

# TECHNICAL PRODUCT SUBMITTAL



## Range

### Charger high efficiency gas fired Water Heaters

Nominal Input (net) – kW	92.3
Nominal Input (gross) – kW	102.5
Gas Flow Rate (natural gas) – m <sup>3</sup> /hr	9.8
Nominal Output – kW	77.6
Efficiency (Part L2 Gross CV) – %	76.0
NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – ppm	178
NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – mg/kWh	320
Recovery Rate @ 44°C Δt – l/hr	1516
Recovery Rate @ 50°C Δt – l/hr	1334
Recovery Rate @ 56°C Δt – l/hr	1192
Dimensions (height) – mm	1950
Dimensions (diameter) – mm	710
Storage Capacity – litres	278
Weight (empty) – kgs	247
Weight (full) – kgs	525
Weight (shipping) – kgs	268
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 (conventional) – mm	200
Electrical Requirements	230v 1ph 50Hz
Power Consumption – W	30
CO <sub>2</sub> Flue Gas – %	6.8 to 8.0
Maximum Flue Gas Temperature – °C	150
Maximum Outlet Temperature – °C	73
Working Pressure Min / Max – bar	0.5 / 8.0

The Lochinvar **Charger** range is a floor standing direct gas fired water heater, which includes a stainless steel burner and a vitreous enamel lined steel storage vessel

Custom designed baffles are suspended in the multi flueways increasing the transfer of the products of combustion by scrubbing the sides of the flueway thereby increasing 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 flame failure protection, operating and high limit thermostats, combustion products spillage safety device, frost protection all incorporated within the control system. The vessel has two 100mm clean out access openings.

**Charger** Water Heaters are suitable for conventional flue installation (B<sub>1BS</sub>).

7 day/24 hour time clock and external ON/OFF switch for remote enable operation or the interlocking of a fanned flue installation 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.  
Issue 3 – February 2014*

## Model

### CH500GCE

**Lochinvar Ltd**  
7 Lombard Way | The MXL Centre  
Banbury | Oxon | OX16 4TJ

Tel: +44 (0) 1295 269981  
Fax: +44 (0) 1295 271640  
Email: [info@lochinvar.ltd.uk](mailto:info@lochinvar.ltd.uk)

[www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

