

# TECHNICAL PRODUCT SUBMITTAL



## Range

### Charger Auto high efficiency gas fired Water Heaters

|                                                                      |               |
|----------------------------------------------------------------------|---------------|
| Nominal Input (net) – kW                                             | 74.9          |
| Nominal Input (gross) – kW                                           | 83.2          |
| Gas Flow Rate (natural gas) – m <sup>3</sup> /hr                     | 7.9           |
| Nominal Output – kW                                                  | 62.9          |
| Efficiency (Part L2 Gross CV) – %                                    | 76.0          |
| NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – ppm    | 144           |
| NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – mg/kWh | 260           |
| Recovery Rate @ 44°C Δt – l/hr                                       | 1230          |
| Recovery Rate @ 50°C Δt – l/hr                                       | 1083          |
| Recovery Rate @ 56°C Δt – l/hr                                       | 966           |
| Dimensions (height to flue) – mm                                     | 2155          |
| Dimensions (diameter) – mm                                           | 710           |
| Storage Capacity – litres                                            | 335           |
| Weight (empty) – kgs                                                 | 241           |
| Weight (full) – kgs                                                  | 576           |
| Weight (shipping) – kgs                                              | 262           |
| 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                                    | 180           |
| 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                                    | 175           |
| Maximum Outlet Temperature – °C                                      | 73            |
| Working Pressure Min / Max – bar                                     | 0.5 / 8.0     |

The Lochinvar **Charger Auto** 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 Auto** Water Heaters are suitable for conventional flue installation (B<sub>11BS</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).

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

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## Model

### CHA400GCE

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