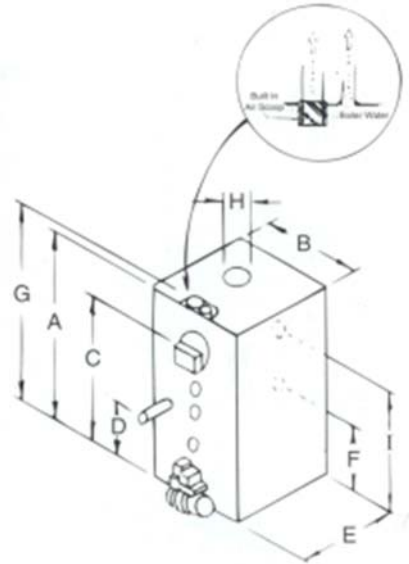


- **FIRING RATE 0.85 to 1.50 GPH** - Allows the installer to size the boiler more closely to the home heating needs for greater efficiency. The lowest firing rate, 0.85-87,000 BTU, is necessary for many well insulated homes where the heat loss is minimal.
- **COMBUSTION CHAMBER** - 1" thick pyrolite ceramic fiber material. Fast warm-up - glows to incandescence in 11-17 seconds. Large diameter allows brushing flue passages without punching through chamber.
- **PUMP PRESSURE** - The S-Series operates at 140 PSI pump pressure for better fuel atomization, thereby having the ability to tolerate fuel oil with heavy ends.
- **IGNITION SYSTEM** - The S-Series is standard with a state-of-the-art, solid state ignition system, making it more tolerant to low voltage or voltage fluctuations.
- **INTEGRATED IGNITION.**
- **ELECTRONIC DELAY with Solenoid Valve "clean-cut" Fuel Pump.**
- **WATER CONTENT** - Compared to other dry base boilers, the S-Series has exceptional water content. The first size has 16 gallons of water. High water volume and placement of the coil in the hottest part of the boiler allows for maximum coil performance.
- **EFFICIENCIES UP TO 86% AFUE** - The unique tube design of the S-Series boiler heat exchanger slows the flue gases, allowing for more effective heat transfer without the need for extreme baffling often seen in other vertical tube boilers.
- **LIFETIME LIMITED WARRANTY**- Unlike other pro-rated warranties that often cover a small percentage of the cost of a new boiler after the 15th or 20th year, Thermo-Dynamics boiler replacement are never more than 50% of the replacement list price list.
- **ASME CONSTRUCTED AND IBR RATED**- Each boiler is constructed and hydrostatically tested in accordance with ASME Boiler Code. The capacity and efficiency are rated in accordance with the standards of the Institute of Boiler and Radiator Manufacturers (IBR).
- **STANDARD FEATURES**- The following built-in features found in all Thermo-Dynamics boilers increase the longevity of the boiler and make the unit easier to service, ensuring maximum efficiency and performance for the life of the boiler:
  - Built-in "Air Scoop" purges air from the system providing a quiet, trouble free hot water heating system without the use of external devices.
  - Extended Flange Coil is away from the boiler for easy accessibility. The use of ribbed neck carriage bolts eliminates the problems encountered when a weld stud is broken during servicing. The large coil plate allows for a greater gasket sealing area.
  - Extended weld fittings of SA106-Schedule 80 seamless pipe extend beyond the jacket and allow the service technician or homeowner to see small leaks that, if undetected, could later damage the boiler shell and void the warranty.
  - Easy cleaning and maintenance accessibility to combustion areas and the open tubes make it easy for the service technician to thoroughly clean the boiler. No tight, pin-type passage ways with "hidden nooks and crannies", making a thorough cleaning impossible. A well-maintained boiler continues to perform at higher efficiency and is less likely to develop service problems.

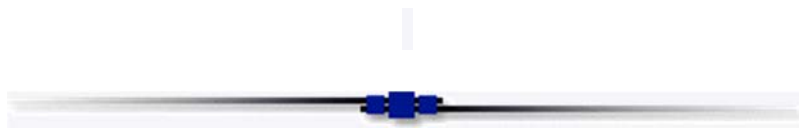


## EQUIPMENT



<b>STANDARD EQUIPMENT</b>	
ASME Code Boiler	3450 rpm Hi Speed Flame Retention Oil Burner
Flush Jacket	"Clean-Cut" Fuel Pump
Insulation	Interrupted Ignition Primary
Ceramic Fiber combustion Chamber	Electronic Delay /Valve
Altitude, Temperature & Pressure Gauge	Hydronic Triple Aquastat Relay
ASME Relief Valve	007 Circulator or Equivalent (mounted)
Tankless Heater - 3 gpm	Brass Boiler Drain Valve
Factory Assembled, Wired and Packaged	

Note: S-125/135/150 package boilers shipped w/3-nozzles/firing rates - 1.25 GPH nozzle installed at factory.



## SPECIFICATIONS

MODELS	S 85	S 100	S 110	***S 125	***S 135	*** S 150
IBR Firing Rate G.P.H. (Max.)	.85	1.00	1.10	***1.25	***1.35	***1.50
Nozzle Size	.65	.75	.85	1.00	1.10	1.25
IBR Input (BTU/HR)	119,000	140,000	154,000	175,000	189,000	210,000
IBR Heating Capacity (BTU/HR)*	101,000	118,000	130,000	149,000	159,000	175,000
IBR Net Rating (BTU/HR)	88,000	103,000	113,000	130,000	138,000	152,000

<b>Chimney Size</b>	<b>8X8X15</b>	<b>8X8X15</b>	<b>8X8X15</b>	<b>8X8X15</b>	<b>8X8X15</b>	<b>8X8X15</b>
<b>Draft Over Fire (Negative)</b>	<b>.02</b>	<b>.02</b>	<b>.02</b>	<b>.02</b>	<b>.02</b>	<b>.02</b>
<b>Water Content (Gal.)</b>	<b>16</b>	<b>15-1/2</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Domestic Coil Capacity**</b>	<b>3.5</b>	<b>3.5</b>	<b>3.5</b>	<b>3.5</b>	<b>3.5</b>	<b>3.5</b>
<b>A- Jacket Height</b>	<b>38-1/2"</b>	<b>38-1/2"</b>	<b>38-1/2"</b>	<b>38-1/2"</b>	<b>38-1/2"</b>	<b>38-1/2"</b>
<b>B- Jacket Width</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"31"</b>
<b>C- Coil Supply Height</b>	<b>31"</b>	<b>31"</b>	<b>31"</b>	<b>31"</b>	<b>31"</b>	<b>31"</b>
<b>D- Hydronic Return Height</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>
<b>E- Jacket Length</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>	<b>21-1/4"</b>
<b>F- Alt. Hydronic Return</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>	<b>22"</b>
<b>G- Hydronic Supply Height</b>	<b>36"</b>	<b>36"</b>	<b>36"</b>	<b>36"</b>	<b>36"</b>	<b>36"</b>
<b>H- Flue Pipe Diameter</b>	<b>6"</b>	<b>6"</b>	<b>6"</b>	<b>6"</b>	<b>6"</b>	<b>6"</b>
<b>I- Relief Valve Height</b>	<b>33-1/2"</b>	<b>33-1/2"</b>	<b>33-1/2"</b>	<b>33-1/2"</b>	<b>33-1/2"</b>	<b>33-1/2"</b>
<b>Shipping Weight (Approx.)</b>	<b>320</b>	<b>325</b>	<b>330</b>	<b>345</b>	<b>350</b>	<b>360</b>
<b>Hydronic Supply Tapping</b>	<b>1-1/4"</b>	<b>1-1/4"</b>	<b>1-1/4"</b>	<b>1-1/4"</b>	<b>1-1/4"</b>	<b>1-1/4"</b>
<b>Hydronic Return Tappings</b>	<b>2-1 1/4"</b>	<b>2-1 1/4"</b>	<b>2-1 1/4"</b>	<b>2-1 1/4"</b>	<b>2-1 1/4"</b>	<b>2-1 1/4"</b>
<b>AFUE</b>	<b>84.3</b>	<b>84.2</b>	<b>84.0</b>	<b>84.6</b>	<b>84.0</b>	<b>83.0</b>

\* Based on D.O.E. Test Procedure

\*\* Coil capacity based on 5 min. draw. 5 min. waiting period.

\*\*\* S-125/135/150- Blended Firing Rates.

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