soft coal. In addition, The Rolla-Grate system provides a convenient method of removing ash.

Standard Equipment

- **Rolla-Grate™ ROTARY GRATE SYSTEM**
Opening can be increased from nearly closed to large opening for burning coal. Includes large, removable ash pan.
- **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.





C100



C40



CO55



CO40

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 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. Models designated with a "C" for coal burning are provided in standard configuration for anthracite coal but are available with an optimization package for burning bituminous coal.

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 liquid fuel backup when fire goes out.
- Bituminous coal burning package - enables you to more efficiently burn bituminous coal.



Auto Switch Over Optional
on CO models

Standard Multi-Fuel Equipment

See inside for complete list of standard features



Rolla-Grate™ and Fire Brick
Standard



Load Door Smoke Flap
Standard



Forced Draft for Burning Coal
Standard



Firebox Watertubes
Standard

Limited Warranty

Alternate Heating Systems, Inc. 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, Inc. 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, Inc.



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.