

HeatMaster[®] 60

High performance, combined direct fired boiler and water heater. Can also be used as a stand alone water heater.

Simple, Well Proven Performance

At the heart of the HeatMaster is a stainless steel cylinder through which the flue tubes pass. This is surrounded by a mild steel shell containing the primary water.

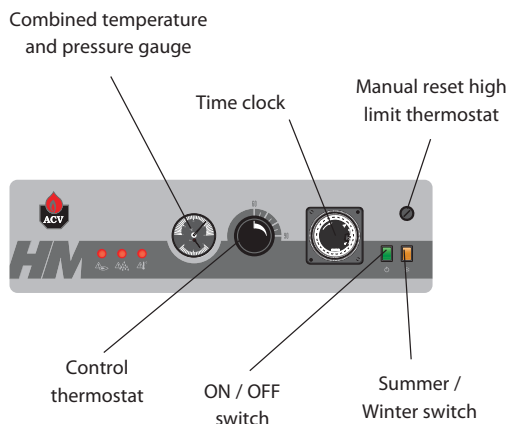
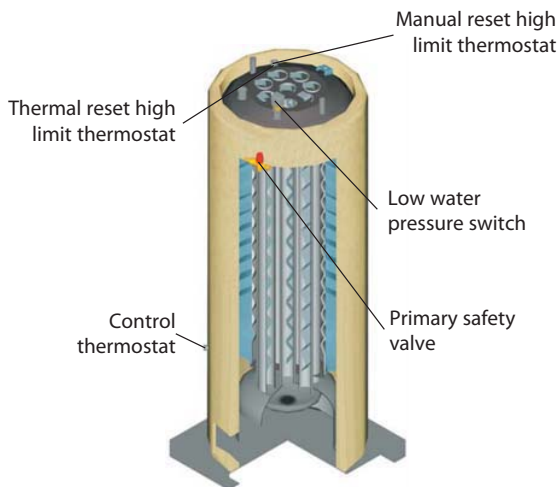
The outer shell extends down to the combustion chamber and around the flue tubes. The heat transfer surface is therefore much greater than that of standard direct fired water heater. A circulating pump fitted to the primary circuit moves the water around the tank, heating it faster and maintaining an even temperature across the primary jacket.

The burner fires into the combustion chamber which indirectly heats the stainless steel cylinder containing the DHW. As with all Tank-in-Tanks, this is corrugated over its full height and suspended in the HeatMaster by its hot and cold water connections.

It is capable of operating at very high temperatures.

Key Benefits

- Limescale build up is prevented because the:
 - cylinder expands and contracts during use
 - cold water does not come into contact with the intense heat of the burner flame
- No need for sacrificial anodes due to:
 - scale resistant features
 - corrosion resistance of stainless steel
- The HeatMaster has one very major advantage over other direct fired water heaters
 - because it heats the DHW with a primary circuit, this primary water can be used to provide central heating as well
- Most hot water and heating demands can be met - simply by connecting two, three, four or more HeatMasters together in a module.
- The HeatMaster range can be used in conjunction with SL and Jumbo hot water storage tanks - supplying even the largest hot water requirement.



| | | HeatMaster®60 | HeatMaster®60 |
|---------------------------------|-------------------|------------------------|----------------------------|
| Fuel | | Oil (28 sec or 35 sec) | Natural gas/LPG |
| Burner options | type | Pressure Jet | BG2000-S or forced draught |
| Input | kW | 69.9 | 69.9 |
| Maximum output | kW | 62.5 | 63.0 |
| Primary capacity | L | 82 | 82 |
| Total capacity | L | 162 | 162 |
| Heating surface area | m ² | 2.46 | 2.46 |
| Primary circuit pressure drop | mbar | 54 | 54 |
| DHW tank pressure drop | mbar | 45 | 45 |
| Flue circuit pressure drop | mbar | 0.6 | 0.6 |
| DHW connection (male BSP) | ∅ | 3/4" | 3/4" |
| Primary connection (female BSP) | ∅ | 1 1/2" | 1 1/2" |
| Flue connection (G) | ∅ mm | 150 | 150 |
| Flue connection options | type | B23 | B23/C13/C33/C53 |
| BG2000 air intake connection | ∅ mm | n/a | 80 |
| Weight empty | Kg | 220 | 220 |
| Weight full | Kg | 382 | 382 |
| Minimum working gas pressure | mbar | n/a | 20(Nat Gas)/37(LPG) |
| Gas flow rate | m ³ /h | n/a | 7.40(Nat Gas)/2.86(LPG) |
| Maximum operating temperature | °C | 90 | 90 |

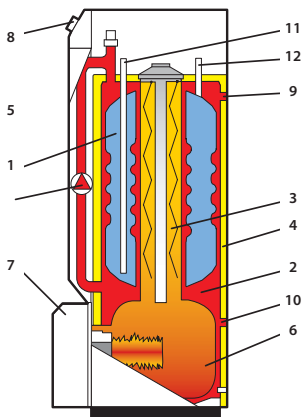
Maximum operating pressure Primary: 3 bar Secondary: 10 bar
Gas connection - BG2000 S/60: 3/4"

Performance Data

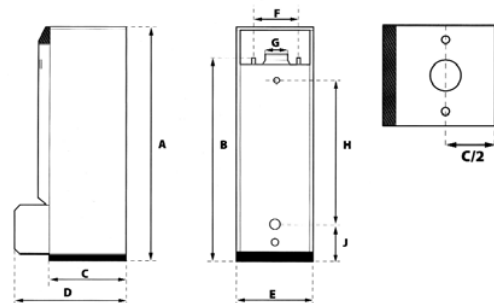
| HeatMaster®60 | | |
|----------------------------|---------|------|
| Litres in first 10 minutes | 40°C | 474 |
| Litres in first 10 minutes | 45°C | 378 |
| Litres in first 10 minutes | 60°C | 245 |
| Litres in first hour | 40°C | 1942 |
| Litres in first hour | 45°C | 1656 |
| Litres in first hour | 60°C | 1106 |
| Continuous flow 40°C | Ltrs/hr | 1835 |
| Continuous flow 45°C | Ltrs/hr | 1573 |
| Continuous flow 60°C | Ltrs/hr | 1101 |
| Reheat time to 60°C | Min | 9 |

Characteristics

Dimensions



1. Stainless steel inner tank
2. Primary heating circuit
3. Flue pipes with stainless steel turbulators
4. Rigid polyurethane foam insulation
5. Primary shunt pump
6. Combustion chamber
7. Oil or gas burner
8. Control panel
9. Primary water flow connection
10. Primary water return connection
11. Domestic cold water inlet
12. Domestic hot water outlet



| | HeatMaster®60 Oil | HeatMaster®60 Gas/LPG |
|---|-------------------|-----------------------|
| A | 1698mm | 1698mm |
| B | 1583mm | 1583mm |
| C | 538mm | 538mm |
| D | 791mm | 801mm(BG2000) |
| E | 540mm | 540mm |
| F | 390mm | 390mm |
| H | 1098mm | 1098mm |
| J | 281mm | 281mm |