

# DISCOVER THE ACV PRODUCT RANGE



Gas fired  
boilers



Electric  
boilers



Water heaters  
& cylinders

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## WHO ARE WE?

ACV has been designing, manufacturing and distributing heating and hot water products for commercial and residential applications since 1922.

In the UK, we formed in 1991, providing and servicing the range of commercial hot water and heating products to the UK and ROI. Based in Dalgety Bay, Scotland, we supply and support ACV products across the country.

Specialists in stainless steel and home of the patented tank-in-tank concept, we've been developing and manufacturing our range of unique high performance heating and hot water products for over 100 years.

## WHAT MAKES OUR PRODUCTS DIFFERENT?

### Stainless steel

This material, which resists corrosion in the most aggressive water, has given our products an exceptional service lifetime with minimal maintenance.

### Tank-in-tank

The patented tank within a tank design is a simple and effective concept that gives you a reliable DHW performance to match the largest of hot water demands.

### Electric

Prepare for a carbon free future with electric. Low carbon electric solutions for domestic and commercial projects.

### Excellence in hot water

Whilst heating requirements have decreased over the years, the demands of modern life have increased the need for a reliable but at the same time economical and environmentally friendly hot water supply.

Our mission is to use our experience to give you the best technology for generating the hot water you need.

Our motto 'Excellence in hot water' reflects the ambition of our team and partners to fulfil our mission and meet your expectations.

All our hot water products are KIWA approved demonstrating our compliance with UK Water Regulation 4 of the Water Supply (Water Fittings) Regulations 1999.



# CONDENSING WATER HEATER

## WATERMASTER 25 - 120 EVO

Direct gas fired condensing water heater.

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### Features

- > Can deliver large peak and continuous volumes of hot water
- > Integrated legionella protection
- > Small footprint allows installation in tight plant rooms
- > Low maintenance with no anode protection required
- > Corrosion-resistant stainless steel heat exchanger and tank reduces maintenance and increases system lifespan
- > Compatible for use with LPG and natural gas
- > 2022 Part L compliant



Dimensions			
Water Heater	Height (mm)	Width (mm)	Depth (mm)
25 - 45kW	1780	600	708
70 - 120kW	2170	690	787

WaterMaster Evo				
*All WaterMaster Evos are supplied with a robokit				
Model	Max Input (kW)	Continuous Flow (60°C, l/h)	Flue Size	Product Code
WM25 Evo	27.8	473	80/125	XB660001
WM35 Evo	38.9	662	80/125	XB660002
WM45 Evo	50	820	80/125	XB660003
WM70 Evo	77.7	1252	100/150	XB660004
WM85 Evo	95.4	1520	100/150	XB660005
WM120 Evo	127.8	1754	100/150	XB660006

# COMBINED HEATING & HOT WATER

## HEATMASTER 25C EVO

Combined gas fired condensing boiler & water heater with stainless steel heat exchanger.

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PRODUCT  
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### Features

- > Heating and hot water from one unit saves space, reduces energy use and speeds up installation
- > Low maintenance with no anode protection required
- > Suited to smaller premises and lower flow rate requirements (smaller DHW tank than 25TC)
- > Corrosion-resistant stainless steel heat exchanger and tank reduces maintenance and increases system lifespan
- > Supplied with LPG kit for on-site conversion
- > Integrated legionella protection
- > 2022 Part L compliant



5 year warranty



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
25C Evo	1780	600	708

HeatMaster Evo C/TC				
Model	Boiler Output (80/60)	Continuous Flow (60°C, l/h)	Flue Size	Product Code
HM25C Evo	24.3kW	400	80/125	XB550000

\*HM25C includes Systempak unvented kit and mixing valve

## HEATMASTER® 25TC - 120TC EVO

Combined gas fired condensing boiler & water heater with stainless steel heat exchanger.

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PRODUCT  
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### Features

- > Heating and hot water from one unit saves space, reduces energy use and speeds up installation
- > Operates in most efficient mode (condensing) for both heating and hot water
- > Integrated legionella protection
- > Corrosion-resistant stainless steel heat exchanger and tank reduces maintenance and increases system lifespan
- > Suited to high demand and critical hot water premises such as hotels and hospitals
- > Supplied with LPG kit for simple on-site conversion
- > 2022 Part L compliant



5 year warranty



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
HM25TC - 45TC	1780	600	708
HM70TC - 120TC	2170	690	787

HeatMaster Evo C/TC				
Model	Boiler Output (80/60)	Continuous Flow (60°C, l/h)	Flue Size	Product Code
HM25TC Evo	24.3kW	473	80/125	XB550001
HM35TC Evo	34.1kW	662	80/125	XB550002
HM45TC Evo	44.1kW	820	80/125	XB550003
HM70TC Evo	68kW	1252	100/150	XB550004
HM85TC Evo	82.9kW	1520	100/150	XB550005
HM120TC Evo	111.7kW	1754	100/150	XB550006

# WALL HUNG CONDENSING BOILERS

## EVO S

Condensing boiler with stainless steel heat exchanger technology.

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### Features

- > Stainless steel heat exchanger
- > NOx class 6 for all models
- > 5:1 turndown
- > New compact design
- > Integrated non-return valve on flue
- > 6 bar max operating pressure (80kW and above)
- > Increased cascade capability - able to go up to 6 wide (exceptions apply)
- > Full suite of cascade accessories available
- > 2022 Part L compliant

5

5 year warranty

EVO S				
Model	Boiler Output (80/60) (kW)	Boiler Output (50/30) (kW)	Flue Size	Product Code
40kW	38.8	42.3	80/125	100008264200
60kW	53.5	58.1	80/125	100008264300
70kW	67.8	73.7	80/125	100008265900
80kW	77.8	84.4	100/150	100008264400
100kW	93.4	101.3	100/150	100008264500
120kW	116.8	127.8	100/150	100008264600
150kW	141.1	154.5	100/150	100008264700



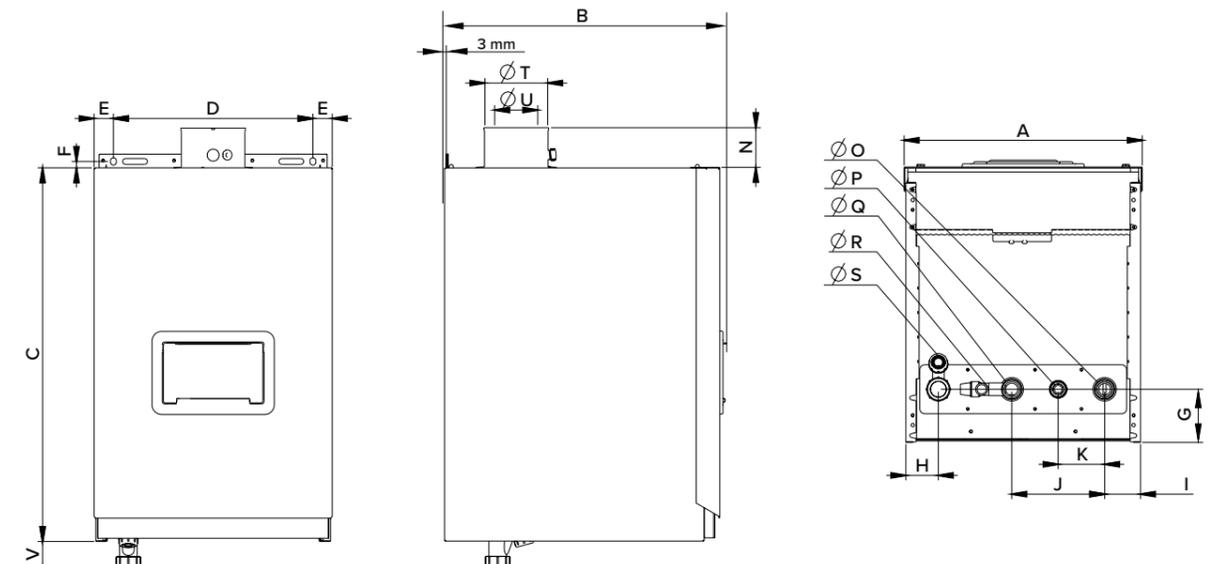
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### DOWNLOAD OUR EVO S PRODUCT AND FLUE GUIDE

With full information on the cascade options which go up to 900kW

### Dimensions and Clearances

Boiler	Dimension A	Dimension B	Dimension C	Dimension D
40 - 70kW	487mm	577mm	764mm	408mm
80 - 150kW	487mm	668mm	895mm	408mm



The following minimum clearances must be maintained for operation and servicing:



**TOP**  
Between 145 and 450mm depending on flue system type



**FRONT**  
800mm



**SIDES**  
250mm clearance between end boiler and closest wall

## EVO S CASCADE



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### VISIT OUR CASCADE BUILDER TOOL

Select the products you need for your next project



# ELECTRIC BOILERS

## E-TECH W

Wall hung electric system boiler.

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### Features

- > Prepare for a carbon-free future with electric
- > Simple installation anywhere in the building due to no flues needed and quiet operation
- > Can provide dual temperature outputs for different circuits such as radiators and underfloor heating\*
- > Protection from electrical surges due to built-in 3 amp MCB
- > Integrated circulating pump for speed of installation
- > An economical alternative to LPG and Oil for off-grid locations
- > Compatible with different electrical system types
- > Available in 3 power output levels to match your demand



Electric boilers



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
E-Tech W	763	442	332

E-Tech W			
Model	Power Supply	kW Output (80/60)	Product Code
E-Tech W 09	Single Phase	8.4	A1002095
E-Tech W 15	Single Phase	14.4	A1002096
E-Tech W 09	Three Phase	8.4	A1002092
E-Tech W 15	Three Phase	14.4	A1002090
E-Tech W 22	Three Phase	21.6	A1002091
E-Tech W 28	Three Phase	28.8	A1002093
E-Tech W 36	Three Phase	36	A1002094

## E-TECH P

Floor standing, heat only electric boiler.

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### Features

- > Prepare for a carbon free future with electric
- > Quick installation with no flues required
- > Close load matching with four power stages controlled by stage delay timer
- > Robust stove enamelled casing
- > Easy to use controls interface – plug and play setup with pre-wired integrated control circuits
- > Low maintenance
- > Long life high grade incoloy 800 stainless steel heating element
- > An economical alternative to LPG and oil for off-grid locations
- > Ideal to be used as a temporary heat source or mobile heating
- > Suitable to connect to external storage cylinders to produce DHW



Electric boilers

Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
E-Tech P 57	1495	542	567
E-Tech P 115	1495	542	567
E-Tech P 144	1495	542	567
E-Tech P 201	1495	542	567
E-Tech P 259	1495	542	567

E -Tech P			
Model	Power Supply	kW Output (80/60)	Product Code
E-Tech P 57	Three Phase	57.6	00624201
E-Tech P 115	Three Phase	115.2	00624301
E-Tech P 144	Three Phase	144	00624401
E-Tech P 201	Three Phase	201.6	00624801
E-Tech P 259	Three Phase	259.2	00624501

A safety power cut-out MUST be installed for protection against overheating.

# E-TECH S

Floor standing electric combination boiler.

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## Features

- > Prepare for a carbon-free future with electric
- > Heating and hot water from unit saves space, money, and speeds up installation
- > Simple installation anywhere in the building due to no flues needed and quiet operation
- > Low maintenance (no annual landlord certification)
- > Can be used as a stand alone water heater
- > Low standing losses – boiler insulated with rigid polyurethane foam without CFC projected 70mm
- > Long life corrosion resistant stainless steel cylinder
- > An economical alternative to LPG and Oil for off-grid locations
- > Supplied with a Smartpak including a mixing valve



Electric boilers



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
E-Tech S 160	1342	590	728
E-Tech S 160	1342	590	728
E-Tech S 240	1818	590	728

E-Tech S					
All E-Tech S models come with a Smartpak 1 or 2 (E-Tech S 240) containing unvented accessories, a mixing valve and a zone valve.					
Model	Power Supply	kW Output (80/60)	Continuous Flow (40°C, l/h)	Unvented Kit	Product Code
E-Tech S 160	Single Phase	14.4	413	Smartpak 1	XB501600
E-Tech S 160	Three Phase	14.4	413	Smartpak 1	XB501601
E-Tech S 240	Three Phase	28.8	827	Smartpak 2	XB502400
Anti Vacuum Valve	Recommended for all installations				XB050039

# E-TECH M

Mobile electric boiler for heating and screed drying.

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## Features

- > 6 different power levels with automatic power detection system
- > Robust bull bar
- > Integrated 4.3" touch screen
- > 4 different screed drying programs, up to 60 days, easily created and saved
- > Data exportable to USB stick
- > Plug and play
- > Internal components easily accessible for maintenance or replacement
- > Heat exchanger with a accessible port for easy cleaning of the interior
- > Rear protection bar, sold with screws for mounting (optional)

Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
E-Tech M	1116	512	571

E-Tech M			
Boiler	Power Supply	kW Output (80/60)	Product Code
E-Tech M	Single & Three Phase	3-36kW	100005282300



Electric boilers

## Cables

Reference	100005282700	100005282800	100005283000	100005282700	100005282900	100005283100
Type	1 x 16A	1 x 32A	1 x 63A	3 x 16A	3 x 32A	3 x 63A
IP rating	IP44	IP44	IP44	IP44	IP44	IP44
Total Length	140cm	140cm	140cm	140cm	140cm	140cm
Type of Network	1x230Vac	1x230Vac	1x230Vac	3x400Vac (+N)	3x400Vac (+N)	3x400Vac (+N)
Maximum Nominal Total Power	3kW	6kW	12kW	9kW	18kW	36kW

## Accessories

Reference	100005282500
Description	Rear protection bumper
Sold with screws for installation	



# STAINLESS STEEL CYLINDERS

## SMART E 130 - 160

Stainless steel indirect cylinder for domestic hot water.

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### Features

- > Integrated legionella protection
- > Fits through a standard doorway for access to plant room
- > Supplied with 3kW immersion heater (6kW option available)
- > Suitable for unvented systems – supplied as a complete package with Smartpak 1 including 3.5 bar mains unvented kit
- > Maximise capacity of the cylinder with DHW mixing valve and 2 port valve supplied as standard

**5**  
5 year warranty



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
Smart E 130	1024	565	565
Smart E 160	1225	565	565

Smart E stainless steel indirect cylinder				
*All Smart E cylinders come with unvented accessories, a domestic mixing valve, a zone valve and a 3kW immersion.				
Model	Energy Efficiency Storage Class	Continuous Flow (60°C)	Unvented Kit	Product Code
SLE 130	B	320	Smartpak 1	XB301300
SLE 160	B	465	Smartpak 1	XB301600

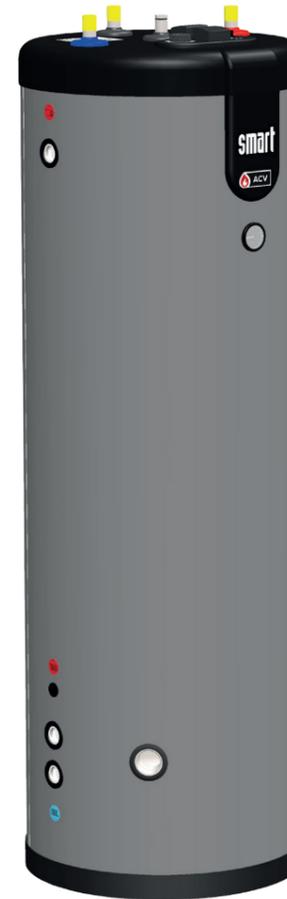
## SMART E PLUS 210 - 300

Stainless steel indirect cylinder with the addition of multiple ports for use with multi energy sources for domestic hot water.

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### Features

- > Integrated legionella protection
- > Suitable for unvented systems – supplied as a complete package with Smartpak 1 or 2 including 3.5 bar mains unvented kit
- > Maximise capacity of the cylinder with DHW mixing valve and 2 port valve supplied as standard
- > Supplied with 3kW immersion heater (6kW option available)

**5**  
5 year warranty



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
SLE+210	1489	565	565
SLE+240	1738	565	565
SLE+300	2050	565	565

Smart E Plus stainless steel indirect cylinder with additional ports				
*All Smart E Plus cylinders come with unvented accessories, a domestic mixing valve and a zone valve				
Model	Energy Efficiency Storage Class	Continuous Flow (60°C)	Unvented Kit	Product Code
SLE+ 210	B	576	Smartpak 1	XB302100
SLE+ 240	B	769	Smartpak 1	XB302400
SLE+ 300	B	970	Smartpak 2	XB303000

# SMART ME 200 - 800

Stainless steel indirect cylinder with additional coil for use with multi energy sources for domestic hot water.

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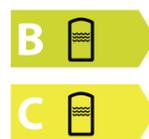


## Features

- > Ideal for use with renewable energy such as heat pumps, solar, heat recovery and in district heating schemes due to large primary store
- > Can provide dual temperature outputs for different circuits such as underfloor heating (low temperature) and DHW (high temperature)
- > Suitable for unvented systems – supplied as a complete package including 3.5 bar mains unvented kit\*
- > Maximise capacity of the cylinder with DHW mixing valve and 2 port valve supplied as standard\*
- > Supplied with 3kW immersion heater\* (6kW option available)

5

5 year warranty



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
SLME 200	1500	565	565
SLME 300	1610	675	675
SLME 400	1950	675	675
SLME 600	1890	910	910
SLME 800	2000	990	990

Smart ME stainless steel indirect cylinder with additional coil				
*Smart ME cylinders up to 600L come with unvented accessories, a domestic mixing valve and a zone valve. Accessories for the Smart ME 800 must be ordered separately.				
Model	Energy Efficiency Storage Class	Continuous Flow (60°C)	Unvented Kit	Product Code
SLME 200	B	450	Smartpak 1	XB312000
SLME 300	C	461	Smartpak 2	XB313000
SLME 400	C	614	Smartpak 2	XB314000
SLME 600	-	693	Smartpak 2	XB316000
SLME 800	-	1037	-	06625301

# SMART L 320 - 600

Stainless steel indirect cylinder for domestic hot water.

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## Features

- > Cost effective solution, simple installation with no de-stratification kit needed and no flue requirements
- > Low maintenance with no anode protection required
- > Low standing losses – cylinder comes with polyurethane foam insulation and hard-wearing polypropylene finish
- > Integrated legionella protection
- > Long life corrosion resistant stainless steel cylinder
- > Simplified wiring with 'plug and play' electrical connection
- > Suitable for vented or unvented systems (optional Systempak unvented kit required)
- > Smaller models (SL 320-420) fit through a standard doorway for ease of access to plant room

5

5 year warranty



Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
320	1602	673	673
420	2024	673	673
600	1901	817	817

Smart L Stainless steel indirect cylinder			
Unvented accessories must be purchased separately			
Model	Energy Efficiency Storage Class	Continuous Flow (60°C)	Product Code
SL320	C	1037	06618594
SL420	C	1153	06618694
SL600	-	1232	06619301

# HRS 800 - 1000

Stainless steel indirect cylinder  
for domestic hot water.



## Features

- > Fast heat up and recovery using the unique tank-in-tank design
- > Large heating surface area reduces boiler cycling
- > Integrated legionella protection
- > Suitable for vented or unvented systems (optional Systempak unvented kit required)
- > Cost effective solution, simple installation with no de-stratification kit needed and no flue requirements

5

5 year warranty

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Dimensions			
Boiler	Height (mm)	Width (mm)	Depth (mm)
HRs 800	1955	980	980
HRs 1000	2355	980	980

HRs Stainless steel indirect cylinder			
Model	Energy Efficiency Storage Class	Continuous Flow (60°C)	Product Code
HRs 800	-	1395	06633001
HRs 1000	-	1562	06633101

## CASE STUDY

### Glasgow School of Ballet Student Accommodation.

#### A history of working with ACV

Based in Glasgow, ECG Facilities Services have worked with ACV products for many years. Established in 1994, ECG Facilities Services are a nationwide provider of M&E Maintenance, repair, refurbishment and installation services to a diverse client base across many different sectors, inclusive of specialised Water Hygiene Services.

Robert concludes: "Being a local company to both ECG and ECG's clients site meant ECG had no reservations about turning to ACV. As always, the customer support we received was first class, from specifying a solution and helping us to correctly size the necessary components to suit our client's requirements, to unrivalled after care support"

#### Installation

The chosen system consists of an E-tech 36kW three-phase electric wall-hung boiler which provides the heat to a HR s 800 litre tank-in-tank stainless steel indirect cylinder.

The E-Tech W 36 Three Phase Electric boiler is a wall-hung electric sealed system that features a long-life high-grade incoloy 800 stainless steel heating element. It also provides protection from electrical surges due to built-in 3-amp MCB.

Simple and easy to install, all components are integrated into one unit (10 litre expansion tank, pressure gauge, safety valve, low water pressure switch, pump, and automatic air vent), making it a good match for use with external cylinders such as the stainless-steel indirect HR s 800 cylinder.

To undertake the upgrade, ECG Facilities Services also performed a complete change to the building's DHW system. Adapting from a direct feed system to a primary/secondary system, which is beneficial for larger installations. With longer pipe runs, less energy is now required to move water through the entire system which provides the building with an effective and efficient solution.

#### Benefiting from a reliable and efficient solution

The upgrade means that the building will now benefit from reduced costs and maintenance as the stainlesssteel tank requires no anode protection. As hot water is now stored at higher temperatures, above 60 degrees, thanks to tank-in-tank technology, scale build-up and the threat of legionella is also considerably reduced.

Eliminating the threat of a dangerous Carbon Monoxide leak, which is a risk in faulty gas boilers and a major consideration for student accommodation, an electric boiler is also less complex with fewer components compared to gas. As a result, the new system reduces the risk of failure, saving the client valuable time and money when it comes to servicing.

Completed within two weeks from design to limit disruption, the successful installation now means that students are benefitting from a more reliable and effective heating and hot water system which requires less maintenance and subsequent disruption. Furthermore, the school can now expect to see a reduction in energy costs and environmental impact



E-Tech W Three Phase wall-hung electric boilers provide a compact and simple installation solution

## TALK TO US TODAY

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## PRODUCT TRAINING

We have product training courses to suit all abilities and needs.

The product training covers our core product technologies:

- > Commercial Domestic Hot Water
- > Commercial Condensing Gas Boilers
- > Electric Boilers



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Or book by visiting our website here:  
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We also have **Lunch and Learn** sessions available across a number of different topics. Speak to your local Business Development Manager for more information.

# TRAINING AND SUPPORT



Here at ACV UK we understand installing a boiler and/or water heater represents a significant investment.

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We offer a range of services for our customers.

- > A library of sales literature and technical documentation
- > A series of training programmes covering all aspects of our business and products
- > Local technical support
- > Local assistance for more complex start-ups
- > Site surveys available on request



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