

# TECHNICAL PRODUCT SUBMITTAL

## EcoKnight EKW146CE



Nominal Input (net)	kW	132
Nominal Input (gross)	kW	146.5
Gas Flow Rate (natural gas)	m <sup>3</sup> /hr	14
Nominal Output	kW	141.2
<b>EFFICIENCY DATA-Part L2</b>		
Heat generator seasonal efficiency	%	96.4
Effective heat generator seasonal efficiency *	%	98.9
<b>EFFICIENCY DATA-ErP and Energy Label</b>		
Ecodesign Energy Label rating		n/a
Seasonal space heating energy efficiency	%	94
<b>GENERAL DATA</b>		
NOx emission @0% O <sub>2</sub>	mg/kWh	38
Recovery Rate @ 44°C	l/hr	2768
Recovery Rate @ 50°C	l/hr	2436
Recovery Rate @ 56°C	l/hr	2175
Dimensions (height )	mm	1080
Dimensions (width)	mm	395
Dimensions (depth)	mm	798
Water Content	litres	15.9
Weight (empty)	kg	138
Weight (full)	kg	154
Flow Connection (inches)	BSP	2
Return Connection (inches)	BSP	2
Gas Connection (inches)	BSP	1
Electrical Requirements		230V /1Ph/ 50hz
Power Consumption	W	204
Sound Power Level	LWA(db)	66
Maximum Flue Gas Temperature	°C	120
Max Outlet Temperature	°C	88
Maximum Working Pressure	bar	11

\* The effective heat generator seasonal efficiency is the heat generator seasonal efficiency plus heating efficiency credits gained by adopting additional measures from Table 31 of the non-domestic compliance guide.

1. Fully automatic ignition controls 0.5%
2. Correct sizing of unit confirmed using manufacturers technical helpline and sizing software 2%

**EcoKnight water heaters** must be installed and maintained in line with the Installation Commissioning and Maintenance Instructions which are available on the Literature & Downloads section of [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

Particular attention should be made to:-

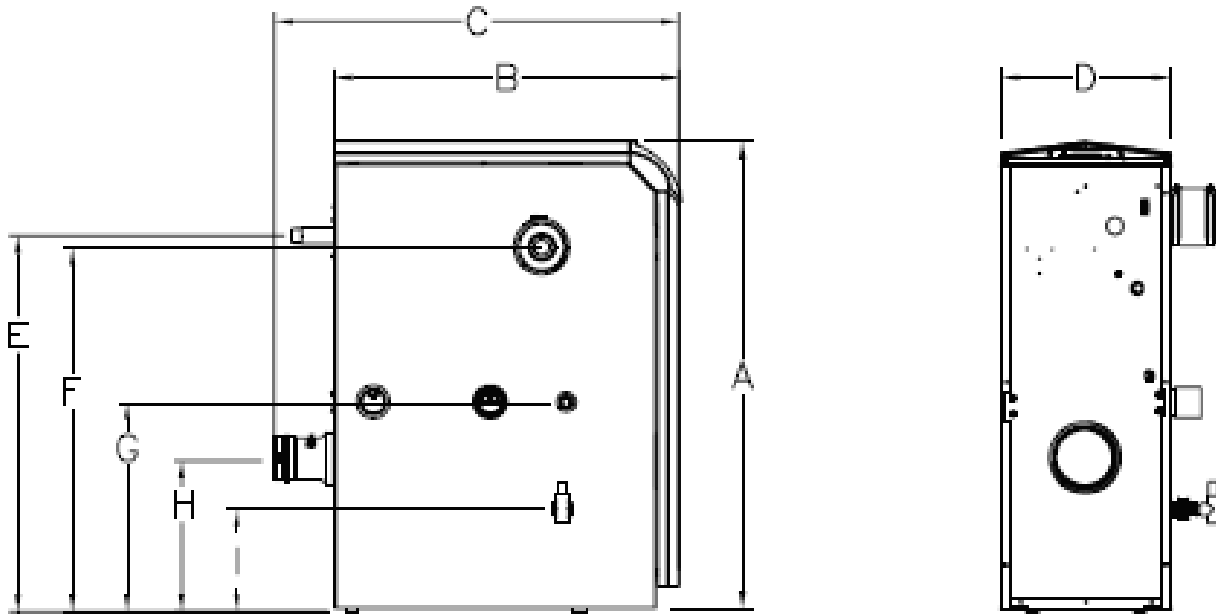
- Correct sizing of associated buffer vessel
- Dimensions and clearances
- Vented and Unvented installation requirements
- maintenance

#### **ErP and Warranty**

ErP Data including Product Fiche and Energy Labels where applicable and Warranty information are also available at [www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

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Description			Model					
			EKW86CE	EKW116CE	EKW146CE	EKW176CE	EKW206CE	EKW236CE
A	Height	mm	1080	1080	1080	1080	1080	1080
B	Depth	mm	503	688	798	925	1024	1153
C	Depth inc Flue Outlet	mm	715	828	938	1065	1164	1293
D	Width	mm	395	395	395	395	395	395
E	Gas Connection	mm	788	860	887	833	833	834
F	Air Inlet	mm	860	860	887	915	915	915
G	Water Connections	mm	477	477	477	477	477	477
H	Flue Outlet	mm	350	350	350	350	350	350
I	Condense Outlet	mm	230	230	230	230	230	230

Connection Sizes			Model					
			EKW86CE	EKW116CE	EKW146CE	EKW176CE	EKW206CE	EKW236CE
E	Gas Connection	BSP	¾"	1"	1"	1"	1"	1"
F	Air Inlet	mm	100	100	150	150	150	150
G	Water Connections	BSP	2"	2"	2"	2"	2"	2"
H	Flue Outlet	mm	100	100	150	150	150	150
I	Condense Outlet	PVC	½"	½"	½"	½"	½"	½"