

# Adveco Ardent 60–100 kW

## Indirect Electric Floor Standing Boilers



The Adveco Ardent range of floor standing electric boilers are designed to provide a high capacity and reliable solution to a building's hot water and central heating demands.

The Adveco 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.

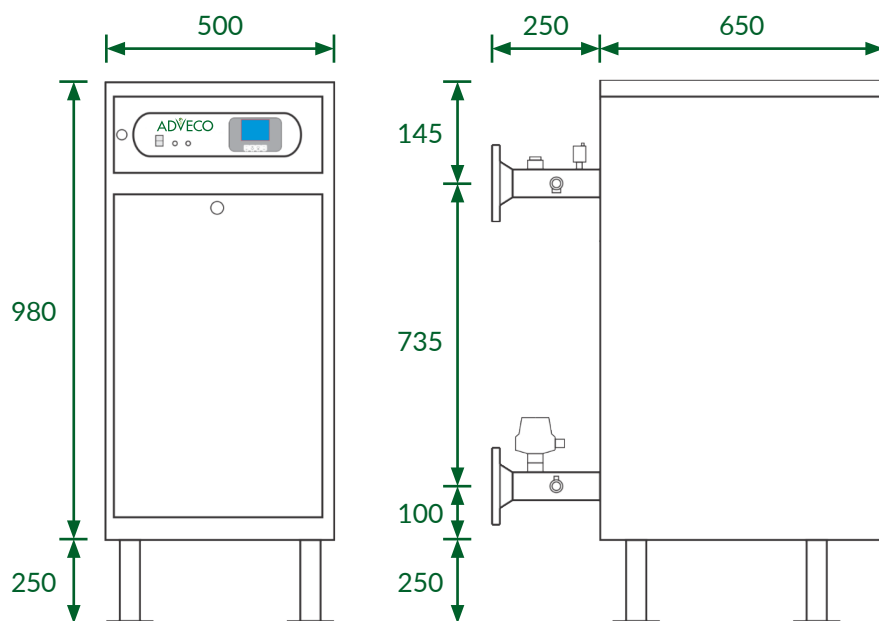
Available as a floor standing appliance with outputs from 60 to 100 kW, the Ardent features stepped element control to economically adjust the heating load when approaching set point temperature, and range rating to tailor the boiler power to suit the application.

All boilers feature an integral controller with LCD display and fault output in addition to an automatic air relief valve, safety valve, and temperature and pressure sensors all enclosed within a protective IP20-rated outer shell with rear flanged pipework connections. 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.

### STANDARD 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 wear on heating elements.
- Simple integration into existing systems.
- Modern electric-only operation avoids reliance on gas energy supplies.





Standard: Technical Specifications	S60	S80	S100
Heat output range (kW)	10–60	10–80	10–100
Element configuration	6 × 10.0 kW	8 × 10.0 kW	10 × 10.0 kW
Efficiency	>99%	>99%	>99%
Power supply (3 phase) ( $V_{AC}$ / Hz)		400 / 50	
Rated current (A)	3 × 87	3 × 116	3 × 145
Main fuse requirement (A)	3 × 90	3 × 125	3 × 160
Element fuse requirement (A)	6 × 3p C25A	8 × 3p C25A	5 × 3p C40A
Inlet and outlet connection (mm)		DN50 PN16	
Boiler water content (l)		95	
Operating temperature range (°C)		10–90	
Operating pressure range (bar)	0.4 – 2.6		0.4 – 3.6
Expansion relief valve	U0023/4 0.75" 4 bar	U0023/4 0.75" 4 bar	U0023/4 0.75" 4 bar
Energy efficiency class		D	
Dimensions H × W × D (mm)		1240 × 500 × 900	
Dry mass (kg)	92	106	120