

# TECHNICAL PRODUCT SUBMITTAL



## Range

### **Knight** high efficiency gas fired Water Heaters

Nominal Input (net) – kW	24.1
Nominal Input (gross) – kW	26.7
Gas Flow Rate (natural gas) – m <sup>3</sup> /hr	2.5
Nominal Output – kW	20.4
Efficiency (Part L2 Gross CV) – %	77.0
NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – ppm	68
NO <sub>x</sub> Emissions (corrected to 0% O <sub>2</sub> ) – mg/kWh	119
Recovery Rate @ 44°C Δt – l/hr	399
Recovery Rate @ 50°C Δt – l/hr	351
Recovery Rate @ 56°C Δt – l/hr	315
Dimensions (height to flue) – mm	1780
Dimensions (diameter) – mm	675
Storage Capacity – litres	355
Weight (empty) – kgs	144
Weight (full) – kgs	499
Weight (shipping) – kgs	162
Hot Water Outlet Connection - inches BSP R (External taper)	1¼
Cold Water Inlet Connection - inches BSP R (External taper)	1¼
Gas Connection - inches BSP Rp (Internal parallel)	½
Flue Diameter (conventional) – mm	130
CO <sub>2</sub> Flue Gas – %	8.0 to 10.0
Maximum Flue Gas Temperature – °C	275
Maximum Outlet Temperature – °C	80
Working Pressure Min / Max – bar	0.5 / 8.0

The Lochinvar **Knight** range is a floor standing direct gas fired water heater. The equipment comprises a 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 flame failure protection, operating and high limit thermostats, combustion products spillage safety device all incorporated within the control system. A 100mm clean out access opening is incorporated for inspection purposes.

**Knight** Water Heaters are suitable for conventional flue installation (B<sub>11BS</sub>).

A de-stratification pump kit and additional storage vessels are available from Lochinvar Limited 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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## Model

### **LG85GCE**

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