

**ideal**  
HEATING

# SOCIAL HOUSING BROCHURE

BUILDING PARTNERSHIPS SINCE 1906



[idealheating.com](http://idealheating.com)



# EXPERTS IN HEATING



Year round customer support



Flexible warranties available, 2 years as standard



British made since 1906

At Ideal Heating we believe in making things as easy as possible. That's why we combine ease of installation with high levels of quality and reliability. We rigorously test each and every one of our products with dozens of safety and reliability checks before they leave our Yorkshire based factory.

Our range of boilers has been awarded the Good Housekeeping reader recommended status five years in a row.

A BRAND OF **GROUPE ATLANTIC**  
UK, ROI & NORTH AMERICA DIVISIONS

Ideal Heating is part of Groupe Atlantic, a leader in heating across the globe. With an annual turnover of over €2bn, Groupe Atlantic comprises of 10,300 employees working in 28 industrial and 42 commercial sites on 4 continents – numbers that keep on growing.

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## WE BELIEVE IN INDUSTRY LEADING CUSTOMER SERVICE



At Ideal Heating, we are committed to delivering the highest level of customer service. With more than 100 years' experience in the heating industry, we know how important confidence and trust are to our customers.




With a range of tools to help you grow your business, Ideal is on hand to ensure you have the support you need. Our dedicated customer service department is available 364 days a year.



We also have a team of expert engineers, fully trained to exacting standards and Gas Safe registered, on hand to provide one-to-one advice on the road, over the phone or online ensuring you're fully supported, wherever and whenever you need.



 idealheatingLtd

Check out our YouTube channel for lots of helpful videos with hints and tips on your heating system.

## HERE WHEN YOU NEED US



### OPENING TIMES

#### MONDAY TO FRIDAY

08:00 – 18:00

#### SATURDAYS AND BANK HOLIDAYS

(EXCLUDING CHRISTMAS DAY)

08:00 – 16:00

#### SUNDAYS

08:00 – 12:00

### OUR CALL CENTRE

Trained staff will assist with enquiries or help diagnose and resolve faults over the telephone. If a resolution is not reached over the phone, an engineer visit will be arranged at a time convenient to you or your customers.



### OUR ENGINEERS

All Ideal Heating's engineers have expertise across our full range from boilers to air source heat pumps and are trained to the highest possible standards, including all being Gas Safe Registered.



### OUR SITE VISITS

We endeavour to make all visits within 1 day of receiving a call for boilers. On the day of the scheduled visit, the appointed engineer will telephone between 8am and 9am to confirm the time of their arrival.



### YOUR PEACE OF MIND

During the engineer's visit the engineer will fully explain any actions taken and in the event of any further work that needs to be done the team will keep you fully informed throughout. All letters and emails will be replied to within five working days.

# CONTRACTOR CONNECT

[contractor-connect.co.uk](http://contractor-connect.co.uk)

Register your boiler for building regulations compliance with Gas Safe Register for FREE with Contractor Connect. Get instant warranty certificates and earn great Contract Support rebates.



Immediate access to download all warranty and Gas Safe certification



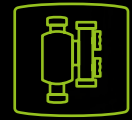
Gas Safe fee paid on behalf of the contractor



Ideal warranty registration and Gas Safe all in one easy process



Historic registrations at your fingertips



Registration of Heat Exchanger for 10 year warranty, if installed with an Ideal filter



Transmits data into sister portal for social client to access

# IDEAL PARTNERSHIP

[ideal-partnership.co.uk](http://ideal-partnership.co.uk)

View your Ideal boiler installations from one convenient place. CSR credits are available to support your local community each time you register your development.



Access to Heat Exchanger and Gas Safe certification



Running balance of CSR contributions



Immediate access to warranty certification to verify if units are still within warranty period



Overview of installing contractor



Historic portfolio of Ideal housing stock



View your Ideal boiler installations from one convenient place.

# IDEAL DESIGN SERVICE

[idealheating.com/social-housing/design-service](http://idealheating.com/social-housing/design-service)

As part of our design service, our in-house design team will find the right products for your development, design your heating system to achieve the necessary SAP ratings and finally deliver this to you as a fully detailed system plan.



## STEP 1

You raise an enquiry with us and complete our handy developer checklist. Download your checklist on our website or email [design.enquiries@idealheating.com](mailto:design.enquiries@idealheating.com)



## STEP 2

Simply send the completed form to design.enquiries@idealheating.com, along with plans, sections and elevations in the formats listed, and any other additional information mentioned in the checklist.



## STEP 3

We aim to respond to new enquiries within 20 working days. If you have a specific deadline in mind, please contact the Design Office at [design.enquiries@idealheating.com](mailto:design.enquiries@idealheating.com)



## STEP 4

When your designs are completed, we'll send them to you in PDF or DWG format.



## STEP 5

Our internal system is updated and records kept on file, just in case any revisions are required.



Partnered with Ideal our independent SAP Solution consultants Briary Energy can offer you a complete value-engineered solution to meet Building Regulations Compliance.

Our aim is to give you the most cost effective solution for your build, including building fabric, U-value calculations, thermal bridging, ventilation, heating and renewables.

As part of the Ideal Package, we will keep you up to date with the latest legislation helping you keep ahead of the game. We can even promise any question will be answered within 24 hours.



# SAP PCDB REFERENCE GUIDE

## NOx CLASS 6 & ERP

All Ideal domestic boilers are rated as NOx class 6, which came into effect in September 2018 and is mandatory under ErP 2018. All NOx levels quoted are based on Gross CV.

NOx levels are particularly important in the new build sector where BREEAM is used as best practice. BREEAM 2018 gives up to 2 credits for low NOx emissions from space heating:

≤ 27mg/kWh = 1 credit  
≤ 24mg/kWh = 2 credits

Note that these new NOx levels apply to new construction. The previous level of 36mg/kWh still applies to refurbishment and fitout.

SAP INDEX	BRAND NAME	MODEL NAME	NOx Emissions (mg/kWh)	NOx Class
<b>LOGIC COMBI ESP1</b>				
17955	Ideal Heating	Logic Combi ESP1 24	28	Class 6
17956	Ideal Heating	Logic Combi ESP1 30	25	Class 6
17929	Ideal Heating	Logic Combi ESP1 35	30	Class 6
<b>LOGIC HEAT H</b>				
18040	Ideal Heating	Logic Heat H12	10	Class 6
18041	Ideal Heating	Logic Heat H15	21	Class 6
18042	Ideal Heating	Logic Heat H18	24	Class 6
18043	Ideal Heating	Logic Heat H24	28	Class 6
18044	Ideal Heating	Logic Heat H30	24	Class 6
<b>LOGIC SYSTEM S</b>				
18045	Ideal Heating	Logic System S15	21	Class 6
18047	Ideal Heating	Logic System S18	24	Class 6
18049	Ideal Heating	Logic System S24	28	Class 6
18051	Ideal Heating	Logic System S30	26	Class 6
<b>LOGIC CODE COMBI ESP1</b>				
18121	Ideal Heating	Logic Code Combi ESP1 26	24	Class 6
18122	Ideal Heating	Logic Code Combi ESP1 33	25	Class 6
18123	Ideal Heating	Logic Code Combi ESP1 38	32	Class 6
<b>LPG MODELS (LPG Conversion Kit required)</b>				
18067	Ideal Heating	Logic Combi ESP1 30P	-	Class 6
18060	Ideal Heating	Logic Combi ESP1 35P	-	Class 6
18068	Ideal Heating	Logic Heat H24P	-	Class 6
18061	Ideal Heating	Logic Heat H30P	-	Class 6
18064	Ideal Heating	Logic System S30P	-	Class 6
18124	Ideal Heating	Logic Code Combi ESP1 33P	-	Class 6
18125	Ideal Heating	Logic Code Combi ESP1 38P	-	Class 6
<b>COMPENSATION CONTROLS</b>				
200065	Ideal Heating	Halo Lite Combi Programmable Room Thermostat		
200086	Ideal Heating	Halo Combi RF Programmable Room Thermostat		
200088	Ideal Heating	Halo Combi WiFi Programmable Room Thermostat		

SAP INDEX	MODEL NAME	Output	Refrig	Flow
<b>ALFEA EXTENSA A.I. R32</b>				
105359	Alfea Extensa A.I. R32	5	R32	≤55 c
105360				≤45 c
105361				≤35 c
105367	Alfea Extensa A.I. R32	6	R32	≤55 c
105368				≤45 c
105369				≤35 c
105375	Alfea Extensa A.I. R32	8	R32	≤55 c
105376				≤45 c
105377				≤35 c
105532	Alfea Extensa A.I. R32	10	R32	≤55 c
105533				≤45 c
105534				≤35 c
<b>ALFEA EXCELLIA A.I.</b>				
105474	Alfea Excellia A.I.	11	R410A	≤55 c
105475				≤45 c
105476				≤35 c
105482	Alfea Excellia A.I.	14	R410A	≤55 c
105483				≤45 c
105484				≤35 c
105490	Alfea Excellia A.I.	16 TRI	R410A	≤55 c
105491				≤45 c
105492				≤35 c



SCAN TO  
LEARN MORE

## WE BELIEVE IN PROVIDING FIRST CLASS TRAINING

### TRAINING OPTIONS



#### IN-PERSON

**Work face-to face with our Experts in Heating.**

Work on our leading range of products in-person, and complete our accreditation courses.



#### LIVE VIRTUAL

**Always live, presented by our Experts in Heating.**

Our live virtual training allows you to complete quality training online, without the travel time and costs. We use a fully equipped filming studio to provide high definition and detailed views. You can ask questions to our Experts throughout.



#### ON-DEMAND 24/7

**What you need, when and where you need it!**

Request a personal training account to access our comprehensive range of training products available to access 24/7. Designed to help you learn when suits you as well as providing on the job support.

We offer an industry leading range of training courses to help you become an expert in our products and keep on top of industry regulations. Helping you offer an exceptional service to your customers.

## OUR COURSES

We provide a range of product training courses across our domestic and product ranges free of charge.

We also offer wider installer industry training programmes from our accredited centres.

We continually update and expand our offer so please take a look at [idealheating.com/training](http://idealheating.com/training) for full course details and availability.



#### DOMESTIC PRODUCTS

- Vogue range
- Logic range
- Controls
- Accessories
- Alfea Heat Pump range



#### COMMERCIAL PRODUCTS

- Evomax 2
- Evo S
- Imax Xtra 2
- Imax Xtra EL
- Evomod
- Heat Interface Units



#### INDUSTRY TRAINING

- Unvented hot water
- Water regulations
- Essential electrics and safe isolation
- Heat pumps
- F-Gas
- System design

[idealheating.com/installers/training](http://idealheating.com/installers/training)

# LOGIC COMBI

## C24 C30 C35



Ready for 20% hydrogen blend



Flexible warranties available, 2 years as standard



Compact cupboard fit



Digital display



Frost protection



Add a weather compensation kit for greater efficiency



Easy to see pressure gauge



Opentherm ready



Flue variants



LPG conversion<sup>††</sup>



ErP compliant



NOx class 6

Available in a choice of three outputs of 24, 30 and 35 kW, the Logic Combi range of combination boilers from Ideal Heating, provides a hassle free and simple solution for today's social housing market.

Siting and installing a Logic Combi is hassle free thanks to a simple telescopic flue option.

Time saving fast fix flue turret connections and a wide range of alternative flueing solutions help to ensure the product is installed quickly and efficiently in virtually any domestic situation.

With a lightweight design, concealed connections at the base and no compartment

ventilation required, the Logic Combi can be conveniently fitted out of sight into a standard kitchen cupboard<sup>†</sup>.

The Logic Combi boiler provides simple heating and hot water control, all from a single compact appliance.

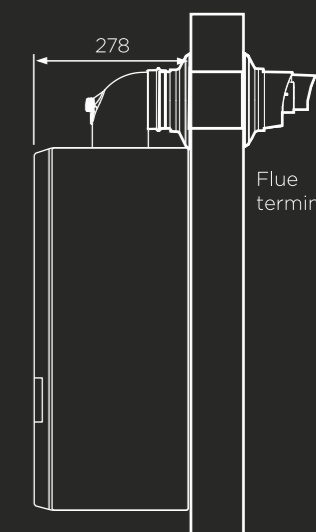
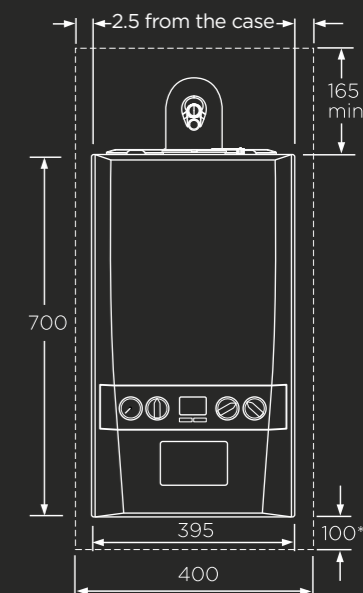
### AWARD WINNING BOILERS

Our boilers have been awarded Good Housekeeping Reader Recommended status five years in a row. For ease of use and low noise levels amongst other outstanding product details that left customers wanting to recommend Ideal Heating to their friends and families.



### CLEARANCES & DIMENSIONS

ALL DIMENSIONS IN MM



**Note:** The minimum front clearance when built into a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

<sup>†</sup>Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## Logic Combi fault codes

FAULT CODE	MEANING	RESOLUTION
<b>F1</b>	Low Water Pressure	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler still fails to operate please contact the social housing provider helpline.
<b>F2</b>	Flame Loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>F3</b>	Fan Fault	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F4 L4</b>	Flow Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F5 L5</b>	Return Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F6</b>	Outside Sensor Failure	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F7</b>	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
<b>F9 L9</b>	Unconfigured PCB	Unconfigured PCB. Please contact the social housing provider helpline.
<b>L1</b>	Flow Temperature Overheat or No Water Flow	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler fails to operate please contact the social housing provider helpline.
<b>L2</b>	Ignition Lockout	1. Check condensate Pipe for blockages (see to section 4 of installation guide). 2. Check other gas appliances in the house are working to confirm a supply is present in the property. 3. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>L6</b>	False Flame Lockout	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>LC</b>	5 Boiler Resets in 15 minutes	1. Turn electrical supply to boiler off and on. 2. If the boiler fails to operate please contact the social housing provider helpline.
<b>FA</b>	Negative Differential Flow/Return Thermistor	If the boiler fails to operate please contact the social housing provider helpline.
<b>FU</b>	Flow/Return Differential > 50°C	If the boiler fails to operate please contact the social housing provider helpline.
<b>dU</b>	Diverter Valve in midposition for service	Rotate all knobs fully clockwise, turn boiler power off and on then press restart.

## Logic Combi technical specification

BOILER MODEL	LOGIC COMBI			
	C24	C30	C35	
<b>SIZE</b>	Casing dimensions (h w d)(mm)			
	Height	700	700	700
	Width	395	395	395
	Depth	278	278	278
	Weight (packed) kg	33.7	33.8	33.9
	Max installation weight kg	28.9	29.0	29.1
<b>PERFORMANCE</b>	CH output (kW) min/max mean 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
	CH output (kW) min/max mean 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
	DHW output (kW) max	24.2	30.3	35.3
	DHW flow rate l/min. 35°C rise	9.9	12.4	14.5
	SEDBUK (2005) %	91.1	91.1	91.1
	SEDBUK (2009/2012) %	89.6	89.6	89.6
	NOx classification	CLASS 6	CLASS 6	CLASS 6
	Convert to LPG	No	Yes	Yes
<b>CONSTRUCTION</b>	Heat exchanger material	Cast aluminium-silicon alloy		
	Burner type	Downward firing pre-mix		
	Fully modulating	Yes	Yes	Yes
	DHW plate heat exchanger	Yes	Yes	Yes
	Integrated hydroblock	Yes	Yes	Yes
<b>INSTALLATION</b>	Suitable for sealed systems	Yes	Yes	Yes
	Suitable for open-vent systems	No	No	No
	Filling loop	Yes	Yes	Yes
	Pre-wired mains lead	Yes	Yes	Yes
	Flow regulator	Yes	Yes	Yes
	Inbuilt system bypass	Yes	Yes	Yes
	Inbuilt condensate trap/siphon	Yes	Yes	Yes
	Inbuilt boiler frost protection	Yes	Yes	Yes
	Zero compartment ventilation	Yes	Yes	Yes
	<b>CLEARANCES</b>	Top (min. mm) from top of boiler	165	165
Side (mm)		2.5	2.5	2.5
Bottom (mm)		100*	100*	100*
Front (mm)		450**	450**	450**
<b>USER INTERFACE</b>	User display	Symbols		
	User interface	3 dials, 2 buttons		
	Diagnostics	Fault diagnosis display		
	User adjustable	Manual heating & hot water controls		
	'Eco' setting on CH	Yes	Yes	Yes
	Inbuilt programmer	Optional	Optional	Optional
<b>PIPES</b>	Pre-piping kit	Optional	Optional	Optional
	Stand off kit	Optional	Optional	Optional
	Stand off kit inc. pipes	Optional	Optional	Optional
	Security bracket kit	Optional	Optional	Optional
	Safety valve drain outlet pipe kit	Optional	Optional	Optional
	Terminal wall plate kit	Optional	Optional	Optional
	Weather compensation kit	Optional	Optional	Optional
<b>FLUES</b>	Max horizontal	9m	8m	6m
	Max vertical	7.5m	7.5m	7.5m
	Powered vertical	22m	22m	22m
	High level flue outlet kit	Optional	Optional	Optional
	Direct rear flue kit (55/80)	No	No	No
<b>CONNECTIONS</b>	Gas supply connection	15mm	15mm	15mm
	CH flow connection	22mm	22mm	22mm
	CH return connection	22mm	22mm	22mm
	Inlet connection - DHW	15mm	15mm	15mm
	Outlet connection - DHW	15mm	15mm	15mm
	Pressure relief valve	15mm	15mm	15mm
	Condensate drain	21.5mm	21.5mm	21.5mm
	<b>ErP EFFICIENCIES</b>	Condensing boiler	Yes	Yes
Seasonal space heating efficiency class		A	A	A
Rated heat output kW		24	24	24
Seasonal space heating energy efficiency ηs %		94	94	94
Sound power level, indoors LWA dB		48	46	44
Water heating energy efficiency class		A	A	A





TESTIMONIAL  
ASTER HOUSING GROUP

***"We have been installing Ideal Heating for the past 10 years, specifically the Logic Standard and ESP1 range."***

*"We receive a same day-next day response on our 5-year warranty work and training is provided on boilers as required for new engineers."*

*"Over the last 12 months we have installed over 850 boilers having very few issues, the product related visit rate is less than 1.5% on over 5,000 boilers that are under warranty at any one time and because of this I would recommend the Ideal Logic boiler range."*

*"We are to install over 1,300 Boilers a year in planned maintenance and social new build, with Ideal Logic being the majority of those Installations."*

# LOGIC HEAT

H12 H15 H18 H24 H30



Ready for 20% hydrogen blend



Flexible warranties available, 2 years as standard



Compact cupboard fit



Digital display



Frost protection



Add a weather compensation kit for greater efficiency



Rear flue output option



Opentherm ready



Flue variants



LPG conversion††



ErP compliant



NOx class 6

Incorporating the latest in heating design and technology, the Logic Heat is an outstanding heat only solution for both new and replacement installations alike. Available in the choice of five outputs - 12, 15, 18, 24 & 30 kW, the Logic Heat will deliver total home comfort for a wide range of domestic properties.

Suitable for open vent and sealed systems, the Logic Heat boiler is straightforward to site and install. Benefiting from no compartment ventilation, compact fit, and a lightweight design means the boiler can be neatly installed out of sight into a kitchen cupboard†. Installers have the further choice of a neat direct rear flue option as required, helping to speed up the installation in retrofit situations even further.

High SEDBUK efficiency rated and capability of modulating down to 4.8 kW\*\*, the Logic Heat is highly efficient and easy to operate thanks to straightforward controls featuring a clear digital display.

The Logic Heat is a reliable and efficient heat only solution for domestic installations.



### THE PERFECT HEAT ONLY SYSTEM

The Logic Heat boiler is the perfect match for the new Ideal Pre-Plumbed H cylinder. As with all Ideal products, you can be assured reliability is engineered, through quality design and testing, supported by a 25 year warranty.

Our range of pre-plumbed cylinders have been created specifically for the new build market. They offer a 'plug and play' solution which reduces installation time and standardises plumbing configuration across multiple dwelling sites.

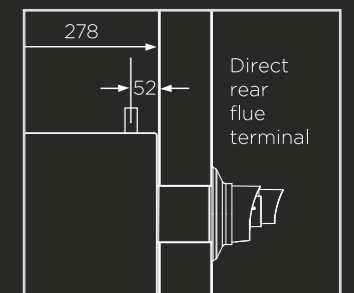
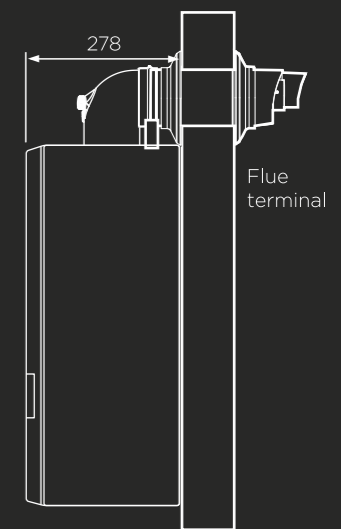
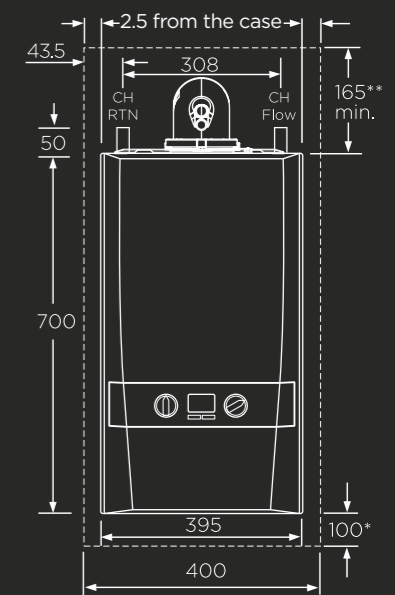
### AWARD WINNING BOILERS

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### CLEARANCES & DIMENSIONS

ALL DIMENSIONS IN MM



LOGIC HEAT REAR FLUE OPTION

**Note:** The minimum front clearance when built into a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## Logic Heat fault codes

FAULT CODE	MEANING	RESOLUTION
<b>Fd</b>	No Water Flow	Check the boiler and system are filled with water and all isolation and radiator valves are open. If the boiler still fails to operate please contact the social housing provider helpline.
<b>F2</b>	Flame Loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>F3</b>	Fan Fault	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F4 L4</b>	Flow Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F5 L5</b>	Return Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F6</b>	Outside Sensor Failure	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F7</b>	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
<b>F9 L9</b> <b>F8 L8</b>	Unconfigured PCB	Unconfigured PCB. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGI).
<b>FA</b>	Flow/Return Reversed	Check that the pump is connected the correct way. If the boiler fails to operate please contact the social housing provider helpline.
<b>L1</b>	Flow Temperature Overheat or No Water Flow	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler fails to operate please contact the social housing provider helpline.
<b>L2</b>	Ignition Lockout	1. Check condensate Pipe for blockages (see to section 4 of installation guide). 2. Check other gas appliances in the house are working to confirm a supply is present in the property. 3. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>L6</b>	False Flame Lockout	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>LC</b>	5 Boiler Resets in 15 minutes	1. Turn electrical supply to boiler off and on. 2. If the boiler fails to operate please contact the social housing provider helpline.
<b>FU</b>	Flow/Return Differential > 50°C	If the boiler fails to operate please contact the social housing provider helpline.

## Logic Heat technical specification

BOILER MODEL	LOGIC HEAT					
	H12	H15	H18	H24	H30	
<b>SIZE</b>	Casing dimensions (h w d)(mm)					
	Height	700	700	700	700	
	Width	395	395	395	395	
	Depth	278	278	278	278	
	Weight (packed) kg	26.2	26.2	26.2	26.2	
	Maximum installation weight kg	22.7	22.7	22.7	22.7	
<b>PERFORMANCE</b>	CH output (kW) min/max mean 70°C	4.8 - 12.0	4.8 - 15.0	4.8 - 18.0	4.8 - 24.2	6.1 - 30.3
	CH output (kW) min/max mean 40°C	5.1 - 13.0	5.1 - 15.9	5.1 - 19.1	5.1 - 25.6	6.4 - 31.0
	DHW output (kW) max	N/A	N/A	N/A	N/A	N/A
	DHW flow rate l/min. 35°C rise	N/A	N/A	N/A	N/A	N/A
	SEDBUK (2005) %	91.1	91.2	91.1	91.2	91.1
	SEDBUK (2009/2012) %	89.4	89.4	89.7	89.7	89.6
	NOx classification	CLASS 6	CLASS 6	CLASS 6	CLASS 6	CLASS 6
<b>CONSTRUCTION</b>	Convert to LPG	No	No	No	Yes	Yes
	Heat exchanger material	Cast aluminium - silicon alloy				
<b>INSTALLATION</b>	Burner type	Downward firing pre-mix				
	Fully modulating	Yes	Yes	Yes	Yes	Yes
	DHW plate heat exchanger	N/A	N/A	N/A	N/A	N/A
	Integrated hydroblock	N/A	N/A	N/A	N/A	N/A
	Suitable for sealed systems	Yes	Yes	Yes	Yes	Yes
<b>CLEARANCES</b>	Suitable for open-vent systems	Yes	Yes	Yes	Yes	Yes
	Filling loop	No	No	No	No	No
	Pre-wired mains lead	No	No	No	No	No
	Flow regulator	N/A	N/A	N/A	N/A	N/A
	Inbuilt system bypass	No	No	No	No	No
	Inbuilt condensate trap/siphon	Yes	Yes	Yes	Yes	Yes
	Inbuilt boiler frost protection	Yes	Yes	Yes	Yes	Yes
	Zero compartment ventilation	Yes	Yes	Yes	Yes	Yes
	Top (mm) (from top of boiler)	165 (100 rear outlet flue)				
	Side (mm)	2.5	2.5	2.5	2.5	2.5
Bottom (mm)	100*	100*	100*	100*	100*	
Front (mm)	450**	450**	450**	450**	450**	
<b>USER INTERFACE</b>	User display	Symbols				
	User interface	2 dials, 2 buttons				
	Diagnostics	Fault diagnosis display				
	User adjustable	Manual heating control				
	'Eco' setting on CH	Yes	Yes	Yes	Yes	Yes
<b>PIPES</b>	Inbuilt programmer	No	No	No	No	No
	Pre-piping kit	No	No	No	No	No
	Stand off kit	Yes	Yes	Yes	Yes	Yes
	Stand off kit inc. pipes.	No	No	No	No	No
	Security bracket kit	Optional	Optional	Optional	Optional	Optional
	Safety valve drain outlet pipe kit	No	No	No	No	No
	Terminal wall plate kit	Optional	Optional	Optional	Optional	Optional
	Weather compensation kit	Optional	Optional	Optional	Optional	Optional
<b>FLUES</b>	Max horizontal	9m	9m	9m	9m	8m
	Max vertical	7.5m*2	7.5m*2	7.5m*2	7.5m*2	7.5m*2
	Powered vertical	22m*2	22m*2	22m*2	22m*2	22m*2
	High level flue outlet kit	Optional	Optional	Optional	Optional	Optional
	Direct rear flue kit (55/80)	Yes	Yes	Yes	Yes	Yes
<b>CONNECTIONS**</b>	Gas supply connection	15mm	15mm	15mm	15mm	15mm
	CH flow connection	22mm	22mm	22mm	22mm	22mm
	CH return connection	22mm	22mm	22mm	22mm	22mm
	Inlet connection - DHW	N/A	N/A	N/A	N/A	N/A
	Outlet connection - DHW	N/A	N/A	N/A	N/A	N/A
	Pressure relief valve	N/A	N/A	N/A	N/A	N/A
	Condensate drain	21.5mm	21.5mm	21.5mm	21.5mm	21.5mm
<b>ErP EFFICIENCIES</b>	Condensing boiler	Yes	Yes	Yes	Yes	Yes
	Seasonal space heating efficiency class	A	A	A	A	A
	Rated heat output kW	12	15	18	24	30
	Seasonal space heating energy efficiency η <sub>s</sub> %	93.0	93.0	93.0	94.0	93.0
	Sound power level, indoors L <sub>WA</sub> dB	36	38	41	47	49
	Water heating energy efficiency class	N/A	N/A	N/A	N/A	N/A



TESTIMONIAL  
VALE OF AYLESBURY HT

*“Ideal have always been supportive of what we are trying to achieve and are hugely proactive in ensuring that our needs, as a customer, are met timely and effectively.”*

*“Nothing is ever too much of a problem and the products and service they offer, from the Key Account Executive to portal, mean that we can offer a leading service to our residents.”*

# LOGIC SYSTEM

S15 S18 S24 S30



Ready for 20% hydrogen blend



Flexible warranties available, 2 years as standard



Compact cupboard fit



Digital display



Frost protection



Add a weather compensation kit for greater efficiency



Easy to see pressure gauge



Opentherm ready



Flue variants



LPG conversion††



ErP compliant



NOx class 6

High SEDBUK efficiency rating and easy to install, the Logic System range of appliances from Ideal Heating provide a simple and reliable solution for a wide variety of sealed domestic systems.

Available in a choice of four outputs - 15, 18, 24 and 30 kW, the Logic System provides a dependable and efficient solution for new and replacement installations alike. Siting and installing a Logic System is hassle free thanks to a simple telescopic flue option.

Time saving fast fix flue turret connections and a wide range of alternative flueing solutions help to ensure the product is installed quickly and efficiently in virtually any domestic situation.

With a lightweight design, concealed connections at the base and no compartment ventilation required, the Logic System can be conveniently fitted out of sight into a standard kitchen cupboard†.

The Logic System boiler provides simple heating control, all from a single compact appliance.



### THE PERFECT SYSTEM SOLUTION

The Logic System boiler is the perfect match for the new Ideal Pre-Plumbed S cylinder. As with all Ideal products, you can be assured reliability is engineered, through quality design and testing, supported by a 25 year warranty.

Our range of pre-plumbed cylinders have been created specifically for the new build market. They offer a 'plug and play' solution which reduces installation time and standardises plumbing configuration across multiple dwelling sites.

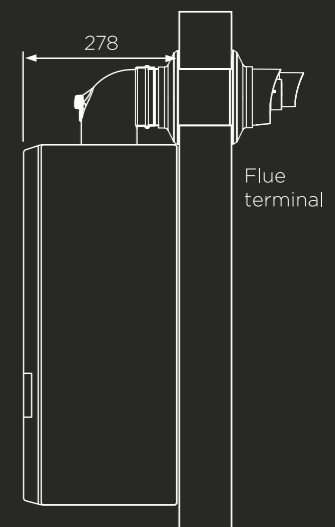
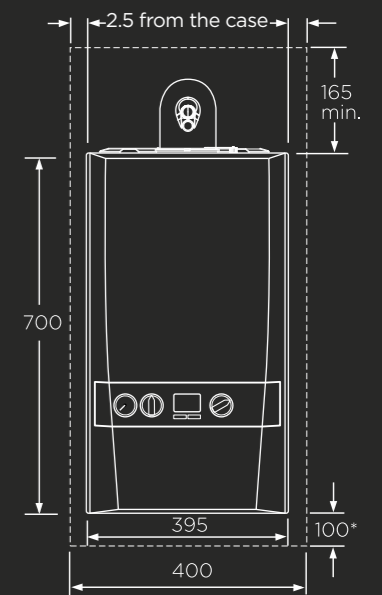
### AWARD WINNING BOILERS

Our boilers have been awarded Good Housekeeping Reader Recommended status five years in a row. For ease of use and low noise levels amongst other outstanding product details that left customers wanting to recommend Ideal Heating to their friends and families.



### CLEARANCES & DIMENSIONS

ALL DIMENSIONS IN MM



**Note:** The minimum front clearance when built into a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## Logic System fault codes

FAULT CODE	MEANING	RESOLUTION
<b>F1</b>	Low Water Pressure	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler still fails to operate please contact the social housing provider helpline.
<b>F2</b>	Flame Loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>F3</b>	Fan Fault	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F4 L4</b>	Flow Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F5 L5</b>	Return Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F6</b>	Outside Sensor Failure	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F7</b>	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
<b>F9 L9</b>	Unconfigured PCB	Unconfigured PCB. Please contact the social housing provider helpline.
<b>L1</b>	Flow Temperature Overheat or No Water Flow	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler fails to operate please contact the social housing provider helpline.
<b>L2</b>	Ignition Lockout	1. Check condensate Pipe for blockages (see to section 4 of installation guide). 2. Check other gas appliances in the house are working to confirm a supply is present in the property. 3. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>L6</b>	False Flame Lockout	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>LC</b>	5 Boiler Resets in 15 minutes	1. Turn electrical supply to boiler off and on. 2. If the boiler fails to operate please contact the social housing provider helpline.
<b>FA</b>	Negative Differential Flow/Return Thermistor	If the boiler fails to operate please contact the social housing provider helpline.
<b>FU</b>	Flow/Return Differential > 50°C	If the boiler fails to operate please contact the social housing provider helpline.

## Logic System technical specification

BOILER MODEL	LOGIC SYSTEM				
	S15	S18	S24	S30	
<b>SIZE</b>	Casing dimensions (h w d)(mm)				
	Height	700	700	700	700
	Width	395	395	395	395
	Depth	278	278	278	278
	Weight (packed) kg	31.5	31.5	31.5	31.5
	Maximum installation weight kg	26.1	26.1	26.1	26.1
<b>PERFORMANCE</b>	CH output (kW) min/max mean 70°C	4.8 - 15.0	4.8 - 18.0	4.8 - 24.2	6.1 - 30.3
	CH output (kW) min/max mean 40°C	5.1 - 15.9	5.1 - 19.1	5.1 - 25.6	6.4 - 31.0
	DHW output (kW) max	N/A	N/A	N/A	N/A
	DHW flow rate l/min. 35°C rise	N/A	N/A	N/A	N/A
	SEDBUK (2005) %	91.2	91.1	91.2	91.1
	SEDBUK (2009/2012) %	89.4	89.7	89.7	89.6
	NOx classification	CLASS 6	CLASS 6	CLASS 6	CLASS 6
<b>CONSTRUCTION</b>	Convert to LPG	No	No	No	Yes
	Heat exchanger material	Cast aluminium - silicon alloy			
<b>INSTALLATION</b>	Burner type	Downward firing pre-mix			
	Fully modulating	Yes	Yes	Yes	Yes
	DHW plate heat exchanger	N/A	N/A	N/A	N/A
	Integrated hydroblock	N/A	N/A	N/A	N/A
	Suitable for sealed systems	Yes	Yes	Yes	Yes
<b>CLEARANCES</b>	Suitable for open-vent systems	No	No	No	No
	Filling loop	No	No	No	No
	Pre-wired mains lead	Yes	Yes	Yes	Yes
	Flow regulator	N/A	N/A	N/A	N/A
	Inbuilt system bypass	Yes	Yes	Yes	Yes
	Inbuilt condensate trap/siphon	Yes	Yes	Yes	Yes
	Inbuilt boiler frost protection	Yes	Yes	Yes	Yes
	Zero compartment ventilation	Yes	Yes	Yes	Yes
<b>USER INTERFACE</b>	Top (mm) (from top of boiler)	165	165	165	165
	Side (mm)	2.5	2.5	2.5	2.5
	Bottom (mm)	100*	100*	100*	100*
	Front (mm)	450**	450**	450**	450**
<b>PIPES</b>	User display	Symbols			
	User interface	2 dials, 2 buttons			
	Diagnostics	Fault diagnosis display			
	User adjustable	Manual heating control			
	'Eco' setting on CH	Yes	Yes	Yes	Yes
	Inbuilt programmer	No	No	No	No
<b>FLUES</b>	Pre-piping kit	Yes	Yes	Yes	Yes
	Stand off kit	Yes	Yes	Yes	Yes
	Stand off kit inc. pipes.	Yes	Yes	Yes	Yes
	Security bracket kit	Optional	Optional	Optional	Optional
	Safety valve drain outlet pipe kit	Optional	Optional	Optional	Optional
	Terminal wall plate kit	Optional	Optional	Optional	Optional
	Weather compensation kit	Optional	Optional	Optional	Optional
<b>CONNECTIONS**</b>	Max horizontal	9m	9m	9m	8m
	Max vertical	7.5m	7.5m	7.5m	7.5m
	Powered vertical	22m	22m	22m	22m
	High level flue outlet kit	Optional	Optional	Optional	Optional
	Direct rear flue kit (55/80)	No	No	No	No
	Gas supply connection	15mm	15mm	15mm	15mm
	CH flow connection	22mm	22mm	22mm	22mm
	CH return connection	22mm	22mm	22mm	22mm
<b>ErP EFFICIENCIES</b>	Inlet connection - DHW	N/A	N/A	N/A	N/A
	Outlet connection - DHW	N/A	N/A	N/A	N/A
	Pressure relief valve	N/A	N/A	N/A	N/A
	Condensate drain	21.5mm	21.5mm	21.5mm	21.5mm
	Condensing boiler	Yes	Yes	Yes	Yes
	Seasonal space heating efficiency class	A	A	A	A
	Rated heat output kW	15	18	24	30
<b>CONNECTIONS**</b>	Seasonal space heating energy efficiency ηs %	93	93	94	93
	Sound power level, indoors LWA dB	44	46	48	48
	Water heating energy efficiency class	N/A	N/A	N/A	N/A
	Weather compensation kit	Optional	Optional	Optional	Optional



TESTIMONIAL  
CITY OF YORK COUNCIL

*"We have partnered with Ideal Heating for many years now, the whole offering from Ideal Heating is of the highest level with great products and back up service other companies have struggled to compete with."*



# LOGIC COMBI ESP1

24 30 35



Flexible warranties available, 2 years as standard



Compact cupboard fit



Digital display



Frost protection



Add a weather compensation kit for greater efficiency



NOx class 6



ErP compliant



Ready for 20% hydrogen blend



High SAP ratings, making it easier to achieve your required TER



Easy to see pressure gauge



Opentherm ready



Flue variants



LPG conversion<sup>††</sup>



Available in a choice of three outputs of 24, 30 and 35 kW, the Logic Combi ESP1 range of combination boilers from Ideal Heating, provides a hassle free and simple solution for today's new social housing market.

Complementing the existing Logic range, the Logic Combi ESP1 design is optimised for compliance following the SAP 2009/2012 design procedure. This is particularly beneficial for new social housing properties.

A quick installation is assured thanks to a wide range of flueing options, fast fix flue turret connections and no need for compartment ventilation allowing this product to be installed out of sight in a standard kitchen cupboard<sup>†</sup>.

The Logic Combi ESP1 is fully modulating, built with tried and tested technology.

Featuring a simple diagnostics display, the Logic Combi ESP1 range is compatible with a range of optional timers for the ultimate in control and peace of mind.

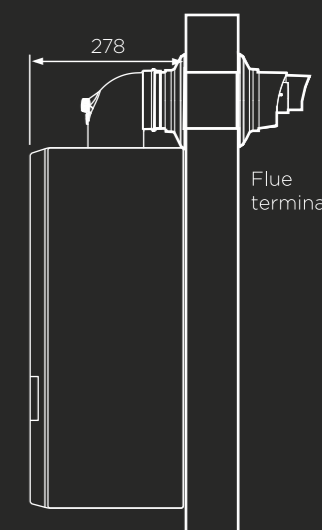
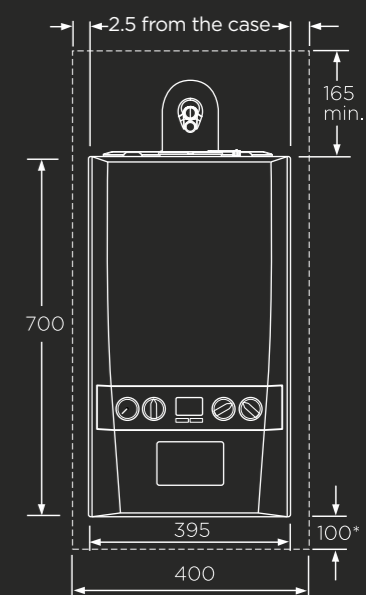
## AWARD WINNING BOILERS

Our boilers have been awarded Good Housekeeping Reader Recommended status five years in a row. For ease of use and low noise levels amongst other outstanding product details that left customers wanting to recommend Ideal Heating to their friends and families.



## CLEARANCES & DIMENSIONS

ALL DIMENSIONS IN MM



**Note:** The minimum front clearance when built into a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

<sup>\*</sup>Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.



TESTIMONIAL  
**BEDFORD  
 PILGRIMS HOUSING  
 ASSOCIATION**

*“We have specified Ideal Logic boilers for the past 6 years.”*

*“The ease of maintaining and servicing the boilers has been backed by our heating contractor.”*

*“The standard in boiler quality is very high, and even during Covid-19 with some manufacturing shutdowns throughout the industry, we did not see a supply shortage from Ideal Heating and the standard in quality was not compromised.”*

*“We have been contacted by other manufacturers in this time, but the quality and service received from Ideal Heating has not been matched by other manufacturers.”*



Logic Combi ESP1 fault codes

FAULT CODE	MEANING	RESOLUTION
<b>F1</b>	Low Water Pressure	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler still fails to operate please contact the social housing provider helpline.
<b>F2</b>	Flame Loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>F3</b>	Fan Fault	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F4 L4</b>	Flow Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F5 L5</b>	Return Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F6</b>	Outside Sensor Failure	Restart the appliance - if the boiler fails to operate please contact then contact the social housing provider helpline.
<b>F7</b>	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
<b>F9 L9</b>	Unconfigured PCB	Unconfigured PCB. Please contact the social housing provider helpline.
<b>L1</b>	Flow Temperature Overheat or No Water Flow	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler fails to operate please contact the social housing provider helpline.
<b>L2</b>	Ignition Lockout	1. Check condensate Pipe for blockages (see to section 4 of installation guide). 2. Check other gas appliances in the house are working to confirm a supply is present in the property. 3. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>L6</b>	False Flame Lockout	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>LC</b>	5 Boiler Resets in 15 minutes	1. Turn electrical supply to boiler off and on. 2. If the boiler fails to operate please contact the social housing provider helpline.
<b>FA</b>	Negative Differential Flow/Return Thermistor	If the boiler fails to operate please contact the social housing provider helpline.
<b>FU</b>	Flow/Return Differential > 50°C	If the boiler fails to operate please contact the social housing provider helpline.
<b>dU</b>	Diverter Valve in midposition for service	Rotate all knobs fully clockwise, turn boiler power off and on then press restart.

# Logic Combi ESP1 technical specification

BOILER MODEL	LOGIC COMBI ESP1			
	24	30	35	
<b>SIZE</b>	Casing dimensions (h w d)(mm)			
	Height	700	700	700
	Width	395	395	395
	Depth	278	278	278
	Weight (packed) kg	33.7	33.8	33.9
	Max installation weight kg	28.9	29.0	29.1
<b>PERFORMANCE</b>	CH output (kW) min/max mean 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
	CH output (kW) min/max mean 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
	DHW output (kW) max	24.2	30.3	35.3
	DHW flow rate l/min. 35°C rise	9.9	12.4	14.5
	SEDBUK (2005) %	91.1	91.1	91.1
	SEDBUK (2009/2012) %	89.6	89.6	89.6
	NOx classification	CLASS 6	CLASS 6	CLASS 6
	Convert to LPG	No	Yes	Yes
<b>CONSTRUCTION</b>	Heat exchanger material	Cast aluminium- silicon alloy		
	Burner type	Downward firing pre-mix		
	Fully modulating	Yes	Yes	Yes
	DHW plate heat exchanger	Yes	Yes	Yes
	Integrated hydroblock	Yes	Yes	Yes
<b>INSTALLATION</b>	Suitable for sealed systems	Yes	Yes	Yes
	Suitable for open-vent systems	No	No	No
	Filling loop	Yes	Yes	Yes
	Pre-wired mains lead	Yes	Yes	Yes
	Flow regulator	Yes	Yes	Yes
	Inbuilt system bypass	Yes	Yes	Yes
	Inbuilt condensate trap/siphon	Yes	Yes	Yes
	Inbuilt boiler frost protection	Yes	Yes	Yes
	Zero compartment ventilation	Yes	Yes	Yes
	<b>CLEARANCES</b>	Top (min. mm) from top of boiler	165	165
Side (mm)		2.5	2.5	2.5
Bottom (mm)		100*	100*	100*
Front (mm)		450**	450**	450**
<b>USER INTERFACE</b>	User display	Symbols		
	User interface	3 dials, 2 buttons		
	Diagnostics	Fault diagnosis display		
	User adjustable	Manual heating & hot water controls		
	'Eco' setting on CH	Yes	Yes	Yes
	Inbuilt programmer	Optional	Optional	Optional
<b>PIPES</b>	Pre-piping kit	Optional	Optional	Optional
	Stand off kit	Optional	Optional	Optional
	Stand off kit inc. pipes	Optional	Optional	Optional
	Security bracket kit	Optional	Optional	Optional
	Safety valve drain outlet pipe kit	Optional	Optional	Optional
	Terminal wall plate kit	Optional	Optional	Optional
	Weather compensation kit	Optional	Optional	Optional
<b>FLUES</b>	Max horizontal	9m	8m	6m
	Max vertical	7.5m	7.5m	7.5m
	Powered vertical	22m	22m	22m
	High level flue outlet kit	Optional	Optional	Optional
	Direct rear flue kit (55/80)	No	No	No
<b>CONNECTIONS</b>	Gas supply connection	15mm	15mm	15mm
	CH flow connection	22mm	22mm	22mm
	CH return connection	22mm	22mm	22mm
	Inlet connection - DHW	15mm	15mm	15mm
	Outlet connection - DHW	15mm	15mm	15mm
	Pressure relief valve	15mm	15mm	15mm
	Condensate drain	21.5mm	21.5mm	21.5mm
	<b>ErP EFFICIENCIES</b>	Condensing boiler	Yes	Yes
Seasonal space heating efficiency class		A	A	A
Rated heat output kW		24	24	24
Seasonal space heating energy efficiency s %		94	94	94
Sound power level, indoors LWA dB		48	46	44
Water heating energy efficiency class		A	A	A



**TESTIMONIAL**  
**ONE HOUSING**

*“Ideal are One Housing’s preferred boiler manufacturer for the last 18 months. We have found your boilers, both in domestic and commercial, to be very reliable and robust.”*

*“We have not encountered any issues with your product and if we require any technical advice, Ideal always have someone available to answer our queries.”*

# LOGIC CODE COMBI ESP1

26 33 38



Flexible warranties available, 2 years as standard



Easy to see pressure gauge



Digital display



Frost protection



Add a weather compensation kit for greater efficiency



Passive flue gas heat recovery unit



Ready for 20% hydrogen blend



Opentherm ready



Flue variants



LPG conversion††



ErP compliant



NOx class 6



Designed to take the headache out of meeting Building Regulations, the Logic Code Combi ESP1 from Ideal is a simple one box solution. Developed using state of the art advanced boiler technology, the ESP1 models optimise design for SAP and DER ratings.

Available in a choice of DHW outputs, 26, 33 and 38 kW, the Logic Code Combi ESP1, provides a perfect solution for both new and retrofit solutions where energy efficiency is a key concern.

Developed using state of the art advanced boiler technology, the Code Combi ESP1 features a built-in stainless steel passive flue gas heat recovery unit located in the flue exit, which cleverly picks up and recycles waste energy that would have normally been lost through the flue terminal.

This energy is collected and used to warm up the cold hot water supply. This supply, then flows into the plate heat exchanger, where the desired temperature is reached.

With a dedicated in-house design team and service network for developers and installers The Logic Code Combi ESP1, with its NOx class 6 rating and integral FGHR unit, takes the pressure, and cost, off meeting Building Regulations.

## AWARD WINNING BOILERS

Our boilers have been awarded Good Housekeeping Reader Recommended status five years in a row. For ease of use and low noise levels amongst other outstanding product details that left customers wanting to recommend Ideal Heating to their friends and families.



## HOW IT WORKS

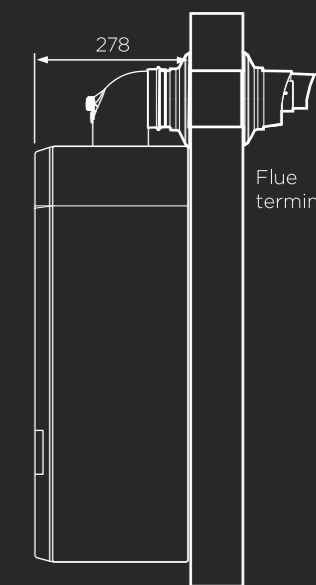
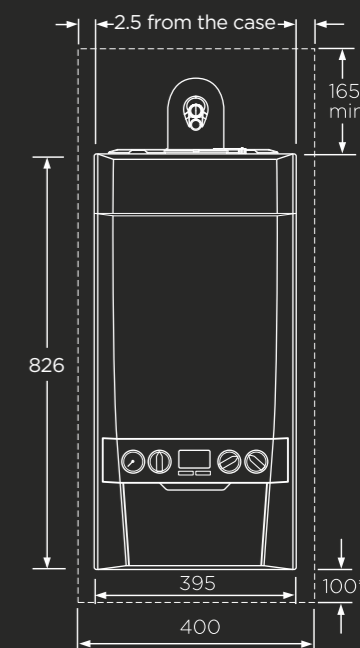
- Hot water tap is opened and boiler senses flow
- Burner on
- Combustion gases heat primary water heat exchanger and flue gases exit to the flue
- Cold water from mains flows through the passive flue gas heat recovery unit in the flue
- Energy from the flue gases is transferred to the incoming water
- The cooled flue gases exit the boiler
- Preheated water enters the boiler and is further heated by the DHW plate heat exchanger
- Hot water is produced at the tap

[idealheating.com](http://idealheating.com)

†† LPG Conversion kit available for 33 kW & 38 kW models.

## CLEARANCES & DIMENSIONS

ALL DIMENSIONS IN MM



**Note:** The minimum front clearance when built into a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## Logic Code Combi ESP1 fault codes

FAULT CODE	MEANING	RESOLUTION
<b>F1</b>	Low Water Pressure	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler still fails to operate please contact the social housing provider helpline.
<b>F2</b>	Flame Loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>F3</b>	Fan Fault	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F4 L4</b>	Flow Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F5 L5</b>	Return Thermistor	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F6</b>	Outside Sensor Failure	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>F7</b>	Low Mains Voltage	Contact a qualified electrician or your electricity provider.
<b>F9 L9</b>	Unconfigured PCB	Unconfigured PCB. Please contact the social housing provider helpline.
<b>L1</b>	Flow Temperature Overheat or No Water Flow	Check system water pressure is between 1 & 1.5bar on the system pressure gauge. To re-pressurise the system see section 3 of installation guide. If the boiler fails to operate please contact the social housing provider helpline.
<b>L2</b>	Ignition Lockout	1. Check condensate Pipe for blockages (see to section 4 of installation guide). 2. Check other gas appliances in the house are working to confirm a supply is present in the property. 3. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate please contact the social housing provider helpline.
<b>L6</b>	False Flame Lockout	Restart the appliance - if the boiler fails to operate please contact the social housing provider helpline.
<b>LC</b>	5 Boiler Resets in 15 minutes	1. Turn electrical supply to boiler off and on. 2. If the boiler fails to operate please contact the social housing provider helpline.
<b>FA</b>	Negative Differential Flow/Return Thermistor	If the boiler fails to operate please contact the social housing provider helpline.
<b>FU</b>	Flow/Return Differential > 50°C	If the boiler fails to operate please contact the social housing provider helpline.
<b>dU</b>	Diverter Valve in midposition for service	Rotate all knobs fully clockwise, turn boiler power off and on then press restart.

## Logic Code Combi ESP1 Technical Specification

BOILER MODEL	LOGIC CODE COMBI ESP1			
	26	33	38	
<b>SIZE</b>	Casing dimensions (h w d)(mm)			
	Height	826	826	826
	Width	395	395	395
	Depth	278	278	278
	Weight (packed) kg	38.05	38.15	38.35
	Maximum installation weight kg	32.65	32.75	32.95
<b>PERFORMANCE</b>	CH output (kW) min/max mean 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
	CH output (kW) min/max mean 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
	DHW output (kW) max	26.1	32.7	38.2
	DHW flow rate l/min. 35°C rise	10.7	13.4	15.7
	SEDBUK (2005) %	91.1	91.1	91.1
	SEDBUK (2009/2012) %	89.6	89.6	89.6
	NOx classification	CLASS 6	CLASS 6	CLASS 6
	Convert to LPG	No	Yes	Yes
<b>CONSTRUCTION</b>	Heat exchanger material	Cast aluminium- silicon alloy		
	Burner type	Downward firing pre-mix		
	Fully modulating	Yes	Yes	Yes
	DHW plate heat exchanger	Yes	Yes	Yes
<b>INSTALLATION</b>	Integrated hydroblock	Yes	Yes	Yes
	Suitable for sealed systems	Yes	Yes	Yes
	Suitable for open vent systems	No	No	No
	Filling loop	Yes	Yes	Yes
	Pre-wired mains lead	Yes	Yes	Yes
	Flow regulator	Yes	Yes	Yes
	Inbuilt system bypass	Yes	Yes	Yes
	Inbuilt condensate trap/siphon	Yes	Yes	Yes
	Pump exercise	Yes	Yes	Yes
	Inbuilt boiler frost protection	Yes	Yes	Yes
	Zero compartment ventilation	Yes	Yes	Yes
<b>CLEARANCES</b>	Copper tail connections	Yes	Yes	Yes
	Top (min. mm) from top of boiler	165	165	165
	Side (mm)	2.5	2.5	2.5
	Bottom (mm)	100*	100*	100*
<b>USER INTERFACE</b>	Front (mm)	450**	450**	450**
	User display	Symbols		
	User interface	3 dials, 2 buttons		
	Diagnostics	Fault diagnostic display		
<b>PIPES</b>	User adjustable	Manual heating & hot water controls		
	'Eco' setting on CH	Yes	Yes	Yes
	Inbuilt programmer	Optional	Optional	Optional
	Pre-piping kit	Optional	Optional	Optional
<b>FLUES</b>	Stand off kit	Optional	Optional	Optional
	Stand off kit inc. pipes	Optional	Optional	Optional
	Security fixing kit	Optional	Optional	Optional
	Safety valve drain outlet pipe kit	Optional	Optional	Optional
	Terminal wall plate kit	Optional	Optional	Optional
	Weather compensation kit	Optional	Optional	Optional
	Max horizontal	9m	8m	6m
Max vertical	7.5m	7.5m	7.5m	
<b>CONNECTIONS</b>	Powered vertical	22m	22m	22m
	High level flue outlet kit	Optional	Optional	Optional
	Direct rear flue kit (55/80)	No	No	No
	Gas supply connection	15mm	15mm	15mm
<b>ErP EFFICIENCIES</b>	CH flow connection	22mm	22mm	22mm
	CH return connection	22mm	22mm	22mm
	Inlet connection - DHW	15mm	15mm	15mm
	Outlet connection - DHW	15mm	15mm	15mm
	Pressure relief valve	15mm	15mm	15mm
	Condensate drain	21.5mm	21.5mm	21.5mm
	Condensing boiler	Yes	Yes	Yes
Seasonal space heating efficiency class	A	A	A	
Rated heat output kW	24	24	24	
Seasonal space heating energy efficiency ηs %	94	94	94	
Sound power level, indoors LWA dB	49	47	44	
Water heating energy efficiency class	A	A	A	

## Boiler Product Codes

UIN	DESCRIPTION
213980	IDEAL LOGIC COMBI C24
213981	IDEAL LOGIC COMBI C30
213982	IDEAL LOGIC COMBI C35
215396	IDEAL LOGIC HEAT H12
215397	IDEAL LOGIC HEAT H15
215398	IDEAL LOGIC HEAT H18
215399	IDEAL LOGIC HEAT H24
215400	IDEAL LOGIC HEAT H30
215664	IDEAL LOGIC SYSTEM S15
215665	IDEAL LOGIC SYSTEM S18
215666	IDEAL LOGIC SYSTEM S24
215667	IDEAL LOGIC SYSTEM S30
215428	IDEAL LOGIC COMBI ESP1 24
215429	IDEAL LOGIC COMBI ESP1 30
215430	IDEAL LOGIC COMBI ESP1 35
215735	IDEAL LOGIC CODE COMBI ESP1 26
215736	IDEAL LOGIC CODE COMBI ESP1 33
215737	IDEAL LOGIC CODE COMBI ESP1 38

TESTIMONIAL  
EAST SUFFOLK COUNCIL

*“East Suffolk Housing have worked closely with Ideal Heating since 2012 and in that time have found the Logic range to be very reliable and easy for our heating contractor to install and service, which in turn gives our tenants the perfect heat source.”*

*“If or when a warranty call has been requested, Ideal Heating always prioritised the needs of East Suffolk Council and offered a very prompt and efficient service and responded in a timely and effective way.”*



# IDEAL DIAGNOSTIC CELLULAR

Managing your boiler stock just got smarter



ID-CELLULAR

ID-CELLULAR

## YORK CITY COUNCIL IDC CASE STUDY

### RESOLVE ISSUES REMOTELY

"We managed to clear a number of calls using the remote reset function, this saved both tenant time and engineer resource by reducing the number of home visits."

### PROACTIVE MANAGEMENT – PRE-EMPT CALLS

"The ability to pre-empt customer calls was a huge benefit for our customer service team, we used the IDC notifications to pre-book repair calls - more often than not we had an engineer pre-booked before the customer called!"

### UNDERSTAND TENANT BEHAVIOURS

"Using the IDC data, we could spot tenant usage patterns, which helped to tailor our tenant education programmes – specifically how to heat their homes in the most efficient and environmentally-friendly way."

ID-Cellular is an innovative connected solution from Ideal Heating that will allow you to remotely monitor your boiler stock without the need for Wi-Fi or an internet connection in the home. No reliance on tenant Wi-Fi and no need to install a separate internet connection that needs maintaining.

### END USER BENEFITS

- Connecting your boiler stock and remotely monitoring data means you will see fault codes and receive alerts when boilers are in fault.
- Enable engineers to see data from the boiler before they even get to site, allowing them to prepare more efficiently.
- Gain insight not only into the health of the boiler, but into the energy consumption and heating usage in the house which may help to identify unusual activity, such as inadequate heating of your home.
- The ID-Cellular device contains a SIM card and connects to the internet via GPRS to transmit data to the cloud which you can then see in the Ideal Partner Portal.
- The Ideal Partner Portal is an easy to use web based portal. It can be accessed via a computer, tablet or mobile phone so even engineers in the field can use it.

### LANDLORD BENEFITS

- The portal has an intuitive summary dashboard, which allows easy access to real time boiler data in simple charts and graphs.
- The portal can be configured to send email alerts and summaries and different users can be given different levels of access to suit their roles.
- The portal also allows for the remote reset of the boiler, a feature that has the potential to save an engineer visit.
- The portal is secure and has several features to ensure strict compliance with GDPR giving you peace of mind when handling sensitive data.
- See information about the boiler whilst on the phone to a tenant and be able to advise them over the phone.



Remotely monitor data



Insightful technology



Engineer efficiency



Sim card connectivity



Offsite advice



Multiple platforms



Intuitive interface



Customise alerts



Remote reset



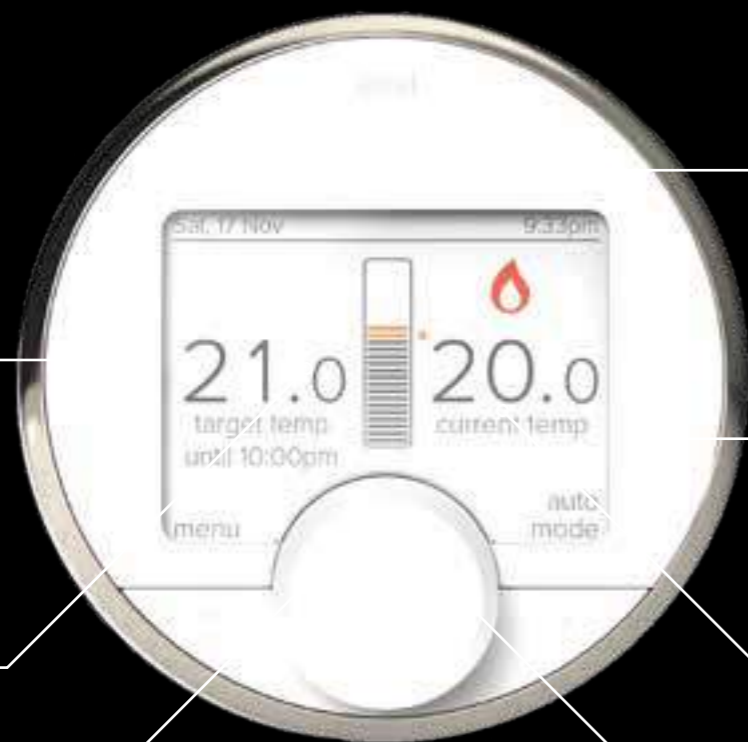
Security guarantee

# CONTROLS & ACCESSORIES

## HALO LITE



Wired programmable room thermostat designed for social housing.



Simple dial and button design



Backlit colour screen with large text and icons



Service timer function



Designed with tenant input



Boiler plus compliant



Wired power  
No batteries



Easy to install

The Ideal Halo Lite OpenTherm Wired Combi is a single zone combi programmable room thermostat designed to benefit both landlords and tenants.

Boasting a large colour screen and easy to use button and dial interface. It has been tested to ensure it is intuitive and easy to understand.

### END USER BENEFITS

- Easy to use
- Aesthetically pleasing
- Flexible scheduling with override options– next scheduled event or plus hours
- Child lock function to avoid unwanted adjustment
- Holiday mode to switch off the heating for a preset period without altering the schedule
- Frost protection for reassurance that the system is protected in cold weather
- Manual mode to disable the schedule and control temperature with the dial

### ENERGY EFFICIENCY BENEFITS

- ERP Class V
- Enhanced load compensation provides compliance with Boiler Plus
- Advanced features to balance comfort and efficiency
- Optimised start ensures the home reaches temperature by the scheduled time
- Optimised stop and delayed start features enhance efficiency and avoid needlessly heating the home

### LANDLORD BENEFITS

- Quick and easy installation with out of the box setup
- Wired power and control (no batteries) using the OpenTherm two wire connection
- Minimal ongoing maintenance, no batteries to change
- Fixed position with discrete security screw on front housing, minimal risk of tenant tampering with control
- Advanced settings to tailor controls to tenant and landlord needs
- Service timer function with PIN number control
- Flexible service timer options with choice of reminder or heating setpoint restriction
- Upper and lower temperature restriction with PIN control
- Landlord contact number input
- Frost protection to ensure protection of the system in cold weather
- Clear fault reporting in plain English

Unit dimensions	96 x 95 x 35 mm
Unit weight	0.096 kg
Power source	OpenTherm (low voltage)
Communication protocol	OpenTherm
Install location	Wall mounted
Trim plate supplied	Yes
Level indication for ease of installation	Yes
Voltage	18 – 21V dc
Wire type	0.5-1.0mm diameter, multi-strand should be tinned
Boiler compatibility	All current Logic and Vogue Combi models
User Interface	Dial and buttons

Screen Type	Backlit colour TFT
Max scheduled events	6
Holiday Mode	Yes
Optimised start and stop	Yes
Delayed start	Yes
Override next event	Yes
Override plus hours	Yes
OFF mode with frost protection	Yes
Child lock	Yes – press and hold 2 buttons
Service function	Yes – PIN number control
Upper and lower temperature limits	Yes – PIN number control
Frost protection	Yes – default 5C

# HALO

The Halo range of programmable room thermostats are designed to work specifically with Ideal Heating.

Halo is available for all Ideal Logic combi, system and heat boilers.



## Halo WiFi

Part No. 222142 (Combi)  
Part No. 222143 (Heat & System)

The Ideal Halo Wi-Fi is an internet connected wireless programmable room thermostat. Halo Wi-Fi allows heating control anytime, anywhere through the flexible and intuitive Halo app.

## Halo RF

Part No. 222140 (Combi)  
Part No. 222141 (Heat & System)

Ideal Halo RF is a wireless programmable room thermostat designed to work specifically with Ideal Heating.

Halo RF provides simple and efficient heating control and is packed full of features including flexible scheduling, override, plus hours, fault notifications, holiday mode and child lock all put your tenants in control.

## Weather Compensation

Part No. 216119

ErP: Class 2, 2% additional efficiency

Provides flow temperature adjustment to the central heating system in relation to the outside temperature to give improved heating system efficiency and savings to the customer.



## Ideal System Filter

Part No. 222971

A proven, high efficiency, full-flow, magnetic and non-magnetic filter that is designed to protect your customer's central heating system from unwanted contaminants. Removing both metallic and non-metallic contaminants from the central heating system improves system efficiency, and reduces risk of damage. By fitting an Ideal system filter with you Ideal boiler, you will receive a 10-year warranty on the heat exchanger.

\*10 year warranty on the heat exchanger when the system filter is installed and registered together with the boiler on Connect.



## LPG kit

LPG conversion kits are available for the below boilers.

### SPECIFICATION

BOILER MODEL	COMBI ESP1 30	COMBI ESP1 35	CODE COMBI ESP1 33	CODE COMBI ESP1 38
Min. output (kW)	8	8.7	8.7	8.7
Max. output (kW)	24.2	24.2	24.2	24.2
Max DHW output (kW)	30.3	35.3	32.7	38.2

BOILER MODEL	HEAT H24	HEAT H30	SYSTEM S24IE	SYSTEM S30
Min. output (kW)	8	8	8	8
Max. output (kW)	24.2	30.3	24.2	30.3
Max DHW output (kW)	N/A	N/A	N/A	N/A

### NATURAL GAS TO LPG KIT CONTENTS

#### Each kit comprises:

- Gas valve (preset operation)
- Burner injector
- Data plate labels
- Instructions

Use of a preset gas valve ensures that set up is simple and easy, reducing commissioning time. Two data plate labels are provided in the kits inclusive of a new data plate providing LPG details and a label to retain boiler serial number identity.

NG-LPG CONVERSION KIT	PRODUCT CODE
LOGIC COMBI C24	215738
LOGIC COMBI C30	215739
LOGIC HEAT H24	215741
LOGIC HEAT H30	215742
LOGIC SYSTEM S30	215745
LOGIC COMBI ESP1 30	216423
LOGIC COMBI ESP1 35	215752
LOGIC CODE COMBI ESP1	215753
LOGIC CODE COMBI ESP1 38	215754



Easy to install and easy to use heating control



Service reminders displayed on screen



Boiler fault diagnostics displayed on screen



Load compensation provides easy Boiler Plus compliance

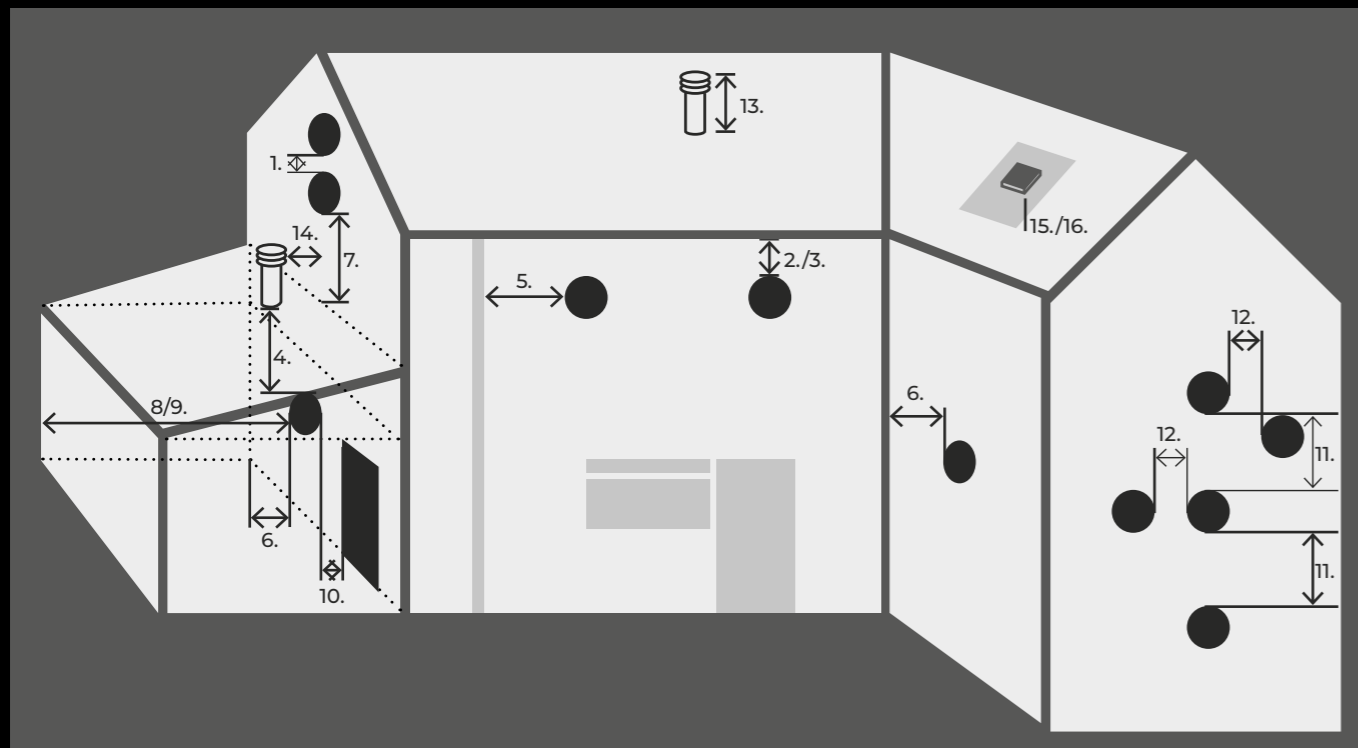


Measure outdoor weather to improve boiler efficiency



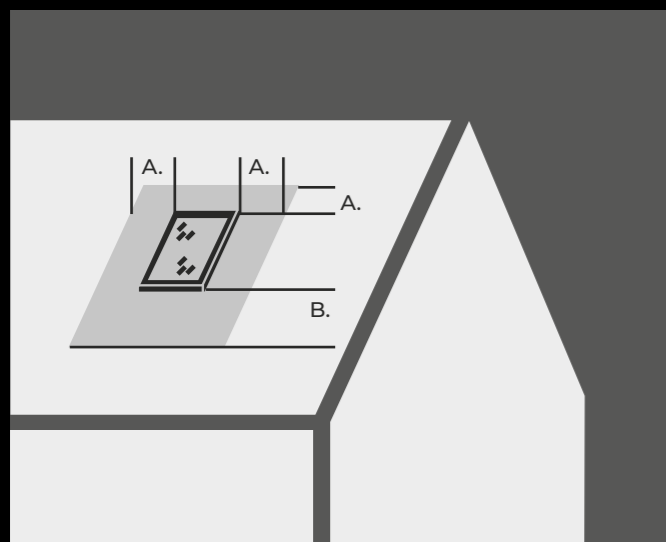
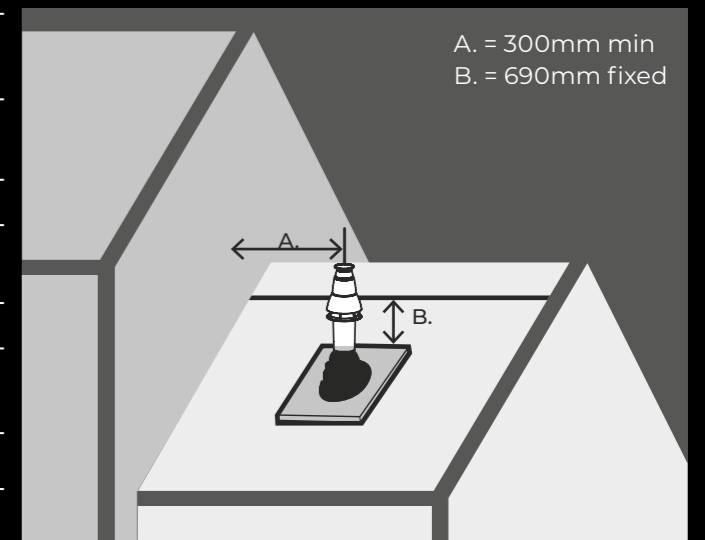
# FLUE SITING

There are a substantial number of flue options available with the Ideal ranges, giving excellent siting flexibility for almost all applications. The range of options include standard and telescopic flues as well as roof flue and powered vertical flue options. To ensure siting issues are kept to a minimum, High Level Flue Outlet kit options and Flue Deflector kits are available.

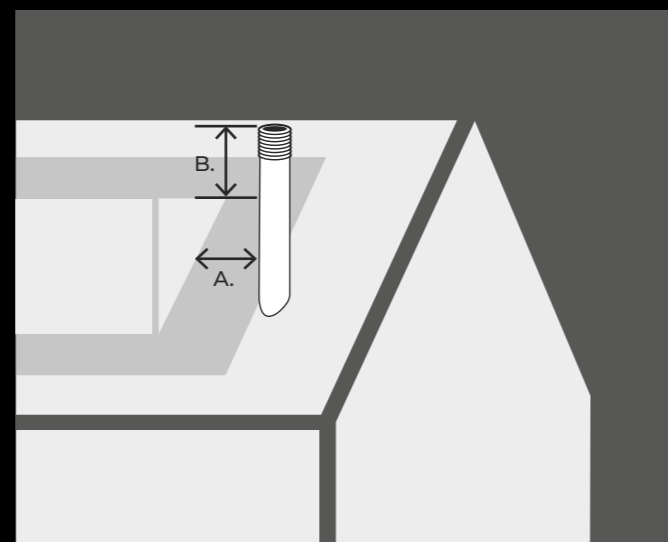


FLUE TERMINAL POSITION	MIN. SPACING
1. Directly below, above or alongside an opening window, air vent or other ventilation opening.	300mm
2. Below guttering, drain pipes or soil pipes BS5440-1	25mm* 75mm
3. Below eaves. BS5440-1	25mm* 200mm
4. Below balconies or car port roof. BS5440-1	25mm* 200mm
5. From vertical drain pipes or soil pipes. BS5440-1	25mm* 150mm
6. From an internal or external corner or to a boundary alongside the terminal. BS5440-1	25mm* 300mm)
7. Above ground, roof or balcony level.	300mm
8. From a surface or a boundary facing a terminal.	600mm
9. From a terminal facing a terminal.	1200mm
10. From an opening in a car port (e.g. door or window) into dwelling.	1200mm
11. Vertically from a terminal on the same wall.	1500mm
12. Horizontally from a terminal on the wall.	300mm

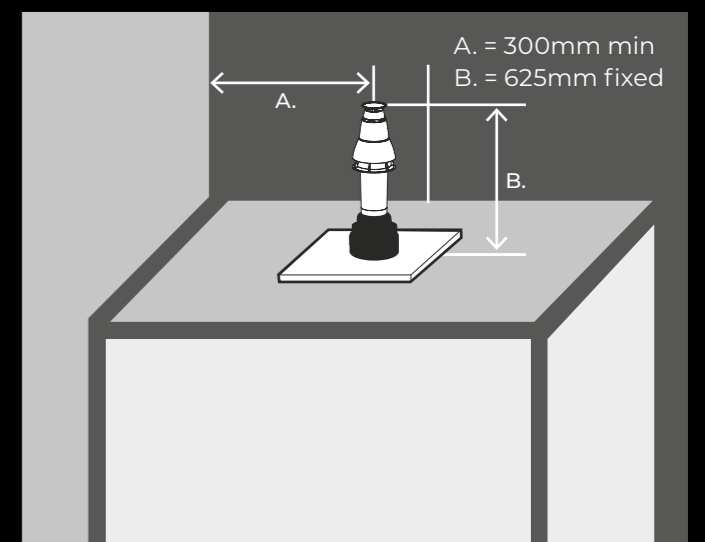
VERTICAL FLUES	MIN. SPACING
13. Above the roof pitch with roof slope of all angles. Above flat roof.	300mm 300mm
14. From a single wall face. From corner walls.	300mm 300mm
15. Below velux window.	2000mm
16. Above or side of velux window.	600mm



A. = 600mm B. = 2000mm. The flue terminal shall not penetrate the shaded area of the roof.



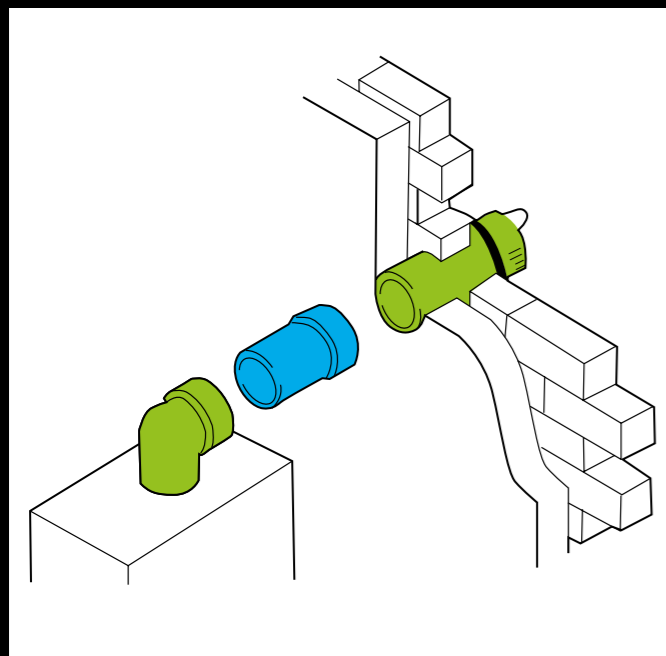
If chimney penetrates shaded area such that A is less than 300mm, B shall not be less than 300mm.



\* Only one reduction down to 25mm is allowable per installation otherwise BS5440-1 dimensions must be followed.

# FLUE OPTIONS

## HORIZONTAL CONCENTRIC 100MM DIAMETER



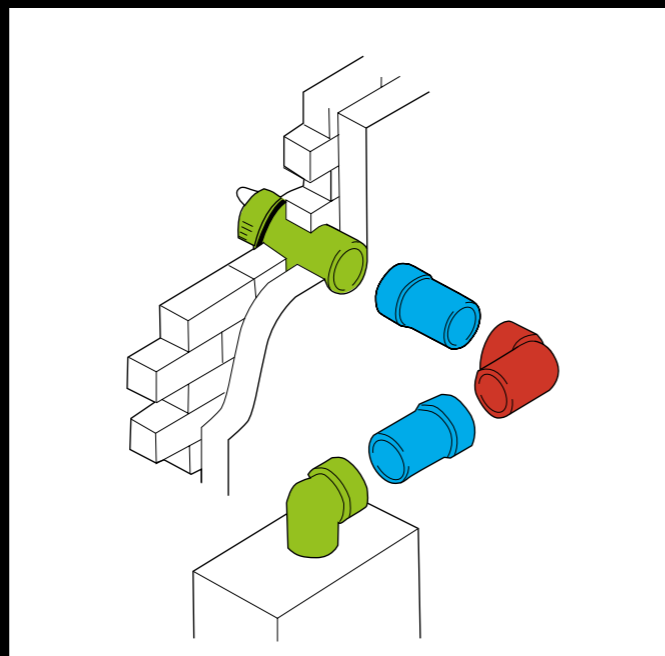
FLUE	PART NO.
Horizontal flue terminal (0.6m long)	208171
Flue extension 1m	203129

ALTERNATIVE FLUE TERMINALS	PART NO.
Telescopic horizontal flue terminal (0.6m long)*	208169
Telescopic horizontal flue terminal (1m long)**	208174

\***Telescopic Flue** - contains: Flue turret, telescopic flue incorporating a terminal and rubber wall seals.

\*\***Telescopic Horizontal Flue Terminal (1000mm long)** - contains: Flue turret, telescopic flue incorporating a terminal, rubber wall seals and instructions.

## HORIZONTAL FLUE WITH 1 X 90° ELBOW

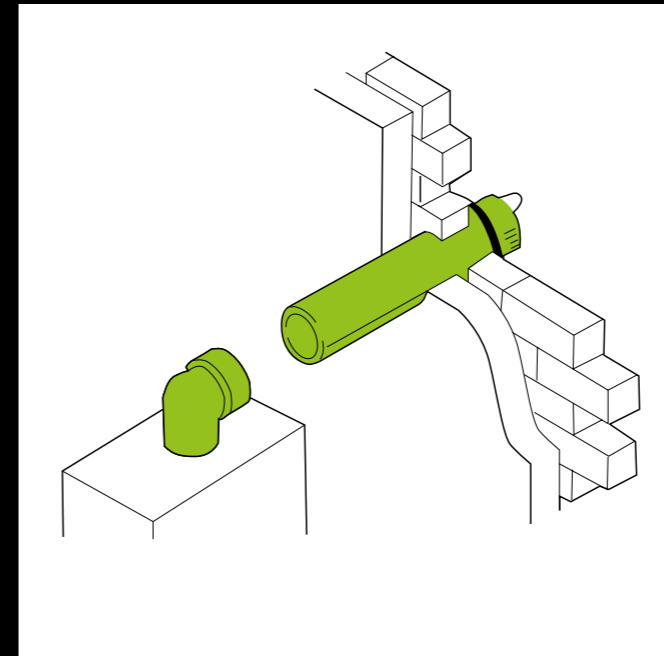


FLUE	PART NO.
Horizontal flue terminal (0.6m long)*	208171
Horizontal flue terminal (1m long)	217442
Flue extension 1m	203129
Flue 90° elbow pair	203130

**NOTE:** Please refer to the installation and service manual for assistance in calculating flue lengths. Adequate support must be provided for the flue in accordance with the installation instructions.

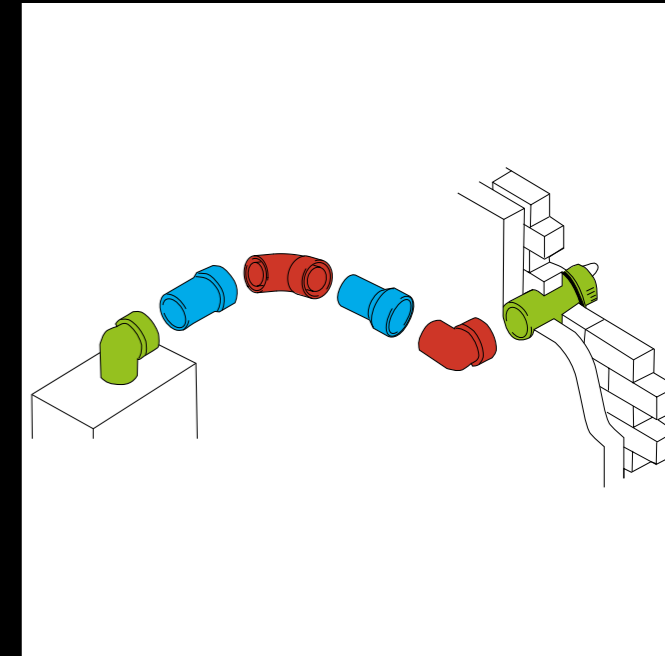
\***Horizontal Flue Terminal (600mm long)** - contains: Flue turret, non telescopic single piece flue incorporating a terminal and rubber wall seals.

## HORIZONTAL CONCENTRIC 100MM DIAMETER



FLUE	PART NO.
Horizontal flue terminal (1m long)*	217442

## HORIZONTAL FLUE WITH 2 X 90° ELBOW

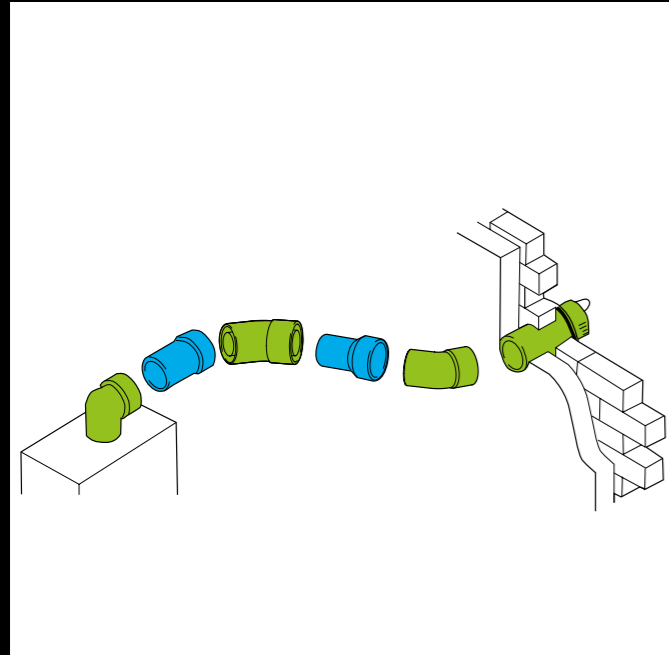


FLUE	PART NO.
Horizontal flue terminal (0.6m long)	208171
Flue extension 1m	203129
Flue 90° elbow pair	203130

**IMPORTANT.** The boiler must be installed in a vertical position in accordance to the installation instructions.

# FLUE OPTIONS

## HORIZONTAL FLUE WITH 2 X 45° ELBOW



FLUE	PART NO.
Horizontal flue terminal (0.6m long)	208171
Flue extension 1m	203129
Flue elbow 45° pair (60/100)	203131

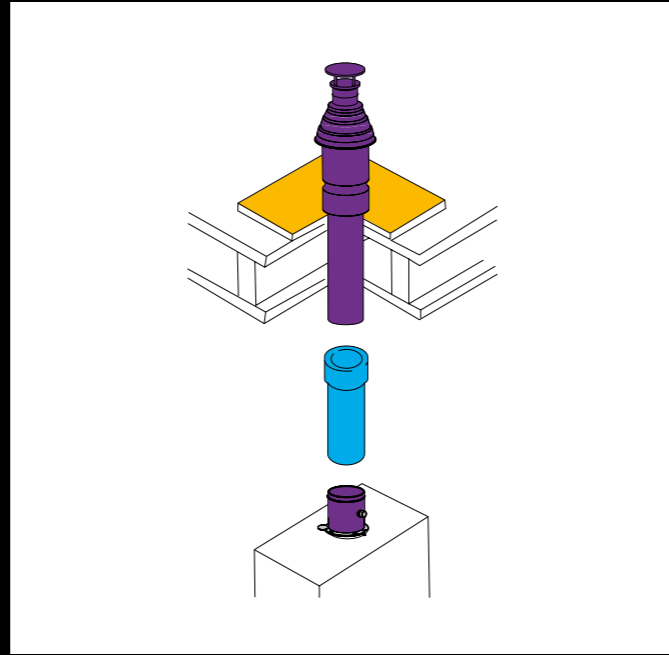
**NOTE:** Please refer to the installation and service manual for assistance in calculating flue lengths. Adequate support must be provided for the flue in accordance with the installation instructions.

### Horizontal Flue Terminal (1000mm long) -

contains: Flue turret, non telescopic single piece flue incorporating a terminal and rubber wall seals.

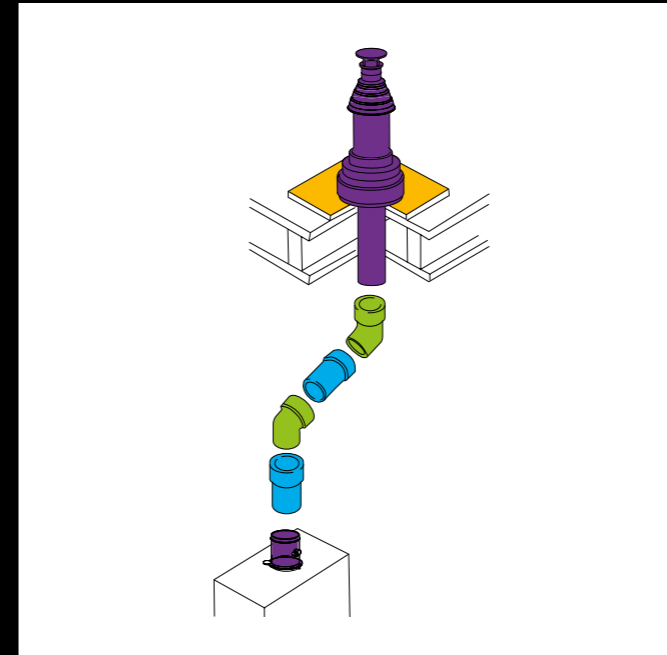
The flue system incorporates a removable flue outlet nose that utilises a push fit location system. This enables the installation of a Deflector, High level or Balcony flue kit without the removal of the whole 'B' pack terminal.

## ROOF FLUE SYSTEM



FLUE	PART NO.
Roof flue kit (with vertical connector)	211039
Flue extension 1m†	203129
Universal weather collar (suits any roof pitch)	152258
Flat roof weather collar	152259

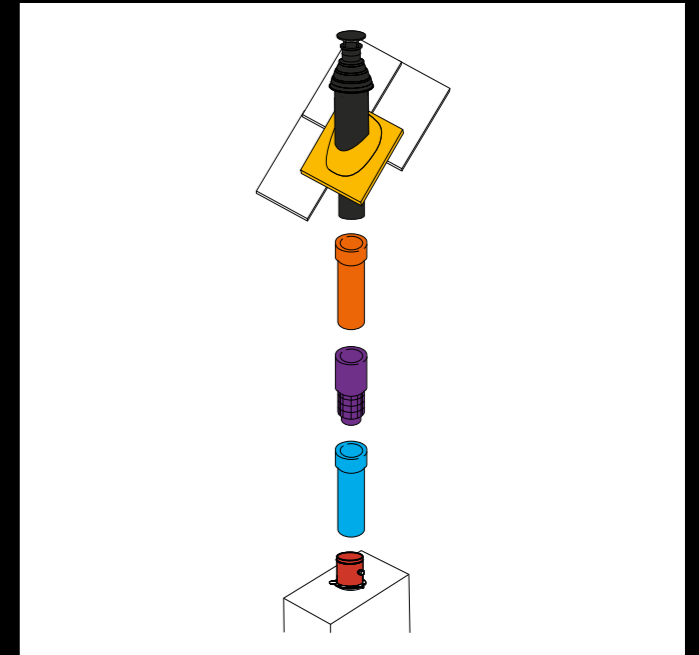
## ROOF FLUE SYSTEM WITH 2 X 45° ELBOW



FLUE	PART NO.
Roof flue kit (with vertical connector)	211039
Flue extension 1m†	203129
Flue elbow 45° pair (60/100)	203131
Universal weather collar (suits any roof pitch)	152258
Flat roof weather collar	152259

**NOTE:** Please refer to the installation and service manual for assistance in calculating flue lengths. Adequate support must be provided for the flue in accordance with the installation instructions.

## POWERED VERTICAL FLUE SYSTEM



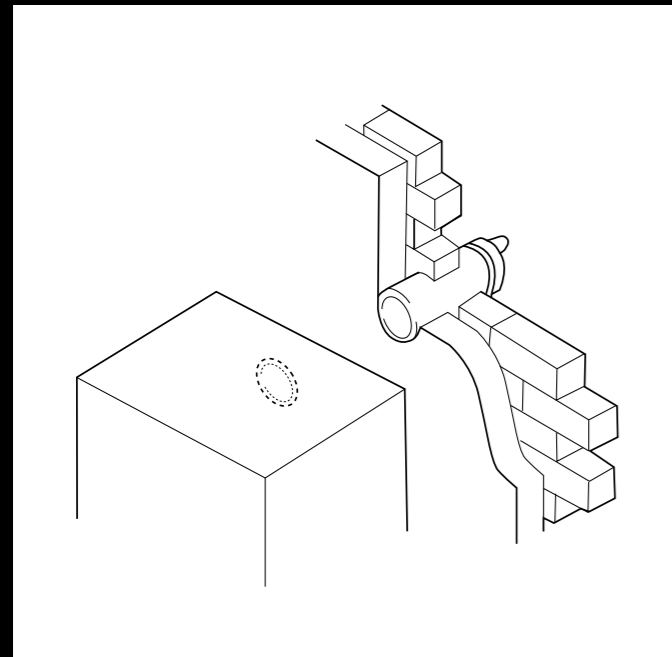
FLUE	PART NO.
Vertical powered flue kit	203136
Flue vertical connector	208175
Flue powered vertical terminal	203134
Universal weather collar (suits any roof pitch)	152258
Flat roof weather collar	152259
Flue extension 1m†	203129
Flue extension pipe 80 dia (pair)	203142

**NOTE:** Allows the boiler to be sited in a position where no access to an outside wall is available. Permits the concentric flue to run vertically from the top of the boiler and obtain air supply within the roof space, the secondary flue continuing to the external flue terminal. Offset applications are permissible though the maximum length is reduced. Where extension D packs are cut to length, the flared end connector must be retained.

# FLUEING OPTIONS LOGIC HEAT

Specifically designed to overcome the challenges of high-rise buildings, our kits are easy to install, allowing the boiler flue outlet to be extended external to the building upwards to provide a flue exit at high level, overcoming problems associated with plume emission. The kit is simple to retrofit if necessary.

An external 60mm diameter flue leads from the boiler terminal (which includes a 90° elbow at the flue exit) to terminate with a 90° elbow complete with grille. Push fit 1m extension pipes are used as required, and the fixing clips supplied support the system from the wall. Both 90° and 45° elbows are available to provide routing options.



**REAR OUTLET FLUE TERMINAL (55/80) - 80MM**

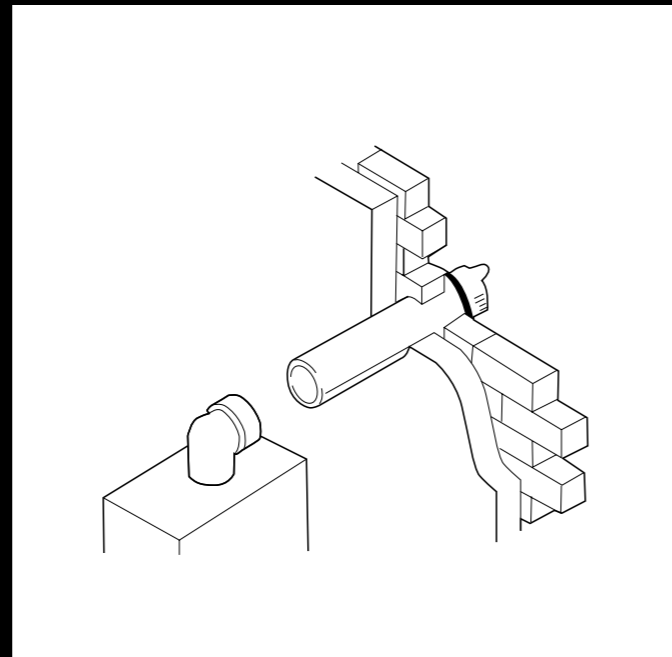
FLUE	PART NO.
Rear outlet flue outlet kit (55/80)	205990

**NOTE:** Length is wall thickness. Minimum wall thickness permissible is 115mm. No extensions are permitted.

FLUEING ACCESSORIES	PART NO.
Flue finishing kit (55/80)	206151

LOGIC HEAT ONLY	PART NO.
High level outlet kit (55/80)	205989

**NOTE:** Please refer to the installation and service manual for assistance in calculating flue lengths. For 1m extension and elbows use standard parts 203228/9 & 30.



**HIGH RISE FLUE KIT**

FLUE	PART NO.
Horizontal high rise flue (0.6m long)	223629
Horizontal high rise flue (1m long)	224701
Flue extension (1m) high rise	224702
Balcony kit high rise	224703

**NOTE:** Similar to 208171 but with an aluminium flue duct and unpainted air duct to comply with the revised Building Regulations for buildings over 18m high.

# FLUE ACCESSORIES

<p>Telescopic flue terminal (0.6m long)</p> <p>Ideal part no. 208169</p>	<p>Horizontal flue terminal (0.6m long)</p> <p>Ideal part no. 208171</p>	<p>Telescopic flue terminal (1m long)</p> <p>Ideal part no. 208174</p>	<p>Horizontal flue terminal (1m long)</p> <p>Ideal part no. 217442</p>	<p>Flue extension 0.5m, 1m or 2m</p> <p>Ideal part no. 0.5m 211037 1m 203129 2m 211038</p>	<p>Flue Bracket Kit</p> <p>Ideal part no. 205247</p>
<p>Flue deflector 60 dia</p> <p>Ideal part no. 208176</p>	<p>Flue elbow 90° kit (60/100) packaged</p> <p>Ideal part no. 203130</p>	<p>Flue elbow 45° kit (60/100) packaged (pair)</p> <p>Ideal part no. 203131</p>	<p>Roof flue kit inc. vertical connector</p> <p>Ideal part no. 211039</p>	<p>Flue vertical connector</p> <p>Ideal part no. 208175</p>	<p>Weather collar (universal) 100 dia</p> <p>Ideal part no. 152258</p>
<p>Weather collar (flat roof) 100 dia</p> <p>Ideal part no. 152259</p>	<p>Vertical Powered flue kit</p> <p>Ideal part no. 203136</p>	<p>Flue extension pipe 80 dia (pair) twin/vertical</p> <p>Ideal part no. 203142</p>	<p>Concentric flue screw retaining kit</p> <p>Ideal part no. 205024</p>	<p>Flue finishing kit</p> <p>Ideal part no. 155988 (55/80) 206151</p>	<p>Terminal wall plate</p> <p>Ideal part no. 211328 (System) 206164 (Heat)</p>
<p>Rear outlet flue (55/80) (Heat)</p> <p>Ideal part no. 205990</p>	<p>High level flue outlet kit (rear outlet only 55/80) (Heat)</p> <p>Ideal part no. 205989</p>	<p>Flue powered vertical terminal 100 dia</p> <p>Ideal part no. 203134</p>			
<p>Raised horizontal flue outlet kit</p> <p>Ideal part no. 208290</p> <p><b>NOTE:</b> A 1 metre vertical pipe is supplied as standard. Both horizontal and vertical lengths can be extended using extension pack D. Refer to installation instructions for maximum lengths.</p>	<p>Soffit kit</p> <p>Ideal part no. 211302</p>	<p>Balcony flue outlet kit</p> <p>Ideal part no. 208177</p>			

# FLUE OPTIONS

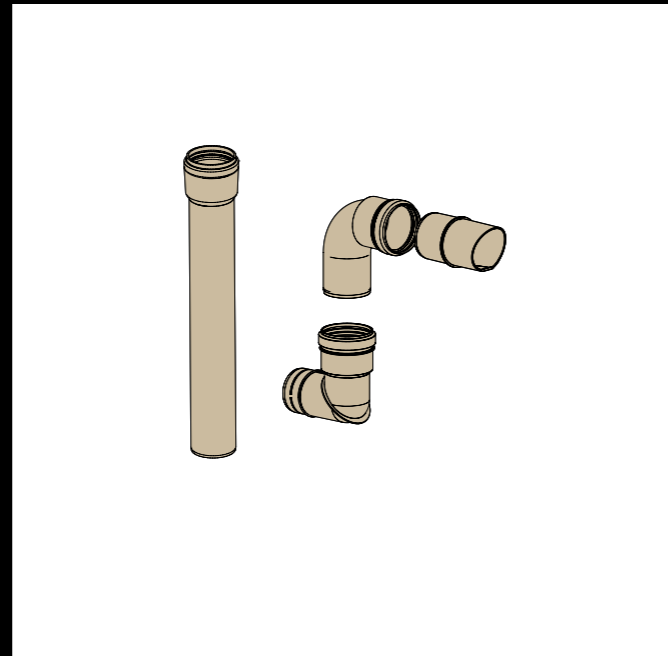
This easy to install kit allows the boiler flue outlet to be extended external to the building, upwards to provide a flue exit at high level, overcoming problems associated with plume emission. The kit is simple to retrofit if necessary.

An external 60mm diameter flue leads from the boiler terminal (which includes a 90° elbow at the flue exit) to terminate with a 90° elbow complete with grille. Push fit 1m extension pipes are used as required, and the fixing clips supplied support the system from the wall. Both 90° and 45° elbows are available to provide routing options.

## The kit comprises:

1 x Flue elbow, 1 x 60mm flue exit elbow, 1 x 60mm horizontal flue exit, 1 x 60mm x 500mm flue outlet, 1 x Extension pipe

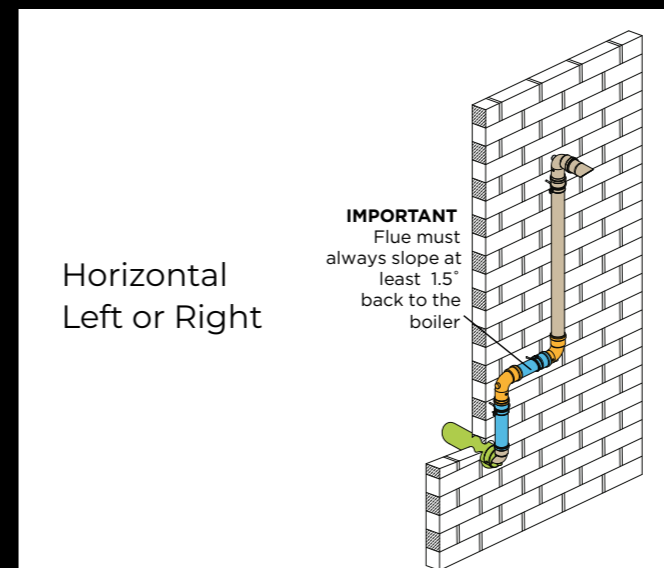
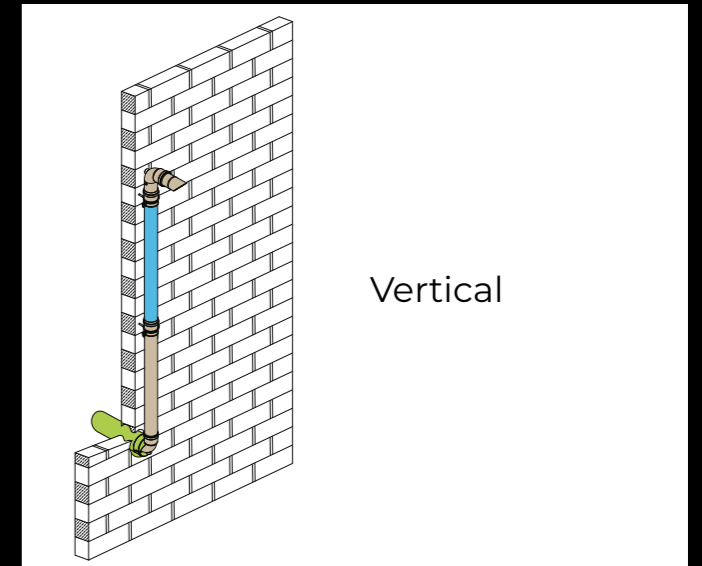
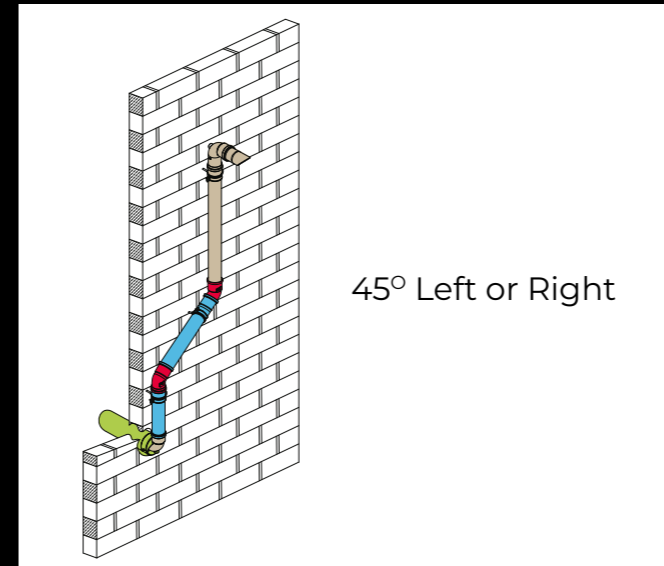
This kit is specified for use with the normal standard B pack. The standard terminal nose is replaced with the high level terminal.



FLUE	IDEAL PART NO.
Horizontal flue terminal (0.6m long)	208171
High level flue outlet kit	208178
Flue extension kit 60 dia (1m) - for high level flue outlet kit	203228
High level 90° elbow	203229
High level 45° elbow (pair)	203230

Diagram representative only

**NOTE:** Please refer to the installation and service manual for assistance in calculating flue lengths. Adequate support must be provided for the flue in accordance with the installation instructions.



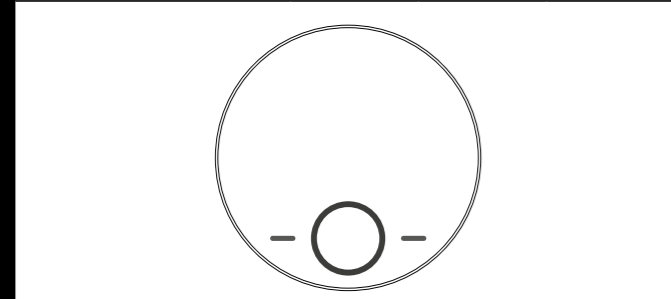
RESISTANCE	METRES
90° elbow	1.4
45° elbow (pair)	1.25

**NOTE:** If additional elbows to those supplied in the High Level Flue Outlet kit are used, deduct the following resistances (metres) from the maximum boiler flue length.

# INSTALLATION ACCESSORIES

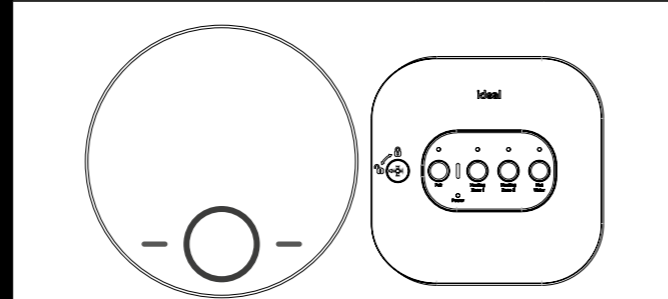
Our range of installation accessories are widely available due to our excellent distribution network. Our installation accessories include a range of brackets and stand off kits as well as a range of kits to help you deal with any situation.

## IDEAL HALO RF & WI-FI



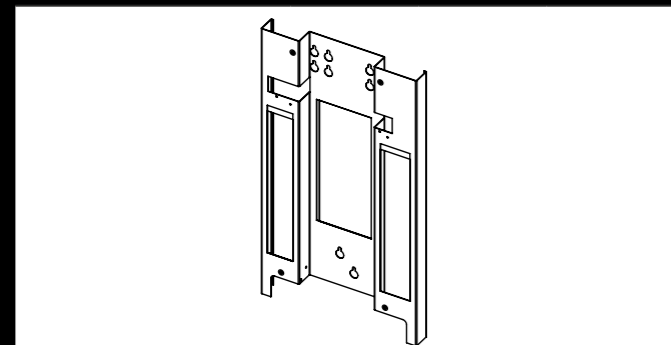
PART NO.	COMBI	HEAT	SYSTEM
222140 (RF)	✓	✗	✗
222142 (Wi-Fi)	✓	✗	✗
222141 (RF)	✗	✓	✓
222143 (Wi-Fi)	✗	✓	✓
221528 (Lite)	✓	✗	✗

## IDEAL HALO 2-ZONE UPGRADE KIT



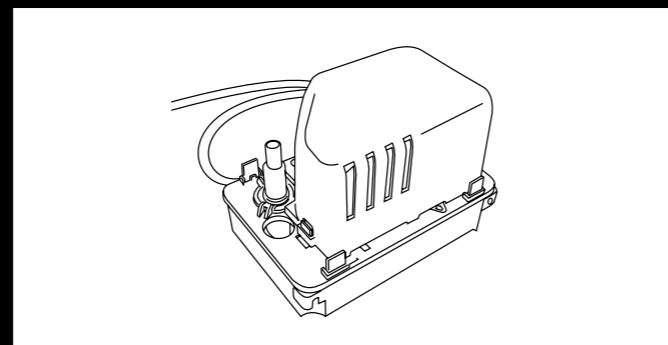
PART NO.	COMBI	HEAT	SYSTEM
222144	✓	✗	✗
222145	✗	✓	✓

## STAND OFF KIT



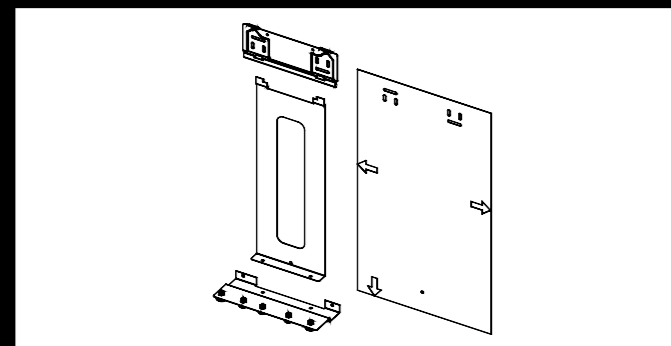
PART NO.	COMBI	HEAT	SYSTEM
211103 (Logic only)	✓	✗	✓
206153 (Logic only)	✗	✓	✗

## CONDENSATE PUMP KIT



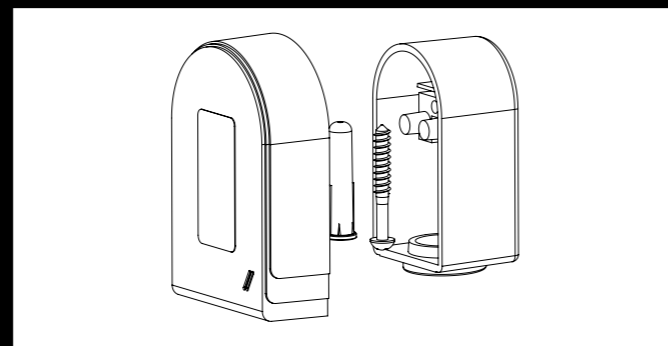
PART NO.	COMBI	HEAT	SYSTEM
159991	✓	✓	✓

## PRE-PIPING KIT



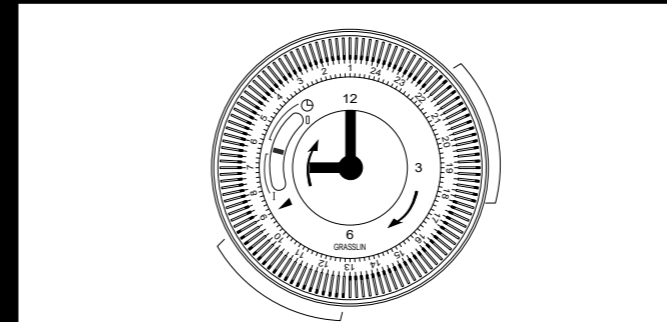
PART NO.	COMBI	HEAT	SYSTEM
211041	✓	✗	✗
211331	✗	✗	✓

## WEATHER COMPENSATION OUTDOOR SENSOR



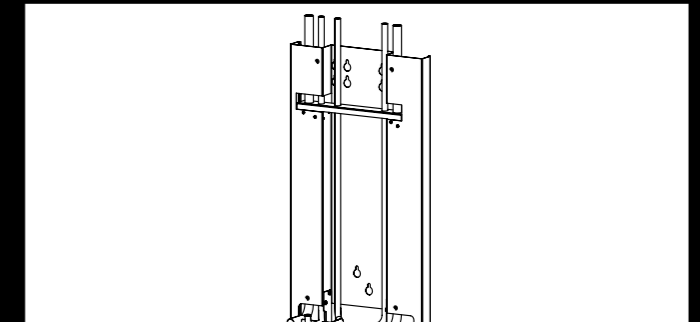
PART NO.	COMBI	HEAT	SYSTEM
216119	✓	✓	✓

## MECHANICAL TIMER



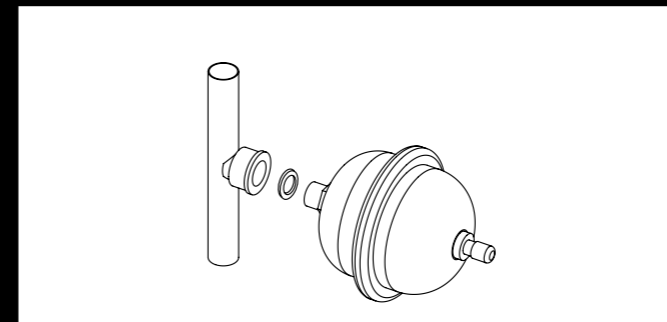
PART NO.	COMBI	HEAT	SYSTEM
204810	✓	✗	✗

## STAND OFF KIT (INC. PIPING)



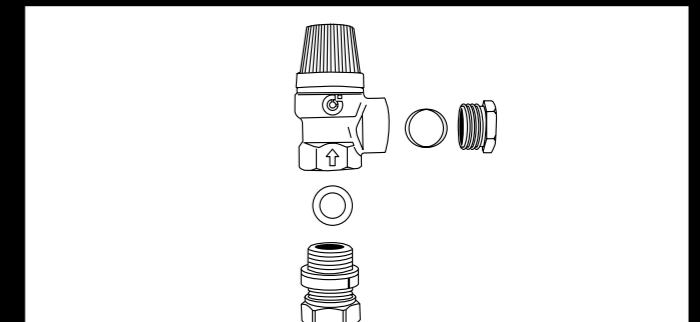
PART NO.	COMBI	HEAT	SYSTEM
211101 (Logic only)	✓	✗	✗
211330 (Logic only)	✗	✗	✓

## DHW EXPANSION VESSEL KIT



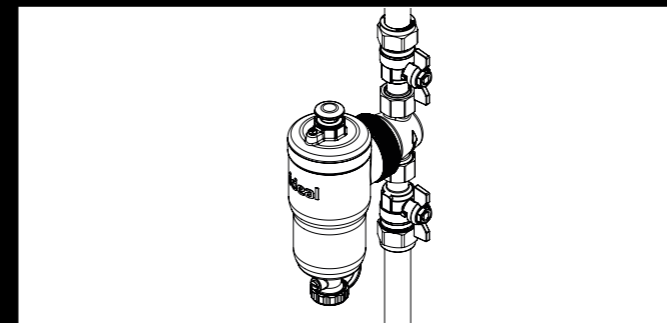
PART NO.	COMBI	HEAT	SYSTEM
205419	✓	✗	✗

## SECONDARY PRESSURE RELIEF VALVE KIT



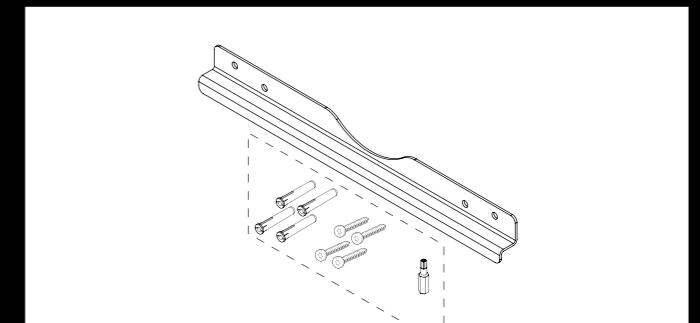
PART NO.	COMBI	HEAT	SYSTEM
204565	✓	✗	✓

## IDEAL SYSTEM FILTER



PART NO.	COMBI	HEAT	SYSTEM
222971	✓	✓	✓

## SECURITY BRACKET KIT



PART NO.	COMBI	HEAT	SYSTEM
205217	✓	✓	✓

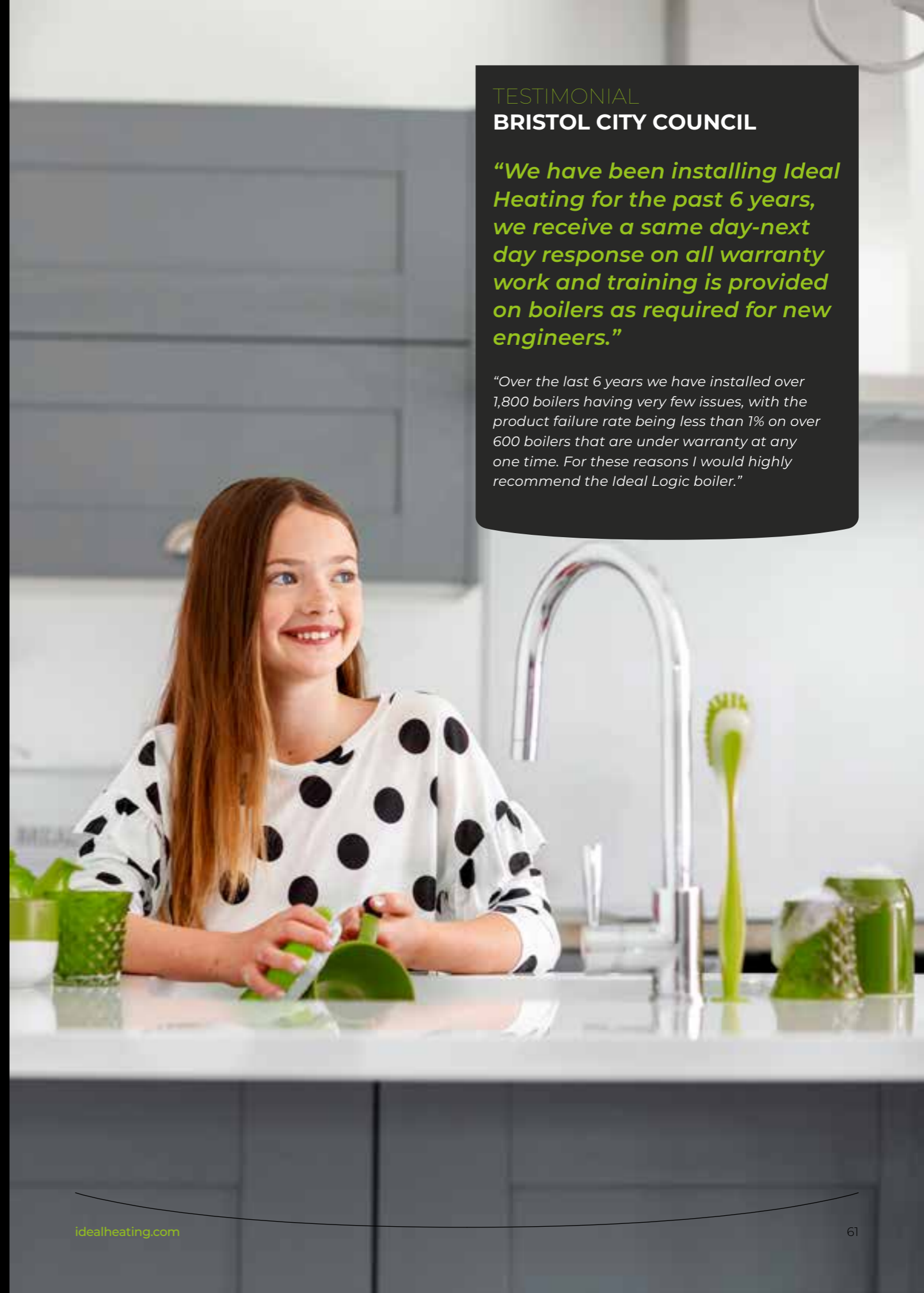
# LOGIC FLUEING OPTIONS & ACCESSORIES

CODE COMBI ESP1, COMBI ESP1 & SYSTEM	CODE	HEAT	CODE
Horizontal flue terminal (0.6m long)	208171	Horizontal flue terminal (0.6m long)	208171
Horizontal flue terminal (1m long)	217442	Telescopic horizontal flue terminal (0.6m long)	208169
Telescopic horizontal flue terminal (0.6m long)	208169	Telescopic horizontal flue (1m long)	208174
Telescopic horizontal flue terminal (1m long)	208174	Raised horizontal flue inc vertical flue adaptor and 1m extension	208290
Raised horizontal flue inc vertical flue adaptor and 1m extension	208290	0.5m flue extension	211037
0.5m flue extension	211037	1m flue extension	203129
1m flue extension	203129	2m flue extension	211038
2m flue extension	211038	Soffit kit	211302
Soffit kit	211302	Rear outlet flue (55/80 dia)	205990
Flue 90° flue elbow kit (60/100)	203130	Flue 90° flue elbow kit (60/100)	203130
Flue 45° flue elbow kit (60/100) (pair)	203131	Flue 45° flue elbow kit (60/100) (pair)	203131
High level flue outlet kit	208178	High level flue outlet kit	208178
Flue extension kit 60 dia (1m) - for high level flue outlet kit	203228	High level flue outlet kit (for rear flue only 55/80 dia)	205989
High level 90° elbow	203229	Flue extension kit 60 dia (1m) - for high level flue outlet kit	203228
High level 45° elbow (pair)	203230	High level 90° elbow	203229
Roof flue kit (includes vertical flue connector)	211039	High level 45° elbow (pair)	203230
Weather collar (universal) 100 dia	152258	Roof flue kit (includes vertical flue connector)	211039
Weather collar (flat roof) 100 dia	152259	Weather collar (universal) 100 dia	152258
Flue deflector 60 dia. Clips on end of flue and angles plumbing away	208176	Weather collar (flat roof) 100 dia	152259
Terminal wall plate RS replacement kit (Combi/ System)	211328	Flue deflector 60 dia. Clips on end of flue and angles plumbing away	208176
Condensate Pump kit	159991	Stand off kit	206153
Stand off kit (Combi ESP1 & System)	211103	Weather compensation kit	216119
Stand off kit inc piping (Combi ESP1)	211101	LPG conversion Logic Heat H24	215741
Stand off kit inc piping (System)	211330	LPG conversion Logic Heat H30	215742
Stand off kit (Code Combi ESP1)	211335	Terminal wall plate RS replacement kit (Heat)	206164
Stand off kit inc piping (Code Combi ESP1)	211333	Condensate Pump kit	159991
Weather compensation kit	216119		
LPG conversion Logic Combi ESP1 30	216423	<b>OTHER ACCESSORIES</b>	<b>CODE</b>
LPG conversion Logic Combi ESP1 35	215752	Halo wall bracket	220366
LPG conversion Logic Code Combi ESP1 33	215753	Zigbee booster	221132
LPG conversion Logic Code Combi ESP1 38	215754	System protection pack	222706
LPG conversion Logic System S30	215746	Flushing adaptor	225347
Balcony flue outlet kit	208177		

## TESTIMONIAL BRISTOL CITY COUNCIL

*“We have been installing Ideal Heating for the past 6 years, we receive a same day-next day response on all warranty work and training is provided on boilers as required for new engineers.”*

*“Over the last 6 years we have installed over 1,800 boilers having very few issues, with the product failure rate being less than 1% on over 600 boilers that are under warranty at any one time. For these reasons I would highly recommend the Ideal Logic boiler.”*



# ALFEA A.I. HEAT PUMPS

The Ideal Alfea heat pump is redefining how we heat our homes, providing low carbon heating that is efficient, reliable, and effortlessly simple to use.



## ENGINEERED FOR RELIABILITY

The Alfea A.I. range has a patented coaxial heat exchanger, a unique technology that has been developed to maximise the heat pump's performance.

This enables us to achieve unrivalled reliability and drives up efficiency. Our heat exchanger uses large water ways and tube in tube technology to ensure really good flow rates. We then capture all the energy from the heat exchanger by immersing it into our buffer tank and combining it with our backup immersion to speed up installation time and free up space.



## IDEAL HEAT PUMP CYLINDER

The Ideal stainless steel unvented heat pump cylinder is specifically designed for installation with the Ideal heat pump. Capacities are available up to 300 litres, which includes slimline models to ensure the Ideal heat pump range provides a flexible system solution.

### IDEAL HEAT PUMP DHW

		180	210	250	300
Heat loss (per hour)	watts	55	62	74	86
Capacity	litres	178	208	248	287
Height	mm	1306	1494	1744	1990
Diameter	mm	550	550	550	550
Weight (empty)	kg	34	38	43	47
Weight (full)	kg	212	246	291	334
Surface area of HP coil	m <sup>2</sup>	2.5	3	3	3
Immersion heater rating	kW	3	3	3	3
Secondary return connection		No	Yes	Yes	Yes

### IDEAL HEAT PUMP DHW SLIMLINE

		180	210
Heat loss (per hour)	watts	67	74
Capacity	litres	183	202
Height	mm	1791	1963
Diameter	mm	475	475
Weight (empty)	kg	38	40
Weight (full)	kg	219	237
Surface area of HP coil	m <sup>2</sup>	3	3
Immersion heater rating	kW	3	3
Secondary return connection		No	Yes

**25**

25 year warranty\*



Lightest cylinder on the market



Highly efficient multi-coil heat exchanger

### KEY FEATURES

- ✓ Surface area is maximised by a single external connection splitting into internal multi-pass coils
- ✓ High flow enables faster heat transfer
- ✓ Additional surface area increases flow rate and reduces pressure loss
- ✓ Wide range of capacities available:
  - Standard model (550mm wide) - 180, 210, 250 and 300 litres
  - Slimline model (475mm wide) - 180 and 210 litres



\*Subject to terms and conditions 25 year vessel warranty, 2 year parts and labour warranty when registered within 30 days of install



# ALFEA EXTENSA A.I. R32

5 6 8 10 kW

The Ideal Alfea uses intelligent technology to redefine how we heat our homes. Our new refrigerant balances industry-leading efficiencies with an ultra-low environmental impact, using patented technology to match performance with reliability.



Suitable for new build, social housing and retrofit



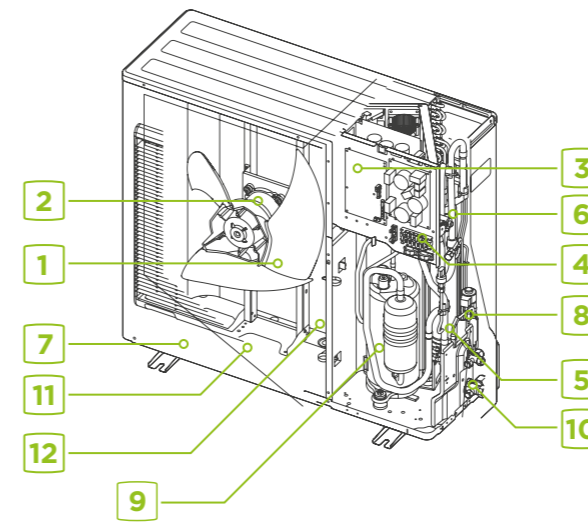
ERP A+++



Quiet Noise Level:  
35 dB(A)



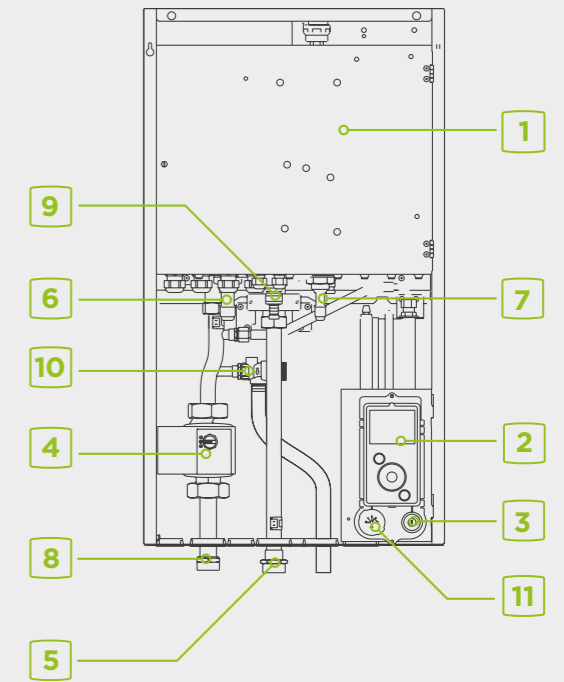
474% Rated  
Efficiency (COP)



## Alfea Extensa A.I. R32 OUTDOOR UNIT

### KEY

1. High performance and low noise fan
2. Electrical motor with variable "inverter" operation
3. "Inverter" control unit
4. Refrigerant storage bottle
5. 4-way valve
6. Anti-corrosion treated bodywork
7. Main circuit electronic expansion valve
8. Noise and thermally insulated "inverter" compressor
9. Refrigeration connection valves (flared connectors) with protective caps
10. High-performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes



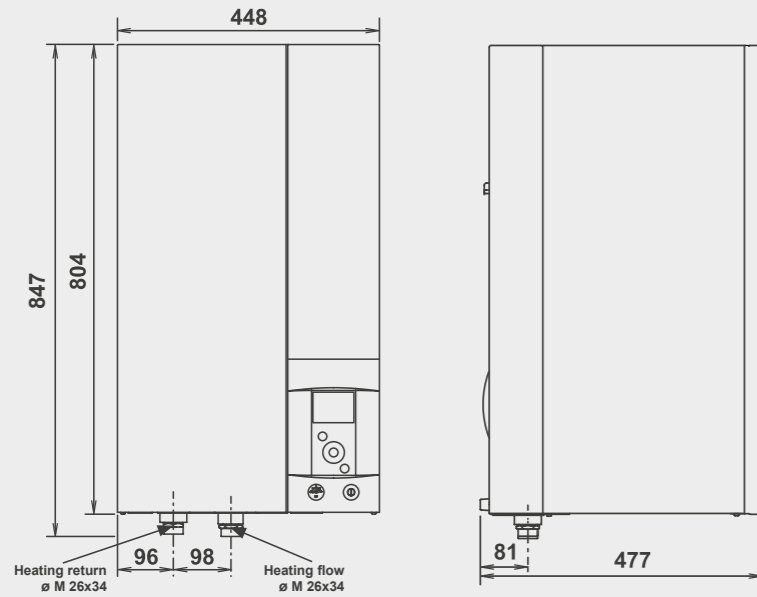
## Alfea Extensa A.I. R32 INDOOR UNIT

### KEY

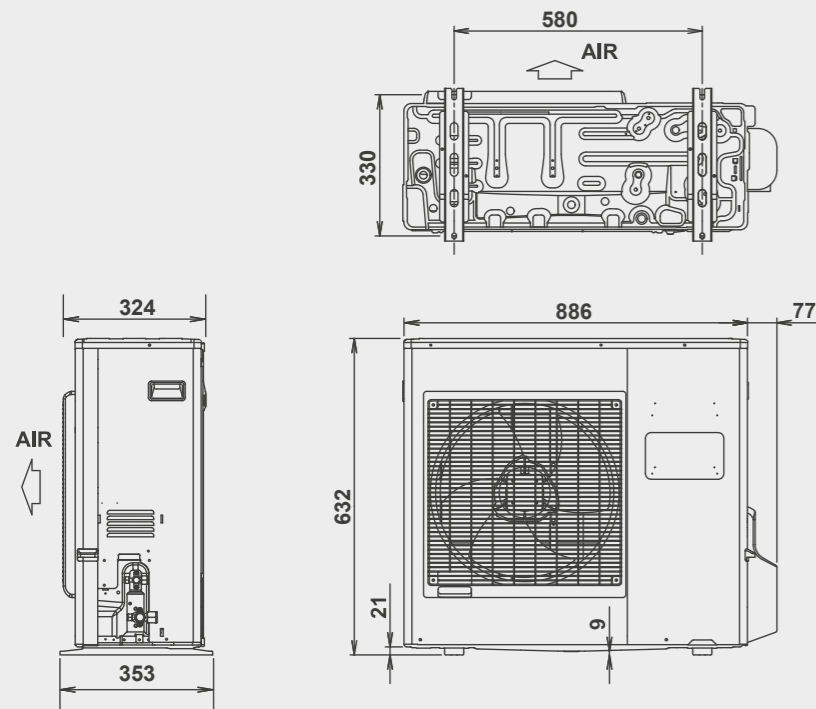
1. Wiring centre
2. Controller / User interface
3. Start/stop switch
4. Heating circulation pump
5. Heating flow connection
6. "Gas" refrigeration connection
7. "Liquid" refrigeration connection
8. Heating return connection
9. Drain valve
10. Safety valve
11. Pressure gauge

# DIMENSIONS

## INDOOR UNIT

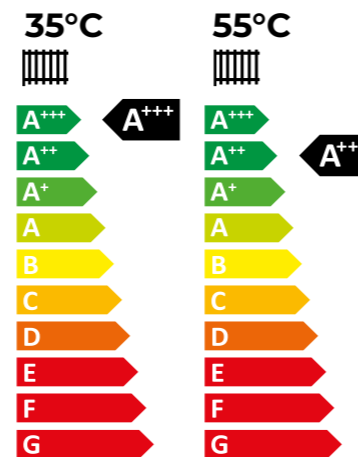


## OUTDOOR UNIT



## KEY FEATURES

- Highly efficient: COP up to 4.74\*
- Seasonal efficiency: up to 4.51 SCOP (MCS)
- Impressively quiet: outdoor unit 35 dB(A)\*\*
- Compatibility: radiator and underfloor heating systems
- Intuitive control: intelligent weather compensating controls
- Low carbon: zero ozone depletion and low global warming potential
- Incomparable reliability: patented co-axial heat exchanger
- Space saving: integrated buffer tank and expansion vessel
- Domestic Hot Water: hot, efficient and fast re-heat times with the Ideal heat pump cylinder



# TECHNICAL SPECIFICATION

	Alfea Extensa A.I R32 5	Alfea Extensa A.I R32 6	Alfea Extensa A.I R32 8	Alfea Extensa A.I R32 10
MCS ref	KIWA 00027/017 HP	KIWA 00027/018 HP	KIWA 00027/019 HP	KIWA 00027/020 HP
Heat Pump Space Heating [35°C]				
ErP Rating	A+++	A+++	A+++	A+++
$\eta_s$	175%	175%	177%	178%
SCOP	4.39	4.38	4.46	4.51
Heat Pump Space Heating [55°C]				
ErP Rating	A++	A++	A++	A++
$\eta_s$	125%	125%	128%	130%
SCOP	2.92	3.15	3.22	3.28
Capacity (kW)	4.50	5.50	7.50	9.50
Heating (A7/W35)				
Power Input (kW)	0.95	1.18	1.69	2.11
COP	4.74	4.64	4.43	4.50
Air Temperature Range (°C)	Min/Max	-20/ +35	-20/ +35	-20/ +35
Sound Data Outdoor Unit / Indoor Unit	Pressure Level 5m Outdoor / 1m Indoor dB(A)*	35/32	35/32	38/32
	Power Level dB(A)**	57/40	57/40	60/40
	MCS 020 (Q2) 4m to assessment point	Visible 42dB(A)   Pass	Visible 42dB(A)   Pass	Barrier (partial view) 42dB(A)   Pass
				Barrier (partial view) 42dB(A)   Pass
Primary Flow Rate	Min / Max (l/min)	8.1/16.2	9.9/19.8	13.5/26.9
Pipework Connection Sizes	Heating F/R (mm)	28	28	28
	Gas Pipe - refrigeration (in)	1/2	1/2	1/2
	Liquid Pipe - refrigeration (in)	1/4	1/4	1/4
Dimensions Outdoor Unit (mm)	Width	866	866	907
	Depth	324	324	349
	Height	632	632	716
Dimensions Indoor Unit (mm)	Width	448	448	448
	Depth	477	477	477
	Height	847	847	847
Weight (kg)	Outdoor Unit / Indoor Unit	39/42	39/42	42/42
	Electrical Supply (50 Hz)	230 V	230 V	230 V
Electrical Data	Phase	Single	Single	Single
	Maximum Running Current (A)	13	13	18
	Back-up Heater (kW)	3	3	3
	Fuse Rating - MCB Sizes Type D (A)****	16	16	25
	Refrigerant Charge (kg)****	R32	0.97	1.02

Dimensions based on the Ideal Extensa A.I. R32 5kW & 6kW.

\* Efficiency Co-efficient of Performance (COP) rated at EN14511 / EN14825 test conditions Water 35°C, Air 7°C.  
 \*\* 35dB(A) is the rated sound Pressure Level of the Alfea 5kW/6kW outdoor unit(s) from a distance of 5m

ErP in accordance with EN 14825, EN 12102-1, EN 14511, EN 16147. The energy efficiency provided may not correspond to the actual energy once installed in a building, as the efficiency is influenced by other factors such as heat loss in the distribution system and the capacity of the products in relation to building size and characteristics. \*Hydraulic unit: Sound pressure level at 5m from the appliance, 1.5m off the ground, open field directionality 2 / Outdoor unit: Sound pressure level at 5m from the device, halfway between the ground and top of the outdoor unit, open field directionality 2. \*\*The EN 12102-1, sound power level is a laboratory measurement of the emitted sound power. \*\*\* Calculation in accordance to MIS/MCS 020 Issue 1.3. \*\*\*\*Refrigerant R32 as per NF EN 378.1 standard. Thermal and acoustic performances are measured with 7.5m length refrigerant lines. \*\*\*\*\* Fuse rating for Outdoor Heat Pump Unit.

# ALFEA EXCELLIA A.I.

R410A 11 14 16 kW

The Ideal Alfea Excellia uses intelligent control to redefine how we heat our homes. With outputs suitable for larger homes or retrofit installations and patented heat exchanger technology the Alfea Excellia combines performance and reliability.



Suitable for new build, social housing and retrofit



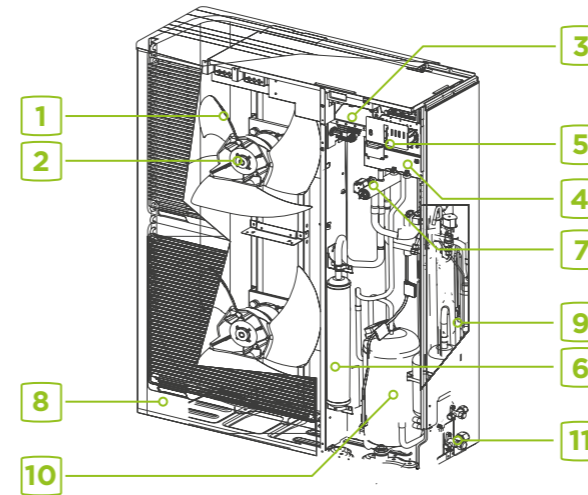
ERP A++



Quiet Noise Level:  
47 dB(A)



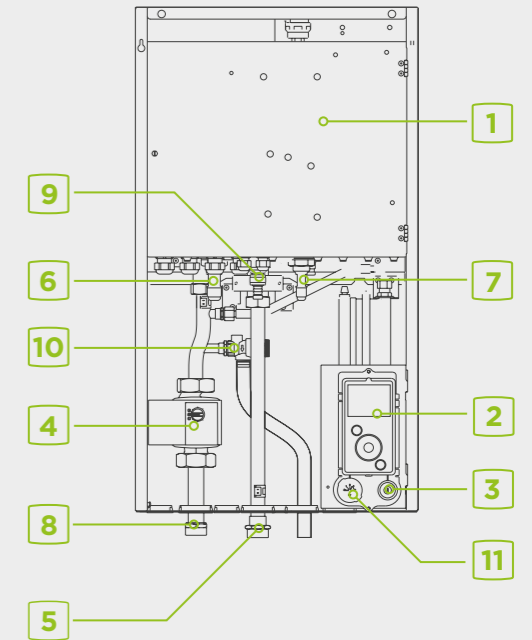
425% Rated  
Efficiency (COP)



## Alfea Excellia A.I. OUTDOOR UNIT

### KEY

1. High performance and low noise impeller
2. Electrical motor with variable "inverter" operation
3. "Inverter" control unit
4. Check lights and buttons
6. Refrigerant storage bottle
7. 4-way valve
8. Anti-corrosion treated bodywork
9. Main circuit electronic expansion valve
10. Noise and thermally insulated "inverter" compressor with liquid injection port
11. Refrigeration connection valves (flared connectors) with protective caps



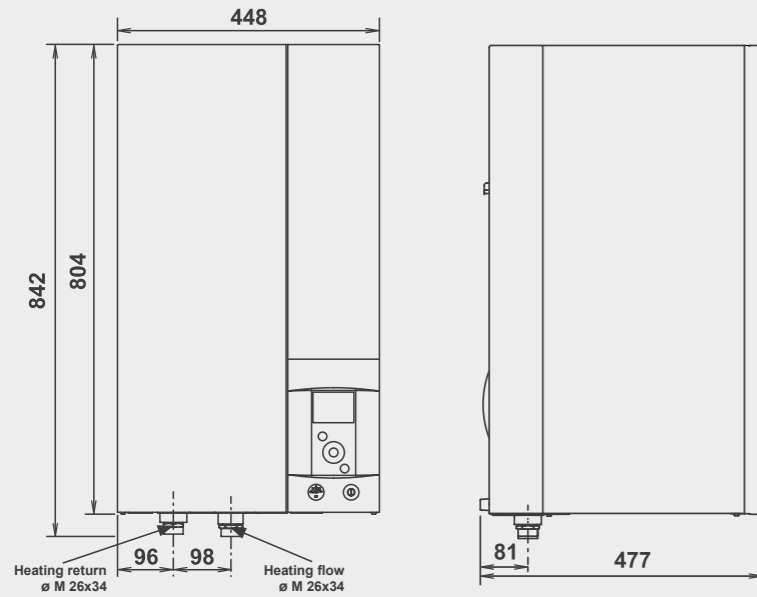
## Alfea Excellia A.I. INDOOR UNIT

### KEY

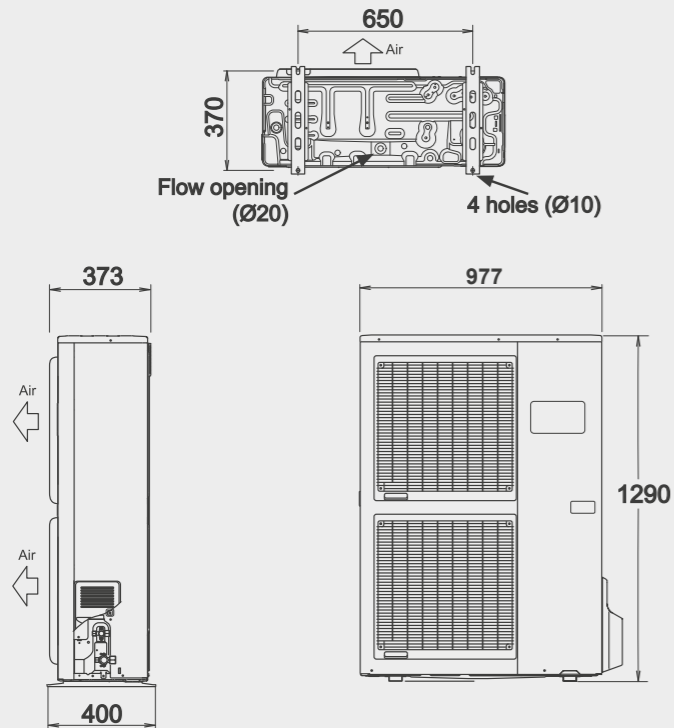
1. Electric box
2. Controller / User interface
3. Start/stop switch
4. Heating circulation pump
5. heating flow connection
6. "Gas" refrigeration connection
7. "Liquid" refrigeration connection
8. Heating return connection
9. Drain valve
10. Safety valve
11. Pressure gauge

# DIMENSIONS

## INDOOR UNIT



## OUTDOOR UNIT

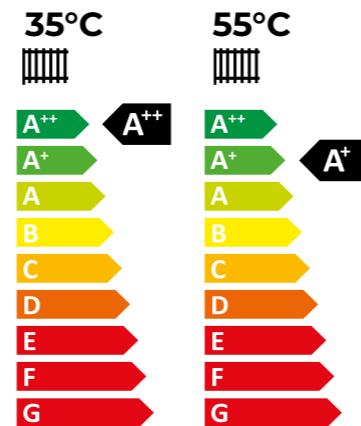


Dimensions based on the Ideal Excellia A.I. 11kW & 14kW.

\*Efficiency Co-efficient of Performance (COP) rated at EN14825 test conditions Water Water 35°C, Air 7°C. \*\*MCS SCoP is a theoretical indication of the anticipated efficiency of a heat pump aggregated over a year using standard climate data across Europe. It indicates the units of total heat energy generated (output) for each unit of energy (electricity) consumed (input). \*\*\*47dB(A) is the rated sound Pressure Level of the Alfea 11kW, 14kW & 16kW outdoor unit(s) from a distance of 5m, 1.5m off the ground, open field directionality.

## KEY FEATURES

- ✓ Highly efficient: COP up to 4.25\*
- ✓ Seasonal efficiency: up to 3.85 SCOP (MCS)\*\*
- ✓ Impressively quiet: outdoor unit 47 dB(A)\*\*\*
- ✓ Compatibility: radiator and underfloor heating systems
- ✓ Intuitive control: intelligent weather compensating controller
- ✓ Incomparable reliability: patented co-axial heat exchanger
- ✓ Space saving: integrated buffer tank and expansion vessel
- ✓ Domestic Hot Water: hot, efficient and fast re-heat times with the Ideal heat pump cylinder



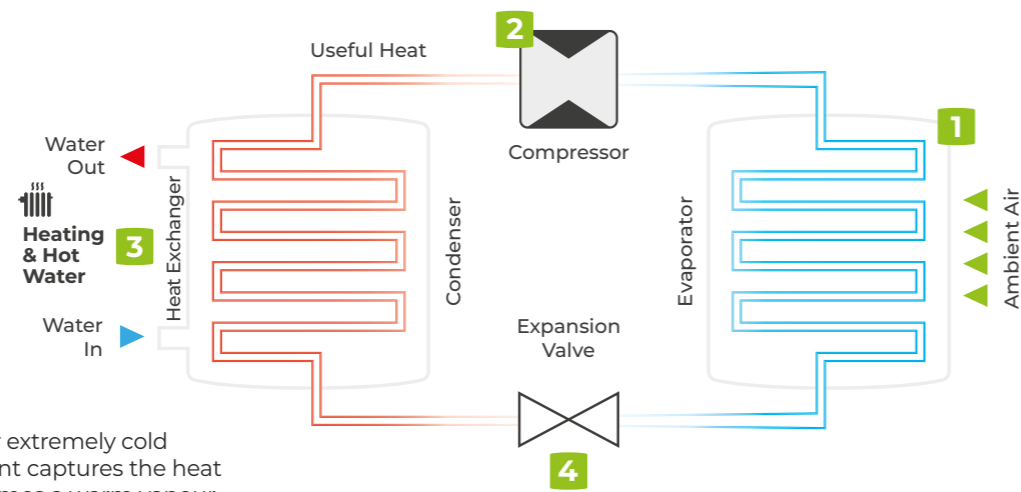
# TECHNICAL SPECIFICATION

		Alfea Excellia A.I R410A 11	Alfea Excellia A.I R410A 14	Alfea Excellia A.I R410A 16
	MCS ref	KIWA 00027/014 HP	KIWA 00027/015 HP	KIWA 00027/016 HP
Heat Pump Space Heating [35°C]	ErP Rating	A++	A++	A++
	$\eta_s$	151%	148%	149%
	SCOP	3.85	3.77	3.80
Heat Pump Space Heating [55°C]	ErP Rating	A+	A+	A+
	$\eta_s$	112%	113%	117%
	SCOP	2.87	2.90	3.00
Heating (A7/W35)	Capacity (kW)	10.80	13.50	15.17
	Power Input (kW)	2.54	3.23	3.70
	COP	4.25	4.18	4.10
Air Temperature Range (°C)	Min/Max	-20/+35	-20/+35	-20/+35
	Pressure Level 5m Outdoor / 1m Indoor dB(A)*	47/39	47/39	47/39
Sound Data Outdoor Unit / Indoor Unit	Power Level dB(A)**	69/46	69/46	69/46
	MCS 020 (Q2) 6m to assessment point	Barrier (no view) 42dB(A)   Pass	Barrier (no view) 42dB(A)   Pass	Barrier (no view) 42dB(A)   Pass
	Primary Flow Rate	Min / Max (l/min)	19.5/39.0	24.3/48.7
Pipework Connection Sizes	Heating F/R (mm)	28	28	28
	Gas Pipe - refrigeration (in)	5/8	5/8	5/8
	Liquid Pipe - refrigeration (in)	3/8	3/8	3/8
Dimensions Outdoor Unit (mm)	Width	977	977	900
	Depth	400	400	400
	Height	1290	1290	1290
Dimensions Indoor Unit (mm)	Width	448	448	448
	Depth	477	477	477
	Height	842	842	842
Weight (kg)	Outdoor Unit / Indoor Unit	92/42	92/42	99/42
	Electrical Supply (50 Hz)	230 V	230 V	400 V
Electrical Data	Phase	Single	Single	Triple
	Maximum Running Current [Nominal] (A)	22.0 [11.4]	25.0 [14.2]	10.5 [5.5]
	Back-up Heater (kW)	3	3	9
	Fuse Rating - MCB Sizes Type D (A)*****	32	32	20
	Refrigerant Charge (kg)****	R410A	2.5	2.5

ErP in accordance with EN 14825, EN 12102-1, EN 14511, EN 16147. The energy efficiency provided may not correspond to the actual energy once installed in a building, as the efficiency is influenced by other factors such as heat loss in the distribution system and the capacity of the products in relation to building size and characteristics. \*Hydraulic unit: Sound pressure level at 5m from the appliance, 1.5m off the ground, open field directionality 2 / Outdoor unit: Sound pressure level at 5m from the device, halfway between the ground and top of the outdoor unit, open field directionality 2. \*\*The EN 12102-1, sound power level is a laboratory measurement of the emitted sound power. It does not correspond to a measurement of the perceived sound power. \*\*\* Calculation in accordance to MIS:MCS 020 Issue 1.3. Thermal and acoustic performances are measured with 7.5m length refrigerant lines. \*\*\*\* Fuse rating for Outdoor Heat Pump Unit

# THE TECHNOLOGY

## HEAT PUMP CYCLE



- 1. CAPTURE**  
The fan passes ambient air over extremely cold liquid refrigerant. The refrigerant captures the heat from the ambient air and becomes a warm vapour.
- 2. COMPRESS**  
The warm refrigerant vapour passes through a compressor which produces hot refrigerant and usable heat.
- 3. EXCHANGE**  
The heat in the hot refrigerant is then transferred to the heating and hot water cylinder through a heat exchanger.

**4. EXPAND**  
Once the heat has been transferred to the house, the refrigerant passes through an expansion valve which reduces its temperature, making it really cold again and enabling it to capture heat from the ambient air, continuing the cycle.

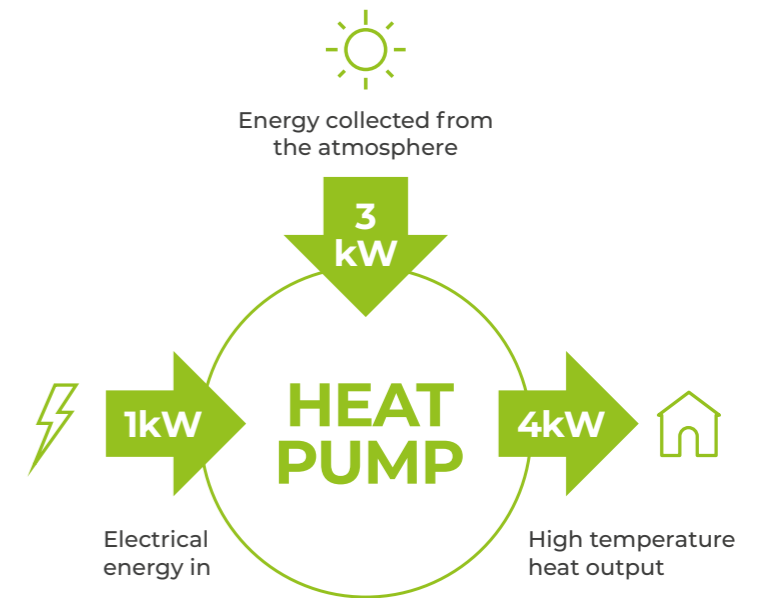
# WHY AIR SOURCE HEAT PUMPS?

## HIGHLY EFFICIENT PERFORMANCE

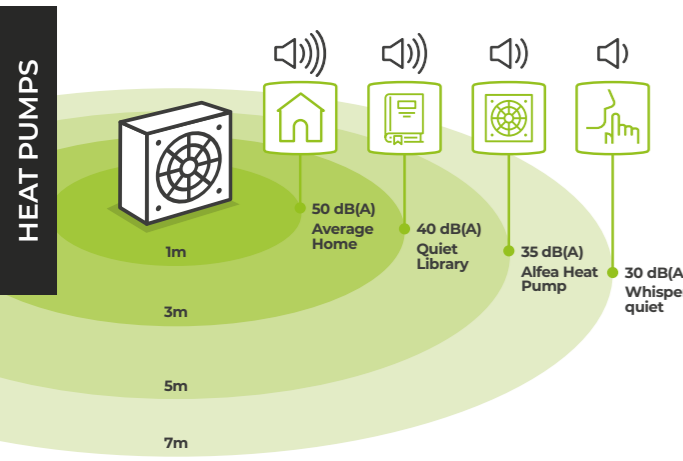
Heat pumps are a highly efficient, eco-friendly way of providing heating and hot water. By taking “free energy” from the air via a refrigerant cycle they generate heat without releasing any carbon emissions.

The COP measures how efficiently a heat pump performs by comparing the amount of electricity it uses to the amount of heat it is able to produce. For example, when a heat pump uses 1kW of electricity and captures 3kW of energy from the atmosphere, it will produce 4kW of heat and therefore have a COP of 4 (See diagram). The higher the COP, the more energy is generated per unit of electricity, and the more efficient the heat pump is.

When this calculation is carried out over the full heating season, it's called the seasonal coefficient of performance (SCOP). With SCOPs as high as 4.51 the Ideal Alfea is one of the most efficient heat pumps on the market.



# SOUND PRESSURE AND SOUND POWER



**SOUND POWER**  
The way we calculate the sound a heat pump makes is by measuring the sound power and sound pressure. The sound power level is the sound that is emitted from the unit in laboratory conditions and is displayed on the ErP label.

**SOUND PRESSURE**  
The sound noise level (sound pressure) measures the level of sound that you hear above the sound that already exists in the background. Sound pressure is lower than sound power. Alfea heat pumps have a sound pressure level that goes as low as 35 dB(A).



## BENEFITS OF THE ALFEA HEAT PUMP

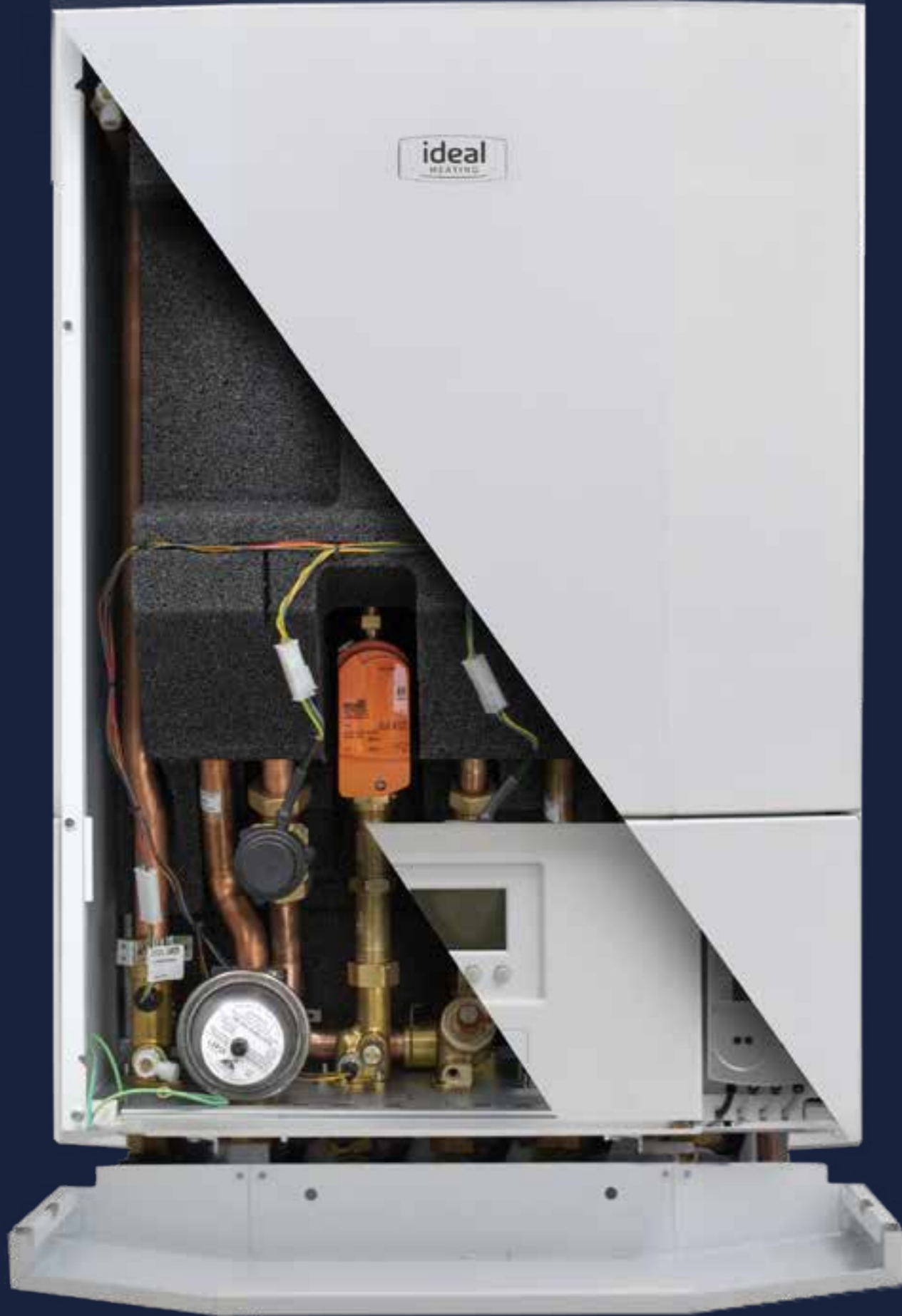
- ✓ Low carbon, zero ozone depletion and low global warming potential
- ✓ Noise levels as low as 35 dB(A)\*\*
- ✓ Highly efficient COP up to 4.74\*
- ✓ Seasonal efficiency up to 4.51 SCOP (MCS)
- ✓ No Glycol treatment required
- ✓ Eligible for government incentives
- ✓ Suitable for new build, social housing and retrofit
- ✓ Outdoor unit can be located up to 30m away

\* Efficiency Co-efficient of Performance (COP) rated at EN14511 / EN14825 test conditions Water 35°C, Air 7°C.  
\*\* 35dB(A) is the rated sound Pressure Level of the Alfea 5kW/6kW outdoor unit(s) from a distance of 5m.

# HEAT PUMP OPTIONS AND ACCESSORIES

ALFEA EXTENSA A.I.	CODE
Ideal Alfea Extensa A.I. 5 R32 Heat Pump (ODU&IDU)	AH526349
Ideal Alfea Extensa A.I. 6 R32 Heat Pump (ODU&IDU)	AH526346
Ideal Alfea Extensa A.I. 8 R32 Heat Pump (ODU&IDU)	AH526347
Ideal Alfea Extensa A.I. 10 R32 Heat Pump (ODU&IDU)	AH526348
ALFEA EXCELLIA A.I.	CODE
Ideal Alfea Excellia A.I. 11kW Heat Pump (ODU&IDU)	AH526245
Ideal Alfea Excellia A.I. 14 Heat Pump (ODU&IDU)	AH526243
Ideal Alfea Excellia A.I. 16 Heat Pump (ODU&IDU)	AH526244
HEAT PUMP HOT WATER CYLINDERS	CODE
Ideal 180 Heat Pump DHW Cylinder	219433
Ideal 180 Heat Pump DHW Cylinder Slim	219437
Ideal 210 Heat Pump DHW Cylinder	219434
Ideal 210 Heat Pump DHW Cylinder Slim	219438
Ideal 250 Heat Pump DHW Cylinder	219435
Ideal 300 Heat Pump DHW Cylinder	219436
ACCESSORIES	CODE
Rubber Antivibration Feet 600mm (x2)	AH809536
Wall hung support 560 mm	AH875033
Navilink A59 INTER	AH074232
Navilink RF Signal Extender	AH909197
Buffer Tank 25ltr	AH700436
Buffer Tank 50ltr	AH700437
High Flow Kit	74077
Kit master cascade	75318
Kit slave cascade	75320
Caleffi 548 Balancing vessel (decoupling bottle)	AH073957
Condensate collector Extensa R32 ODU	AH074049
Pre-insulated twin refrigerant pipes KM1 5M 1/2"-1/4"	809155
Pre-insulated twin refrigerant pipes KM1 7M 1/2"-1/4"	809157
Pre-insulated twin refrigerant pipes KM1 10M 1/2"-1/4"	809160
Pre-insulated twin refrigerant pipes KM1 25M 1/2"-1/4"	809165
Pre-insulated twin refrigerant pipes KM1 5M 5/8"-1/4"	809255
Pre-insulated twin refrigerant pipes KM1 7M 5/8"-1/4"	809257
Pre-insulated twin refrigerant pipes KM1 10M 5/8"-1/4"	809260
Pre-insulated twin refrigerant pipes KM1 25M 5/8"-1/4"	809265
Pre-insulated twin refrigerant pipes KM1 5M 5/8"-3/8"	809565
Pre-insulated twin refrigerant pipes KM1 7M 5/8"-3/8"	809567
Pre-insulated twin refrigerant pipes KM1 10M 5/8"-3/8"	809570
Pre-insulated twin refrigerant pipes KM1 25M 5/8"-3/8"	809575





# POD

## BY IDEAL HEATING

### MADE WITH EVERYONE IN MIND

Created with our years of experience in developing domestic boilers, Pod combines the efficiency available from an HIU with the simplicity of use expected from a boiler. Available in Indirect and Direct models, there is a variant for every heat network.

Pod has been designed to look and work like a domestic boiler. It features a straightforward user interface and is easy to control via its OpenTherm compatibility. Also like a domestic boiler, it will fit in a kitchen cupboard.

We've also thought about the needs of contractors and installers. As well as being easy to install, a first fix kit is also available. This allows all services

to be piped up, flooded, flushed and tested in advance, ensuring the distribution network has all dirt and debris removed which will lead to optimum performance of the Pod and the heat network once they are completed. The first fix kit can be installed ahead of Pod, allowing flexible management of expenditure and time onsite.

Maintenance is also undemanding. Many of Pod's parts have already proved themselves on our domestic boiler range, such as the CH water set and O-ring push fit and clip retained connections, meaning maintenance should be trouble-free for those used to working on Ideal Heating boilers. To make that even easier, Pod is fully serviceable from the front.

# POD INDIRECT

i305 i405 i505 i605 i705

Available in outputs of 30, 40, 50, 60 and 70kW, the indirect Pod HIU is designed to meet all the requirements of the heat network installer, operator and end user. Also available as direct appliances.



## FEATURES & SPECIFICATION

- 2 year warranty\*
- Robust steel chassis
- Internal insulation
- Copper pipework
- DZR Brass components
- Stainless steel brazed plate heat exchanger
- Advanced control features, simple to use interface
- Compact unit with minimal installation clearances
- Appliance fully serviceable from the front
- WRAS Approved Product
- BESA Tested / Published

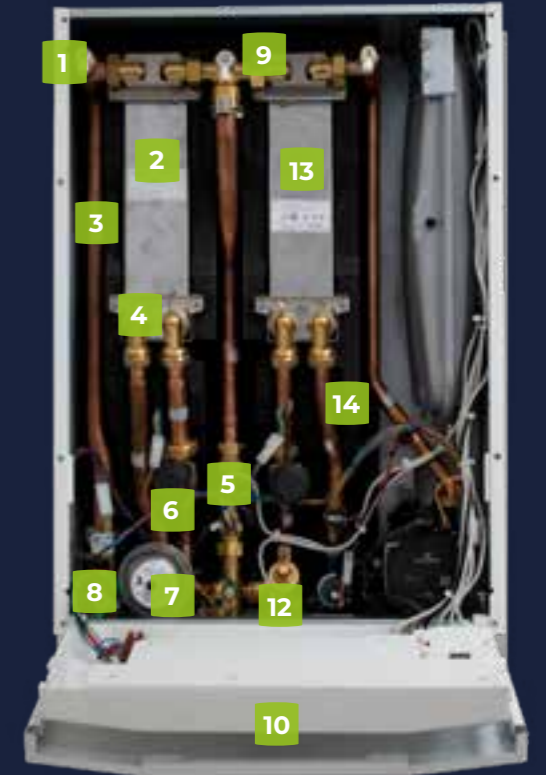
## CLEARANCES & DIMENSIONS



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

- ↑ TOP: 100mm, for front cover removal and ventilation
- ↔ SIDES: 20mm
- FRONT: 25mm min, 450mm recommended for servicing
- ↓ BOTTOM: 80mm

\*2 year warranty subject to Terms and Conditions. 2 years parts and labour warranty available subject to being commissioned by Ideal Heating or an authorised representative. Terms & conditions available on request.



## HIU ASSEMBLY

### KEY

1. Steel chassis
2. DHW plate heat exchanger
3. Copper pipework
4. Quick release connections
5. Heat meter (optional)
6. DHW PICV
7. DHW water hammer arrestor
8. DHW flow limiter
9. Drain / vent points
10. First fix kit with temporary filling loop
11. Reversible service connections
12. Primary inlet strainer
13. CH PICV
14. Internal clamshell insulation
15. CH circulation pump
16. CH expansion vessel



## PERFORMANCE DATA

### PRIMARY

MODEL		i305	i405	i505	i605	i705
Maximum Working Pressure	bar	16				
Maximum Temperature	°C	85				
Maximum Flow Rate DHW	l/h	1330				
	l/sec	0.37				
Maximum Flow Rate CH	l/h	1330				
	l/sec	0.37				
Minimum Pressure Differential	kPa	50				
Maximum Pressure Differential	kPa	600				
Nominal Temperatures DHW	°C	70 / 25				
Nominal Flow Rate DHW	l/sec	0.16	0.21	0.27	0.32	0.37
Nominal Temperatures CH	°C	70 / 40				
Nominal Flow Rate CH Radiator	l/sec	0.04				
Nominal Flow Rate CH Underfloor	l/sec	0.04				

### SECONDARY DHW

MODEL		i305	i405	i505	i605	i705
Nominal Heat Input	kW	30	40	50	60	70
Maximum Working Pressure	bar	10				
Maximum Temperature	°C	60				
Nominal Temperatures DHW	°C	10 / 55				
Nominal Flow Rate DHW	l/sec	0.16	0.21	0.27	0.32	0.37
	l/min	9.6	12.6	16.2	19.2	22.2

### SECONDARY CH

MODEL		i305	i405	i505	i605	i705
Nominal Heat Input	kW	5	5	5	5	5
Maximum Working Pressure	bar	2.5				
Maximum Temperature	°C	80				
Nominal Temperatures CH Radiator	°C	55 / 35				
Nominal Flow Rate CH Radiator	l/sec	0.06				
Nominal Temperatures CH Underfloor	°C	45 / 35				
Nominal Flow Rate CH Underfloor	l/sec	0.12				
Available Pump Head	kPA	35				

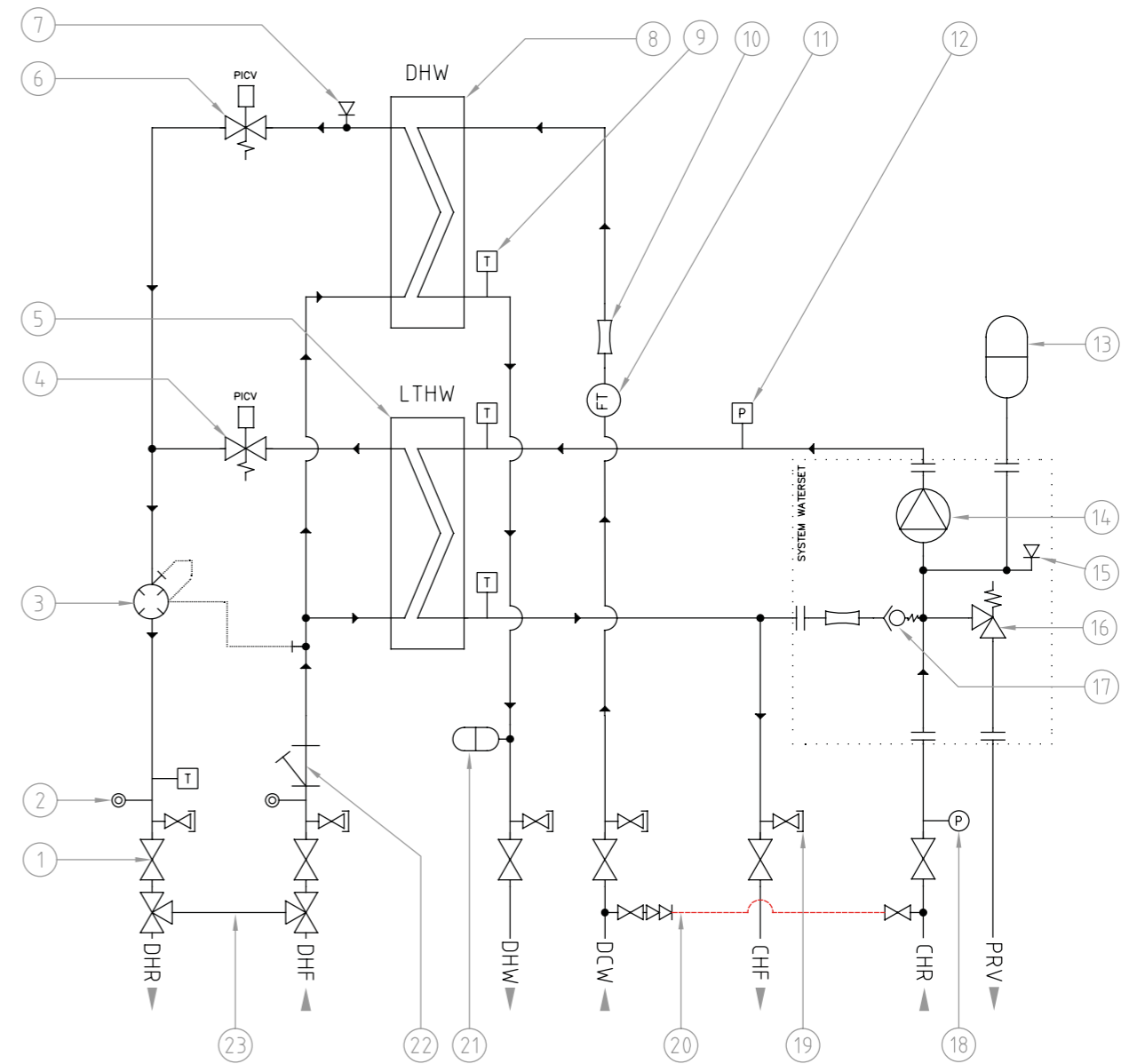
## GENERAL DATA

MODEL		i305	i405	i505	i605	i705
Service Pipework Connection Size	mm	22				
Pressure Relief Discharge Pipe Size	mm	15				
Electrical Supply		230v - 50Hz				
Fuse Rating	A	3				
Power Consumption	W	53.1				
Credit Control Input	V	230				
Modulating Input		OpenTherm				
Dry Weight	kg	29.0	29.4	29.8	30.3	30.6

OPTIONAL KITS	i305	i405	i505	i605	i705
Hardwired Mbus Heat Meter	✓	✓	✓	✓	✓
Wireless OMS Mbus Heat Meter	✓	✓	✓	✓	✓
Temporary Flushing Loop	✓	✓	✓	✓	✓
Permanent Flushing Bypass Valve	✓	✓	✓	✓	✓
Ideal System Filter (CH)	✓	✓	✓	✓	✓
Outside Thermostat Kit	✓	✓	✓	✓	✓
Programmable Room Thermostat Kit	✓	✓	✓	✓	✓
Credit Control Valve Kit	✓	✓	✓	✓	✓

## PERFORMANCE DATA

MODELS	INDIRECT					
	POD i305	POD i405	POD i505	POD i605	POD i705	
Primary Supply Temperature @ 50kPa	70°C					
Primary Flow Rate	l/s	0.188	0.265	0.314	0.310	0.319
Primary Return Temperature	°C	30.3	31.7	30.0	25.1	22.0
Primary Pressure Drop	kPa	52	51	48	51	54
DHW Flow Rate (60°C @ 50K rise)	l/min	9.3	11.9	15.4	19.4	24.5
DHW Output (60°C @ 50K rise)	kW	30.6	41.0	50.7	54.9	61.6
Primary Flow Rate	l/s	0.16	0.23	0.27	0.31	0.33
Primary Return Temperature	°C	24.3	27.1	25.9	18.6	23.0
Primary Pressure Drop	kPa	51	50	53	49	59
DHW Flow Rate (55°C @ 45K rise)	l/min	9.7	13.3	16.7	19.0	22.4
DHW Output (55°C @ 45K rise)	kW	30.7	39.9	50.6	57.9	63.4
Primary Flow Rate	l/s	0.16	0.21	0.26	0.29	0.32
Primary Return Temperature	°C	22.7	23.57	22.85	23.2	22.3
Primary Pressure Drop	kPa	53	51	51	54	55
DHW Flow Rate (50°C @ 40K rise)	l/min	11.6	14.9	18.4	21.3	25.5
DHW Output (50°C @ 45K rise)	kW	31.0	39.3	50.6	56.9	63.9
Primary Flow Rate	l/s	0.12	0.18	0.22	0.26	0.29
Primary Return Temperature	°C	18.2	20.3	19.2	20.4	20.8
Primary Pressure Drop	kPa	57	52	48	47	50
DHW Flow Rate (45°C @ 35K rise)	l/min	11.1	15.3	19.5	21.8	24.6
DHW Output (45°C @ 35K rise)	kW	26.4	35.3	46.9	51.1	58.4
CH Flow Rate (65°C - 35°C)	l/min	4.29				
CH Output (65°C - 35°C)	kW	6.4				
CH Flow Rate (70°C - 40°C)	l/min	4.07				
CH Output (70°C - 40°C)	kW	5.29				
<b>ELECTRICAL</b>						
Electrical Power Supply Voltage	AC Voltage	230				
Frequency	Hz	50				
Maximum Power Consumption	W	53.1				
Standby Power Consumption	W	2.8				
Appliance Protection Rating	IP	20				
Sound Power Level Indoors (LWA)	dB	48.6				



### KEY

- |                            |                             |                                 |
|----------------------------|-----------------------------|---------------------------------|
| 1 Service Valves           | 9 Temperature Sensors       | 17 CH Automatic Bypass          |
| 2 Pressure Test Points     | 10 DHW Flow Restrictor      | 18 CH Pressure Gauge            |
| 3 Heat Metering (Optional) | 11 DHW Flow Turbine         | 19 Combined Drain / Vent        |
| 4 CH PICV Control Valve    | 12 CH Pressure Sensor       | 20 Temporary Filling Loop       |
| 5 CH Plate Heat Exchanger  | 13 CH Expansion Vessel 8L   | 21 DHW Hammer Arrestor          |
| 6 DHW PICV Control Valve   | 14 CH Circulation Pump      | 22 Primary Strainer             |
| 7 Combined Drain / Vent    | 15 CH Auto-air Vent         | 23 Flushing Bypass Valve (Opt.) |
| 8 DHW Plate Heat Exchanger | 16 CH Pressure Relief Valve |                                 |

# POD DIRECT

D30 D40 D50 D60

Available in outputs of 30, 40, 50 & 60kW, the direct Pod HIU is designed to meet all the requirements of the heat network installer, operator and end user. Also available as indirect appliances.



## FEATURES & SPECIFICATION

- 2 year warranty\*
- Robust steel chassis
- Internal insulation
- Copper pipework
- DZR Brass components
- Stainless steel brazed plate heat exchanger
- Advanced control features, simple to use interface
- Compact unit with minimal installation clearances
- Appliance fully serviceable from the front
- WRAS Approved Product
- BESA Tested / Published\*\*

## CLEARANCES & DIMENSIONS



All dimensions in mm

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



\*2 year warranty subject to Terms and Conditions. 2 years parts and labour warranty available subject to being commissioned by Ideal Heating or an authorised representative. Terms & conditions available on request.

\*\* The BESA UK HIU Test Regime applies to indirect appliances only. For indirect DHW test results refer to published reports for the POD Indirect appliances.



## HIU ASSEMBLY

### KEY

1. Steel chassis
2. DHW plate heat exchanger
3. Copper pipework
4. Quick release connections
5. Heat meter (optional)
6. DHW PICV
7. DHW water hammer arrestor
8. DHW flow limiter
9. Reversible service connections
10. Primary inlet strainer
11. CH PICV
12. Internal clamshell insulation
13. Drain / vent points

## PERFORMANCE DATA

### PRIMARY

MODEL		D30	D40	D50	D60
Maximum Working Pressure	bar	16			
Maximum Temperature	°C	85			
Maximum Flow Rate DHW	l/h	1330			
	l/sec	0.37			
Maximum Flow Rate CH	l/h	1330			
	l/sec	0.37			
Minimum Pressure Differential	kPa	50			
Maximum Pressure Differential	kPa	600			
Nominal Temperatures DHW	°C	70 / 25			
Nominal Flow Rate DHW	l/sec	0.16	0.21	0.27	0.32
Nominal Temperatures CH	°C	70 / 40			
Nominal Flow Rate CH Radiator	l/sec	N / A			
Nominal Flow Rate CH Underfloor	l/sec	N / A			

### SECONDARY DHW

MODEL		D30	D40	D50	D60
Nominal Heat Input	kW	30	40	50	60
Maximum Working Pressure	bar	10			
Maximum Temperature	°C	60			
Nominal Temperatures DHW	°C	10 / 55			
Nominal Flow Rate DHW	l/sec	0.16	0.21	0.27	0.32
	l/min	9.6	12.6	16.2	19.2

### SECONDARY CH

MODEL		D30	D40	D50	D60
Nominal Heat Input	kW	N / A			
Maximum Working Pressure	bar	N / A			
Maximum Temperature	°C	N / A			
Nominal Temperatures CH Radiator	°C	N / A			
Nominal Flow Rate CH Radiator	l/sec	N / A			
Nominal Temperatures CH Underfloor	°C	N / A			
Nominal Flow Rate CH Underfloor	l/sec	N / A			
Available Pump Head	kPa	N / A			

## GENERAL DATA

MODEL		D30	D40	D50	D60
Service Pipework Connection Size	mm	22			
Pressure Relief Discharge Pipe Size	mm	15			
Electrical Supply		230V - 50Hz			
Fuse Rating	A	3			
Power Consumption	W	8.6			
Credit Control Input	V	230			
Modulating Input		OpenTherm			
Dry Weight	kg	22.9	23.3	23.7	24.2

OPTIONAL KITS	D30	D40	D50	D60
Hardwired Mbus Heat Meter	✓	✓	✓	✓
Wireless OMS Mbus Heat Meter	✓	✓	✓	✓
Temporary Flushing Loop	✓	✓	✓	✓
Permanent Flushing Bypass Valve	✓	✓	✓	✓
Ideal System Filter (CH)	✓	✓	✓	✓
Outside Thermostat Kit	✓	✓	✓	✓
Programmable Room Thermostat Kit	✓	✓	✓	✓
Credit Control Valve Kit	✓	✓	✓	✓

## POD PRODUCT CODES

### NEW POD HIU INDIRECT

UIN	Description
224651	FIRST FIX KIT POD HIU INDIRECT
225238	POD HIU INDIRECT I305 NO METER
225239	POD HIU INDIRECT I405 NO METER
225240	POD HIU INDIRECT I505 NO METER
225241	POD HIU INDIRECT I605 NO METER
225242	POD HIU INDIRECT I705 NO METER
225247	POD HIU INDIRECT I305 WIRED MBUS METER
225248	POD HIU INDIRECT I405 WIRED MBUS METER
225249	POD HIU INDIRECT I505 WIRED MBUS METER
225250	POD HIU INDIRECT I605 WIRED MBUS METER
225251	POD HIU INDIRECT I705 WIRED MBUS METER
225256	POD HIU INDIRECT I305 WIRELESS MBUS METER
225257	POD HIU INDIRECT I405 WIRELESS MBUS METER
225258	POD HIU INDIRECT I505 WIRELESS MBUS METER
225259	POD HIU INDIRECT I605 WIRELESS MBUS METER
225260	POD HIU INDIRECT I705 WIRELESS MBUS METER

### NEW POD HIU DIRECT

UIN	Description
224652	FIRST FIX KIT POD HIU DIRECT
225243	POD HIU INDIRECT D30 NO METER
225244	POD HIU INDIRECT D40 NO METER
225245	POD HIU INDIRECT D50 NO METER
225246	POD HIU INDIRECT D60 NO METER
225252	POD HIU INDIRECT D30 WIRED MBUS METER
225253	POD HIU INDIRECT D40 WIRED MBUS METER
225254	POD HIU INDIRECT D50 WIRED MBUS METER
225255	POD HIU INDIRECT D60 WIRED MBUS METER
225261	POD HIU INDIRECT D30 WIRELESS MBUS METER
225262	POD HIU INDIRECT D40 WIRELESS MBUS METER
225263	POD HIU INDIRECT D50 WIRELESS MBUS METER
225264	POD HIU INDIRECT D60 WIRELESS MBUS METER

### NEW POD HIU ACCESSORIES

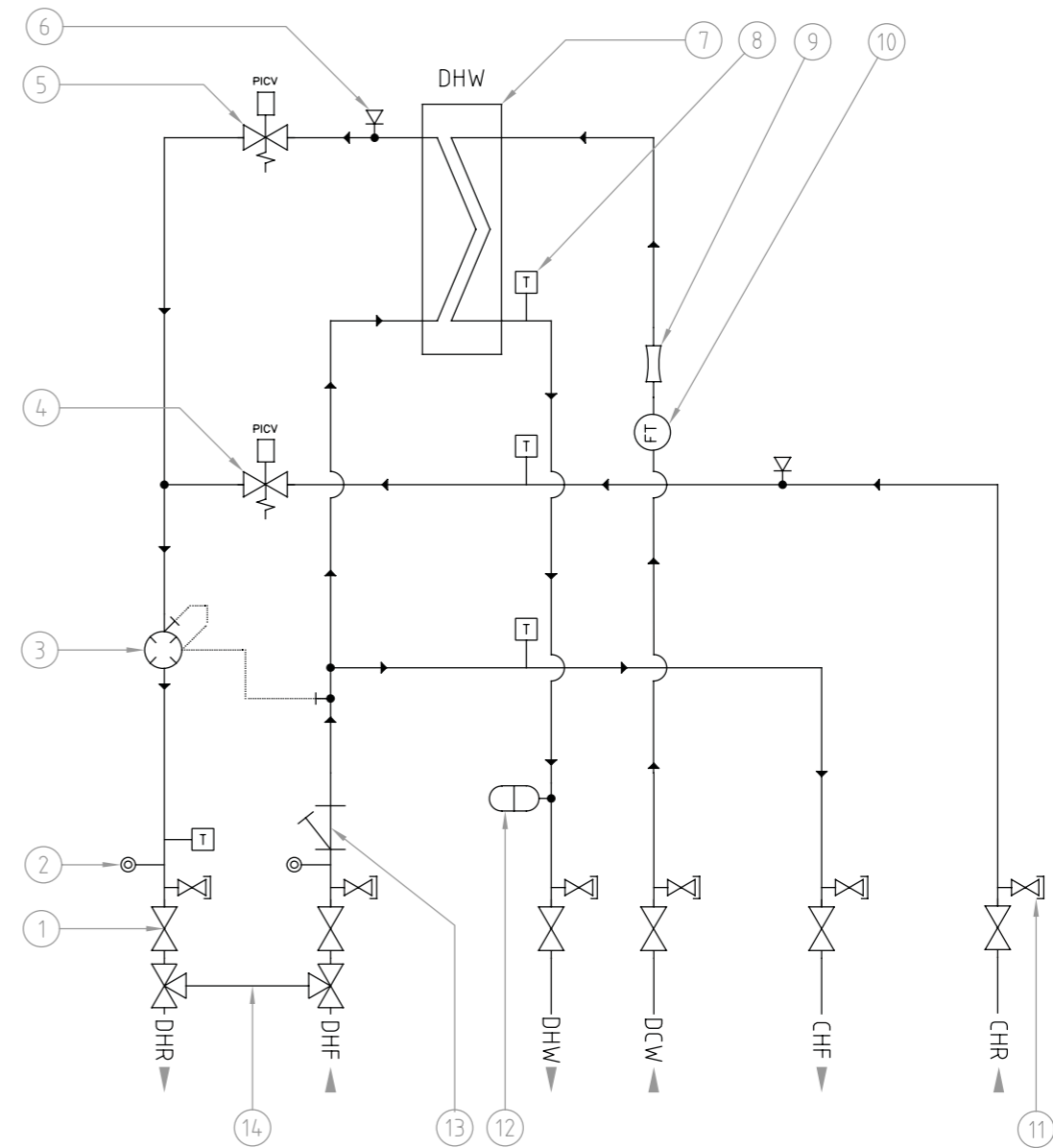
UIN	Description
224656	CREDIT CONTROL VALVE KIT
224657	FLUSHING BYPASS PERMANENT KIT
225425	FLUSHING BYPASS UNION KIT (1 PAIR)
224658	FLUSHING BYPASS TEMPORARY KIT
224687	HEAT METER WIRED MBUS KIT
224688	HEAT METER WIRELESS MBUS KIT

### DOMESTIC ACCESSORIES COMPATIBLE WITH POD

- 217528 IDEAL SYSTEM FILTER 22MM
- 216119 WEATHER COMPENSATION KIT
- 221528 HALO LITE CONTROLLER

## PERFORMANCE DATA

MODELS	DIRECT				
	POD D30	POD D40	POD D50	POD D60	
Primary Supply Temperature @ 50kPa	70°C				
Primary Flow Rate	l/s	0.188	0.265	0.314	0.310
Primary Return Temperature	°C	30.3	31.7	30.0	25.1
Primary Pressure Drop	kPa	52	51	48	51
DHW Flow Rate (60°C @ 50K rise)	l/min	9.3	11.9	15.4	19.4
DHW Output (60°C @ 50K rise)	kW	30.6	41.0	50.7	54.9
Primary Flow Rate	l/s	0.16	0.23	0.27	0.31
Primary Return Temperature	°C	24.3	27.1	25.9	18.6
Primary Pressure Drop	kPa	51	50	53	49
DHW Flow Rate (55°C @ 45K rise)	l/min	9.7	13.3	16.7	19.0
DHW Output (55°C @ 45K rise)	kW	30.7	39.9	50.6	57.9
Primary Flow Rate	l/s	0.16	0.21	0.26	0.29
Primary Return Temperature	°C	22.7	23.57	22.85	23.2
Primary Pressure Drop	kPa	53	51	51	54
DHW Flow Rate (50°C @ 40K rise)	l/min	11.6	14.9	18.4	21.3
DHW Output (50°C @ 45K rise)	kW	31.0	39.3	50.6	56.9
Primary Flow Rate	l/s	0.12	0.18	0.22	0.26
Primary Return Temperature	°C	18.2	20.3	19.2	20.4
Primary Pressure Drop	kPa	57	52	48	47
DHW Flow Rate (45°C @ 35K rise)	l/min	11.1	15.3	19.5	21.8
DHW Output (45°C @ 35K rise)	kW	26.4	35.3	46.9	51.1
CH Flow Rate (65°C - 35°C)	l/min	N/A			
CH Output (65°C - 35°C)	kW	N/A			
CH Flow Rate (70°C - 40°C)	l/min	N/A			
CH Output (70°C - 40°C)	kW	N/A			
ELECTRICAL					
Electrical Power Supply Voltage	AC Voltage	230			
Frequency	Hz	50			
Maximum Power Consumption	W	8.6			
Standby Power Consumption	W	2.8			
Appliance Protection Rating	IP	20			
Sound Power Level Indoors (LWA)	dB	37.9			



### KEY

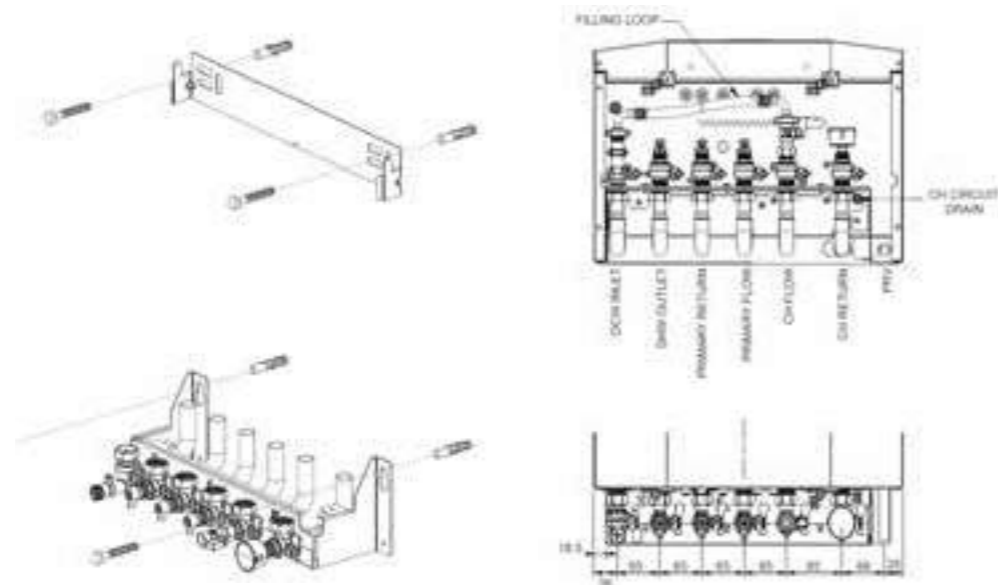
- 1 Service Valves
- 2 Pressure Test Points
- 3 Heat Metering (Optional)
- 4 CH PICV Control Valve
- 5 DHW PICV Control Valve
- 6 Combined Drain / Vent
- 7 DHW Plate Heat Exchanger
- 8 Temperature Sensors
- 9 DHW Flow Restrictor
- 10 DHW Flow Turbine
- 11 Combined Drain / Vent
- 12 DHW Hammer Arrestor
- 13 Primary Strainer
- 14 Flushing Bypass Valve (Opt.)

# POD ACCESSORIES

## FIRST FIX KIT

(OPTIONS FOR INDIRECT AND DIRECT)

Available separately from the HIU to allow for phased construction programs without the need to fit a HIU.



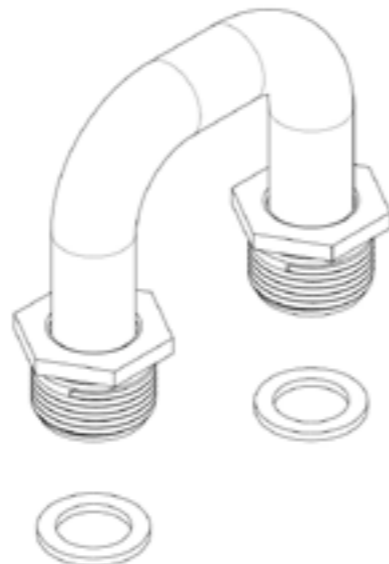
## PERMANENT FLUSHING BYPASS VALVE & UNION KITS

Facilitate flushing of the heat network where the HIU has already been installed, without exposing the HIU to the flushing process.



## TEMPORARY FLUSHING LOOP

Facilitate flushing of the heat network before the HIU is installed.



## HALO LITE

The Halo Lite smart thermostat gives you effortless control over your central heating thanks to fast, flexible and intelligent technology. (Halo Lite is a wired device. Halo WiFi and RF versions also available).



## IDEAL SYSTEM FILTER

The magnetic Ideal System Filter is designed to optimise HIU operation by removing impurities from the central heating water passing through it. Specifically designed to protect domestic central heating systems, this easy-to-use filter can help to maintain the efficiency of your HIU. Suitable for use with all Ideal HIU and features a compact design.



## HEAT METER

Providing both the end user and network operator with up to date information about individual energy usage for a dwelling. A compact, accurate, ultrasonic heat meter available in hard wired or wireless Mbus versions.





Customer Service:

**01482 498660**

Technical Help:

**01482 498663**

Ideal Heating, PO Box 103, National Avenue,  
Kingston upon Hull, East Yorkshire, HU5 4JN

E: [enquiries@idealheating.com](mailto:enquiries@idealheating.com)

The information in this brochure was correct at the time of going to print. Ideal Heating reserve the right to make any modifications to product specifications or any other details, without prior notification. For further clarification, please enquire in writing to the head office address above.



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