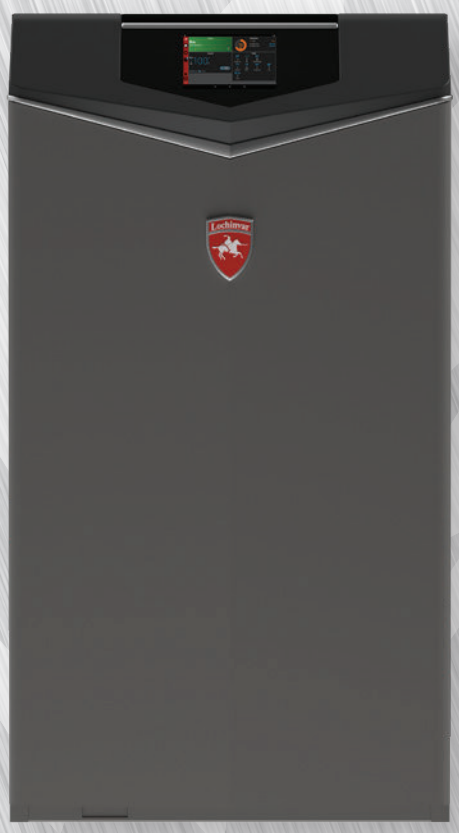
HERALD

FLOOR STANDING CONDENSING BOILERS



KEY FEATURES

- 4 models with outputs from 113kW to 283kW
- 10:1 downturn
- High efficiency condensing technology
- Stainless steel heat exchanger
- Integral smart touch controls
- Cascade control for up to 8 units
- Low NO_x emissions <37mg/kWh

Lochinvar®

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Connections

1. 7” TOUCH SCREEN
   Provides a simple user interface with all standard parameters easily located for simple changes.
2. STAINLESS STEEL HEAT EXCHANGER
   Latest design providing the ultimate efficiency.
3. 10:1 TURNDOWN
   Accurately matches load to demand increasing efficiency and saving energy. Matched with the standard cascade control this can provide a turndown of up to 80:1.
4. COMBUSTION AIR FILTER
   Prevents dust from entering the burner increasing efficiency and extending service intervals.

Herald timeline

2010

EcoKnight boiler launched with MK1 Smart system User interface and stainless-steel heat exchanger.

2015

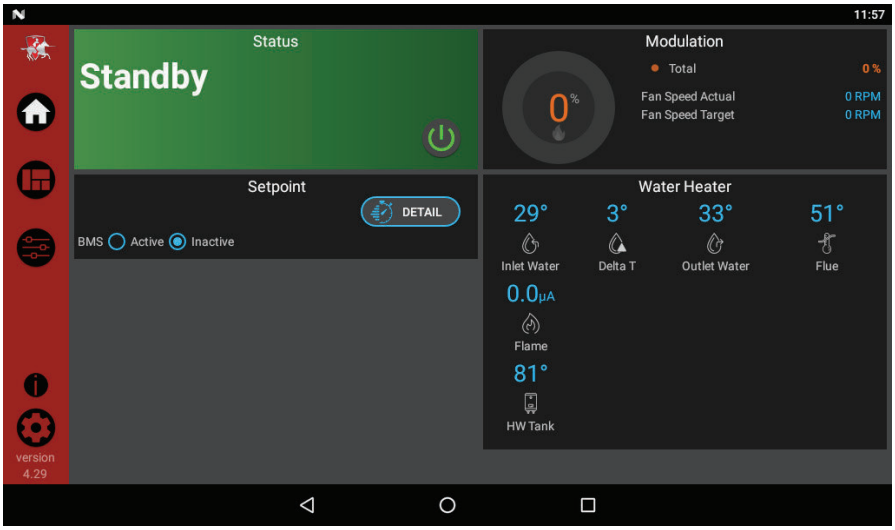
EcoKnight boiler becomes the Herald featuring an enhanced Smart system User interface.

2024

Latest Herald launched featuring the latest touchscreen Smart system control and cutting-edge stainless-steel heat exchanger design.

Smart system control

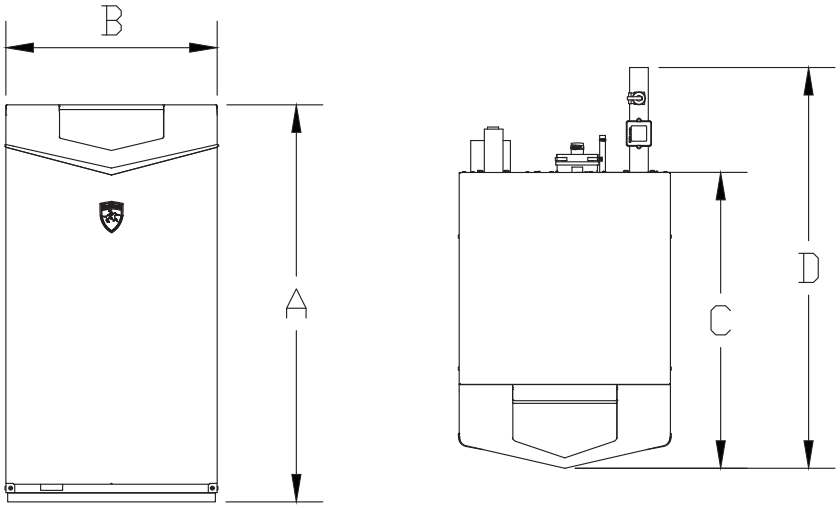
Herald features the latest generation of the Lochinvar SMART SYSTEM CONTROL, the large touchscreen allows easy access to all the parameters regularly accessed, many parameters feature simple sliders making it easy to change temperatures without entering multiple screens.



Cascade control

One of the key features within the Herald boiler is standard cascade control, this allows up to 8 boilers to be controlled via the standard cascade control. With a simple on signal to the Lead appliance the cascade will react to the heating load accurately matching heat output to the building load, increasing efficiency and spreading the working hours evenly. A cascade of 8 boilers will have a 80:1 downturn available.

Dimensional drawing



Item		HCB117	HCB190	HCB235	HCB295
A	mm	1143	1143	1143	1143
B	mm	610	610	610	610
C	mm	851	1079	1079	1270
D	mm	1079	1346	1346	1575
Gas Connection	Inch BSP	1"	1¼"	1¼"	1¼"
Flow conenction	Inch BSP	2"	2"	2"	2½"
Return conenction	Inch BSP	2"	2"	2"	2½"

Technical specifications

Model		HCB 117	HCB 190	HCB 235	HCB 295
General data					
Product I.D. Number		0063DO3450			
Classification		I_{2H}			
Input (gross)	kW	128.1	187.3	226.6	285.9
Input (net)	kW	115.3	168.7	204.1	257.5
Output (PmMin-PnMax)	kW	11.5-113.1	16.7-184.4	23.1-226.8	28.9-283.1
Downturn		10:1	10:1	10:1	10:1
Heat generator seasonal efficiency	%	96.3	96.3	95.9	95.7
Shipping Weight	kg	165.3	206.6	219.3	256.9
NO_X @ 0% o2 According to EU regulation 812/2013	mg/kw	22	30	33	37
NO_X Class According to EU regulation EN15502		6			
Maximum allowable temperature of the combustion air	°C	40			
Gas data - G20					
Nominal gas inlet pressure	mbar	21			
Maximum gas inlet pressure	mbar	25			
Minimum gas inlet pressure	mbar	17.5			
Gas flow rate	m3/hr	12.29	17.5	22.13	28.44
Flue gas mass rate (@9.0% CO2)	g/sec	57.72	80.73	102.18	129.94
Gas inlet connection size	"BSP	1	1¼	1¼	1¼
Electrical data					
Power consumption	W	238	767	979	1003
Power supply		Single phase 230v/50Hz			
Protection class		IP00			
Water data					
Water content	litres	17	24	28	34
Water connections (F & R)	"BSP	2	2	2	2½
Max. water pressure (PMS)	bar	11			
Min. water pressure	bar	0.5			
Maximum water temperature	°C	85			

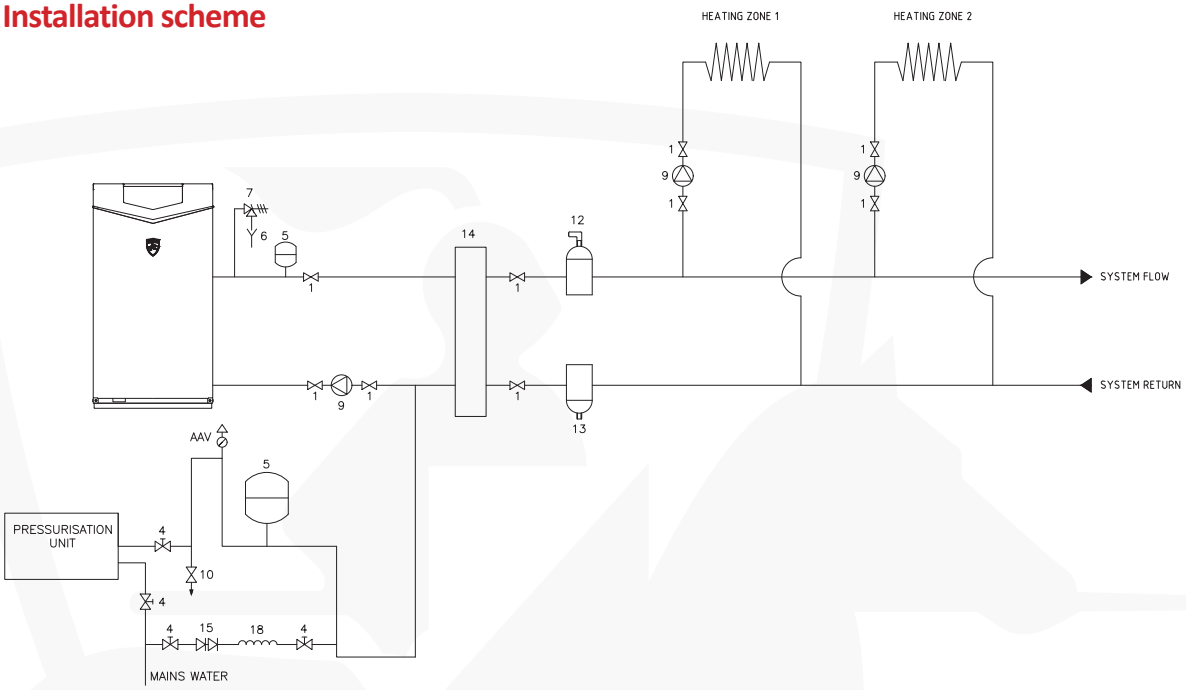
ErP data

Type		HCB117	HCB190	HCB235	HCB295
Condensing boiler:		Yes	Yes	Yes	Yes
Low temperature boiler:		No	No	No	No
B11 boiler:		No	No	No	No
Cogeneration space heater:		No	No	No	No
Combination heater:		No	No	No	No
	Unit:				
Rated heat output					
P-rated (P4) at 60-80°C	kW	111.7	163.1	197.3	248.4
Heat output (p1) 30% at 30-37°C	kW	37.8	55.3	66.6	83.9
Seasonal space heating energy efficiency (ηs)					
Energy efficiency class space heating		A	A	A	A
Seasonal space heating efficiency (ηs)	%	90.8	92	90.8	92
Energy efficiency (η4) at 60-80°C	%	87.1	86.9	87.1	86.9
Energy efficiency (η1) at 30-37°C	%	98	97.8	98	97.8
Auxiliary electricity consumption					
At full load (elmax)	kW	0.238	0.767	0.979	1.003
At part load (elmin)	kW	0.193	0.283	0.821	0.353
In standby mode (Psb)	kW	0.017	0.017	0.018	0.045
Other					
Standby heat loss (Pstby)	kW	0.14348	0.14583	0.14348	0.15623
Emissions (NO_X) of nitrogen oxides (EN15502)	mg/kWh	22	30	33	37
Sound power level, indoors (EN 14436 - 1:2006)	db	79.2	80.7	81.8	83.3

Flue gas data

Model Number		EKW117	EKW190	EKW235	EKW295
FLUE DATA TYPE B23					
Nominal flue diameter	mm	150	150	150	150
Minimum flue gas temp	°C	35			
Average flue gas temp	°C	70			
Maximum flue gas temp.	°C	120			
Maximum equivalent length	m	27	27	16	N/A
Roof terminal	m	1	1	0.55	N/A
Equivalent length 90° bend – mm	mm	7.1	7.1	7.1	N/A
Equivalent length 45° bend – mm	mm	1.8	1.8	1.8	N/A
Flue draught requirements	mbar	-0.03 to -0.1			
Model Number		EKW117	EKW190	EKW235	EKW295
FLUE DATA TYPE C13 & C33					
Nominal flue diameter	mm	150	150	150	150
Nominal air inlet diameter	mm	150	150	150	150
Minimum flue gas temp	°C	35			
Average flue gas temp	°C	70			
Maximum flue gas temp.	°C	120			
Maximum equivalent length	m	27	27	16	N/A
Roof terminal	m	1	1	0.55	N/A
Wall terminal	m	0.86	0.86	0.6	N/A
Equivalent length 90° bend	mm	7.1	7.1	7.1	N/A
Equivalent length 45° bend	mm	1.8	1.8	1.8	N/A
Model Number		EKW117	EKW190	EKW235	EKW295
FLUE DATA TYPE C43 & C53					
Nominal flue diameter	mm	100	150	150	150
Nominal air inlet diameter	mm	100	100	100	150
Minimum flue gas temp	°C	35			
Average flue gas temp	°C	70			
Maximum flue gas temp	°C	120			
Maximum equivalent length	m	27	27	16	N/A
Equivalent length 90° bend	mm	7.1	7.1	7.1	N/A
Equivalent length 45° bend	mm	1.8	1.8	1.8	N/A

Installation scheme



Number	Description
1	Isolation valve
2	Pressure reducing valve
3	Non-return valve
4	Lockshield valve
5	Expansion vessel
6	Tundish
7	Expansion valve
8	Temperature & pressure relief valve
9	Pump
10	Drain valve
11	Tank temperature sensor
12	Air separator
13	Dirt separator
14	Low loss header
15	Double check valve
16	Automatic air vent
17	3 Port valve

Number	Description
18	Temporary fill loop
19	Anti vibration coupling
20	Flow regulator/commissioning set
21	Plate heat exchanger
22	Hydraulic kit
23	Heat meter
24	Grundfos flow sensor
25	2 Port valve
26	Solar expansion vessel
27	Solar collector sensor
28	Solar vessel sensor
29	High limit stat
30	Solar pump station
31	Solar collection vessel
32	Flow switch
33	Strap on temperature sensor
34	Inline filter
35	Strainer

Energy label, product fiche and ErP data table are available at www.lochinvar.ltd.uk

For further information on the Herald floor standing condensing boilers, including ICM & user instructions and our full warranty terms and conditions, please visit our website: www.lochinvar.ltd.uk

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