

Taking energy efficiency to its peak performance

ALPHA PRODUCTS ARE DESIGNED
TO GIVE YOU GREATER DER SAVINGS
AND EXCEED YOUR SAP TARGET RATING

HIGH EFFICIENCY BOILERS
LOW CARBON SOLUTIONS



Helping you meet the challenge

UP TO
21.83%
IMPROVEMENT
ON BUILDING
REGULATIONS

We understand the challenges you face when designing homes to meet the requirements of today's building regulations, standards and guidelines.

When it comes to heating and hot water appliances, there are plenty of low carbon options open to you. But matters such as budget and practicality of installation can often prevent them being implemented.

That's where Alpha Heating Innovation can help. Our GasSaver, FlowSmart and SolarSmart products enable you to maximise domestic heating and hot water system performance to achieve significantly improved energy efficiency and carbon emissions levels.

By utilising familiar heating technology, they avoid the need to radically re-think traditional heating system design, helping you to control building costs and project timings in the process.

WHAT ALPHA PRODUCTS CAN HELP YOU TO ACHIEVE

House Type	Model	DER	TER	% Improvement
4 Bed Detached	Alpha InTec 30SE with 200L Unvented Cylinder	18.11	18.85	3.90%
	Alpha InTec 30SE with 200L Unvented Cylinder + Weater	17.50	18.85	7.20%
	InTec 34C + GS + FlowSmart	16.94	18.85	10.15%
	InTec 40GS + FlowSmart	16.32	18.85	13.44%
3 Bed Semi	InTec 30C	17.48	18.18	3.85%
	InTec 30C + Weather Comp / Load Comp	17.19	18.18	5.45%
	InTec 30C + GasSaver	14.84	18.18	18.37%
	InTec 30CE + GS	14.55	18.18	19.96%
	InTec 30GS	14.29	18.18	21.40%
3 Bed End Terrace	Alpha InTec ² 28XE	20.07	20.29	1.10%
	Alpha InTec ² 30CE	19.98	20.29	1.53%
	Alpha InTec ² 30CE + Weather Comp / Load Comp	19.74	20.29	2.68%
	Alpha InTec ² 35CE + GS	16.46	20.29	18.86%
	Alpha InTec ² 28XE + GasSaver	16.37	20.29	19.30%
	Alpha InTec ² 34C + GS	16.10	20.29	20.62%
	Alpha InTec ² 40GS	15.86	20.29	21.83%

The improvement over Building Regulations [TER] is in comparison to a compliant 88% efficient gas boiler where the Dwelling Emission Rate is equal to the Target Emission Rate in the test case SAP calculations



**NEW
IMPROVED**

GASSAVER ALPHA GS-2-ALPCD

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, in turn reducing the amount of gas required by the boiler to deliver hot water and increasing the overall efficiency of the system beyond that of a standard boiler.

In addition, GasSaver reduces 'dead leg' – the delay that occurs while the combination boiler heats water to the correct temperature, subsequently reducing waste water.

When inputting any of the GasSaver options into SAP, the required boiler is selected and the GasSaver feature added through the special features menu in the SAP software.

The Alpha GS2 GasSaver is a recognised additional feature in SAP, improving the DER rating on the overall building efficiency. This "top box" unit can be fitted to all Alpha boiler range models.



INTEC GS

With all the benefits of GasSaver integrated within the boiler casing, the InTec GS is a neat, easy to install one-piece unit, representing what must surely be the ultimate combination boiler.

This wall mounted high efficiency condensing combination boiler with built-in GasSaver technology uses 35% less gas on average to produce hot water, offering benefits to the homeowner by reducing energy bills and saving up to half a ton of carbon per year.

Like the GasSaver unit, Alpha InTec GS models improve the overall building efficiency.





FLOWSMART

FlowSmart is a space-saving and energy efficient alternative to a traditional heating system set-up, ideal for homes with above average hot water demands.

Our original floor standing 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. The InTec 40GS Plus FlowSmart solution comes complete with a pre-made pipe kit, cylinder sensor and diverter valve.

The combined wall-hung FlowSmart heating solution offers the InTec 40GS with a bolt-on cylinder that is quick and easy to install.

Using the benefits of the GasSaver flue heat recovery system and a compact thermal store, FlowSmart delivers the high water flow rates needed in larger homes.

As an approved solution in the SAP calculation method FlowSmart can be selected through the special features function of the software to give significant DER savings.



SOLARSMART

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

Designed to work with all Alpha combination boilers, SolarSmart consists of a dedicated 100L wall-mounted solar heated hot water cylinder.

This stored volume of water is heated only by collected solar energy from a single or double roof mounted panel

with a water only filled atmospheric pressure drain back pump unit. Ensuring no gas is used in maintaining the cylinder temperature.

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

SolarSmart provides a great renewable solution that gives further savings on the DER in building performance SAP calculation.





CONTROLS

Controls play an important part in the results and Alpha's Climatic modulating remote control offers enhanced boiler control 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.



WEATHER COMPENSATION PROBE

An optional energy saving device that measures the outside temperature and adjusts the boiler heat output accordingly.

This enables temperature control of the property and improved efficiency, in turn reducing consumption.



Make Alpha your first choice

Not only can Alpha products provide on-going energy saving benefits to homeowners, as demonstrated, we can help you to over achieve on SAP, improve your over all DER rating and ultimately meet necessary building requirements.

Our easy to install and easy to use products offer you continued peace of mind over the reliability and energy efficiency of the heating and hot water solution you choose.

We offer help with heating design and SAP calculations, technical advice throughout the project as required by you, as well as providing Alpha product training; ensuring you specify and install the most cost effective and efficient solution for your project.

“When considering the capability of the InTec 30GS, even within a smaller space, I really think Alpha is leading the UK market with this technology.”

Harry Sculthorp,
Architectural Designer at Langridge Homes

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