

# TECHNICAL PRODUCT SUBMITTAL



## Range

### High Output LBF high efficiency gas fired Water Heaters

## Model

### LBF320GCE

Nominal Input (net) – kW	102.1
Nominal Input (gross) – kW	113.3
Gas Flow Rate (natural gas) – m <sup>3</sup> /hr	10.52
Nominal Output – kW	90.8
Efficiency (Part L2 Gross CV) – %	80.0
NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – ppm	155
NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – mg/kWh	279
Recovery Rate @ 44°C Δt – l/hr	1774
Recovery Rate @ 50°C Δt – l/hr	1561
Recovery Rate @ 56°C Δt – l/hr	1394
Dimensions (height to flue) – mm	2020
Dimensions (diameter) – mm	710
Dimensions (width) – mm	755
Dimensions (depth) – mm	1000
Storage Capacity – litres	253
Weight (empty) – kgs	320
Weight (full) – kgs	573
Weight (shipping) – kgs	350
Hot Water Outlet Connection – inches BSP Rp (Internal parallel)	1½
Cold Water Inlet Connection – inches BSP R (External taper)	1½
Gas Connection – inches BSP Rp (Internal parallel)	¾
Secondary Return Connection – inches BSP Rp (Internal parallel)	¾
Flue Diameter (concentric) – mm	2 x 130 (130/200)
Electrical Requirements	230v 1ph 50Hz
Power Consumption – W	275
CO <sub>2</sub> Flue Gas – %	7.0
Maximum Flue Gas Temperature – °C	180
Maximum Outlet Temperature – °C	73
Working Pressure Min / Max – bar	0.5 / 8.0

The Lochinvar **High Output LBF** range is a floor standing direct gas fired water heater. The equipment comprises a room-sealed stainless steel burner assembly and a vitreous enamel lined steel storage vessel. They are suitable for use on Natural Gas or LPG.

The appliance incorporates a specially designed baffle suspended in the flueway which increases the transfer of the products of combustion by scrubbing the sides of the flueway. This maximises the amount of heat transferred from the flue gasses to the water by means of convection and radiation. A thick polyurethane insulation layer covered in a steel outer casing keeps heat losses to an absolute minimum.

Sacrificial magnesium anodes are fitted as standard to offer protection from corrosion. The Anodes will require periodic inspection and replacement as part of a responsible service regime.

In-built features include automatic pilot ignition, flame failure protection, operating and high limit thermostats, frost protection all incorporated within the control system. The vessel has two 100mm clean out access openings.

**High Output LBF** Water Heaters are suitable for horizontal or vertical concentric flue installation (C<sub>13</sub> & C<sub>33</sub>). The separate 130mm flue and air ducts from the appliance are connected to a 130/200mm concentric terminal.

A 7 day/24 hour time clock and external ON/OFF switch for remote enable operation or interlocking the appliance to a safety circuit are available from Lochinvar as ancillary options (refer to separate Ancillary Options List for details).

Full warranty terms and conditions are available at [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

*Lochinvar Ltd reserves the right to change specifications without prior notice.*

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