# HeatMaster 70 Evo 2

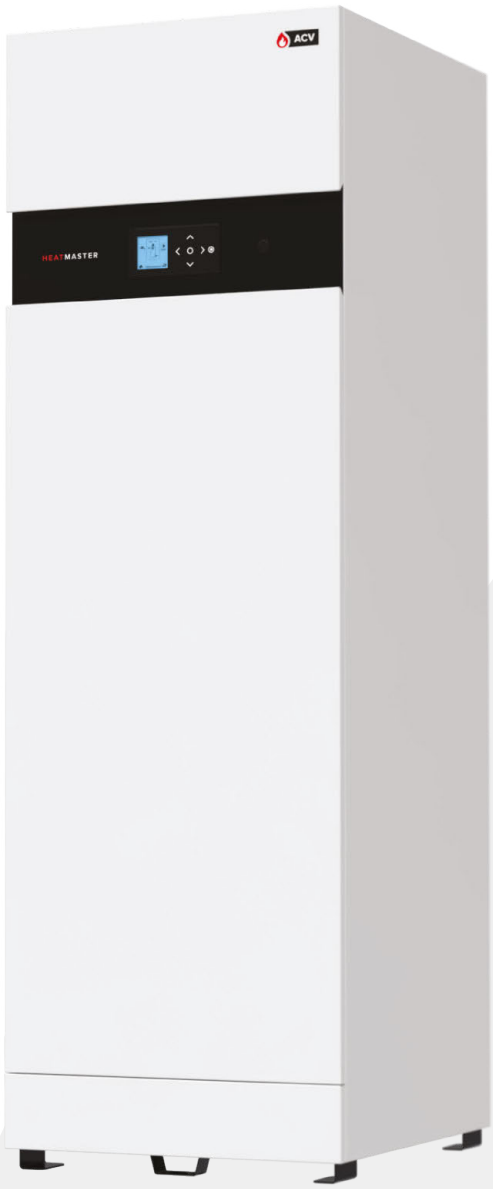
## Commercial combi boiler

Peak 1st hour: 1391 l/h. Continuous flow 1252 l/h (at 60°C)

Tank-in-tank heat exchange technology

ErP class A

Exceeds all current legislation requirements




Up to 70kW of heating load

Internal time clock

5

5 year warranty*

kiwa CERTIFIED KUKreg4 ATS 3

A XXL

CE

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# HeatMaster 70 Evo 2
# Technical data & dimensions

## Performance

| | | |
|---|---|---|
| Maximum heat input NCV (GCV) | kW | 69.9 (77.6) |
| Minimum heat input | kW | 21.5 |
| Maximum output (80/60) | kW | 68 |
| Maximum output (50/30) | kW | 74 |
| Efficiency at 100% load (80/60) | % | 97.3 |
| Efficiency at 100% load (50/30) | % | 105.8 |
| Efficiency at 30% load (EN 15502-1) nett | % | 109 |
| Seasonal Efficiency Part L (Heating) | % | 98 |

## ErP

| | | |
|---|---|---|
| Water heating efficiency class | - | A |
| Space heating energy efficiency class | - | A |
| Seasonal space heating efficiency (ErP) | % | 92 |
| Seasonal water heating efficiency (ErP) | % | 90 |
| Standby loss DT 30K | W | 110 |
| Standby loss DT 45K | W | 164 |
| Declared load profile | - | XXL |
| Sound power level indoors LWA (BSEN15036-1) | dB | 60 |

## Combustion

| | | |
|---|---|---|
| Gas Inlet Pressure (NG) | mbar | 18-23 |
| Gas flow rate (max output) | m3/h | 7.2 |
| Nox class (EN15502) | - | 6 |
| Nox weighted (GCV) (EN15502) | mg/kWh | 33.1 |

## Flue

| | | |
|---|---|---|
| Flue connection | - | 100/150 |
| Max allowed flue pressure drop | Pa | 110 |

## Hydraulic

| | | |
|---|---|---|
| Water pressure drop boiler at 20°C ΔT | mbar | 9 |
| Primary flow rate at 20°C ΔT | l/h | 3000 |
| Primary flow rate at 20°C ΔT | l/s | 0.83 |

## Electrical

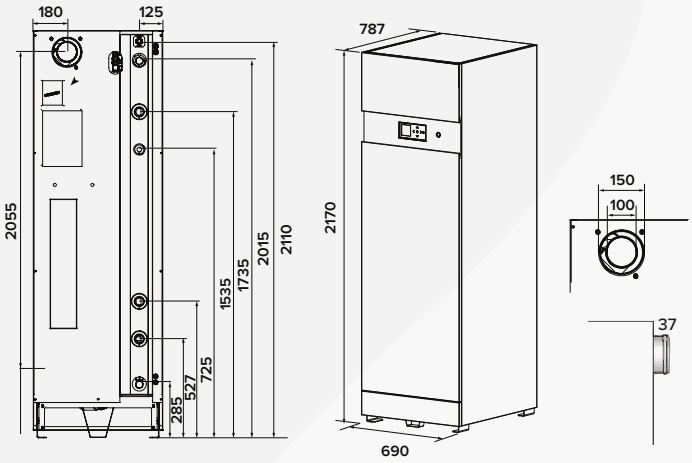
| | | |
|---|---|---|
| Voltage | V | 230 |
| Fuse Rating | A | 16 |
| Electrical power consumption Max | W | 225 |
| Electrical power consumption Standby | W | 3 |

## 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' | 716 |
| Peak 1st hour flow @ 40°C (30°C ΔT) | L/60' | 2455 |
| Continuous flow @ 40°C (30°C ΔT) | L/h | 2087 |
| Peak 10 min flow @ 45°C (35°C ΔT) | L/10' | 592 |
| Peak 1st hour flow @ 45°C (35°C ΔT) | L/60' | 2083 |
| Continuous flow @ 45°C (35°C ΔT) | L/h | 1789 |
| Peak 10 min flow @ 60°C (50°C ΔT) | L/10' | 348 |
| Peak 1st hour flow @ 60°C (50°C ΔT) | L/60' | 1391 |
| Continuous flow @ 60°C (50°C ΔT) | L/h | 1252 |
| Heat up time time (Primary: 10-80°C) | mins | 27 |




**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.

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