



Radiator BOOster™ Information Sheet

How does Radiator BOOster™ 2 actually work and save energy?

This ingenious device works in 2 ways;

1) Your central heating boiler uses around 15 kilowatts of energy every hour (some even more). The clever fan arrangement within the Radiator BOOster™ draws heat from your radiator, heating your room in up to half the time, allowing your boiler to shut down much sooner. If you could save just one hour a week of your boiler working, you would save 15 kilowatts of energy. You could easily find the savings more than this, between 7 and 14 hours/week (over 100 kilowatts) during the colder months.

2) As your radiator heats up, the 'rear' surface radiates heat onto your wall, heating the wall up. This heat will be lost through the wall due to conduction. The Radiator BOOster™ sucks up most of this wasted heat and fires it into your room, significantly reducing the losses, saving you even more energy.

It really is as simple as that!

How much energy does it really save?

This will depend on how you use the Radiator BOOster, and for how long. But UK energy providers state that turning your thermostat down by one degree Celsius could save the average home £70/year or 10% of your heating bills. Most tests carried out with Radiator BOOster™ have achieved more than 2 degrees reduction.

How do I use it?

Simply place a Radiator Booster on top of a standard domestic radiator, holes facing down, and plug it in. There's a thermostat inside the Radiator Booster which means the fan comes on when the radiator reaches 32 degrees celsius ie it only comes on when the radiator is hot This makes it very energy efficient.

If the Radiator Booster doesn't come on, check that the radiator is turned on and is hot at the top - as a rough guide you should not be able to hold onto the top of the radiator for more than 5 to 10 seconds with your hand. (this ensures that the radiator is not full of air and the heating system is switched on and up to temperature).

Allow 10 minutes or so for the heat to reach the thermostat sensor (in practice it will be quicker than this) and the fan will come on, circulating heat better, enabling you to turn the thermostat down, and save energy.

Can it be used with Radiator Covers?

YES. Most definitely. Provided you can fit the device in place under your cover, you will save up to 3 times as much energy. Covers prevent a radiator from 'radiating' its heat, relying solely on 'convection'. Radiator BOOster™ enhances that convection at least three fold, distributing huge amounts of trapped heat.

Can I leave it running 24/7?

YES. As the Radiator BOOster™ 2 has in built thermostat that switches on at around 32 degrees Celsius and switches off when the radiator temperature drops below this point.

Should I turn it off when my radiator cools down?

This is an option, but is not necessary as the thermostat control will automatically control the use of the integral fan.

Could I plug it into a timer unit to avoid me remembering to turn it on/off?

Yes. A standard timer can be used, just plug the power supply straight into it.

Surely the materials used to manufacture the Radiator BOOster™ have an impact on the world's resources?

Yes, this is true. But the product has been designed to use the absolute minimum of materials and substances, and in return achieve huge energy savings over many years. The 'trade-off' is well worth doing. The Radiator BOOster™ is also fully recyclable.

My radiator is very long. Do I need to use two of these?

You can do, but it should not be necessary. The simple movement of air created by Radiator BOOster™ will normally lead to good convection in your room.

Where should I place it on my radiator?

As far to the back and centralised along the length of your radiator should optimise the performance. However, if you place it to one end, it should still work adequately. On some radiator designs you will find that the device will drop down slightly behind the top of the radiator. This further enhances the performance.

Can I use it on oil filled radiators, electric storage radiators, or electric convection radiators?

NO. These types of radiator reach far higher surface temperatures than water filled radiators. These higher temperatures will distort and damage the housing and fans of Radiator BOOster™.

Can I use it in my bathroom, shower room, sauna room, outbuilding, etc?

NO! Radiator BOOster™ must not be used in a damp or humid environment under any circumstances.

How much electricity does it use, and is it safety approved?

The Radiator BOOster™ has been tested and approved by an independent laboratory, and conforms to all aspects of CE Certification. Each fan is rated at < 1.0 watt, 12v DC, and each unit is supplied complete with a full set of instructions. Should you operate a Radiator BOOster™ for 500 hours, it should use approximately 1kW of electricity (less than 13p for most homes).

Will I need to put one of these in every room?

We would recommend you place one in each room that you regularly use, but it shouldn't be necessary for other rooms. After all, you could unplug and move one very easily if necessary.

My nearest power socket is a long way from my radiator.

Each unit comes fitted with a 1.8metre power lead, which should suit most situations. However, there is a 3-metre extension lead available,
http://www.nigelsecostore.com/acatalog/Booster_Extension_Cable.html

Do I need to clean the device?

Yes. As with any fan, dust will build up on various surfaces, which will seriously impair the performance and reliability of the device. You will need to clean it periodically using a lint free cloth. Take care with the fan blades as they are very delicate and can break easily.

Can you hear it working?

YES. The small fans used in Radiator BOOster™, like any fans, make an audible humming noise."The fans used in Radiator BOOster are similar to those used in home computers and operate at around the same audible level." During the summer most of us use large noisy desktop/ pedestal fans to help keep us cool, and in the winter noisy electric fan heaters to help keep us warm. Radiator BOOster™ costs virtually nothing to run and is considerably quieter than either of these.

Sometimes it is quieter than other times. Why is this?

The fans can take some time to settle down and perform at their optimum, and they are also very sensitive to temperature. The sounds will vary from time to time, but this is normal and should cause no concern.

I'm allergic to house dust. Will this make things worse?

For the first few times Radiator BOOster™ is used it may stir up a little loose house dust from around your radiators, but within a couple of days this should settle down, and the situation return to normal.

Savings will vary considerably from home to home due to differing heating requirements, outside temperatures, building insulation, room temperatures preferred, heating boiler age and efficiencies, room sizes, and so on. Any figures and suggested savings quoted are for guidance purposes only, however we are confident that in most standard cases, all these savings are achievable when using Radiator BOOster throughout your home/building.

For more information, please contact Nigel's Eco Store
(http://www.nigelsecostore.com/acatalog/Radiator_Booster.html)
email us at: helpme@nigelsecostore.com or call 0800 288 8970.