

Our new air source range for climate friendly, efficient heating and hot water

Featuring our new HPA range with R290 refrigerant



What's new?

The HPA-O – series:

- › Highly efficient refrigeration circuit with natural refrigerant (R290)
- › COP of up to 5.5*
- › New elegant look in anthracite
- › Sound power level (EN 12102) from as low as 43 dB(A)
- › Plus models available in white & anthracite

*Coefficient of performance at A7/W35 (EN 14511).



HPA Plus and Trend: our next generation heat pumps

A new generation of STIEBEL ELTRON heat pumps takes the stage! With natural refrigerant R290 they are more efficient and environmentally friendly than ever before.

We're calling it hpnext, with a series of air source, ground source and integrated heat pump and ventilation units for you to choose between.

hpnext

Even more efficient and climate-friendly (up to A+++ ratings achieved)

The new, even more efficient refrigeration circuit, is perfectly matched to the climate-friendly R290 refrigerant, providing significant increases in efficiency.

Designed for safety

All our R290 heat pumps are designed with maximum safety as a priority. Each has specific safety concepts like our integrated gas separator and sensors to give you peace of mind.

Quick, easy installation

The new devices impress with features that:

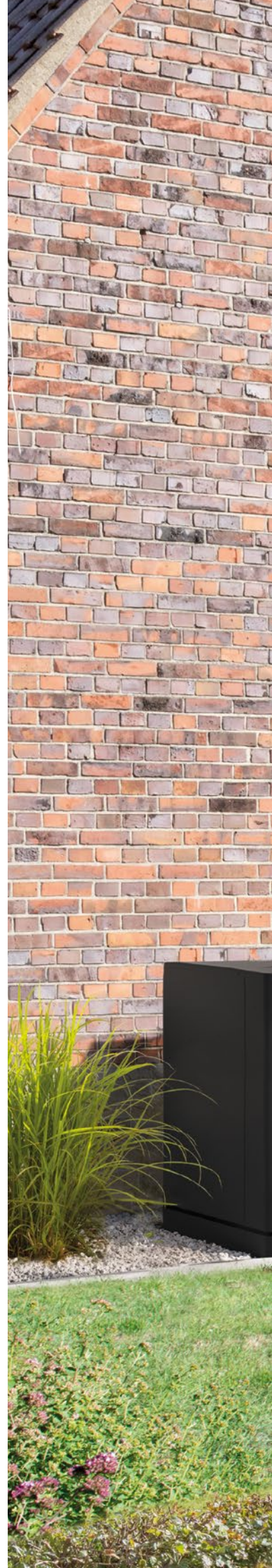
- › Facilitate faster installation and connection
- › Allow for 2-people to carry the unit

Updated aesthetic appeal

- › New minimalist design
- › New colour option for air source heat pumps

Our quietest air source models

With the outdoor units a sound power level (EN 12102) from as low as 43 dB(A) and an intelligent silent mode it is easier than ever to choose a suitable location – even in densely populated areas.





STIEBEL ELTRON

Heat pumps with unique benefits

hpnext

Our next generation heat pumps have even more refinements and improvements that make them quieter, more efficient and easier to install and maintain.



YouTube video

Why our heat pumps are so quiet

Thoughtful design for longevity, quiet & efficient operation and easy installation only from STIEBEL ELTRON

Stiebel Eltron have 50 years experience designing and manufacturing heat pumps. Ensuring longevity and protecting your investment is at the heart of each design feature. Here are just a few which made our heat pumps not just any heat pump.

High quality finishes for longevity even in exposed coastal locations

Top level corrosion protection as standard so that your heat pump remains looking good and performing well for many years.

- › Hot-dip galvanised and powder coated for corrosion protection
- › Plastic components made of heavy-duty weatherproof and UV resistant plastic
- › Air source models have a protective Blue-Fin epoxy resin coating on the evaporator as standard. This protects against the elements and improves performance

Designed for whisper-quiet operation

It's not just the look of the design we consider at Stiebel Eltron. Keeping sound and volume low ensures the unit is as unobtrusive and possible.

- › Encapsulated refrigerant circuits contain noise inside the unit
- › Modulated fan speeds mean the fan can run more slowly (and thus quietly) when full power isn't needed. A benefit for both noise reduction and decreased power consumption
- › Wide gaps between the evaporator fins reduce air resistance for less airflow noise
- › Integral anti-vibration mounts as standard for less transference of noise

Special features to enhance performance

Thought is given to designing every aspect of our units for energy efficiency.

- › Our natural defrost feature allows the heat pump to clear ice from the evaporator without the need for a full defrost cycle.

Running the fan at maximum speed for a short period helps to melt the ice and allows the heat pump to maintain heating capacity even in cold and humid weather allowing the heat pump to continue maintaining a comfortable environment in the property.

- › Hydrophilic coating on the fan nozzle of air source units repels water to prevent them freezing and requiring the heat pump to go into its defrost cycle
- › Some models feature condensate drains with clever features to prevent blockages and freezing

Easy installation

Every aspect is considered to make it fast and easy to install our units. Here's just a quick pick of unique features:

- › Our units with R454C refrigerant make for easy installation in situations where R290 models might prove awkward
- › Our Premium and Plus models have design features such as pivoting electrical panels to make installation easy in tight spaces

Unrivalled support

We offer a truly market leading level of support for both installers and end users which means you can get the help you need, when you need it.

- › National network of skilled service engineers
- › Telephone helpdesk staffed by highly knowledgeable technical team

Unique safety features for R290 models

For your absolute peace of mind, every heat pump in our HPnext series has a robust, multi-stage safety system. With safety components such as an integrated gas separator, a vent valve, a pressure relief valve, and an electronic monitoring system with a shut-off function, you can be sure of a fail-safe installation.

An example: hpnext - installation made even easier and neater

Both the hydraulic and electrical connections can be routed to the rear or downwards. The electrical connection is conveniently and safely made using spring terminals. Just one of the many clever design features for easy installation in our hpnext series.



What kind of heat pump do I need?

It will depend on a lot of factors! The age and size of your home will determine how powerful the heat pump (or pumps) needs to be, as will how much hot water you need.

The choice between air and ground source units is dependent on cost (air source systems are typically cheaper) and whether you have enough land for a ground source collector loop or are permitted to dig a deep enough borehole to serve your property. Ground source units must also be housed indoors whilst air source typically go outside. For those with sufficient room, ground source units provide the most efficient and quietest systems.

The choice between our next generation heat pumps and our existing range will come down to space for installation. Whilst R290 has the lowest global warming potential of the refrigerants we use, and these are our quietest and most efficient units, you do need a little more clearance space for installation compared to our units with other refrigerants.

Talk through your requirements with your potential installers and they will help you make the right choice!

What to expect from an air source heat pump system

With an air source heat pump system you will have an outdoor unit (unless you choose our LWZ indoor heat pump and ventilation units) and some indoor components such as a hot water tank and controls. Air source heat pumps have fans that create some low -level noise, but all our range (and particularly our hpnext series) are renowned for being whisper quiet and there are special “silent mode” settings for night time operation.

Heat pump systems are typically run at much lower temperatures than boilers for higher efficiency. Every 1 degree lower that you can run your system gives 3% off your running costs, so 10 degrees means a 30% reduction in cost. This means that your underfloor heating and radiators should not feel ‘hot’ to the touch as you may be used to in a boiler-fed system. Smart weather compensation technology also ensures that the system only works as hard as it needs to combat external temperatures - so your heating emitters will feel hotter when it is colder outside, even if they are heating your home to the same temperature.

Heat pumps are also more efficient when running for long periods rather than cycling on and off, so should typically be set to maintain the property at a ‘setback temperature’ which is only a few degrees lower than your preferred target or ‘comfort’ temperature. The bonus is that this greater efficiency thus comes with greater continuous comfort with the property never being allowed to become uncomfortably cold.

Unless you have more than one heat pump with a unit dedicated to hot water production your heat pump will alternate between heating and hot water production. With heat pump systems it is therefore better to set the hot water tank to heat on a programme which occurs during the middle of setback periods for heating. This will assist in ensuring that your heat pump responds quickly to calls for heating up to comfort temperatures.





Heat pump terms explained

COP

COP is the ratio of the heating or cooling output to the electrical energy input and is snapshot of the heat pump's efficiency at a specific moment under given conditions. We provide COP figures achieved in industry standard tests.

A higher COP means that the heat pump is more efficient at converting electricity into heating or cooling.

SCOP

The Seasonal Coefficient of Performance (SCOP) is a metric that measures the energy efficiency of a heat pump over an entire heating season.

SCOP takes into account the varying outdoor temperatures and operating conditions throughout the season, giving a more comprehensive picture of the heat pump's overall performance than a COP. Again, we quote SCOP figures that have been achieved in industry standard tests.

Cascade

A cascaded heat pump system allows more than one heat pump unit to work together to meet a property's heating and hot water needs. Separate heat pump units can be designed to operate at the same time for different tasks (eg one for heating, another for hot water) or to share the load. Cascades provide redundancy in the case of one unit being out of order and can help with ensuring comfort in larger and older properties.

Make the best choice for all your plans

Installing an air source heat pump from STIEBEL ELTRON is a quick and easy job for your contractor. This makes our appliances an especially good choice if you need to replace an existing heating system as part of a modernisation project. Even for new homes, it's worth taking a look at our renewable technology – its efficiency means it is popular in properties ranging from new build to low energy houses.

Air source heat pumps with inverter technology



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LWZ 07.1 Premium HKL 230

Model
Energy efficiency class, W55/W35
New build modernisation
Option for PV self-consumption ¹⁾
Option for mobile control
Heating cooling
Outdoor installation
Indoor installation
Ventilation

A++/A++

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HPA-O Plus 230/400 range

A+++/ A++(+)

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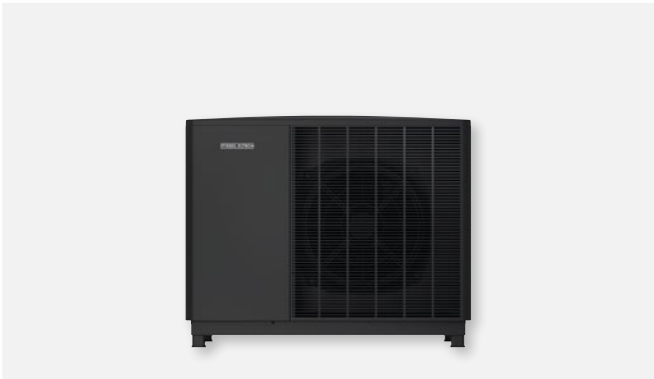
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¹⁾ For system and country-specific compatibility and availability, please note the information at: www.stiebel-eltron.com/iotcompatibility



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HPA-O Trend 230 range

A+++ / A++(+)

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Page 16

WPL-A 07 HK 230 Premium

A+++ / A+++

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The future of building services continues to evolve

First launched 25 years ago, the LWZ was the world's first unit to combine five building services in one. Our new LWZ model is part of the hpnex generation of products, with advanced technology to future proof your home.

hpnex

All your building technology on a compact footprint.

The new LWZ offers hot water, heating, ventilation, air purification and cooling whilst taking up minimal floorspace.

Outstanding efficiency

Behind the elegant casing of the LWZ lies the latest technology for top-class efficiency. Heat is extracted from the exhaust air, defrosting processes are minimized and energy requirements are reduced to an absolute minimum.

What makes the new LWZ series so impressive?

- › Indoor installation
- › Minimal space requirement

- › Up to five functions in one unit (hot water also requires tank)
- › Compatible with energy management system for photovoltaic integration
- › Ventilation with heat recovery and fully automatic summer bypass
- › Natural refrigerant
- › Flexible installation (right or left-handed)
- › Quick installation of the outside and exhaust air ducts using hose sets with adapter plates



Natural



WLAN



Intuitive controls



Efficient



Simple installation



Integrates with smart tech





Discover the new Premium: Plus

HPA-O 07.2 Plus HC 230
HPA-O 10.2 Plus HC 230
HPA-O 10.2 Plus HC 400
HPA-O 13.2 Plus HC 400

The HPA Plus HC range Plus sets standards in terms of efficiency, design and sound quality. Due to the optimized refrigeration circuit and inverter technology, they have the highest efficiency class of A+++ and offer even higher COPs than our previous premium models. Due to the very quiet operation, the new Plus models are easy to site even in densely populated locations.

In Silent Mode, the sound can accurately be limited in increments of 1dB.

Key features of our new models

- › Our quietest ever air source units
- › Our most efficient air source units: efficiently delivers high flow temperatures up to 75° C even in colder weather, making them ideal for older homes and exposed locations as well as new build
- › New range of optional accessories for the neatest installations, such as the feet trim shown in the picture opposite and matching telescopic ducting to cover connection pipes.



Heating



Cooling



Domestic hot
water

COP

5,5*





Rely on our latest trends

HPA-O 05.2 Trend HC 230

HPA-O 07.2 Trend HC 230

HPA-O 10.2 Trend HK 230

HPA-O 13.2 Trend HC 230

HPA-O 17.2 Trend HC 400

The HPA-O 10.2 Trend HK 230 can be used for new buildings as well as for renovations. With flow temperature of 75 °C, use with standard radiators is possible.

With R290 climate-friendly refrigerant and high efficiency, this model offers excellent performance at a lower pricepoint than the HPnext Plus models.

What makes this product stand out

- › Excellent price-performance ratio
- › Universally applicable in new buildings and in renovation
- › High efficiency, even at high flow temperatures
- › New range of optional accessories for the neatest installations, such as feet trims and matching telescopic ducting to cover connection pipes



Heating



Cooling



Domestic hot water

COP

5,5*





Create a pleasant climate all round

WPL-A Premium inverter air source heat pump



This air source heat pump doesn't just take care of your heating and hot water. In the summer months, it can also provide you with cooling. Even at very low outside temperatures of down to minus 25°C, it achieves high flow temperatures for pleasant room heating and high DHW convenience. This inverter appliance therefore offers you a valuable service, no matter whether you are building a new home or modernising an older one.

Top product features

- › Outdoor heat pump for room heating and cooling
- › Inverter technology for high efficiency and low energy bills
- › Low operating noise; can be further reduced in night mode ('silent mode' function)
- › Flow temperatures of up to 75°C for first rate DHW convenience
- › Optional integration into the home network and control via smartphone (additional components required)



Outdoor
installation



New build



Modernisation



Cooling

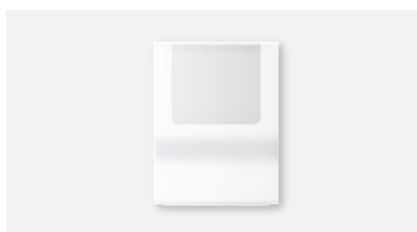
Customise your equipment to suit your requirements

With our extensive range of accessories, you can tailor your level of comfort to suit your requirements. Regardless of whether you are using individual appliances or complex systems – we can supply you with everything from one source. All our components are perfectly matched to each other so that you can continue to enjoy your STIEBEL ELTRON products for many years to come.

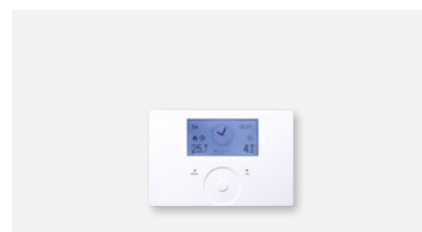
WPMsystem



- › WPM international heat pump manager
- › With integral programming unit
- › For controlling extensive functions



- › WPE extension controller
- › To control additional functions
- › With universal differential controller
- › Integration of a boiler possible



- › FET Touch-Wheel remote control
- › To set the exact comfort temperature you require
- › With illuminated graphic display
- › Shows the room temperature, room humidity, time and outside temperature

MyStiebel App - The app for your heat pump



Intuitive operation thanks to MyStiebel app

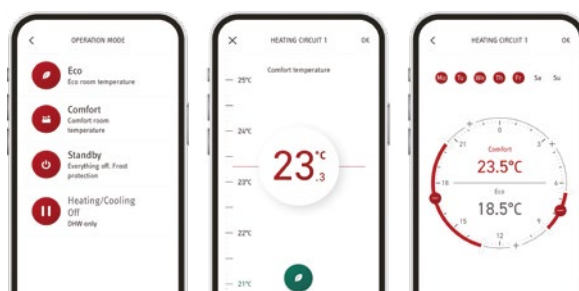
The MyStiebel app allows you to adjust the extensive functions of a STIEBEL ELTRON heat pump easily and intuitively - also on remote access. In addition to control the heating, cooling and DHW, it is possible to create and save individual time programs in the MyStiebel app.

The MyStiebel app provides an access to the operating modes of the heat pump manager to customize your comfort temperature at any time. This can reduce energy consumption whilst retaining comfort. Spontaneous and temporary adjustments of the desired temperature are possible at any time.



Find out more about requirements, compatibility & how to download at:

www.stiebel-eltron.co.uk/mystiebel



Air source heat pumps with inverter technology – product comparison

Model	LWZ 07.1 Premium HKL 230
Product number	206284
Energy efficiency W55/W35	A++/A++
Heat output at A-7/W35	6.5 kw
Cooling capacity at A35/W18	4.5 kw
Airflow volume	50–300 m³/h
Heat recovery rate up to	92 %
Power of auxiliary electric heater	8.8 kw
Sound power level (EN 12102)	50 dB(A)
Electrical connection control	230 (1/N/PE) V
Electrical connection HP	230 (1/N/PE) V
Electrical connection for additional heating	400 (3/N/PE) V
Hydraulic connections	DN 22 bottom left rear
Available accessories	Yes, see website or contact us for more information
DHW tanks	Compatible DHW water tanks in various sizes available
Dimensions (height x width x depth)	1870 x 810 x 764 mm
Sound power level (EN 12102)	50 dB(A)

Model	HPA-O 07.2 Plus HC 230	HPA-O 10.2 Plus HC 230	HPA-O 10.2 Plus HC 400	HPA-O 13.2 Plus HC 400
Product number (Anthracite)	207430	207432	207433	207435
Product number (Signal white)	208432	208433	208434	208435
Energy efficiency W55/W35	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heat output at A-7/W35	7.09 kw	10.07 kw	10.07 kw	13.15 kw
Suitable for underfloor heating	Yes	Yes	Yes	Yes
Suitable for radiators	Yes	Yes	Yes	Yes
Refrigerant	R290 (natural)	R290 (natural)	R290 (natural)	R290 (natural)
GWP value	3	3	3	3
Hydraulic connection	Rear or downwards	Rear or downwards	Rear or downwards	Rear or downwards
Electric connection	Rear or downwards	Rear or downwards	Rear or downwards	Rear or downwards
Wall bracket	Yes	Yes	Yes	Yes
T support (for setting in concrete)	Yes	Yes	Yes	Yes
Floor bracket (feet)	Yes	Yes	Yes	Yes
Windbreak for exposed locations	Yes	Yes	Yes	Yes
Accessory for roof installations	Yes, ballasting or fixing	Yes, ballasting or fixing	Yes, ballasting or fixing	Yes, ballasting or fixing
Colour	Anthracite/White	Anthracite/White	Anthracite/White	Anthracite/White
Weight	145 kg	166 kg	166 kg	205 kg
Height x width x depth	960 x 1170 x 727 mm	1144 x 1170 x 727 mm	1144 x 1170 x 727 mm	1365 x 1170 x 727 mm
SCOP 35 °C (EN 14825)	5.09	4.96	4.96	4.89
Sound power level (EN 12102)	43 dB(A)	46 dB(A)	46 dB(A)	46 dB(A)

Model	HPA-O 05.2 Trend HC 230	HPA-O 07.2 Trend HC 230	HPA-O 10.2 Trend HK 230
Product number	207419	207420	207422
Energy efficiency W55/W35	A+++/A+++	A+++/A+++	A+++/A+++
Heat output at A-7/W35	4.91 kw	6.92 kw	9.49 kw
Suitable for underfloor heating	Yes	Yes	Yes
Suitable for radiators	Yes	Yes	Yes
Refrigerant	R290 (natural)	R290 (natural)	R290 (natural)
GWP value	3	3	3
Hydraulic connection	Rear or downwards	Rear or downwards	Rear or downwards
Electric connection	Rear or downwards	Rear or downwards	Rear or downwards
Wall bracket	Yes	Yes	Yes
T support (for setting in concrete)	Yes	Yes	Yes
Floor bracket (feet)	Yes	Yes	Yes
Windbreak for exposed locations	Yes	Yes	Yes
Accessory for roof installations	Yes, ballasting or fixing	Yes, ballasting or fixing	Yes, ballasting or fixing
Colour	Anthracite	Anthracite	Anthracite
Weight	148 kg	149 kg	150 kg
Height x width x depth	960 x 1170 x 727 mm	960 x 1170 x 727 mm	960 x 1170 x 727 mm
SCOP 35 °C (EN 14825)	4.69	4.67	4.53
Sound power level (EN 12102)	44 dB(A)	44 dB(A)	48 dB(A)

Air source heat pumps with inverter technology – product comparison

Model	HPA-O 13.2 Trend HC 230	HPA-O 17.2 Trend HC 400
Product number	207424	207426
Energy efficiency W55/W35	A+++ / A+++	A+++ / A+++
Heat output at A-7/W35	9.49 kw	17.36 kw
Suitable for underfloor heating	Yes	Yes
Suitable for radiators	Yes	Yes
Refrigerant	R290 (natural)	R290 (natural)
GWP value	3	3
Hydraulic connection	Rear or downwards	Rear or downwards
Electric connection	Rear or downwards	Rear or downwards
Wall bracket	Yes	Yes
T support (for setting in concrete)	Yes	Yes
Floor bracket (feet)	Yes	Yes
Windbreak for exposed locations	Yes	Yes
Accessory for roof installations	Yes, ballasting or fixing	Yes, ballasting or fixing
Colour	Anthracite	Anthracite
Weight	176 kg	209 kg
Height x width x depth	960 x 1170 x 727 mm	1365 x 1170 x 727 mm
SCOP 35 °C (EN 14825)	4.59	4.55
Sound power level (EN 12102)	46 dB(A)	52 dB(A)

Model	WPL-A 07 HK 230 Premium
Product number	200123
Energy efficiency W55/W35	A+++ / A+++
Heat output at A-7/W35	6.87 kw
Suitable for underfloor heating	Yes
Suitable for radiators	Yes
Refrigerant	R454 C
GWP value	148
Hydraulic connection	To the rear
Electric connection	To the rear
Wall bracket	Yes
Floor bracket (T support for setting in concrete)	Yes
Floor bracket (feet)	Yes
Windbreak for exposed locations	No
Accessory for roof installations	No
Colour	White
Weight	135 kg
Dimensions (height x width x depth)	1045 x 1490 x 593 mm
SCOP 35 °C (EN 14825)	4.8
Sound power level (EN 12102)	48 dB(A)

Your local trade partner:



For new and interesting information on our products, visit
www.stiebel-eltron.co.uk or consult your local trade partner.

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