ADVECO
HOT WATER SPECIALISTS

www.adveco.co

ADVECO FUSION

Packaged Electric Water Heating



ADVECO FUSION

FUSION-E | FUSION-Eplus | FUSION-T | FUSION-Tplus

The Adveco FUSION range is a low carbon, all-electric packaged hot water system combining a tough stainless steel cylinder and a choice of 9 to 24 kW electric boiler. Easy to install and maintain, FUSION water heaters are presized for commercial projects.

With the addition of a 10 to 28 kW air source heat pump (ASHP) to supply preheat, projects can integrate greater sustainability to reduce carbon emissions and control operational costs. Adveco's advanced controls balance the energy input from the ASHP and electric boiler to maximise system efficiency.

For projects requiring additional resilience FUSION provides the option to integrate an electric immersion with automatic control and alerts for assured business continuity.

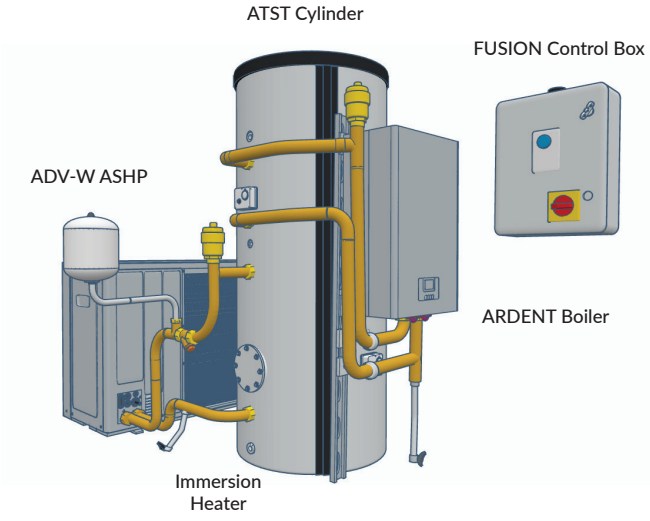


WORKING TOWARDS A ZERO CARBON FUTURE

50 YEAR HISTORY

CONTINUED GROWTH IN TURNOVER for 10 YEARS

IN HOUSE TRAINING FACILITIES



FUSION-TWplus System

The next generation FUSION range is a modern, future-proof system that embraces electric water heating and the option to incorporate an ASHP to lower carbon emissions in line with government calls for net zero.

As an all-electric system, it uses familiar technology that is relatively simple and quick to install, cost-effective, reduces carbon emissions and removes dangerous NO_x emissions for improved indoor air quality (IAQ) for enhanced occupant comfort.

With an increased heating capacity over first generation Adveco FUSION systems, the next generation of FUSION offers greater versatility for meeting domestic hot water (DHW) demands across a range of properties used for commercial operations.

The packaged, pre-sized format enables flexibility to specify from a range of cylinders, primary electrical heating, air source heat pumps for preheat, immersions for back-up all supported by Adveco's bespoke controls to ensure optimal, efficient operation.

FUSION is the perfect response for building projects with small to medium basin and sink led hot water demands. Taller buildings with basement plant rooms. Businesses that depend on 24/7 hot water provision for continuity of service.

UP TO

68%

CARBON EMISSIONS SAVINGS

When compared to equivalent gas-fired DHW systems

www.adveco.co

ADVECO FUSION

FUSION-E | FUSION-Eplus Electric Water Heaters

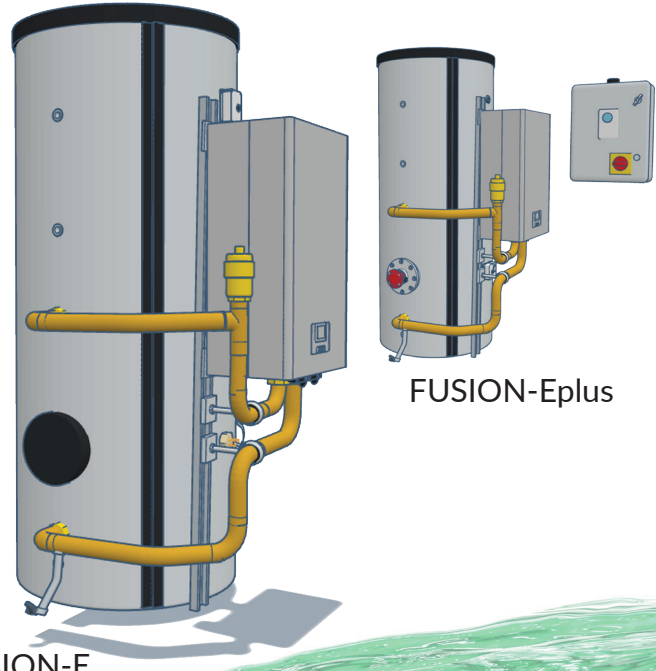
FEATURES

FUSION-E

- High-quality ATSI single coil stainless steel vessel with mounting points & brackets
- Available with 300 to 750 litre capacities
- Cylinder pressure 10 bar as standard
- 9, 12 or 24 kW electric boiler
- Pre-built pipework (left or right)
- Thermostat and overheat thermostat
- Compact space-saving form factor
- 15 pre-sized variants from 9 to 24 kW

FUSION-Eplus

- 6 kW electric immersion
- FUSION Control Box
- Automatic backup with remote alerts
- 15 pre-sized variants 9 to 24 kW



FUSION-Eplus

FUSION-E

ADVECO FUSION

FUSION-TW | FUSION-TWplus

FEATURES

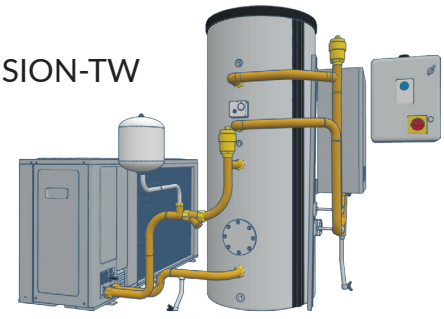
FUSION-TW

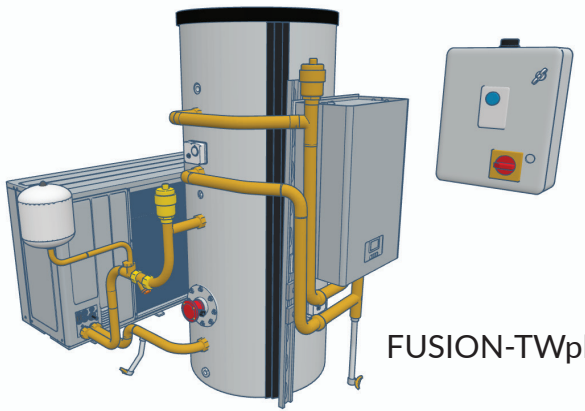
- High-quality ATST twin coil stainless steel vessel with mounting points & brackets
- Available with 300 - 750 litre capacities
- Cylinder pressure 10 bar as standard
- 9, 12 or 24 kW ARDENT electric boiler
- 10, 12 or 16 kW ADVS-W Single phase ASHP
- 16, 22 or 30 kW ADV-W Threes phase ASHP
- Pre-built pipework (left or right)
- FUSION Control Box
- Compact space-saving form factor
- 25 pre-sized variants from 19 to 52 kW

FUSION-TWplus

- 6 or 12 kW electric immersion
- Automatic backup and remote alerts
- 25 pre-sized variants from 19 to 52 kW

FUSION-TW





FUSION-TWplus

www.adveco.co

ARDENT Premium Electric Boiler

Designed to serve an indirect water heater or heating system, multiple electric heating elements immersed into ARDENT's integrated water storage tank provide a rapid and reliable source of thermal energy for heat outputs from 9 to 24 kW

When intregated with a heat pump in FUSION-TW and -TWplus systems, the ARDENT boiler provides a high-temperature energy source to top up pre-heated water from the ASHP, especially during colder months.

As part of FUSION's indirect hot water system, ARDENT helps eliminate scale build-up common on direct electrical immersion heaters in harder water areas.

The Adveco ARDENT Premium 9, 12 & 24 kW models feature two or three heating elements with six or nine circuits with a front-mounted controller with LCD display.

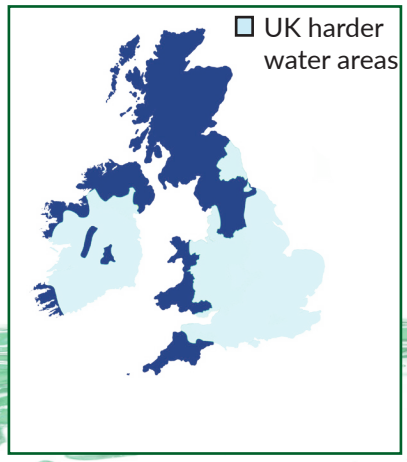
Each boiler includes an integrated expansion vessel, relief valve, and circulation pump. Additional controls include 3-port valve and fault output. All models boast a protective IP40-rated outer shell.



Features

- Electric-only operation avoids reliance on gas energy supplies
- Multiple heating elements per unit provide built in redundancy
- Stepped element control to reduce start-up current and wear on heating elements
- Integrated overheat safety protection
- Simple integration into FUSION system
- Can help eliminate damaging limescale build-up in hard water areas
- Compact form factor that hangs on the hot water cylinder with bespoke brackets
- Silent operation

Eliminating Scale



ARDENT utilises immersion heaters located in a small tank heat exchanger within the boiler housing. This electric boiler supplies a sealed 'primary' loop to an indirect coil in the FUSION cylinder.

The electric boiler heats the same water continuously so there is only a finite amount of scale in the system which will not damage the elements. The heat exchanger in the cylinder is a large coil operating at relatively low temperatures. Extensive experience with indirect coil use in the UK has shown that scale is not a significant problem in these systems.

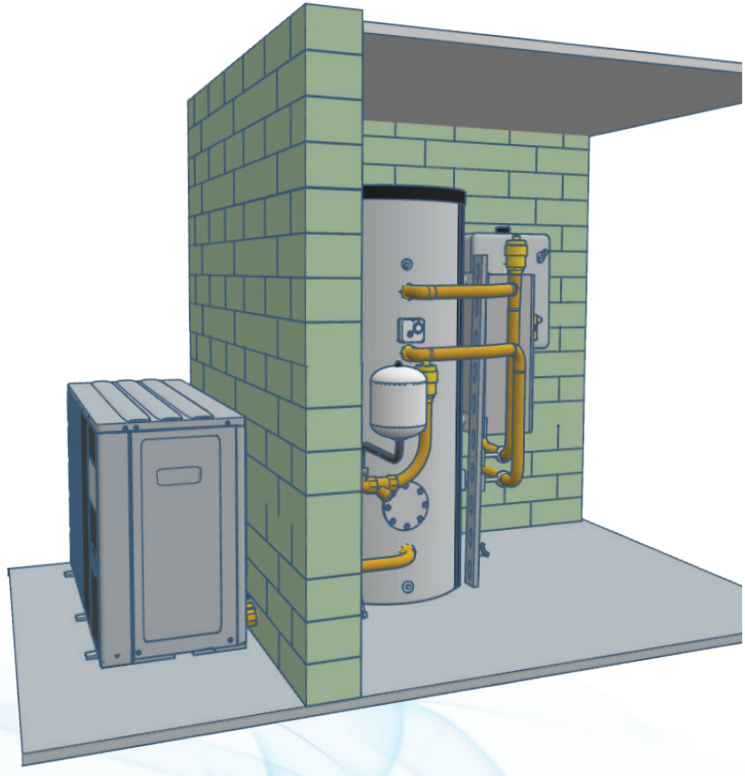
The multiple immersions within the ARDENT tank also provide immediate resilience should one potentially fail.

ADV-W Air Source Heat Pumps

Adveco FUSION-T is built around the stylish ADV-W and AWDS-W R-32 air source heat pumps (ASHP). Conceived to consistently supply low carbon hot water for commercial applications with higher thermal requirements, the compact monobloc ADV-W is the environmentally-friendly choice.

Transferring heat from the air to a building, the ADV-W can provide hot water up to 55°C throughout the year, even when ambient air temperatures drop as low as -25°C. As part of the FUSION-TW hybrid water heater, hot water is preheated to a consistent 50°C, increasing system efficiency without compromising reliability or performance.

This reduces energy demands, operating costs and provides up to 47.8% carbon emission savings when compared to an equivalent direct electric-only system.



Features

- Specified as an integral element of the Fusion system, ADV-W / ADVS-W ASHPs rapidly achieve and then sustain the desired temperature to preheat water for commercial applications
- Able to achieve above-average COP, the highly efficient ADV-W heat pumps are one of the lowest cost ways to effectively provide hot water to a building
- Choose from 16, 22 or 30 kW three-phase ADV-W ASHP, or 10, 12 and 16 kW single -phase ADVS-W ASHP
- Only a very small amount of electricity is required to operate the compressor
- Reduced environmental impact with improved efficiency from R-32 refrigerant
- Quick to install with minimal space requirements and virtually maintenance-free



10 / 16 kW

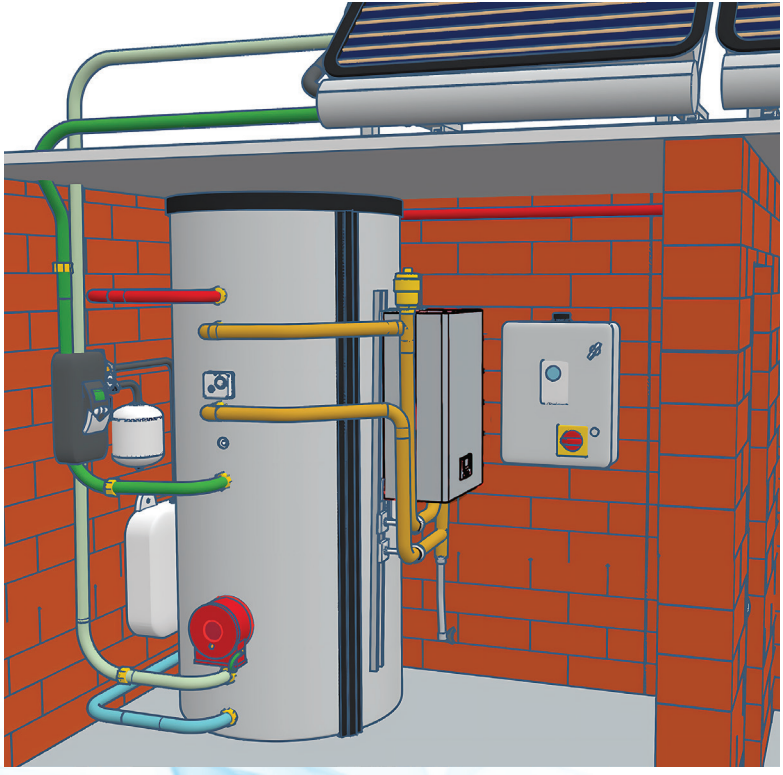
22 / 30 kW

www.adveco.co

FUSION + Solar Thermal

For organisations considering, but not ready to commit to a heat pump-based system, FUSION TW is available now with an option that delivers a twin-coil stainless steel tank and mounted ARDENT electric boiler and controls without the heat pump preheat. This iteration futureproofs the system or allows for solar thermal to be introduced into the lower coil as the system preheat.

With FUSION now supporting capacities up to 750 litres with 24 kW heat output, it is suitable for solar systems designed for small to medium-sized buildings. While solar thermal systems will typically be designed to evenly split capacity between the preheater and after heater, this single-cylinder FUSION scenario uses Adveco's smart controls to 'cheat' the system in favour of the solar thermal input. Adveco can deliver a 600-litre solar capacity application in a 750-litre tank for an extremely compact all-electric, low-carbon emission, solar water heating system with a minimal rooftop or façade footprint.







Features

- High-performance flat plate solar collectors supports mounting on most buildings
- Smaller footprint than PV for equivalent thermal generation
- Adveco designed drain back technology prevents over heat damage and extends lifespan of solar collectors
- Reduce energy demands for water heating by at least 30% & further reduce carbon emissions
- Smart control enhances solar capacity in the ATST cylinder for greater performance from a compact all-electric system



www.adveco.co

ATSI & ATST Stainless Steel Cylinders

The FUSION-E and -TW ranges make excellent use of the ATSI and ATST water heating vessels as a system calorifier. Compact and robust, these vessels are the perfect choice for projects with hot water demands based around sinks and basins. Multiple storey buildings are no issue for the tanks' high-pressure (10 bar) specification.

The entire FUSION range is avaialble in a choice of capacities including 300, 400, 500, 580 and 750 litres.

The FUSION-E and -Eplus ranges offers a choice of 300 to 750-litre capacity ATSIs. These vessels feature a single internal high-capacity fixed coil indirectly heated by the ARDENT electric boiler. ATSI supports the addition of a direct-electric immersion for the FUSION-Eplus models.

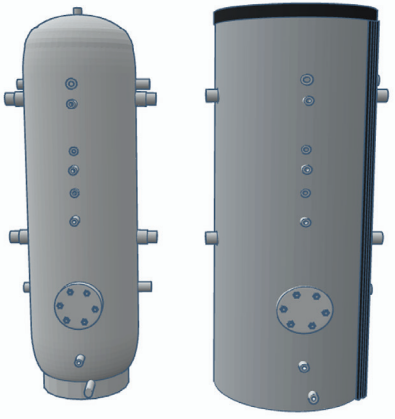
The FUSION-TW and -TWplus ranges offers a choice of 300 to 750-litre capacity ATST. These vessels feature twin internal fixed coils. The lower indirectly heated by the FPi32 ASHP, and the upper by the ARDENT electric boiler. The ATST also supports the addition of a direct-electric immersion for the FUSION-TWplus models.

For those wishing to futureproof a specification the FUSION-E systems can also be supplied with a twin-coil ATST cylinder as an alternative to the ATSI. Prebuilt pipework provides connection for the electric boiler to the lower coil in this case. The addition of a heat pump later can therefore be supported with a new pipework kit and controls upgrading the system to a FUSION-TW specification.



Features

- Available from 300 to 750 litre capacities
- Produced from high-quality 316Ti and 316L stainless steel
- 100 mm removable insulation for improved energy efficiency
- Suitable for vented or unvented installation
- 10 bar / 95°C max. working pressure/temp (tank)
- 25 bar / 200°C max. working pressure/temp (coil/s)
- Integrated mounting points on left and right
- Front facing connections for ease of installation and maintenance



The Resilient Choice

Fusing either an ATSI or ATST stainless steel vessel with the ARDENT electric boiler an optional ADV-W ASHP and electric immersions makes FUSION one of the most resilient options for commercial water heating projects on the market.

FUSION is less susceptible to corrosion experienced in naturally soft water conditions. The high-quality 316Ti and 316L stainless steel alloy create a protective oxide barrier on the waterside that naturally helps prevent corrosion, even when temperatures increase. In hard water areas, scale build-up is highly curtailed by the use of the ARDENT boiler for primary indirect heating. Able to withstand higher temperature water (in excess of 80°C) FUSION lends itself to a wide mix of commercial applications making it the ideal choice for projects in the UK, no matter the water quality.

FUSION Control

The design of efficient hybrid systems depends on harmoniously balancing the different elements to ensure that they do not work against each other. If the coil and immersion are situated closely together they become impossible to accurately control and system efficiency would be lost. FUSION, through a mix of innovative design and dedicated controls ensures the ASHP preheat and immersion work seamlessly to deliver the highest operational efficiencies.



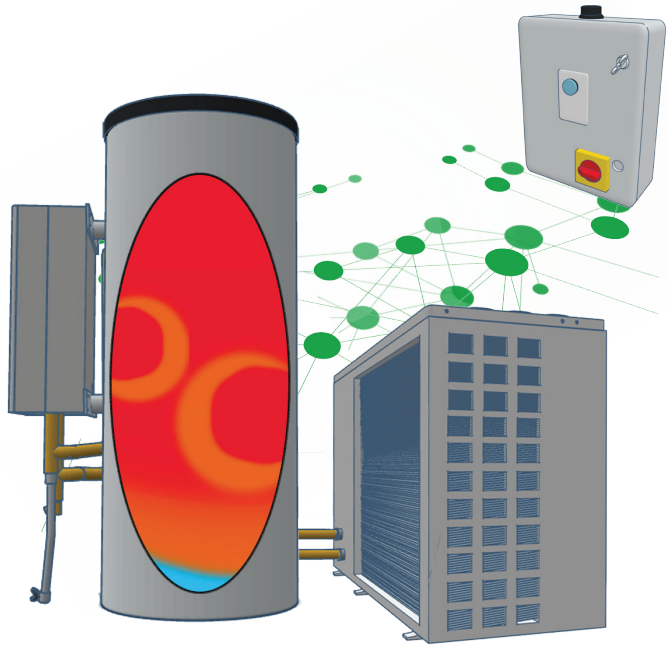
FUSION's ehnanced controls incorporate a set of submetering options to monitor the heat pump, immersion and water flow. This provides clear sight of energy and water usage to better manage day-to-day operations. Timer controls and remote control via BMS ensure FUSION is only operating when required, maximising energy demands.

For FUSION-TWplus and FUSION-Eplus variants additional controls manage emergency switch over to electric immersion heating. Building managers will receive a text alert to warn that the system has switched over to back-up mode.

Features

- On/Off functionality via time clock or BMS
- Fault output
- Thermal disinfection and high-temperature pasteurisation functions monitored when active via BMS for Legionella prevention
- Option to prevent immersion activation should ASHP go into fault to li it current
- Day & weekly timer
- Submetering
- connectins to LLH pump, lighting, socket, heater bar, secondary return pump and de-stratification pump output
- Rugged IP55 case
- GSM messaging (FUSIONplus models)

FUSION's compact controls and submetering smartly balance pre-heat provided by the ADV-W ASHP with the direct electric top-up from the ARDENT electric boiler to optimise efficiencies, reducing energy demands and delivering considerable carbon emission reduction.

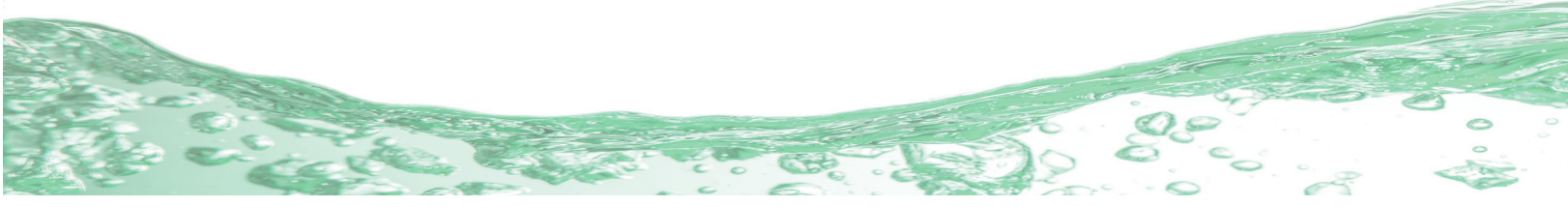


www.adveco.co

FUSION-E Specifications

Model	Tank	ASHP Model	ARDENT Boiler Model	Backup Immersion	ASHP Rating (kW)	Boiler Rating (kW)	Nominal Power Output (kW)	Continuous Flow Rate (L/h)	Instantaneous Draw Off Capacity (L)	Emissions Savings vs. Direct Electric	Emissions Savings vs. Gas
FE 300-9	ATSI 300	n/a	P9	n/a	n/a	9	9	154.3	289	0.00%	38.50%
FE 300-12	ATSI 300	n/a	P12	n/a	n/a	12	12	205.7	289	0.00%	38.50%
FE 300-24	ATSI 300	n/a	P24	n/a	n/a	24.3	24	416.6	289	0.00%	38.50%
FE 400-9	ATSI 400	n/a	P9	n/a	n/a	9	9	154.3	411	0.00%	38.50%
FE 400-12	ATSI 400	n/a	P12	n/a	n/a	12	12	205.7	411	0.00%	38.50%
FE 400-24	ATSI 400	n/a	P24	n/a	n/a	24.3	24	416.6	411	0.00%	38.50%
FE 500-9	ATSI 500	n/a	P9	n/a	n/a	9	9	154.3	490	0.00%	38.50%
FE 500-12	ATSI 500	n/a	P12	n/a	n/a	12	12	205.7	490	0.00%	38.50%
FE 500-24	ATSI 500	n/a	P24	n/a	n/a	24.3	24	416.6	490	0.00%	38.50%
FE 580-9	ATSI 580	n/a	P9	n/a	n/a	9	9	154.3	575	0.00%	38.50%
FE 580-12	ATSI 580	n/a	P12	n/a	n/a	12	12	205.7	575	0.00%	38.50%
FE 580-24	ATSI 580	n/a	P24	n/a	n/a	24.3	24	416.6	575	0.00%	38.50%
FE 750-9	ATSI 750	n/a	P9	n/a	n/a	9	9	154.3	756	0.00%	38.50%
FE 750-12	ATSI 750	n/a	P12	n/a	n/a	12	12	205.7	756	0.00%	38.50%
FE 750-24	ATSI 750	n/a	P24	n/a	n/a	24.3	24	416.6	756	0.00%	38.50%

**Carbon emission savings calculated versus equivalent-sized and specified systems using only gas or direct electric energy without ASHP preheat*



FUSION-Eplus Specifications

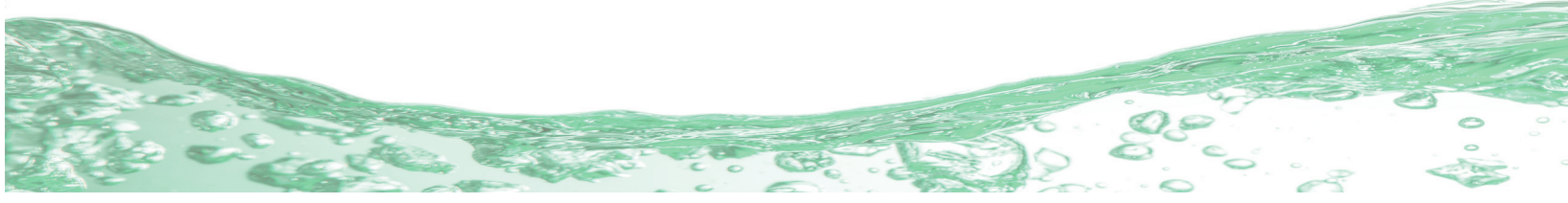
Model	Tank	ASHP Model	ARDENT Boiler Model	Backup Immersion	ASHP Rating (kW)	Boiler Rating (kW)	Nominal Power Output (kW)	Continuous Flow Rate (L/h)	Instantaneous Draw Off Capacity (L)	Emissions Savings vs. Direct Electric	Emissions Savings vs. Gas
FEplus 300-9	ATSI 300	n/a	P9	6kW	n/a	9	9	154.3	289	0.00%	38.50%
FEplus300-12	ATSI 300	n/a	P12	6kW	n/a	12	12	205.7	289	0.00%	38.50%
FEplus 300-24	ATSI 300	n/a	P24	12kW	n/a	24.3	24	416.6	289	0.00%	38.50%
FEplus 400-9	ATSI 400	n/a	P9	6kW	n/a	9	9	154.3	411	0.00%	38.50%
FEplus 400-12	ATSI 400	n/a	P12	6kW	n/a	12	12	205.7	411	0.00%	38.50%
FEplus 400-24	ATSI 400	n/a	P24	12kW	n/a	24.3	24	416.6	411	0.00%	38.50%
FEplus 500-9	ATSI 500	n/a	P9	6kW	n/a	9	9	154.3	490	0.00%	38.50%
FEplus 500-12	ATSI 500	n/a	P12	6kW	n/a	12	12	205.7	490	0.00%	38.50%
FEplus 500-24	ATSI 500	n/a	P24	12kW	n/a	24.3	24	416.6	490	0.00%	38.50%
FEplus 580-9	ATSI 580	n/a	P9	6kW	n/a	9	9	154.3	575	0.00%	38.50%
FEplus 580-12	ATSI 580	n/a	P12	6kW	n/a	12	12	205.7	575	0.00%	38.50%
FEplus 580-24	ATSI 580	n/a	P24	12kW	n/a	24.3	24	416.6	575	0.00%	38.50%
FEplus 750-9	ATSI 750	n/a	P9	6kW	n/a	9	9	154.3	756	0.00%	38.50%
FEplus 750-12	ATSI 750	n/a	P12	6kW	n/a	12	12	205.7	756	0.00%	38.50%
FEplus 750-24	ATSI 750	n/a	P24	12kW	n/a	24.3	24	416.6	756	0.00%	38.50%



FUSION-TW Specifications

Model	Tank	ASHP Model	ARDENT Boiler Model	Backup Immersion	ASHP Rating (kW)	Boiler Rating (kW)	Nominal Power Output (kW)	Continuous Flow Rate (L/h)	Instantaneous Draw Off Capacity (L)	Peak Draw Off	Emissions Savings vs. Direct Eelectric	Emissions Savings vs. Gas
FTW300-19	ATST 300	ADVS10W	P9	n/a	9.85	9	19	323.14	130	289 litres in 25 mins	37.20%	61.36%
FTW300-22	ATST 300	ADVS12W	P9	n/a	12.82	9	22	374.04	130	289 litres in 25 mins	41.72%	64.15%
FTW400-22	ATST 400	ADVS10W	P12	n/a	9.85	12	22	374.57	182	411 litres in 27 mins	32.09%	58.22%
FTW400-25	ATST 400	ADVS12W	P12	n/a	12.82	12	25	425.47	182	411 litres in 27 mins	36.68%	61.04%
FTW400-26	ATST 400	ADV16W	P12	n/a	14.47	12	26	453.70	182	411 litres in 27 mins	38.63%	62.24%
FTW400-35	ATST 400	ADV22W	P12	n/a	22.81	12	35	596.74	182	411 litres in 27 mins	45.18%	66.27%
FTW500-22	ATST 500	ADVS12W	P9	n/a	12.82	9	22	374.04	217	490 litres in 43 mins	41.72%	64.15%
FTW580-22	ATST 580	ADVS10W	P12	n/a	9.85	12	22	374.57	225	575 litres in 41 mins	32.09%	58.22%
FTW580-26	ATST 580	ADV16W	P12	n/a	14.47	12	26	453.70	225	575 litres in 41 mins	38.63%	62.24%
FTW580-35	ATST 580	ADV22W	P12	n/a	22.81	12	35	596.74	225	575 litres in 41 mins	45.18%	66.27%
FTW580-40	ATST 580	ADV30W	P12	n/a	28.09	12	40	687.26	225	575 litres in 41 mins	47.75%	67.86%
FTW750-23	ATST 750	ADVS16W	P9	n/a	14.47	9	23	402.28	315.0	756 litres in 69 mins	43.57%	65.28%
FTW750-25	ATST 750	ADVS12W	P12	n/a	12.82	12	25	425.47	315.0	756 litres in 52 mins	36.68%	61.04%
FTW750-35	ATST 750	ADV22W	P12	n/a	22.81	12	35	596.74	315.0	756 litres in 52 mins	45.18%	66.27%
FTW750-39	ATST 750	ADV16W	P24	n/a	14.47	24.3	39	664.56	315.0	756 litres in 40 mins	26.37%	54.70%
FTW750-40	ATST 750	ADV30W	P12	n/a	28.09	12	40	687.26	315.0	756 litres in 52 mins	47.75%	67.86%
FTW750-47	ATST 750	ADV22W	P24	n/a	22.81	24.3	47	807.60	315.0	756 litres in 40 mins	33.38%	59.01%
FTW750-52	ATST 750	ADV30W	P24	n/a	28.09	23.5	52	883.59	315.0	756 litres in 40 mins	37.14%	61.33%

**Carbon emission savings calculated versus equivalent-sized and specified systems using only gas or direct electric energy without ASHP preheat*

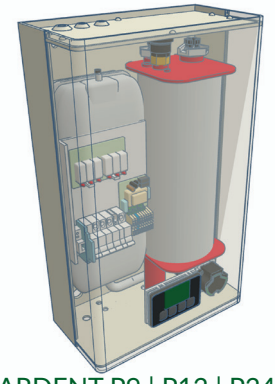


FUSION-TWplus Specifications

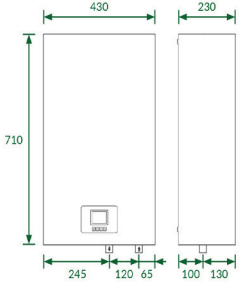
Model	Tank	ASHP Model	ARDENT Boiler Model	Backup Immersion	ASHP Rating (kW)	Boiler Rating (kW)	Nominal Power Output (kW)	Continuous Flow Rate (L/h)	Instantaneous Draw Off Capacity (L)	Peak Draw Off	Emissions Savings vs. Direct Electric	Emissions Savings vs. Gas
FTW300-19	ATST 300	ADVS10W	P9	6kW	9.85	9	19	323.14	130	289 litres in 25 mins	37.20%	61.36%
FTW300-22	ATST 300	ADVS12W	P9	6kW	12.82	9	22	374.04	130	289 litres in 25 mins	41.72%	64.15%
FTW400-22	ATST 400	ADVS10W	P12	6kW	9.85	12	22	374.57	182	411 litres in 27 mins	32.09%	58.22%
FTW400-25	ATST 400	ADVS12W	P12	6kW	12.82	12	25	425.47	182	411 litres in 27 mins	36.68%	61.04%
FTW400-26	ATST 400	ADV16W	P12	6kW	14.47	12	26	453.70	182	411 litres in 27 mins	38.63%	62.24%
FTW400-35	ATST 400	ADV22W	P12	6kW	22.81	12	35	596.74	182	411 litres in 27 mins	45.18%	66.27%
FTW500-22	ATST 500	ADVS12W	P9	6kW	12.82	9	22	374.04	217	490 litres in 43 mins	41.72%	64.15%
FTW580-22	ATST 580	ADVS10W	P12	6kW	9.85	12	22	374.57	225	575 litres in 41 mins	32.09%	58.22%
FTW580-26	ATST 580	ADV16W	P12	6kW	14.47	12	26	453.70	225	575 litres in 41 mins	38.63%	62.24%
FTW580-35	ATST 580	ADV22W	P12	6kW	22.81	12	35	596.74	225	575 litres in 41 mins	45.18%	66.27%
FTW580-40	ATST 580	ADV30W	P12	6kW	28.09	12	40	687.26	225	575 litres in 41 mins	47.75%	67.86%
FTW750-23	ATST 750	ADVS16W	P9	6kW	14.47	9	23	402.28	315.0	756 litres in 69 mins	43.57%	65.28%
FTW750-25	ATST 750	ADVS12W	P12	6kW	12.82	12	25	425.47	315.0	756 litres in 52 mins	36.68%	61.04%
FTW750-35	ATST 750	ADV22W	P12	6kW	22.81	12	35	596.74	315.0	756 litres in 52 mins	45.18%	66.27%
FTW750-39	ATST 750	ADV16W	P24	12kW	14.47	24.3	39	664.56	315.0	756 litres in 40 mins	26.37%	54.70%
FTW750-40	ATST 750	ADV30W	P12	6kW	28.09	12	40	687.26	315.0	756 litres in 52 mins	47.75%	67.86%
FTW750-47	ATST 750	ADV22W	P24	12kW	22.81	24.3	47	807.60	315.0	756 litres in 40 mins	33.38%	59.01%
FTW750-52	ATST 750	ADV30W	P24	12kW	28.09	23.5	52	883.59	315.0	756 litres in 40 mins	37.14%	61.33%

FUSION Specifications - ARDENT Electric Boiler

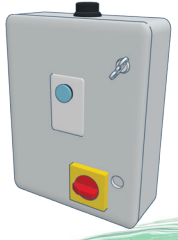
Ardent Premium: Technical Specifications	P9	P12	P24
Power output at nominal resistance	At 240V / 400V: 9.0 kW At 440V: 10.9 kW	12.0 (at 440V) 14.5 (at 400V)	24.3 (at 440V) 29.4 (at 400V)
Element configuration	6 × 1.5	6 × 2.0	9 × 2.7
Element nominal resistance	35.3Ω ±10%	26.5Ω ±10%	19.6Ω ±10%
Heating element efficiency	100%	100%	100%
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) at nominal resistance	At 240V 1ph: 39.1 A At 440V 3ph: 14.3 A	At 400V: 17.4 A At 440V: 19.1 A	At 400V: 35.2 A At 440V: 38.7 A
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
Empty weight (kg)	25	25	25



ARDENT P9 | P12 | P24



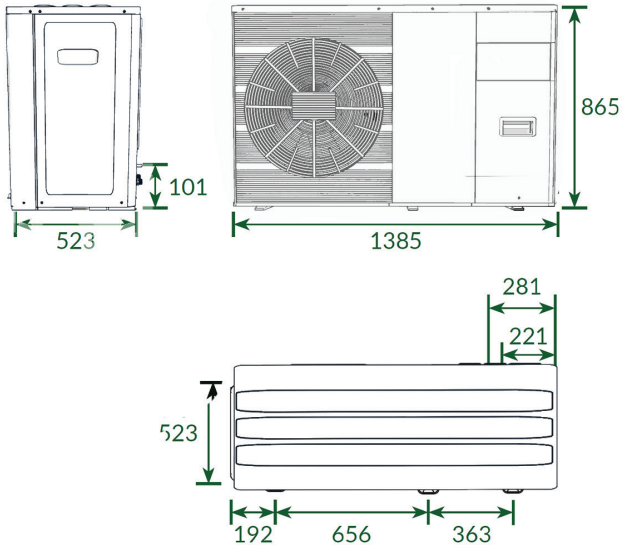
Controls Box Specification	Units	
Dimensions HxWxD	mm	500x400x210



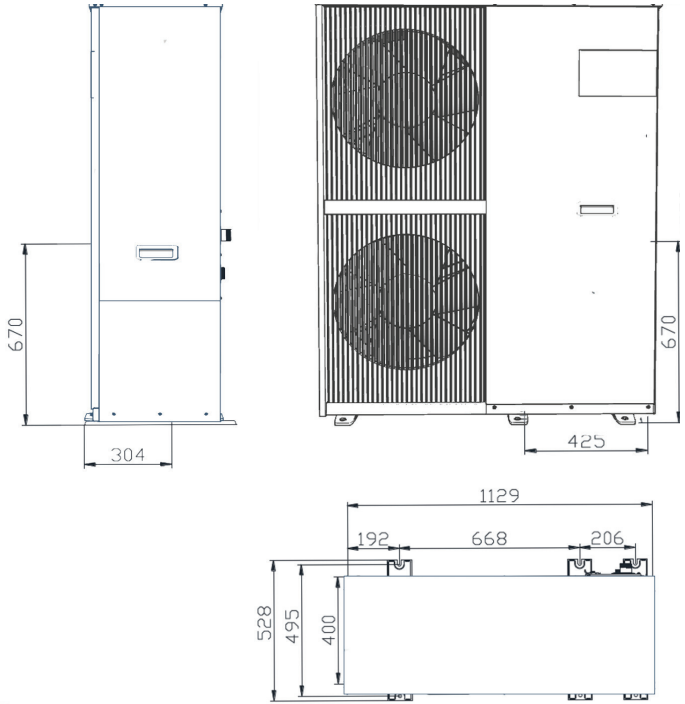
ARDENT P9 | P12 | P24

FUSION Specifications - ADV-W / ADVS-W Dimensions

ADV-W 16 | ADVS-W 10/12/16



ADV-W 22/30



FUSION Specifications - ADV-W 16/22/30 Three Phase

Technical Specifications		ADV16W	ADV22W	ADV30W
Heating Performance Water Outlet Temperature: 35°C Ambient Temperature: 7°	Heating capacity (kW)	15.90	22.00	30.10
	Rated input (W)	3.53	5.00	7.69
	COP	4.50	4.40	3.91
	SCOP Average climate conditions	4.62	4.53	4.19
	Seasonal Space Heating Energy Efficiency Class	A+++	A+++	A++
Heating Performance Water Outlet Temperature: 55°C Ambient Temperature: 7°	Heating capacity (kW)	16.00	22.00	30.00
	Rated input (W)	5.61	8.30	13.04
	COP	2.85	2.65	2.3
	SCOP Average climate conditions	3.41	3.22	3.14
	Seasonal Space Heating Energy Efficiency Class	A++	A++	A+
Power Supply / Full Load	Amps (A)	27	28	28
Sound Level	Sound Pressure @1m (dB(A))	58.0	59.8	63.5
Dimensions	Appliance (mm)	1385 x 865 x526	1129 x 1558 x 528	1129 x 1558 x 528

FUSION Specifications - ADVS-W Single Phase

Technical Specifications		ADVS10W	ADVS12W	ADVS16W
Heating Performance Water Outlet Temperature: 35°C Ambient Temperature: 7°	Heating capacity (kW)	10.0	12.1	15.9
	Rated input (W)	2.02	2.44	3.53
	COP	4.95	4.95	3.50
	SCOP Average climate conditions	5.20	4.81	4.62
	Seasonal Space Heating Energy Efficiency Class	A+++	A+++	A+++
Heating Performance Water Outlet Temperature: 55°C Ambient Temperature: 7°	Heating capacity (kW)	9.50	13.80	16.00
	Rated input (W)	3.06	4.68	5.61
	COP	3.10	2.95	2.85
	SCOP Average climate conditions	3.47	3.45	3.41
	Seasonal Space Heating Energy Efficiency Class	A++	A++	A++
Power Supply / Full Load	Amps (A)	19	30	30
Sound Level	Sound Pressure @1m (dB(A))	51	53	58
Dimensions	Appliance (mm)	1385 x 865 x526	1385 x 865 x526	1385 x 865 x526

ATSI Hot Water Cylinder

ATSI Range Specifications

Description		300	400
Volume (l)		289	411
Energy efficiency class		B	B
Standing losses	W	63	72
Coil surface area (m^2)		1.4	1.7
Output capacity (80/60:10/60) (kW)		29.7	36.1
DHW flow rate (80/60:10/60) (l/h)		509.7	619.5
DHW Peak draw off capacity (l)	30 min. 60 min. 120 min.	444 702 1208	587 901 1516

ATSI Range Dimensions

Description	300	400
Height including insulation (mm)	1740	1735
Outer diameter Including insulation (mm)	Ø700	Ø800
Inner diameter (mm)	Ø500	Ø600
Dry Mass (kg)	68	40

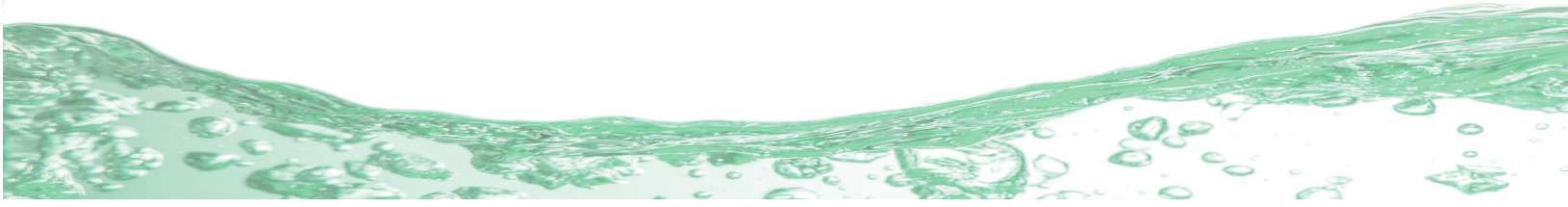
ATST Hot Water Cylinder

ATST Range Specifications

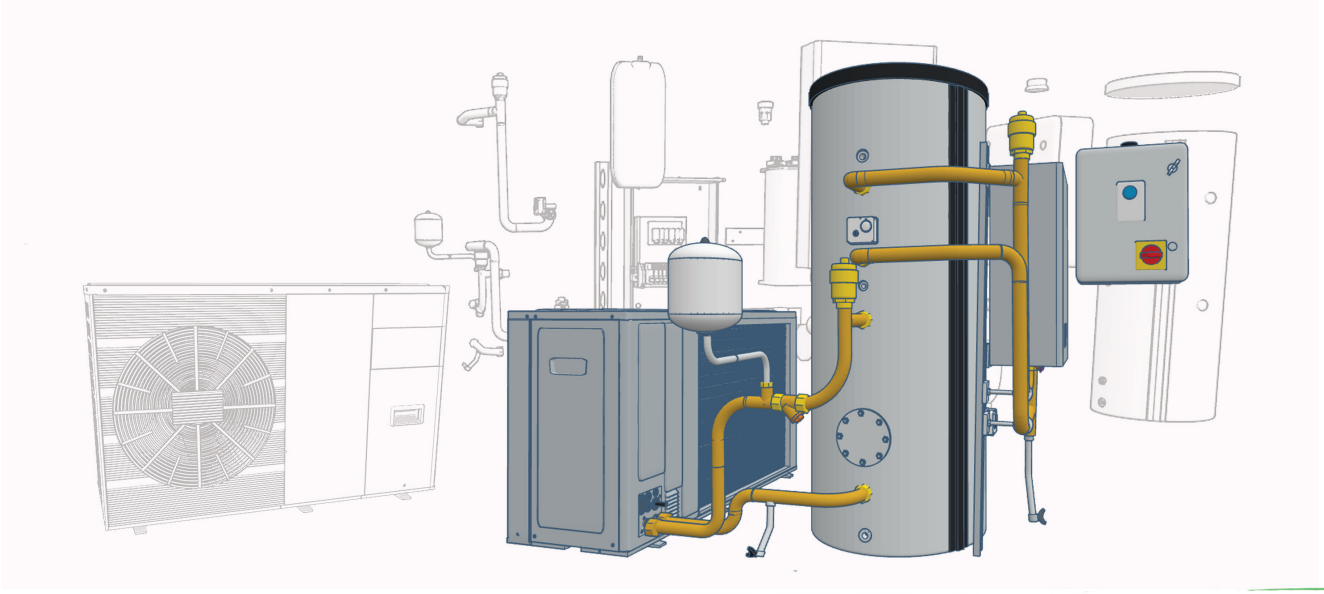
Description		300	400	500
Volume (l)		289	411	490
Energy efficiency class		B	B	B
Standing losses	W	71	76	83
Coil surface area (m^2)	Lower coil Upper coil	1.4 0.8	1.7 0.9	1.7 0.9
Output capacity (kW) (80/60:10/60)	Lower coil Upper coil	29.7 17.0	36.1 19.1	36.1 19.1
Continuous DHW flow rate (80/60:10/60) (l/h)	Upper coil Combined coils	291.7 801.4	327.8 947.2	327.8 947.2
DHW Peak draw off capacity (l) Combined coils	30 min. 60 min. 120 min.	565 971 1767	723 1203 2144	787 1266 2208

ATST Range Dimensions

Description	300	400	500
Height including insulation (mm)	1740	1735	1990
Outer diameter Including insulation (mm)	Ø700	Ø800	Ø800
Inner diameter (mm)	Ø500	Ø600	Ø600
Dry mass (kg)	76	94	105



Making Complex Commercial Hot Water Systems Easy



ADVECO FUSION

ADVECO
HOT WATER SPECIALISTS



FUSION

T | 01252 551 540 E | enquiries@adveco.co

Adveco Ltd. Unit 7 & 8 Armstrong Mall,
Southwood Business Park, Farnborough, Hampshire
GU14 0NR

ADVECO FUSION PACKAGED ELECTRIC WATER HEATER PRODUCT GUIDE SR60024.8

www.adveco.co

© Adveco Ltd. 2026 Company Reg : 09493966