

Alpha

Heating & Hot Water Solutions

HIGH EFFICIENCY BOILERS LOW CARBON SOLUTIONS

Make Alpha your first choice

Today, Alpha is recognised throughout the UK as one of the heating industry's leading lights – a company, with almost 50 years' experience, that successfully combines traditional business values with a highly innovative approach to all aspects of its operation.

COMPREHENSIVE HEATING AND HOT WATER OPTIONS

Manufacturing a range of boilers to meet the heating and hot water needs of practically every property type or household size, Alpha also offers energy-saving products that work alongside its boilers; allowing low carbon technologies like solar thermal and flue gas heat recovery to be incorporated easily and affordably.

ADVANCED MANUFACTURING, INNOVATIVE ENGINEERING

Part of the Italian-owned Immergas Group, one of Europe's leading heating appliance manufacturers, Alpha benefits from some of the most advanced production facilities in the world - continually refining its product range and making the most of new and existing technologies to create genuinely innovative heating solutions.

CHOOSE ALPHA FOR QUALITY

Choosing an Alpha appliance is your assurance of quality. Put simply, it means you can enjoy the very best heating technology money can buy.

Using only the best components and exceptionally high manufacturing standards, our appliances deliver truly outstanding performance and reliability.

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THE IMMERGAS GROUP

Leading the way

Alpha is part of the Immergas Group, which operates in 30 countries including eight in Europe. Market leader in its home country of Italy, Immergas has produced over 4 million boilers alone and is arguably Europe's leading heating appliance manufacturer.

Covering 50,000 square metres, the Immergas headquarters houses some of the most advanced manufacturing, research and development facilities to be found anywhere in the world.

With all this at our disposal, we are able to indulge our passion for product innovation. Evident across all our ranges, this approach enables us to develop truly unique solutions to the supply, cost and environmental issues associated with traditional energy resources such as gas.

QUALITY ASSURED

Immergas is certified ISO 9001:2000, issued by the prestigious German organisation TÜV, in recognition of the extreme reliability of company quality management processes.

All aspects of the company's operation are covered – including design and product development, incoming materials acceptance, manufacturing processes, and after-sales service.

Checks are carried out daily on random samples of finished products, repeating the checks that were previously performed on every single boiler during the assembly stage. In a specific laboratory, specialist personnel test boilers every day with nothing left to chance – even down to the technical documentation and packaging.





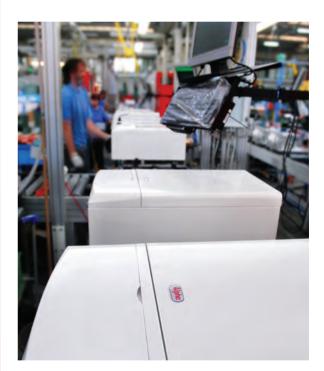
MAKING A DIFFERENCE

While sustainable energy resources like the sun and geothermal have an increasing prominent part to play in our lives, we are not yet at a stage in the UK where we can rely solely upon them.

Here at Alpha, we marry new and traditional technologies, drawing on the best elements of each to deliver unique heating solutions.

Wherever possible we encourage a holistic approach to each project, utilising the familiar high efficiency gas boiler with advanced 'bolt-on' products such as GasSaver and SolarSmart in tailormade systems.

Such solutions are practical to install and extremely cost effective, enabling people to make an impact on their energy bills and carbon footprint sooner rather than later.



We're here to help 0844 871 8764

Whether you need help choosing the right heating appliance, or you experience difficulty during or after installation, we are here to assist.

HELPLINE

Before, during or after installation, you can rely on our Helpline to provide you with expert advice. Whether it's a simple query or a more complicated problem, help is only a phone call away.

SERVICE ENGINEERS

In the unlikely event that you experience a problem with one of our products that can't be resolved over the phone or by visiting our website, we'll send out one of our nationwide service engineers. They are equipped with the latest communication technology to keep response times to a minimum.

Technical helpline 0844 871 8764

www.alpha-innovation.co.uk

Visit the Alpha website to access our useful Boiler Control Panel Troubleshooter and Frequently Asked Questions pages.

Additional sets of appliance user and installation instructions can also be downloaded from here.

ANNUAL SERVICE

It is important to ensure that your boiler is properly maintained from the date of installation. An annual service will provide peace of mind that your boiler is working safely and efficiently, which in the long term will save you money on your fuel bills. It will also help prevent any potential problems so you can enjoy heating and hot water all year round without any unnecessary disruption.

Please speak to your installer about an annual service plan, or contact us and we will be happy to help.





FREE INSTALLER TRAINING

The Alpha Academy offers installers free training in our High Efficiency and Renewables course so that you can make the most of our range of innovative products.

Available at various locations nationwide, the one-day course gives candidates practical hands-on experience of installation, commissioning, servicing and diagnostics for our high efficiency boilers.

It also 'lifts the lid' on our renewable energy products GasSaver, FlowSmart and SolarSmart, exploring all the essentials including how they work, installation, plus features and benefits.

Training Academy 0844 871 8763

Create your perfect heating system



BOILERS PAGES 12-21

Think of the things that really matter to you and your clients when choosing a boiler.

Build quality, reliability, energy efficiency, ease of operation and last, but by no means least, ease of installation. These are the things that make a difference.

That's why choosing an Alpha boiler makes sense because, whichever model it is, our boilers are guaranteed to deliver on every aspect.

With a selection of boiler types in a variety of outputs, there's an Alpha boiler to suit practically every property type or household size.

All models combine exceptional levels of efficiency with a host of genuinely innovative features.

Whether required as a stand-alone appliance or part of an integrated system, an Alpha boiler represents the ultimate choice.



In September 2015 new ErP (Energy-related Products) legislation comes into effect that to assist the EU achieve its 2020 energy targets. The new regulations will affect all products that have an impact on energy use, including boilers and heating systems, as well as the way you work.

All boilers in this brochure are fully ErP compliant and to help you meet the changes trouble-free we are offering free one-day training courses for installers.

If you would like to know more about ErP and how it affects you, please call us on 0844 871 8763.



ACCESSORIES PAGES 24-29

CONTROLS

Controls help optimise heating system efficiency and, in turn, reduce energy bills. Designed specifically to complement the Alpha boiler range, our controls enable users to precisely programme their heating systems to suit their lifestyles and desired comfort levels.

PREMIERPACK & CYCLONE PLUS

Fitting the PremierPack wall-mounting jig or Cyclone Plus magnetic filter with our InTec boilers delivers a host of benefits to users and installers.

As well as providing built-in protection against debris in the system, they automatically add either one or two years to the standard boiler guarantee.

TRACE HEATING KIT

Fit the Trace Heating Kit to eliminate the risk of frozen condensate pipes and subsequent damage to the boiler. Unlike other kits, its 3m electric trace wire is controlled by the boiler itself in conjunction with an outside weather probe. This ensures it only operates when the boiler is in operation and producing condensate, keeping electrical consumption to a minimum.

RELAY PCB

External devices such as pumps and zone valves are controlled using the Relay PCB.

WEATHER COMPENSATION PROBE

The Weather Compensation Probe improves efficiency by adjusting the boiler's heat output according to outside temperature.

Requires the three-way diverter valve kit when added to an InTec system boiler.

THREE-WAY DIVERTER VALVE KIT

Operates as a hot water priority valve, meaning if the heating is on and there is a hot water demand, the valve will divert the primary heat to the cylinder until the cylinder sensor is satisfied. Requires quick recovery cylinder. Must be used if adding the weather compensation probe to an S boiler.

ENERGY SAVING PAGES 32-43

We've designed a range of energy-saving products capable of operating alongside our boilers. Whether part of the original boiler installation or a future upgrade, this enables environmentally considerate technologies like solar thermal and flue gas heat recovery to be easily and affordably incorporated into homes.

GASSAVER

GasSaver extracts heat from waste boiler flue gases, using it to pre-heat cold mains water before entering the boiler. This reduces the amount of gas required by the boiler to deliver hot water.

It is available built-in with our InTec GS Plus boiler models or as a compact add-on unit for positioning neatly above our other boilers.

FLOWSMART

Ideal for homes with above average hot water demands, FlowSmart negates the need for a large, permanent store of hot water.

The thermal store draws heat from the boiler's primary circuit and, along with heat from the GasSaver unit, is used to pre-heat cold mains water prior to it entering the boiler.

FlowSmart is available in three different set-up options.

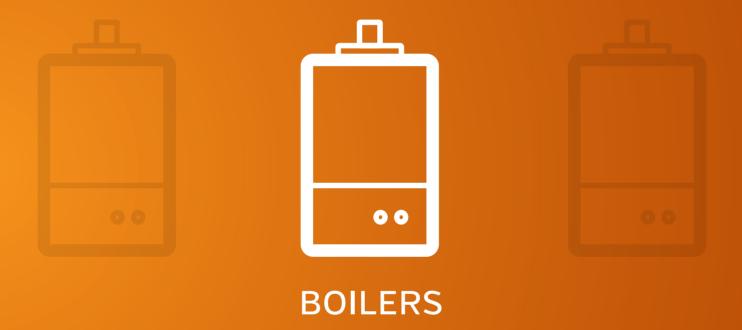
SOLARSMART

SolarSmart is a solar thermal system designed to work with an Alpha combination boiler.

Unlike conventional solar thermal systems, SolarSmart does not use any gas to maintain the temperature of the stored water.

Instead, the boiler only fires to raise the temperature of the solar heated water as necessary, when there is an immediate demand for hot water, giving it an additional energy-saving advantage.





InTec² XE



The ErP compliant InTec² XE range benefits from advanced combustion management and continually controls and adjusts the gas flow to deliver improved energy efficiency.

With their compact dimensions each of the two available models will sit perfectly in a standard kitchen cupboard or is ideal where space is limited.



Model	DHW output (kW)	CH output (kW)	Flow rate @ 35°C rise l/min	Dimensions (mm)	Lift Weight (kg)	Standard guarantee	Guarantee with PP2 [†]	Modulation range
InTec ² 25X	24	21.3	10.3	712x440x276	33.4	2 yr	4 yr	1:8
InTec ² 28X	28	25.5	11.7	712x440x276	33.4	2 yr	4 yr	1:8

[†]PremierPack²

Please note: The same boiler works on both Natural Gas and LPG so there is no need for a conversion kit or to order a separate model.





◀ FEATURES OVERVIEW

- 2 year guarantee
- Compact size and layout
- Easy access for servicing
- Gas adaptive valve works with Natural Gas and LPG
- PCB memory chip
- High efficiency Grundfos pump and hydroblock assembly
- Single electrode
- Clip-on DHW temperature sensor
- Dry-change NTCs
- One-piece cartridge diverter valve
- Combined condensate and pressure relief valve connection
- Backlit LCD with push button controls and detailed operational information
- Frost protection and daily pump kick





InTec² CE



The latest edition to our InTec² boilers is the brand new CE range, which is fully ErP compliant and offers customers an exceptional combination of premium features, energy efficiency and ease of use.

Like the InTec² XE range, CE boilers use advanced combustion management and their compact dimensions allow each of the three available models to sit perfectly in a standard kitchen cupboard.



Model	DHW output (kW)	CH output (kW)	Flow rate @ 35°C rise l/min	Dimensions (mm)	Lift Weight (kg)	Standard guarantee	Guarantee with PP2 ⁺	Modulation Range
InTec ² 26CE	26.0	21.3	10.7	712x440x276	33.4	5 yr	7 yr	1:10
InTec ² 30CE	28.0	25.5	11.7	712x440x276	33.4	5 yr	7 yr	1:10
InTec ² 35CE	34.0	29.8	14.4	712x440x276	33.4	5 yr	7 yr	1:10

[†]PremierPack²

Please note: The same boiler works on both Natural Gas and LPG so there is no need for a conversion kit or to order a separate model.



FEATURES OVERVIEW

- 5 year guarantee
- Compact size and layout
- Easy access for servicing
- Gas adaptive valve works with Natural Gas or LPG
- PCB memory chip
- High efficiency Grundfos pump and hydroblock assembly
- Single electrode
- Clip-on DHW temperature sensor
- Dry-change NTCs
- One-piece cartridge diverter valve
- Combined condensate and pressure relief valve connection
- Backlit LCD with push button controls and detailed operational information
- Frost protection and daily pump kick
- Electronic seasonality valve
- Pipework cover tray
- Wide 1:10 modulation range
- Integrated filling loop

◀ ELECTRONIC SEASONALITY VALVE

The Electronic Seasonality Valve continually measures the inlet and outlet temperatures and automatically adjusts the DHW flow accordingly to maintain a constant temperature at the hot water outlet.







InTec C



Our flagship InTec C combi boilers have been updated with a modulating high efficiency pump and are fully ErP compliant.

In addition, they come with a host of premium features that deliver numerous benefits for users and installers alike.

Available in two outputs, they are an ideal choice for small to medium-sized homes.



Model	DHW output (kW)	CH output (kW)	Flow rate @ 35°C rise l/min	Dimensions (mm)	Lift Weight (kg)	Standard guarantee		Nox rating (mg/kWh)	LPG version
InTec 30C	29.0	26.3	12.6	720x440x300	39	7 yr	9 yr	30	Yes
InTec 34C	33.7	30.7	14.5	720x440x300	41	7 yr	9 yr	36	Yes

[†]PremierPack Plus



◀ FEATURES OVERVIEW

- 7 year guarantee
- Seasonality Valve
- Valves and tails factory fitted
- Isothermic stainless steel heat exchanger
- Frost protection and daily pump kick
- Backlit LCD with push button controls and detailed operational information
- High efficiency Grundfos pump and hydroblock assembly
- Easy-access NTCs on front of pipes
- One-piece cartridge diverter valve
- Clip-on DHW temperature sensor
- Designed-in filling loop
- IPX4D protection
- Low electrical consumption



▲ SEASONALITY VALVE

The Seasonality Valve automatically adjusts the DHW flow based on the temperature of the incoming main, preventing any adverse effect on hot water temperature in colder weather and reducing water wastage.





InTec² SE



These sophisticated system boilers represent the ultimate in boiler design, perfectly illustrating the ethos behind our InTec² range.

Like the other InTec² boilers, SE models are small and light, fitting perfectly in a standard kitchen cupboard.

With two outputs to choose from, the InTec² SE range is ideal for any home when a system boiler is the preferred option.



Model	DHW output (kW)	CH output (kW)	Flow rate @ 35°C rise l/min	Dimensions (mm)	Lift Weight (kg)	Standard guarantee	Guarantee with PP [†]	Nox rating (mg/kWh)
InTec ² 20SE		19.2		712x440x276	32	5 yr	7 yr	18
InTec ² 30SE	-	29.7	-	712x440x276	32	5 yr	7 yr	20

[†]PremierPack²

Please note: The same boiler works on both Natural Gas and LPG so there is no need for a conversion kit or to order a separate model.



◀ FEATURES OVERVIEW

- Advanced combustion management
- One-piece casting heat exchanger
- Quicker warm-up and improved circulation
- Gas adaptive valve works with Natural Gas or LPG
- Single electrode
- Compact size and layout
- PCB memory chip
- High efficiency Grundfos pump and hydroblock assembly
- Combined condensate and PRV connection
- Dry change NTCs
- Clip-on DHW temperature sensor
- Backlit LCD with push button controls and detailed operational information
- Frost protection and daily pump kick
- Pipework cover tray

THREE-WAY DIVERTER VALVE KIT

Operates as a hot water priority valve, meaning if the heating is on and there is a hot water demand, the valve will divert the primary heat to the cylinder until the cylinder sensor is satisfied. Requires quick recovery cylinder. Must be used if adding the weather compensation probe to an S boiler.

We recommend complementing this system set-up with the Alpha Climatic Control in order to maximise energy efficiency.







CDR regular



These heating-only boilers provide an extremely versatile and flexible solution for the majority of scenarios involving a conventional heating system set-up.

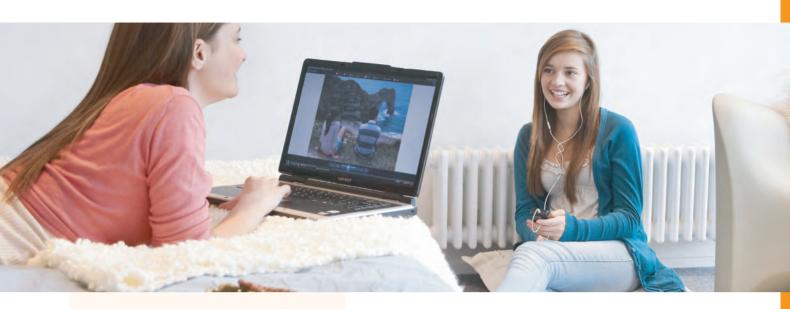
They can operate in open-vented systems, making them ideal as replacements for traditional cast iron boilers. They are also suitable for sealed systems and, when fitted with a storage cylinder, are capable of supplying plenty of hot water.

CDR boilers, which are remarkably compact and lightweight, come in a selection of three outputs to suit all heat requirements.



Model	DHW output (kW)	CH output (kW)	Flow rate @ 35°C rise l/min	Dimensions (mm)	Lift Weight (kg)	Standard guarantee	Guarantee with PP	LPG version
CD13R		13.1		600x390x305	27	3 yr	N/A	Yes
CD18R	-	19.6	-	600x390x305	27	3 yr	N/A	Yes
CD24R	-	25.6	-	600x390x305	28	3 yr	N/A	Yes





◀ FEATURES OVERVIEW

- 3 year guarantee
- 2m flying mains lead
- Stainless steel heat exchanger
- Daily pump kick
- Frost thermostat
- Pump overrun feature
- Anticycling device
- Simple clock wiring



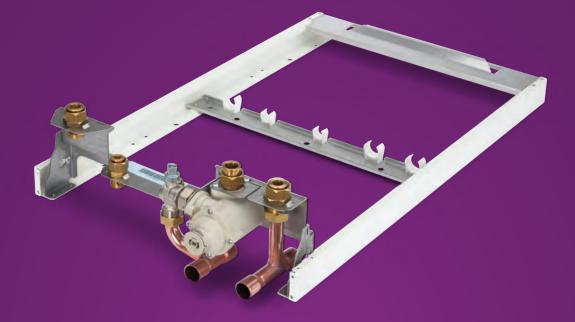






ACCESSORIES

PremierPack



Fitting any of our InTec boilers* with the ingenious PremierPack wall-mounting jig automatically gives them an extra 2 year guarantee.

Depending on the boiler model, this means up to 9 years parts and labour cover.

PremierPack incorporates the new and improved Alpha Cyclone device which uses centrifugal and magnetic force to remove debris from the heating system. This technology is proven to reduce system debris entering the boiler. It also comes with a host of premium features that make the boiler installation quicker and easier. These include an integral pipe clip plate with variable fixing points, and a copper earth bonding plate pre-cut to fit the boiler pipework configuration.

Once PremierPack is in place, piping-up can be completed prior to the boiler being hung. The boiler simply fits on to the jig's shelf bracket and is easily connected using integral brass swivel fixings.

*Excluding InTec GS boiler.

				COI	MBINAT	ION				SYSTEM	
PREMIERPACK MODEL	InTec ² 25XE	InTec ² 28XE	InTec ² 26CE	InTec ² 30CE	InTec ² 35CE	InTec 30C	InTec 34C	InTec 30GS Plus	InTec 40GS Plus	InTec ² 20SE	InTec ² 30SE
PremierPack Plus								N/A	N/A		
PremierPack ²	•			•				N/A	N/A	•	•

+2 YEAR WARRANTY



◄ FEATURES OVERVIEW

- Increases boiler guarantee by an additional 2 years
- Cyclone protection
- PRV pipe terminal
- Earth bonding plate
- Fitted pipe clips
- Pipe cover tray
- Pipes at clip distance from wall
- Split flow tails
- Variable fixing point plate

Cyclone Plus

This innovative device removes debris from the heating system, using both magnetic and centrifugal force, reducing the risk of damage to the boiler.

FEATURES OVERVIEW

- Increases boiler guarantee by additional 1 year
- Uses centrifugal and magnetic force to remove debris from the heating system
- Fits directly to the boiler connections
- Easy to install
- Sits neatly under the boiler





Controls



STAY IN CONTROL

From a simple plug-in mechanical clock to versatile remote timers, we provide a selection of controls to go with our high efficiency boilers.

They enable users to programme their heating systems to suit their lifestyle and desired comfort level – not to mention control energy bills by optimising efficiency.

				CO	MBINAT	ION				SYSTEM		OPEN-VENT		
CONTROLS	InTec ² 25XE	InTec ² 28XE	InTec ² 26CE	InTec ² 30CE	InTec ² 35CE	InTec 30C	InTec 34C	InTec 30 GS Plus	InTec 40 GS Plus	InTec ² 20SE	InTec ² 30SE	CD13R	CD18R	CD24R
Climatic RF	•	•	•	•	•	•	•	•	•	•*	•*			
Climatic hard wired	•	•	•	•	•	•	•	•	•	•*	•*			
Comfort 2CH RF										•		•		
Digital EasyStat	•	•	•	•	•	•	•	•	•					
Mechanical EasyStat	•	•	•	•	•	•	•	•						
7 day digital clock	•	•	•	•	•	•	•	•	•					
7 day 2CH digital clock										•	•	•	•	•
24hr mechanical clock	•	•	•	•	•	•	•	•	•					

*Alpha diverter valve kit must be used.



ALPHA CLIMATIC

The Alpha Climatic modulating remote control has been specifically designed to work with our InTec range of boilers to maximise boiler and system efficiency. It is a multi-channel time and temperature programmer with integrated thermostat and BUS system to transfer data between the boiler and controller.

Within SAP, Alpha Climatic is classed as an Enhanced Load Compensator capable of measuring and maintaining the temperature inside the building by modulating and limiting the boiler flow temperature depending on the measured room temperature.

Available in wired and wireless versions.

COMFORT 2-CHANNEL

The Alpha Comfort 2-channel radio frequency controller is a digital, wireless programmable room thermostat and timer for use with all InTec system boilers. Battery operated, no hard wiring is required and the transmitter can be sited anywhere up to 30 metres away from the boiler.

DIGITAL EASYSTAT

The Alpha digital EasyStat provides wireless time and temperature control with 7 day programming and settings in one hour increments. The compact and simplistic button design ensures easy set-up and operation for all users.

MECHANICAL EASYSTAT

The 24-hour Mechanical EasyStat is a time and temperature controller that can provide maximum and minimum room temperature control.







Flueing

The telescopic EasyFlue can save up to an hour's installation time and provides a really neat and stylish finish.

Available in 500mm and 1000mm lengths for simple horizontal flueing, extension kits can also be purchased to allow a maximum of up to 12m horizontal flue or 15m vertical flue.

With inner and outer ducts that simply slide together to make the required length, no measuring or cutting is required.

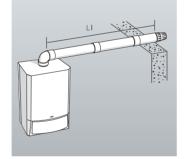
Installation is further enhanced by a factoryfitted terminal and two sealing collars.



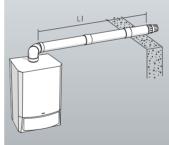
The EasyFlue also comes with a range of plume management options. The standard terminal can be adapted to divert plume at 45° upwards, to the left or right. For applications where there is a need to divert plume further away from the original terminal position, there is a full Plume Management Kit available in black.

HORIZONTAL FLUES

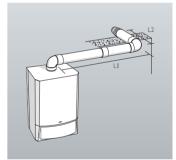
For horizontal flues, purchase telescopic EasyFlue with terminal fitted and the relevant number of extensions/bends.



Maximum horizontal flue length (after the boiler turret) is 12m for InTec models. Allow 1.3m of flue length for each 90° bend, 0.9m of flue length for each 45° bend.



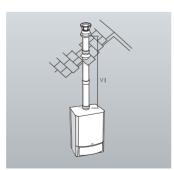
A 90° bend off the top of the boiler angled at 45° to the back wall with a 45° bend attached to it. The maximum flue length [L1] using one 45° bend is 11.1 metres for InTec models.



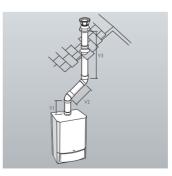
A 90° bend is equivalent to 1.3m of straight flue. Maximum length of flue [L1+L2] with 90° bend is 10.7 metres for InTec models.

VERTICAL FLUES

For vertical flues, purchase boiler only and the relevant flue components necessary. Allow 0.9m for each 45° bend.

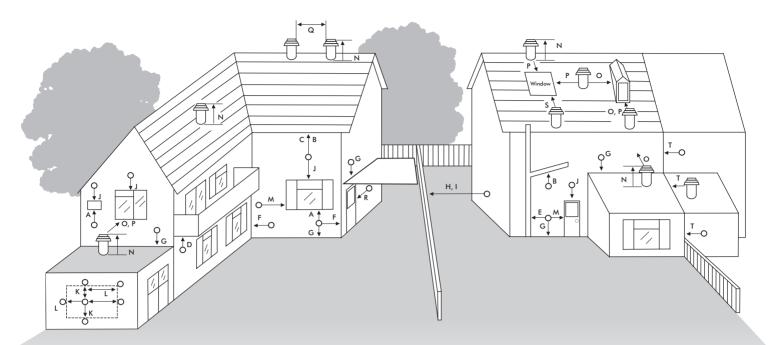


Maximum vertical flue length is 14m for InTec models. Allow 0.9m of flue for each 45° bend.



Two 45° bends are equivalent to 1.8m of straight flue. The maximum flue length (V1+ V2+V3) with two 45° bends is 12.2m for InTec models.





TERMINAL POSITION	MIN. DIST	ANCE (mm)
A Directly below an opening, air brick, windows, etc.	300	[See Note 1]
B Below gutters, soil pipes or drain pipes	75	(See Note 3)
C Below eaves	200	[See Note 3]
D Below balconies	200	[See Note 3]
E From a vertical drain pipe or soil pipe	150	[See Note 3]
F From an internal or external corner	300	[See Note 2]
G Above ground, roof or balcony level	300	
H From a surface or boundary facing the terminal	600	[See Note 4]
I From a terminal facing the terminal	1200	
J Above an opening, air brick, window etc.	300	(See Note 1)
K Vertically from a terminal on the same wall	1500	
L Horizontally from a terminal on the same wall	300	
M Horizontally from an opening, air brick, window etc.	300	(See Note 1)
N Minimum protrusion through a roof	300	
O From a vertical obstruction	300	
P From an openable window	600	
Q From an adjacent vertical terminal	600	
R From an opening in the car port (e.g. door, window) into the dwelling	1200	
S Below a Velux window	2000	
T Terminal parallel to a boundary	300	

Notes:

1. In addition, the terminal should not be nearer than 150 mm to the framework of an opening into the building, i.e. a window surround or door surround.

2. This clearance may be reduced to 25 mm without effecting the performance of the boiler. However, to ensure the condensate plume does not affect adjacent surfaces a clearance of 300 mm is preferable.

3. These clearances may be reduced to 25 mm without effecting the performance of the boiler. However, to ensure the condensate plume does not affect adjacent surfaces the terminal can be extended beyond gutters, pipes, eaves, balconies etc. by up to 500 mm. If the flue is extended more than 500 mm outside, it should be boxed and insulated.

4. To reduce the possibility of nuisance to neighbouring buildings etc. it is recommended the terminal should not be less than 2500 mm from car parking spaces, building boundary walls, fences etc.

5. A terminal must not be sited under a car port roof.

6. In certain weather conditions the terminal will emit a plume of steam. If possible avoid positioning the terminal where this may cause a nuisance, i.e. positions A, D, G, H, J or M.

7. The flue terminal must be exposed to the external air and the position must allow the free passage of air across it at all times.

8. A terminal must not be sited below 2 m where people have access to, such as public footpaths, access routes, patios etc. However, If the terminal is fitted less than 2 m above a surface where there is no public access, the terminal must be protected by a terminal guard. A suitable guard is available from Alpha Therm Ltd.





ENERGY SAVING

Fitting a GasSaver to any of our boilers is a simple way of taking energy efficiency to a higher level.

Positioned neatly above the boiler, this compact unit extracts heat from waste gases that are normally expelled into the atmosphere through the boiler flue. This is then used to pre-heat cold mains water before entering the boiler.

As the boiler is heating warmed water rather than cold, an average 35% less gas is used to produce hot water, reducing your energy bills and saving up to half a ton of carbon per year.

In addition, less water is wasted due to a quicker heat time.

GasSaver operates without any controls, settings or electricity.

FEATURES OVERVIEW

- Uses 35% less gas*
- Easy to install
- Maintenance free
- Silent in operation
- Increases boiler efficiency
- Reduces carbon emissions
- Reduces nuisance pluming
- SAP Appendix Q recognised









HOW IT WORKS

01

First it stores the condensate normally expelled into the atmosphere through the boiler flue.

02

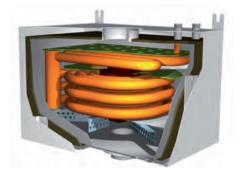
Then, heat from this condensate is recycled to pre-heat water coming into the boiler from the cold mains supply.

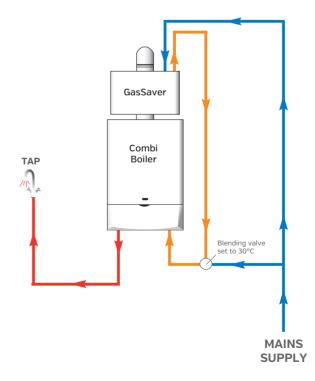
03

This significantly reduces the amount of gas required by the boiler to heat water.

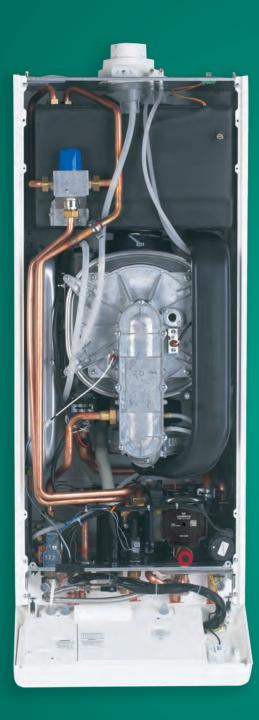
04

Energy bills and carbon emissions are significantly reduced.





InTec GS Plus



The InTec GS Plus boilers include a built-in GasSaver, representing what must surely be the ultimate combis.

On the one hand they come with all the installer and end user benefits associated with other appliances in the InTec range.

On the other, the unquestionable merits of on-demand combination boiler technology are further enhanced by the addition of the latest heat recovery technology – and all in one space-saving package.



Model	DHW output (kW)	CH output (kW)	Flow rate @ 35°C rise l/min	Dimensions (mm)	Lift Weight (kg)	Standard guarantee	Guarantee with PP	Nox rating (mg/kWh)	LPG version
InTec 30GS Plus	26.0	20.0	12.8	440x1000x360	57	5 yr	N/A	33	Yes
InTec 40GS Plus	33.7	30.7	15.8	440x1000x360	60	5 yr	N/A	24	Yes





◀ FEATURES OVERVIEW

- ErP compliant boiler with integrated GasSaver technology
- Two models available
- 35% reduction in gas used to provide hot water
- Same connections as a boiler with no additional exposed pipework
- Low electrical consumption
- Isothermic stainless steel heat exchanger
- High efficiency Grundfos pump and hydroblock assembly
- Backlit LCD with push button controls and detailed operational information
- Easy-access NTCs on front of pipes
- One-piece cartridge diverter valve
- Clip-on DHW temperature sensor





For homes with above average hot water demands, look no further than FlowSmart

FlowSmart at last enables even large households to enjoy the energy efficiency benefits of the combination boiler.

The combination boiler is the best and most energy efficient option for most homes with average hot water demands. They provide hot water only when there is a demand and operate without the need to keep a permanent store of hot water.

But due to limits on the combi boiler's ability to supply large volumes of hot water to a number of outlets at the same time, the less efficient conventional boiler and hot water cylinder setup is the usual choice for larger properties.

The Alpha FlowSmart system overcomes these issues and in fact, more than matches the hot water performance of a system boiler and 200 litre unvented cylinder, while using 25% less gas.







◄ FEATURES OVERVIEW

- 5 year guarantee
- Exceptional energy efficiency
- Ideal for households with above average hot water demands
- Delivers hot water for long periods
- High flow rate even when demand is high
- Simple installation
- Space efficient
- Low voltage PV immersion kit available

Additional controls pack required when installing the original FlowSmart system.

FLOWSMART ORIGINAL

The traditional FlowSmart system incorporates either an InTec 34C combination boiler with GasSaver unit, or an InTec 40GS Plus integrated GasSaver boiler, with a 50 litre floor standing thermal store.

Piping kit required when using the InTec 40GS Plus in the original set-up.

WALL-HUNG FLOWSMART

A combined wall-hung version of FlowSmart is also available, which combines the InTec 40GS Plus with a 'bolt-on' thermal store. This version comes complete with a pre-made pipe kit, cylinder sensor and diverter valve. It is quick and easy to install.

We recommend using the Alpha Climatic Control with wall-hung Flowsmart to enhance energy efficiency and control of the system.





Delivering so much more

INCREASE ENERGY SAVINGS

The Alpha FlowSmart low voltage PV (photovoltaic) immersion heater is an additional renewable energy source that can be added to an Alpha FlowSmart system to further increase energy savings and reduce CO_2 emissions.

The immersion heater consists of two 12V heater units encased in a 15mm copper sleeve and has been designed specifically to be used in conjunction with a maximum of two 12V/80W photovoltaic solar panels (not supplied).

HOW IT WORKS

01

When there is a hot water demand, mains cold water flows into the GasSaver, where it is pre-heated using heat reclaimed from boiler flue gases.

02

It then passes through the thermal store's copper coil heat exchanger where it is heated further by surrounding hot water from the primary system (also known as the central heating system).

03

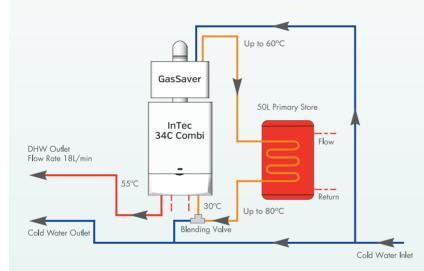
The water then passes through a blending valve, where it is controlled to an optimum 30°C before entering the boiler. Energy bills and carbon emissions are significantly reduced.

04

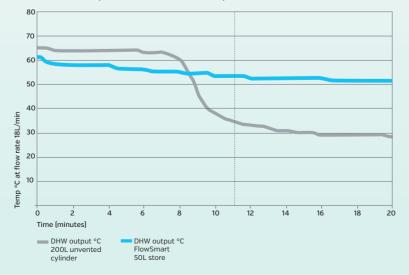
Due to the mains water being pre-heated, the boiler's workload is significantly reduced.







FlowSmart system v 200L unvented cylinder at flow rate 18 litres/minute



Makes solar-based domestic water heating more accessible and cost-effective than ever before.

NEW SOLARSMART 100

The latest version of this remarkable solar thermal system has been specifically designed to work with our InTec combination boilers.

With an improved solar-heated water storage capacity of 103 litres, SolarSmart 100 is perfectly suited for all family homes. There's an upgraded LCD and, for better access, a control board mounted in the front panel of the cylinder. SolarSmart 100 also features a built-in 8 litre expansion vessel, inlet group and pressure relief valves, making it much easier to install.

An optional Solar Valve is available to enable it to be retro-fitted to other Alpha boilers.







FEATURES OVERVIEW

- Unique combi-based solar thermal solution
- Space saving 103 litre wall-hung cylinder
- Choice of 'in-roof' and 'on-roof' fixing kits
- Easy plug-in controls
- Built-in 8 litre expansion vessel and unvented kit
- LCD display
- Fully WRAS approved system
- Can be retrofitted to any Alpha High Efficiency boiler with solar valve
- 10 year guarantee on collector and cylinder

Unlike conventional solar thermal systems that operate with a traditional boiler, SolarSmart uses a combination boiler as back-up, giving it a considerable energy saving advantage.

With less paid-for energy used than conventional solar thermal systems, SolarSmart provides users with the opportunity to make even greater reductions to energy bills and CO² emissions.

SOLARSMART VERSUS CONVENTIONAL SOLAR SYSTEMS

Conventional solar thermal systems work with a traditional boiler to maintain a stored supply of hot water. Regardless of demand, the boiler fires-up to replenish the stored water as soon as its volume or temperature deteriorates.

With SolarSmart, the stored volume of hot water is heated only by the collected solar energy, so no gas is used in maintaining the cylinder temperature.

Should the solar heated water be exhausted, however, the combination boiler fires-up to help satisfy any immediate demand for hot water.

3 easy steps to free renewable energy

FIXING OPTIONS

SolarSmart in-roof flashing kit single For fixing a single panel flush with roof tiles

SolarSmart in-roof flashing kit twin For fixing twin portrait panels flush with roof tiles

SolarSmart on-tile fixing kit single On-roof kit for fixing a single solar collector on to tile roofs

SolarSmart on-tile fixing kit twin On-roof kit for fixing twin solar collectors on to tile roofs

SolarSmart on-slate fixing kit single On-roof kit for fixing a single solar collector on to slate roofs

SolarSmart on-slate fixing kit twin On-roof kit for fixing twin solar collectors on to slate roofs

SolarSmart flat roof fixing kit - landscape only For fixing the solar panel collector at the required angle on a flat roof

Also available:

- SolarSmart connection kit for fitting additional collector panels together
- SolarSmart immersion kit for SolarSmart
 100 litre unvented cylinder
- SolarSmart solar valve to enable SolarSmart 100 to be retrofitted to Alpha's older range of boilers



100L cylinder



Universal drainback unit



HOW IT WORKS

01

The stored volume of hot water is only heated using energy collected from the solar panel – so there is never any gas used in maintaining the cylinder temperature.

02

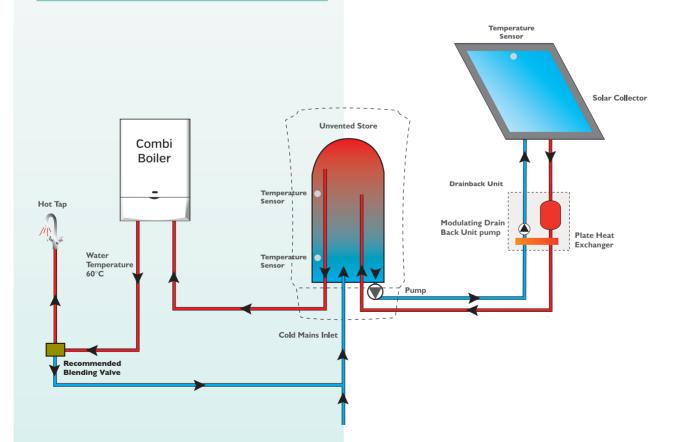
If the boiler does fire, then the water being fed to it will usually be pre-heated, so it will only need to operate at part load, using less gas.

03

Because the system works with a combination boiler, hot water isn't stored unnecessarily, but is always available, on demand, even if the cylinder is depleted.Energy bills and carbon emissions are significantly reduced.

OPTIONS

- Landscape or portrait flat panel collector
- Fixing kits for mounting collector flush with, or on top of roof tiles
- A-Frame kit for mounting collector on flat roofs
- Multi-panel set-up available



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