

INTERGAS®

COMPACT HRE | ECO RF



COMPACT HRE & ECO RF

SMART CHOICE FOR
HEATING AND HOT WATER

INTERGAS®
BOILERS



**THE SMART
CHOICE**
FOR HEATING
AND HOT
WATER

DUTCH MARKET LEADER

Intergas has been at the forefront of boiler manufacture in the Netherlands for almost 50 years. In 1989 we launched our first condensing combination boiler and now we lead the market in the development of innovative boiler technology. Our ground-breaking and patented two-in-one heat exchanger has made us the first choice with many households throughout the Netherlands.

With over 1,800,000 boilers installed in more than 20 countries and 5,000 boilers produced every week, Intergas is the reliable and environmentally responsible solution to your heating and hot water needs.



LESS PARTS
MORE
RELIABILITY



BUILT TO LAST

Every Intergas features our unique back-to-back, two-in-one heat exchanger that reduces heat losses and delivers the optimum heat transfer for an exceptionally economic performance year after year. Separating the circuits for heating and hot water also means there's no need for a diverter valve or secondary domestic hot water plate heat exchanger, eliminating the source of possible future component failures. Every Intergas HRE & Eco RF heat exchanger is guaranteed for ten years.

- NO** Diverter Valve
- NO** Valve Motor
- NO** Auto-air Vent
- NO** Hot Water Plate Heat Exchanger

SAVING ENERGY SAVING THE PLANET

High efficiency is top of most people's list when it comes to choosing a new boiler and Intergas is an ultra-efficient partner in helping to combat rising energy costs.

The Intergas Combi Compact HRE and Eco RF are the only boilers which condense every time they are called on to heat the home or the hot water, which means they produce less carbon dioxide while using less fuel to generate the same heat output than other condensing boilers in the UK.

This automatically lowers your gas bill and helps to reduce the impact of global warming, not just now, but over the lifetime of your boiler.

ENERGY SAVING TRUST RECOMMENDED

It is an 'intelligent' boiler with a constantly modulating fan; sensors control the fan speed which automatically adjusts its performance against your system needs. Our patented control technology, which is used in all our boilers, focuses on achieving the most energy efficient operation.

The unique 'self-learning' ECO-mode turns off the domestic hot water pre-heat function when, for example, there is no demand during the night, weekends away or family holidays.

All Intergas boilers are recommended by the Energy Saving Trust.



PERFORMANCE AND
SENSITIVITY

CHOOSING THE RIGHT BOILER FOR YOU



A RANGE OF POSSIBILITIES

"Which type of boiler do I need?" There is not always a straightforward answer; you need to consider your lifestyle, the size of your family and your home. There are three different types of boiler available: combi, system and open vent.



COMBI BOILER

A combination boiler combines a high-efficiency water heater with a central heating boiler in one compact unit. As hot water is supplied directly from the boiler, there is no need for a hot water cylinder in the airing cupboard or loft, making them the ideal solution for a property with limited space. And because it only heats the water as you need it, you save money whilst having a constant supply of hot water.



SYSTEM BOILER

A system boiler requires a hot water cylinder. Installation is quick and simple and there is no need for a feed and expansion tank in the loft. You can choose between a mains pressure hot water cylinder and a low pressure hot water cylinder. This boiler is also compatible with solar heating systems for environmentally friendly hot water which delivers further cost savings.



OPEN VENT BOILER

An open vent boiler is a heat only boiler for use in an open vented system. An ideal replacement for existing open vent boilers, it is designed to supply your home with all your heating and hot water needs (via a hot water cylinder). The boiler is fully modulating and adjusts the capacity of the boiler requirements, making sure no valuable energy is wasted.





INTERGAS SUPPORTS GAS SAFE



The Gas Safe Register is the official UK body for gas safety.

By Law only a Gas Safe-registered engineer can install your gas boiler. All Gas Safe registered engineers must adhere to stringent safety criteria and be up to date with the latest industry developments to retain their gas safe registration.

All Intergas technicians and our recommended installers are Gas Safe registered.

Tested and approved by Gas Safe Register, the new MiREG App has been designed to help installers of Intergas boilers, by reducing paperwork and saving valuable time & money.

It simplifies on site documentation and improves record keeping and compliance. Plus, Intergas pays the Building Regulation notification fee on all Intergas boilers. To benefit from all this, register now on www.myintergasregistration.co.uk



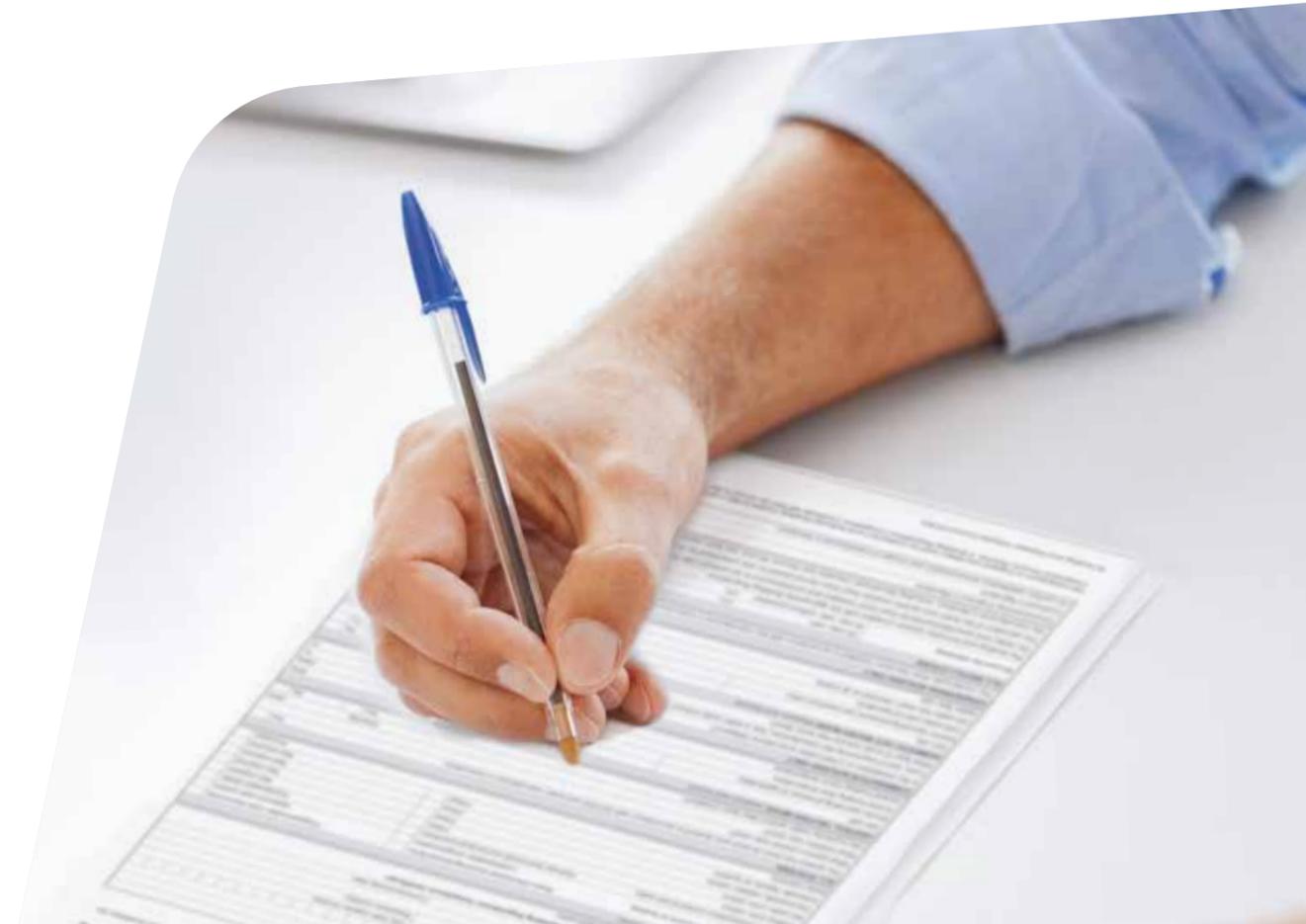
Intergas is a member of the Benchmark scheme, a nationally recognised scheme that ensures best practice in the installation, commissioning and servicing of domestic heating and hot water products in line with Building Regulations in England and Wales.

7 & 10 YEAR WARRANTY



The HRE comes with a seven year warranty while the Eco RF comes with a 10 year warranty, the unique two-in-one heat exchanger is guaranteed for a period of ten years.* With the extensive warranty Intergas provides on all its boilers you will have absolute peace of mind.

** Warranties must be registered within 30 days of the commissioning date failure to register the warranty within this period will result in a 12 months manufacturers warranty only.*



THE NEXT GENERATION OF SMART BOILERS

The Eco RF is a new generation of smart boiler. It comes with a radio frequency module fitted as standard which enables your installer to monitor boiler performance remotely and take appropriate action. It works with Honeywell's wireless room thermostats: DTS 92, T87RF2033 and CMS 927 for rapid response to changing demand.

Available in three power outputs, this boiler doesn't just have brains, it's as reliable and energy efficient as all Intergas boilers, keeping CO₂ emissions to a minimum and savings on heating bills to a maximum.

INTERGAS COMBI COMPACT ECO RF

The Eco RF retains all the benefits of the current range of condensing boilers, and new vacuum insulation reduces energy losses and ensures whisper-quiet operation.

Its design has been recognised by the Dutch consumer association, Consumentenbond, (the Dutch equivalent of Which?) and has been awarded the 'Best Tested' accolade for two years running.



Technical specifications

COMBI COMPACT ECO RF		24	30	36
Signature Output		18	24	30
Safety Class	IP	IP44	IP44	IP44
NoX class		5	5	5
NoX level	mg/kWh	<60	<60	<60
Domestic hot water				
Input	kW	5.6 - 22.1	7.1 - 28.0	7.6 - 32.7
DHW threshold	Ltr/min	2	2	2
ΔT 25°C	Ltr/min	12	15	18
ΔT 35°C	Ltr/min	8.5	10.5	13
DHW temperature (factory setting)	°C	55	55	55
Max. DHW water pressure	bar	8	8	8
Min. DHW water pressure inlet (boiler)	bar	0.2	0.2	0.2
Central heating				
Nom. input rating (lower value)	kW	5.6 - 18.7	7.2 - 23.7	7.6 - 27.0
Rated power	kW	6.0 - 18.2	7.7 - 23.1	8.2 - 26.6
Max. CH water pressure	bar	3	3	3
Max. CH water temperature	°C	90	90	90
Boiler dimensions and weight				
Height (mm)		590	650	710
Width (mm)		450	450	450
Depth (mm)		240	240	240
Weight (kg)		30	33	36
Flues				
Max horizontal (m)		10	10	10
Max vertical (m)		10	10	10
Standard flue dia (mm)		60/100	60/100	60/100
Installation				
Mains cold water inlet		15 mm	15 mm	15 mm
Domestic hot water outlet		15 mm	15 mm	15 mm
Gas connection		15 mm	15 mm	15 mm
Pressure relief valve		15 mm	15 mm	15 mm
Heating flow and return connections		22 mm	22 mm	22 mm
Condensate drain (flexible)		25 mm	25 mm	25 mm
Solar compatible		yes	yes	yes
Product Intergas HRE				
Seasonal space heating energy efficiency class		A	A	A
Heat rated output (power)	Prated kW	23	28	32
Seasonal space heating energy efficiency	η _S %	93	93	94
Annual energy consumption	QHE GJ	68	85	95
Sound power level	LWA dB	50	50	50
Maximum load profile		L	XL	XL
Water heating energy efficiency class		A	A	A
Water heating energy efficiency	η _{WH} %	84	87	87
Annual electricity consumption	AEC kWh	14	17	16
Annual fuel consumption	AFC kWh	3173	4975	4952

*Intergas has a wide range of vertical and horizontal flues; there is also an offset flue kit available which will ensure the flue is in a centralised position.

THE COMBI BOILER FOR NOW AND FOR THE FUTURE

The Intergas HRE will supply you with endless amounts of hot water directly from the boiler, which means you don't need a hot water storage cylinder. If you want to free up more space in your home, our combination boiler provides the perfect solution.



INTERGAS COMBI COMPACT HRE



The revolutionary design of our two-in-one heat exchanger, developed exclusively by Intergas and only used in our boilers, ensures ultra-reliability and efficiency. Condensing 100% of the time the Intergas HRE achieves a reduction in carbon emission of 20% and can cut up to 15% off gas bills over other condensing boilers in the UK.

The combi Compact HRE is available in four power outputs and all are Energy Saving Trust recommended.



Technical specifications

COMBI COMPACT HRE			24/18	28/24	36/30	36/40
Signature Output			18	24	30	40
Safety Class	IP		IP44	IP44	IP44	IP44
NoX class			5	5	5	5
NoX level	mg/kWh		<60	<60	<60	<60
Domestic hot water						
Input	kW		5.6 - 22.1	7.1 - 28.0	7.6 - 32.7	7.8 - 32.7
DHW threshold	Ltr/min		2	2	2	2
ΔT 25 °C	Ltr/min		12	15	18	18
ΔT 35 °C	Ltr/min		8.5	10.5	13	13
DHW temperature (factory setting)	°C		55	55	55	55
Max. DHW water pressure	bar		8	8	8	8
Min. DHW water pressure inlet (boiler)	bar		0.2	0.2	0.2	0.2
Central heating						
Nom. input rating (lower value)	kW		5.6 - 18.7	7.1 - 23.7	7.6 - 27.0	7.8 - 42.5
Rated power	kW		6.1 - 18.2	7.7 - 23.1	8.2 - 26.6	7.6 - 40.9
Max. CH water pressure	bar		2,5	2,5	2,5	2,5
Max. CH water temperature	°C		90	90	90	90
Boiler dimensions and weight						
Height (mm)			590	650	710	710
Width (mm)			450	450	450	450
Depth (mm)			240	240	240	240
Weight (kg)			30	33	36	36
Flues						
Max horizontal (m)			10	10	10	10
Max vertical (m)			10	10	10	10
Standard flue dia (mm)			60/100	60/100	60/100	60/100
Installation						
Mains cold water inlet			15 mm	15 mm	15 mm	15 mm
Domestic hot water outlet			15 mm	15 mm	15 mm	15 mm
Gas connection			15 mm	15 mm	15 mm	15 mm
Pressure relief valve			15 mm	15 mm	15 mm	15 mm
Heating flow and return connections			22 mm	22 mm	22 mm	22 mm
Condensate drain (flexible)			25 mm	25 mm	25 mm	25 mm
Solar compatible			yes	yes	yes	yes
Product Intergas HRE						
Seasonal space heating energy efficiency class			A	A	A	A
Heat rated output (power)	Prated	kW	18	23	27	41
Seasonal space heating energy efficiency	ηS	%	93	93	93	92
Annual energy consumption	QHE	GJ	55	69	80	125
Sound power level	LWA	dB	45	45	50	55
Maximum load profile			L	XL	XL	XL
Water heating energy efficiency class			A	A	A	A
Water heating energy efficiency	ηWH	%	84	87	87	87
Annual electricity consumption	AEC	kWh	14	17	16	16
Annual fuel consumption	AFC	kWh	3173	4975	4952	4952

*Intergas has a wide range of vertical and horizontal flues; there is also an offset flue kit available which will ensure the flue is in a centralised position.

ALL THE WARMTH YOU'LL NEED

The Intergas Compact HRE SB system boiler is a heat-only boiler. It is designed to supply your home with all the warmth you need. The built-in flexibility of the Intergas boiler means that it grows with you as your requirements and needs change over time. By simply adding a water storage cylinder the Intergas Compact HRE SB can also be used to supply your home with hot water.



INTERGAS COMPACT SB

A heat-only boiler, the Intergas Compact HRE SB system boiler creates the warm and inviting home you've always wanted. Like all Intergas boilers, the Compact HRE SB works with programmable room thermostats.

The built-in frost thermostat protects your system against cold weather damage and, by adding a hot water storage cylinder, the boiler can heat the water as well as the radiators.

Technical specifications

COMPACT HRE SB		18	24	30	40	
Signature Output		18	24	30	40	
Safety Class		IP	IP44	IP44	IP44	
NoX class		5	5	5	5	
NoX level		mg/kWh	<60	<60	<60	
Central heating						
Nom. input rating (lower value)		kW	5.6 - 18.7	7.1 - 23.7	7.6 - 27.0	7.8 - 42.5
Rated power		kW	6.1 - 18.2	7.7 - 23.1	8.2 - 26.6	7.6 - 40.9
Max. CH water pressure		bar	3	3	3	3
Max. CH water temperature		°C	90	90	90	90
Boiler dimensions and weight						
Height (mm)			590	650	710	710
Width (mm)			450	450	450	450
Depth (mm)			240	240	240	240
Weight (kg)			30	33	36	36
Flues						
Max horizontal (m)			10	10	10	10
Max vertical (m)			10	10	10	10
Standard flue dia (mm)			60/100	60/100	60/100	60/100
Installation						
Gas connection			15 mm	15 mm	15 mm	15 mm
Pressure relief valve			15 mm	15 mm	15 mm	15 mm
Heating flow and return connections			22 mm	22 mm	22 mm	22 mm
Condensate drain (flexible)			25 mm	25 mm	25 mm	25 mm
Product Intergas SB						
Seasonal space heating energy efficiency class			A	A	A	A
Heat rated output (power)		Prated kW	18	23	27	41
Seasonal space heating energy efficiency		η _S %	93	93	93	92
Annual energy consumption		QHE GJ	55	69	80	125
Sound power level		LWA dB	45	45	50	55
Annual electricity consumption		AEC kWh	14	17	16	16
Annual fuel consumption		AFC kWh	3173	4975	4952	4952

*Intergas has a wide range of vertical and horizontal flues; there is also an offset flue kit available which will ensure the flue is in a centralised position.

PERFECT FOR OPEN VENT SYSTEMS

The Intergas Compact HRE OV is a heat-only boiler to be used in an open vented system with a header tank. If you are looking to replace your existing open vent boiler there has never been a better time.



INTERGAS COMPACT OV

The Intergas Compact HRE OV is a heat-only boiler for use in an open vented system with a header tank. An ideal replacement for existing open vent boilers, it is designed to supply your home with all the warmth you need.

The boiler is fully modulating and automatically adjusts the capacity of the boiler to your requirements, making sure no valuable energy is wasted. A hot water storage cylinder can also be added, enabling the boiler to provide hot water too.

Technical specifications

COMPACT HRE OV		18	24	30
Signature Output		18	24	30
Safety Class		IP	IP44	IP44
NoX class		5	5	5
NoX level		mg/kWh	<60	<60
Central heating				
Nom. input rating (lower value)		kW	5.6 - 18.7	7.1 - 23.7
Rated power		kW	6.1 - 18.2	7.7 - 23.1
Max. CH water pressure		bar	3	3
Max. CH water temperature		°C	90	90
Boiler dimensions and weight				
Height (mm)			590	650
Width (mm)			450	450
Depth (mm)			240	240
Weight (kg)			30	33
Flues				
Max horizontal (m)			10	10
Max vertical (m)			10	10
Standard flue dia (mm)			60/100	60/100
Installation				
Gas connection			15 mm	15 mm
Pressure relief valve			15 mm	15 mm
Heating flow and return connections			22 mm	22 mm
Condensate drain (flexible)			25 mm	25 mm
Product Intergas OV				
Seasonal space heating energy efficiency class			A	A
Heat rated output (power)		Prated kW	18	23
Seasonal space heating energy efficiency		ηs %	93	93
Annual energy consumption		QHE GJ	55	69
Sound power level		LWA dB	45	45
Annual electricity consumption		AEC kWh	14	17
Annual fuel consumption		AFC kWh	3173	4975

*Intergas has a wide range of vertical and horizontal flues; there is also an offset flue kit available which will ensure the flue is in a centralised position.

Benefits for the installer

As an installer Intouch enables you to monitor the boiler performance of every Eco RF you've ever installed. You can also change the parameter settings and receive real-time updates on possible faults - through our Intouch Service app - wherever you are in the world. All you have to do is install the Intouch system to your customer's Intergas Eco RF and download the free app.

With Intouch you can advise your customers on maintenance issues, update them on boiler performance and its unique remote monitoring software. Now, with our phone app, all the information you'll ever need will be in your hands.

Benefits for the homeowner

Intouch is good news for the homeowner too. With your free Intouch app you can turn your smartphone into a smart thermostat. And, as long as you have an Internet connection to your property (the Intouch system connects to the LAN2RF gateway), and on your phone, you can control every aspect of your central heating when you're not at home. But Intouch doesn't just provide the convenience of fingertip control, it can boost the efficiency of the Eco RF boiler still further. This is because it works with the Honeywell Round OpenTherm room thermostat, which communicates more effectively with the boiler, so the boiler uses less energy when it responds to varying demand.

Intouch only works with Eco RF boilers

INTOUCH BY INTERGAS

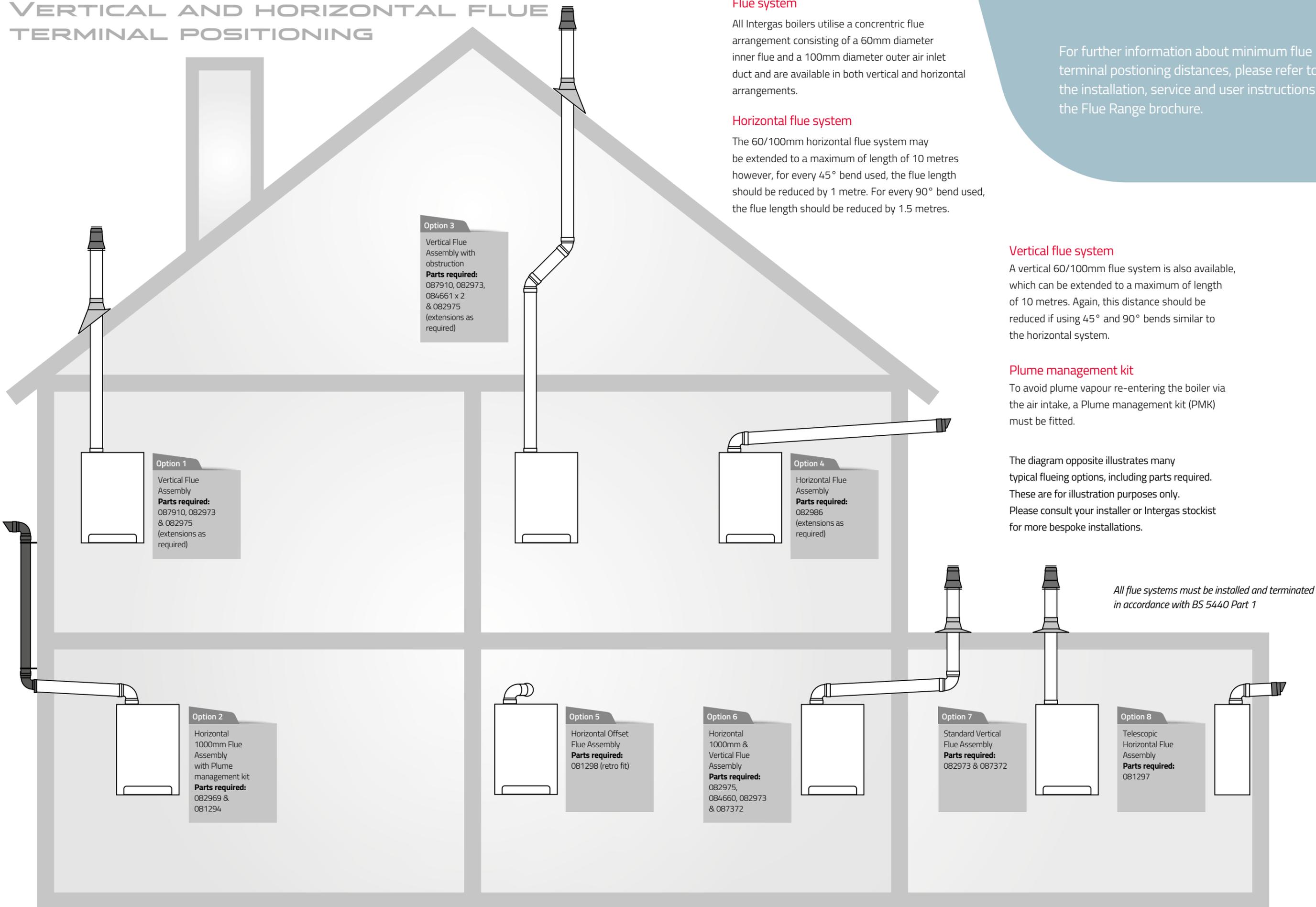
TURN YOUR SMARTPHONE INTO A SMART CONTROL

-  All your customers' boilers in one app
-  Direct messaging in case of possible faults
-  Remote diagnostics
-  Online service tool for all boiler types
-  Change parameter settings remotely

The app that keeps in intouch with your boiler!



VERTICAL AND HORIZONTAL FLUE TERMINAL POSITIONING



Option 3
 Vertical Flue Assembly with obstruction
Parts required:
 087910, 082973, 084661 x 2 & 082975 (extensions as required)

Option 1
 Vertical Flue Assembly
Parts required:
 087910, 082973 & 082975 (extensions as required)

Option 4
 Horizontal Flue Assembly
Parts required:
 082986 (extensions as required)

Option 2
 Horizontal 1000mm Flue Assembly with Plume management kit
Parts required:
 082969 & 081294

Option 5
 Horizontal Offset Flue Assembly
Parts required:
 081298 (retro fit)

Option 6
 Horizontal 1000mm & Vertical Flue Assembly
Parts required:
 082975, 084660, 082973 & 087372

Option 7
 Standard Vertical Flue Assembly
Parts required:
 082973 & 087372

Option 8
 Telescopic Horizontal Flue Assembly
Parts required:
 081297

Flue system

All Intergas boilers utilise a concentric flue arrangement consisting of a 60mm diameter inner flue and a 100mm diameter outer air inlet duct and are available in both vertical and horizontal arrangements.

Horizontal flue system

The 60/100mm horizontal flue system may be extended to a maximum of length of 10 metres however, for every 45° bend used, the flue length should be reduced by 1 metre. For every 90° bend used, the flue length should be reduced by 1.5 metres.

For further information about minimum flue terminal positioning distances, please refer to the installation, service and user instructions or the Flue Range brochure.

Vertical flue system

A vertical 60/100mm flue system is also available, which can be extended to a maximum of length of 10 metres. Again, this distance should be reduced if using 45° and 90° bends similar to the horizontal system.

Plume management kit

To avoid plume vapour re-entering the boiler via the air intake, a Plume management kit (PMK) must be fitted.

The diagram opposite illustrates many typical flueing options, including parts required. These are for illustration purposes only. Please consult your installer or Intergas stockist for more bespoke installations.

All flue systems must be installed and terminated in accordance with BS 5440 Part 1

FLUE OPTIONS

FLUE TERMINALS AND ACCESSORIES

520mm Horizontal Telescopic Offset Wall Terminal Flue Kit **081298**

520mm Horizontal Telescopic Straight Wall Terminal **081297**

600mm Horizontal Non Telescopic Straight Wall Terminal **082980**

Offset Elbow (for retro fit) x1 **081289**

Vertical Roof Terminal 60/100 **082973**

Vertical Adaptor **090547**

Weather Slate (flat roof) **087372**

Weather Slate (pitched roof) **087910**

1000 mm Flue **082969**

2000 mm Flue **082986**

1000mm Flue Extension (60/100mm - including wall clamp) **082975**

500mm Flue Extension (60/100mm - including wall clamp) **082979**

90° Bend (60/100mm) x 1 **084660**

45° Bend (60/100mm) x 1 **084661**

PLUME MANAGEMENT

500mm Plume Management Kit **081294**

1000mm Plume Management Flue Extension (including wall clamp) **081286**

Balcony Kit **086890**

PMK PP60 90° **081284**

PMK PP60 60° (2 per box) **081285**

Plume Deflector **082976**

Concentric Flexible Flue Available - POA

BOILER ACCESSORIES

Pipe/Valve Cover HRE **093217**

Pipe/Valve Cover for HRE 36/40 & SB 40 **092677**

Outside Sensor **203207**

LPG conversion kits

NON ErP boilers

CC 24/18, SB 18 and OV 18 **075697**

CC 28/24, SB 24 and OV 24 **075707**

CC 36/30, SB 30 and OV 30 **000000**

ErP boilers

CC 24/18, SB 18 and OV 18 **076057**

CC 28/24, SB 24 and OV 24 **076057**

CC 36/30, SB 30 and OV 30 **076077**

Plume Management



500mm Plume Management Kit **081294**



1000mm Plume Management Flue Extension (inc. wall clamp) **081286**



Balcony Kit **086890**



PMK PP60 90° **081284**



PMK PP60 60° (2 per box) **081285**



Plume Deflector **081295**



Outside Sensor **203207**



Pipe/Valve Cover HRE **093217**

Pipe/Valve Cover for HRE 36/40 & SB 40 **092677**

FIXING JIGS, FLUES AND ACCESSORIES

Fixing Jigs



Kit A **Small** - Rear Jig 24/18 and Eco RF 24 **093187**

Kit A **Medium** - Rear Jig 28/24 and Eco RF 30 **093197**

Kit A **Large** - Rear Jig 36/30 and Eco RF 36 **093207**



Kit B - Robokit 8ltr (with isolation valves - all products) **090000**



Kit C - Robokit 8ltr (with isolation valves - all products) **090100**

Accessories & Flues



520mm Horizontal Telescopic Offset Wall Terminal Flue Kit **081298**



520mm Horizontal Telescopic Straight Wall Terminal **081297**



600mm Horizontal Non Telescopic Straight Wall Terminal **082980**



500mm Flue Extension (60/100) **082979**
1000mm Flue Extension (60/100) **082975**



Offset Elbow (for retro fit) **081289**



90° Bend (60/100mm) **084660**



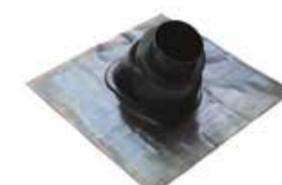
45° Bend (60/100mm) **084661**



Vertical Roof Terminal 60/100 **082973**



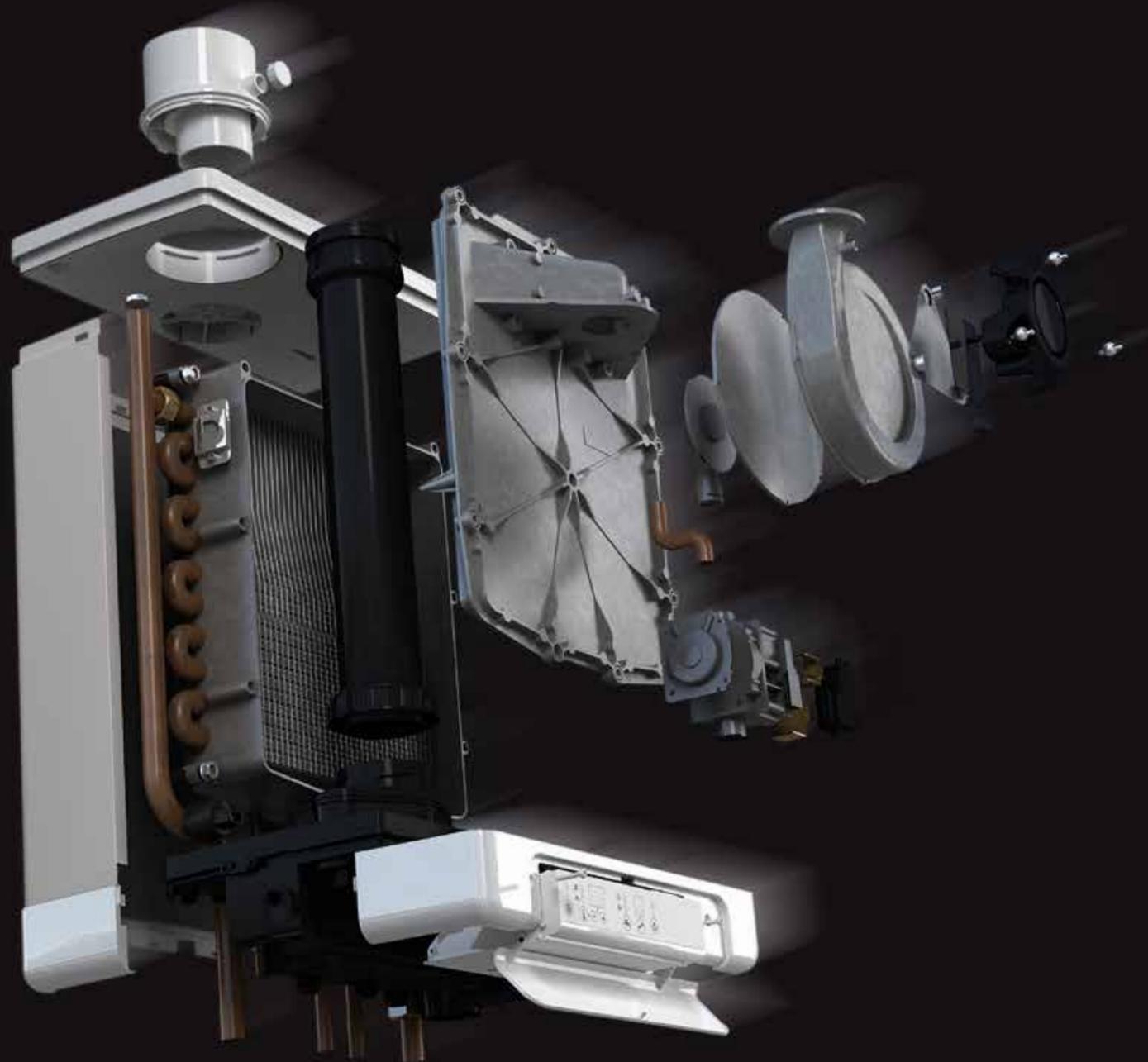
Weather Slate (Flat Roof) **087372**



Weather Slate (Pitched Roof) **087910**



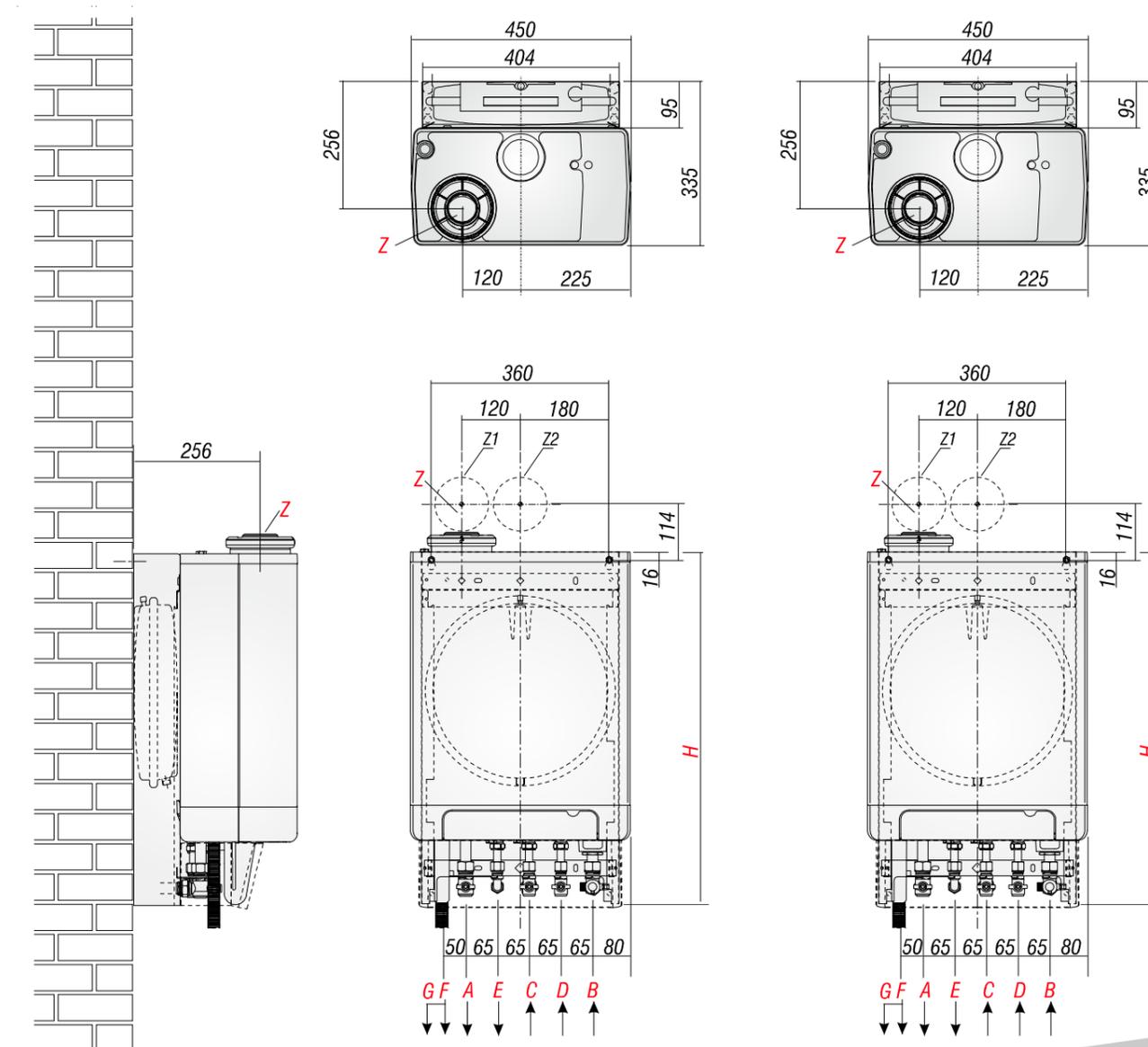
Vertical Adaptor **090547**



MAINTENANCE MADE EASY!

As all Intergas boilers only have 12 components, including four moving parts and they are all interchangeable, supplying spares when needed is never an issue

TECHNICAL INFORMATION



Appliance + wall mounting jig + bracket

A.	Supply	CH Ø22
B.	Return	CH Ø22
C.	Gas	½"
D.	Cold tap water	Ø15
E.	DHW	Ø15
F.	Condensate drain	Ø25 (flexible)
G.	Drain PRV	Ø15
H.	840	Combi Compact HRE 36/30 & HRE 36/40
H.	780	Combi Compact HRE 28/24
H.	720	Combi Compact HRE 24/18
Z.	Flue pipe / air supply	60/100 (concentric)

COMPACT HRE & ECO RF

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INTERGAS®
BOILERS

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