HeatMaster 85 Evo 2

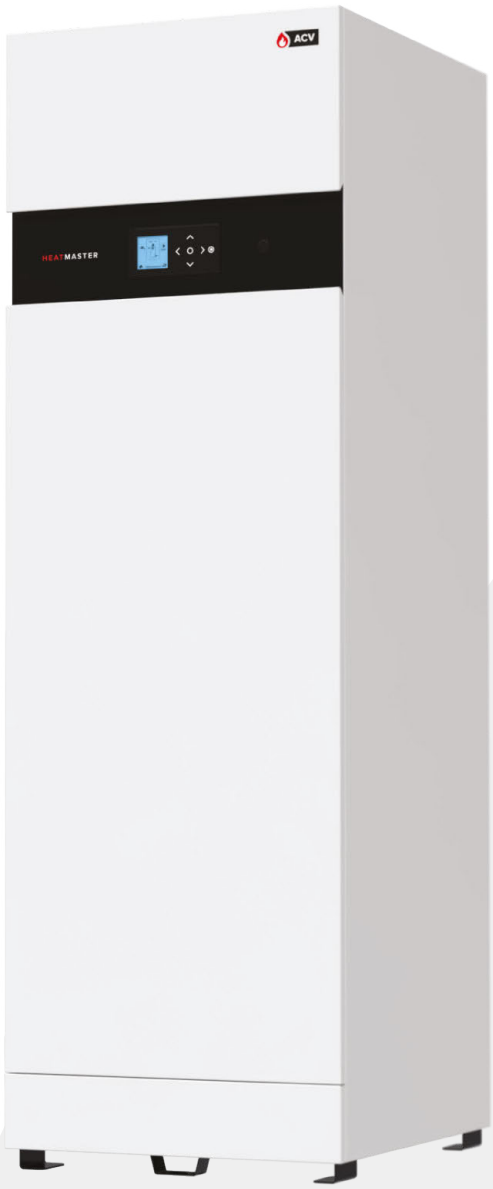
Commercial combi boiler

Peak 1st hour: 1638 l/h. Continuous flow 1520 l/h (at 60°C)

Tank-in-tank heat exchange technology

ErP class A

Exceeds all current legislation requirements



Up to 85kW of heating load

Internal time clock

5

5 year warranty*

kiwa CERTIFIED KUKreg4 ATS 3

A XXL

CE

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*Terms and conditions apply visit acv.com/gb for more information

HeatMaster 85 Evo 2
Technical data & dimensions

Performance

Maximum heat input NCV (GCV)	kW	85 (94.4)
Minimum heat input	kW	21
Maximum output (80/60)	kW	82.9
Maximum output (50/30)	kW	89.9
Efficiency at 100% load (80/60)	%	97
Efficiency at 100% load (50/30)	%	105.8
Efficiency at 30% load (EN 15502-1) nett	%	108
Seasonal Efficiency Part L (Heating)	%	97.2

ErP

Water heating efficiency class	-	A
Space heating energy efficiency class	-	A
Seasonal space heating efficiency (ErP)	%	92
Seasonal water heating efficiency (ErP)	%	90.1
Standby loss DT 30K	W	110
Standby loss DT 45K	W	164
Declared load profile	-	XXL
Sound power level indoors LWA (BSEN15036-1)	dB	61

Combustion

Gas Inlet Pressure (NG)	mbar	18-23
Gas flow rate (max output)	m3/h	8.6
Nox class (EN15502)	-	6
Nox weighted (GCV) (EN15502)	mg/kWh	29.3

Flue

Flue connection	-	100/150
Max allowed flue pressure drop	Pa	160

Hydraulic

Water pressure drop boiler at 20°C ΔT	mbar	14
Primary flow rate at 20°C ΔT	l/h	3600
Primary flow rate at 20°C ΔT	l/s	1.00

Electrical

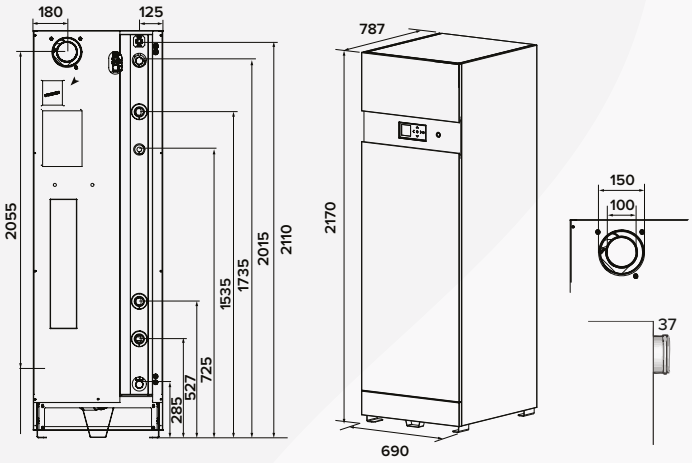
Voltage	V	230
Fuse Rating	A	16
Electrical power consumption Max	W	266
Electrical power consumption Standby	W	3

General

Storage capacity (total)	L	315
Storage capacity (domestic hot water)	L	190
Connection - heating	-	1 1/2" F
Connection - DHW	-	1" M
Connection - gas	-	3/4" M
Max operating temperature (primary)	°C	87
Max operating temperature (DHW)	°C	75
Max service pressure heating (primary)	bar	3
Max service pressure (DHW)	bar	8.6
Weight (empty)	kg	298
Weight full	kg	613

DHW Performance - Primary Temperature - 80°C

Peak 10 min flow @ 40°C (30°C ΔT)	L/10'	783
Peak 1st hour flow @ 40°C (30°C ΔT)	L/60'	2895
Continuous flow @ 40°C (30°C ΔT)	L/h	2534
Peak 10 min flow @ 45°C (35°C ΔT)	L/10'	646
Peak 1st hour flow @ 45°C (35°C ΔT)	L/60'	2456
Continuous flow @ 45°C (35°C ΔT)	L/h	2172
Peak 10 min flow @ 60°C (50°C ΔT)	L/10'	371
Peak 1st hour flow @ 60°C (50°C ΔT)	L/60'	1638
Continuous flow @ 60°C (50°C ΔT)	L/h	1520
Heat up time time (Primary: 10-80°C)	mins	24



All dimensions in mm.

Minimum Clearances			
Top	**Left side**	**Right side**	**Rear**
300mm	600mm	250mm	400mm

This data assumes an incoming mains water temperature of 10°C. *In line with the recommendations specified in UK Building Regulations (2016) Part G, ACV UK Ltd advise the installation of a suitable domestic hot water thermostatic mixing valve on the hot flow immediately after the appliance.

Please contact ACV UK for details of flow rates and pressure drops at other system differentials.

Every effort has been taken to ensure the details are accurate. ACV UK Limited does not, however, guarantee the accuracy or completeness of any information nor does it accept liability for any errors or omissions in the information. ACV UK Limited reserves the right to make changes and improvements which may necessitate alteration to product specification without prior notice.