

**INTERGAS<sup>®</sup>**

HEATING SOLUTIONS

# XTEND

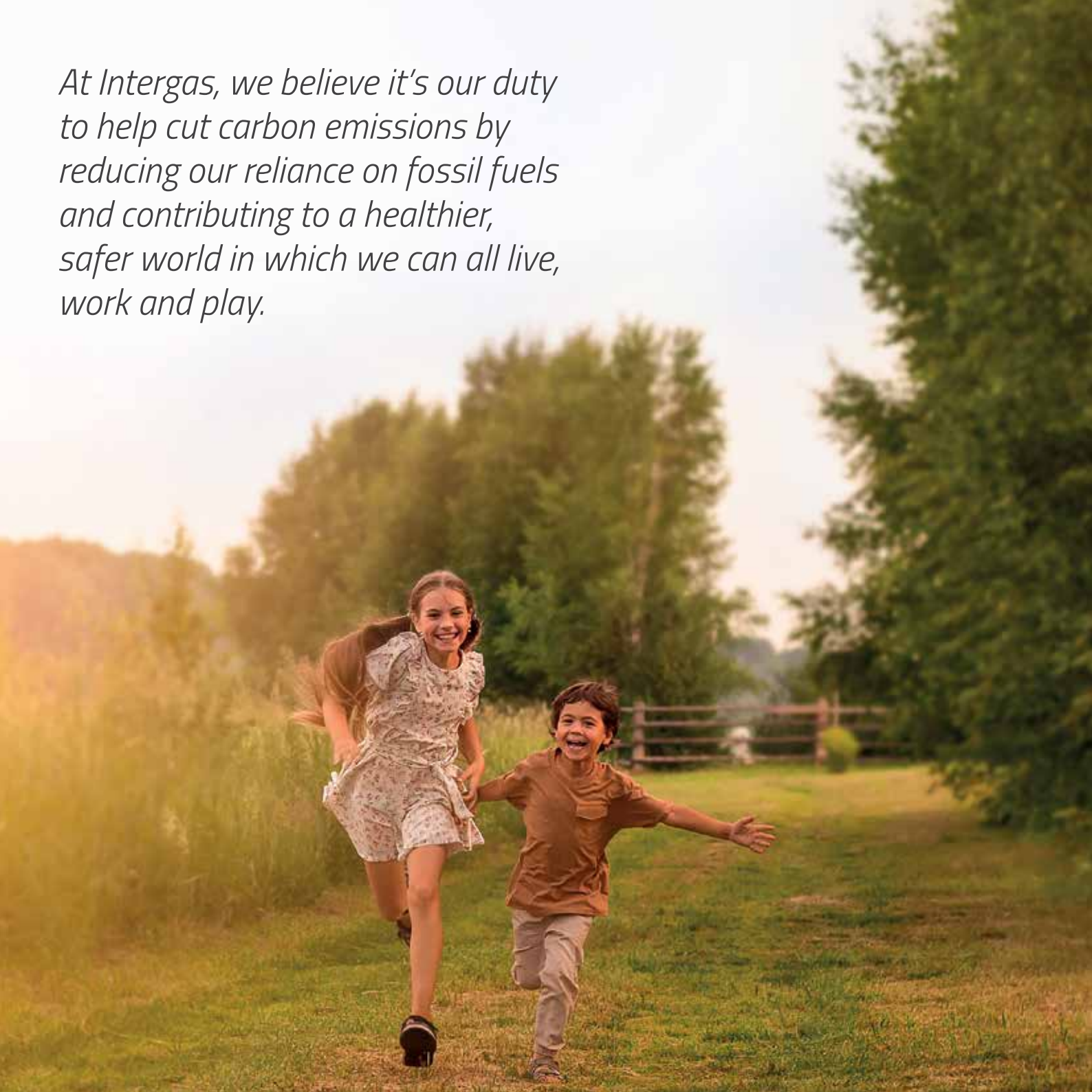
THE HYBRID

*Monobloc and split system*



*The sustainable heating system that cuts  
gas consumption by up to 82.5%.*

*At Intergas, we believe it's our duty to help cut carbon emissions by reducing our reliance on fossil fuels and contributing to a healthier, safer world in which we can all live, work and play.*



# HOW TO MAKE A DIFFERENCE

We're all doing what we can to combat the effects of man-made climate change but, if we are to meet the Government's net zero carbon target by 2050, we need to make some fundamental changes to how we heat our homes. Why? Because 85% of UK homes use gas boilers which are responsible for 14% of all carbon emissions in this country. If we all used a little less gas, we could start making a real difference to our environment.

**At Intergas we've made that start. We've designed a hybrid heating system called Xtend that cuts gas consumption by up to 82.5%. It's a 'hybrid' because it combines two technologies: an ErP combi or system boiler and a monobloc or split air source heat pump (ASHP). These appliances work together to generate low carbon heat and hot water for the home.**

## WHY HYBRIDS MAKE SENSE

The ErP boiler or cylinder provides the hot water and the heat pump heats the rooms. A heat pump is ideal for well-insulated properties but, as the majority of UK homes aren't, it only operates effectively for 70-80% of the year.

When the temperatures drop, our smart system will alternate between the heat pump and boiler, ensuring comfort levels are maintained and the most energy-efficient combination of appliances used. This means that there's no loss of comfort and the homeowner has heat and hot water when and where they want it.



## HOW HEAT PUMPS WORK

The simple explanation is that a heat pump operates like a fridge freezer but in reverse. The heat pump, which can be a monobloc or split system, extracts warmth from the outside air, ground or water; this warmth is absorbed into a fluid which passes through two heat exchangers and a compressor to raise the temperature and transfer the heat to water. This water then heats the radiators or underfloor heating.

**WITH  
XTEND,  
YOU'LL  
GET  
MORE  
THAN  
YOU  
EXPECT...**

Our Xtend hybrid is packed with so many features and benefits, it's easily one of the best in class. Xtend comprises an Intergas ErP combi or system boiler, an indoor unit and a 5kW monobloc or split heat pump.

Because we want Xtend installations to be as hassle free as possible, we've designed software which cuts the configuration time, which is usually a 45-minute procedure, to under 10; all you have to do is scan the QR code on the indoor unit.

## **DESIGN FREEDOM**

Our indoor control unit is one of the smallest on the market, which means you can choose where it's installed, as long as it's within 15m of the boiler.

Similarly, the heat pump, which is also compact, can be sited anywhere outside the property, providing it's within a minimum distance of 3m or a maximum distance of 25m (with the split) or 10m (with the monobloc) of the indoor unit.

*Please note: the installation must comply with manufacturer's instructions and building regulations.*

## **RETROFIT IT!**

*There's even more good news: if an ErP combi or system boiler is already installed at the property - it doesn't have to be an Intergas boiler - then Xtend, the indoor unit and the heat pump, can simply be retrofitted to it, substantially reducing the installation time, not to mention the cost.*

## **HYBRIDS ARE PRACTICAL AND ECONOMICAL**

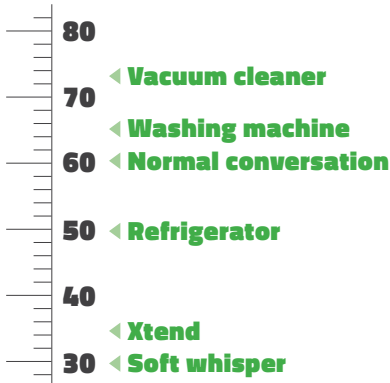
The cost of installing a hybrid heating system is significantly lower than that of a stand-alone heat pump as fewer alterations to the home are needed. Take the boiler, for example, providing it's compliant and has OpenTherm or on/off controls, you can save the cost of investing in a new one.

If an ErP combi is already at the property, a separate heat pump cylinder will need to be installed. It's possible that radiators will need to be upsized too, due to the heat pump's low flow temperatures (typically between 35-50°C), to provide a larger surface area to meet the heat demand.



## SOUND ADVICE

If it's a pump, there will be some noise, but with ours you can relax in the knowledge that at only 34dB(A) at five metres, they're exceptionally quiet. For context, a soft whisper is 30dB(A).



Please note: the decibel levels listed above for common noise sources are typical values but they will vary.

*Xtend, our hybrid heating system, is the bridge to a carbon-free future.*

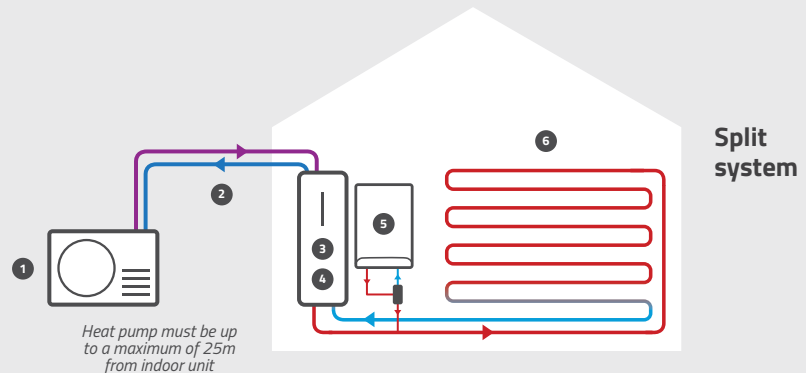
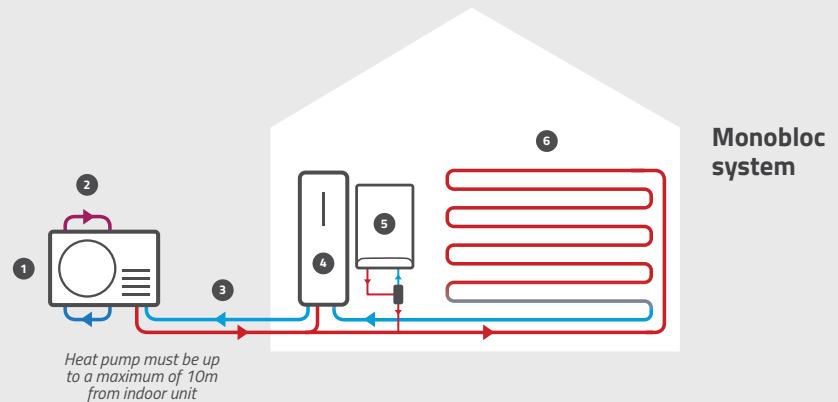
## UNDERSTANDING MONOBLOC AND SPLIT HYBRID SYSTEMS

There are three main differences between a monobloc and a split system:

- **Heating water:** with the monobloc the water is heated outside the property, with a split system the water is heated inside the property.
- **F-Gas certification:** if you are installing a monobloc you don't need F-gas certification as you won't be handling

refrigerants; if you're installing a split system you will be handling refrigerants and so need F-gas certification.

- **Outside installation distance:** the monobloc can be installed up to a distance of 10m from the indoor unit, the split can be installed up to a distance of 25m.



- 1 Heat pump
- 2 Refrigeration circuit
- 3 Heating circuit for heat pump
- 4 Indoor unit
- 5 Boiler
- 6 Heating circuit for house

*Hybrid heating systems are suitable for a diverse range of properties and deliver immediate carbon savings.*



# THE FULL PACKAGE

- Intergas ErP combi or system boiler
- Compact indoor unit
- 5kW monobloc or split heat pump
- Comfort Touch thermostat
- Gateway
- Intergas system filter
- Fernox F1 Inhibitor (265ml)
- Fernox F3 Cleaner (265ml)
- Fernox F7 biocide (200ml)
- 7-year warranty on hybrid if Intergas ErP combi or system is installed (Ts&Cs apply)
- 5-year warranty on indoor unit and heat pump

*For boiler warranties, see page 8.*

## DON'T NEED THE FULL PACKAGE?

You don't have to buy a combi or system boiler or accessories from us to unlock the benefits of our hybrid heating system, you can simply buy our indoor unit and heat pump (they come as a pair) and retrofit them to your existing boiler, providing it's compliant of course. These two units come with a five-year parts and labour warranty.



*Xtend provides all the comfort of a traditional heating system, while cutting gas consumption by up to 82.5%.*



## ULTIMATE CONTROL

Xtend becomes even more responsive and energy efficient when connected to our Comfort Touch OpenTherm room thermostat. Comfort Touch communicates with Xtend to automatically optimise its settings.

The installer can continue to use the Service Dashboard for remote control, monitoring and adjustments, providing they're connected to the Intergas Gateway. The homeowner can turn their smartphone into a smart thermostat to change their central heating settings or programme. They also need to be connected to the Gateway.

## ULTIMATE EFFICIENCY

When you install an Intergas ErP combi or system boiler as part of our hybrid heating system, you're guaranteed efficiencies others cannot match.

Thanks to our revolutionary bithermic heat exchanger, all our combis condense in both heating and hot water modes, respond to the demand for heat faster and keep carbon emissions as low as possible.

Add to this a robust build, a maximum of four moving parts and no diverter valves (in our combis), you have boiler reliability that's off the scale.

## Product warranties

Boiler	Boiler + Xtend: new complete system			Xtend retrofit to boiler			Xtend retrofit to boiler + filter*		
	BOILER	HEAT EXCHANGER	XTEND	BOILER	HEAT EXCHANGER	XTEND	BOILER	HEAT EXCHANGER	XTEND
Rapid	10 yrs	10 yrs	7 yrs	5 yrs	10 yrs	7 yrs	7 yrs	10 yrs	7 yrs
Rapid Plus	10 yrs	10 yrs	7 yrs	8 yrs	10 yrs	7 yrs	10 yrs	10 yrs	7 yrs
HRE	15 yrs	15 yrs	7 yrs	9 yrs	15 yrs	7 yrs	11 yrs	15 yrs	7 yrs
Eco RF	15 yrs	15 yrs	7 yrs	12 yrs	15 yrs	7 yrs	14 yrs	15 yrs	7 yrs
Xclusive	15 yrs	15 yrs	7 yrs	12 yrs	15 yrs	7 yrs	14 yrs	15 yrs	7 yrs
Xtreme	15 yrs	15 yrs	7 yrs	12 yrs	15 yrs	7 yrs	14 yrs	15 yrs	7 yrs

*\*The system filter must be the Intergas system filter that was fitted at the same time as the boiler.*

*These warranties are only valid if Xtend has been installed and maintained according to manufacturer's instructions.*



# Technical specifications

XTEND	MONOBLOC		SPLIT SYSTEM	
Nominal heat output - A7 W35	kW	5.04	kW	5.04
Output range	kW	1.8 to 5	kW	1.8 to 5
COP		4.68		4.68
Space heating energy class		A++		A++
Refrigerant type		R32		R32
Refrigerant charge	kg	0.85	kg	0.85
Sound power: indoor unit	dB(A)	32	dB(A)	32
Sound power: heat pump	dB(A)	49	dB(A)	49
Sound pressure at 1 metre	dB(A)	48	dB(A)	48
Sound pressure at 2 metres	dB(A)	42	dB(A)	42
Sound pressure at 3 metres	dB(A)	38.5	dB(A)	38.5
Sound pressure at 5 metres	dB(A)	34	dB(A)	34
Heat pump temperature range	°C	-15°C to 25°C	°C	-15°C to 25°C
Maximum expected temp of system water from heat pump	°C	55°C	°C	55°C
Maximum pre-filled refrigerant pipe length without additional R32	m	N/A	m	6
Minimum pipe length	m	3	m	3
Maximum pipe distance between indoor unit and heat pump	m	10	m	25
Maximum head for refrigerant pipework	m	10	m	10
Top up refrigerant after 6 metres	gms	N/A	gms	25
<b>Indoor unit dimensions</b>				
Height	mm	557	mm	557
Width	mm	164	mm	164
Depth	mm	275	mm	275
Weight (empty)	kg	5	kg	10
<b>Heat pump dimensions</b>				
Height	mm	689	mm	689
Width	mm	1000	mm	968
Depth	mm	367	mm	367
Weight (net)	kg	48	kg	43

Technical specifications subject to change.

**Xtend is our most practical and sustainable solution to helping combat climate change. If you'd like to know more about our hybrid heating system or our stockists, please call us on 01527 888000 or email [sales@intergas-heating.co.uk](mailto:sales@intergas-heating.co.uk).**

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