

Advenco Ardent 9–36 kW

Indirect Electric Wall-Hung Boilers



The Advenco Ardent range of wall-hung electric boilers are designed to provide a high capacity, reliable, and compact solution to a building's hot water and central heating demands.

The Advenco Ardent electric boiler range features multiple electric heating elements immersed into an integrated water storage tank to provide a rapid and reliable source of thermal energy to serve a heating system or indirect water heater.

Available as a compact wall-hung appliance with outputs from 9 to 36 kW, the Ardent electric boiler range includes stepped power control to provide optimum heating output and economically adjust the heating load when approaching the set point temperature, and range rating to tailor the boiler power to suit the application. The Ardent range is available in two model ranges:

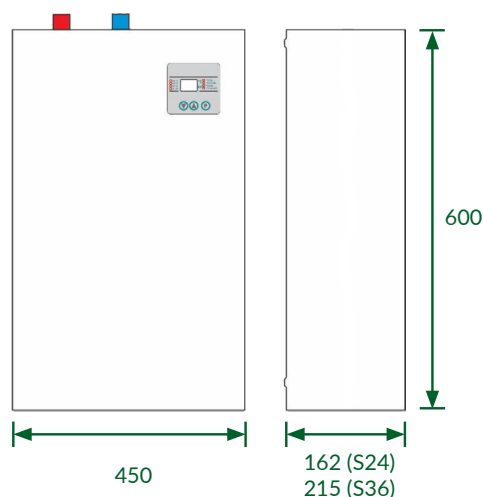
S Range: The Ardent Standard range features three heating elements with thermostat input and output control to an external pump.

P Range: The Ardent Premium range features six to nine heating elements and an integrated expansion vessel, relief valve, and circulation pump. The Premium range features all controls of the Standard range in addition to controls for a 3-port valve and fault output.

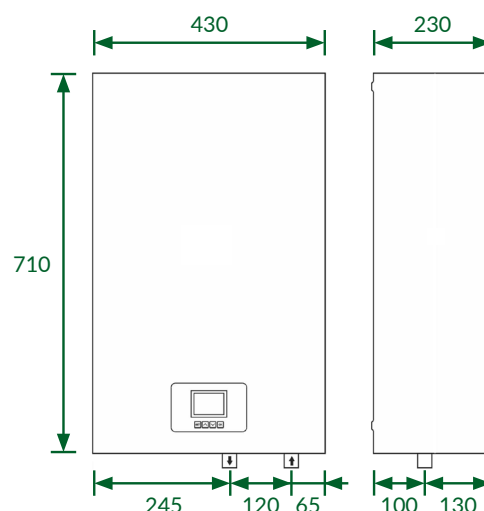
All boilers feature a front mounted LCD display and protective IP20 or IP40-rated outer shell as well as integrated overheat safety protection. The Ardent range is ideal for integration with heat pump systems to provide a high temperature energy source in the coldest period of the year.

FEATURES

- Indirect hot water system design eliminates scale build-up common on direct electrical immersion heaters.
- Multiple heating elements per unit provide inbuilt redundancy.
- Stepped element control to reduce start-up current and excessive or uneven wear on heating elements.
- Compact wall-hung arrangement.
- Simple integration into existing systems.
- Modern electric-only operation avoids reliance on gas energy supplies.



Ardent Standard: S24–S36



Ardent Premium: P9–P24

Ardent Standard: Technical Specifications	S24	S36
Heat output range (kW)	24.0	36.0
Element configuration	3 × 8.0	3 × 12.0
Power supply (V _{AC} / Phases / Hz)	400 / 3 phase / 50	
Full load current per phase (A)	34.8	52.2
Inlet and outlet connections	1" (DN25)	
Boiler water content (l)	14.2	21.0
Maximum operating temperature (°C)	80	
Operating pressure range (bar)	0.5 – 3.0	
Energy efficiency class	D	
Sound power level (dB)	46	
Housing protection	IP20	
Dimensions H × W × D (mm)	600 × 450 × 162	600 × 450 × 215
Dry mass (kg)	13.5	17.2

Ardent Premium: Technical Specifications	P9	P12	P24
Heat output range (kW)	9.0	12.0	24.3
Element configuration	6 × 1.5	6 × 2.0	9 × 2.7
Power supply (V _{AC} / Phases / Hz)	240 / 1 phase / 50 or 400 / 3 phase / 50	400 / 3 phase / 50	
Full load current per phase (A)	38 (1 phase) 13 (3 phase)	17.4	35.2
Inlet and outlet connections (inch)	G 3/4"	G 3/4"	G 3/4"
Boiler water content (l)	12.5	12.5	12.5
Expansion vessel water content (l)	7.0	7.0	7.0
Maximum operating temperature	80	80	80
Operating pressure range (bar)	0.8 – 2.2	0.8 – 2.2	0.8 – 2.2
Energy efficiency class	D	D	D
Sound power level (dB)	32	32	32
Housing protection	IP40	IP40	IP40
Dimensions H × W × D (mm)	700 × 430 × 230	700 × 430 × 230	700 × 430 × 230
Dry mass (kg)	25	25	25