

# The Heatbook



**Dimplex**<sup>®</sup>

The one solution for all your heating needs

March 2015

[dimplex.co.uk](http://dimplex.co.uk)

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## The UK heating market is changing faster than ever before.

### Reason 1: Energy costs

The rising cost of energy is forcing homeowners, suppliers and the government to find ways of reducing fuel consumption. 36% of the UK's energy is used to heat the space and hot water in our buildings. So it's no surprise there is a concerted effort to reduce our exposure to volatile price movements.

### Reason 2: Legislation

The UK is committed to reducing its greenhouse gas emissions by at least 80% by 2050, relative to 1990 levels. This means that we need to secure lower carbon energy supplies today. As electricity moves to low carbon sources of generation, and with significant drops in emissions targets expected by 2030, electricity will become a universal and versatile source of low carbon energy.

*"Technologies that use electricity to generate heat are well placed to become major low carbon heating technologies in the coming decades."*

DECC – Future of Heating, March 2011.

### Reason 3: Benefits

Electricity is the obvious choice for our future heating needs due to its many benefits, both at national and local level:

- It can be produced in the UK, allowing continuity of supply at a steady price.
- It is increasingly being produced from renewable sources, neutralising its carbon intensity.

Specifically, electric heating:

- Is 100% efficient at the point of use – every unit of electricity that you pay for becomes heat.
- Can be controlled with a degree of accuracy not achievable with other systems.
- Can be quickly and easily installed as there is no pipework to consider, making it ideal for both refurbishment and new build.
- Can operate as standalone heating or a complete system, subject to requirement and budget – with the flexibility to add to the system at any time – making it ideal for extensions.
- Has a low lifetime cost as it requires very little, if any, maintenance and will last at least 50% longer than a gas system on average.
- Is not limited by planning issues associated with flue requirements in new build.
- Offers very low safety risk as it doesn't burn fossil fuel.

**The future of domestic space heating is electric. As the world's largest manufacturer of electric heating products, Dimplex has the capabilities and knowledge to remain at the forefront of these developments.**

**The future is electric; we are electric.**

# About Dimplex



Over the course of nearly 70 years, Dimplex has built a portfolio of some 700 products for a public which wants affordable and attractively-designed heating solutions that are efficient, reliable and durable. This unrivalled experience, combined with our unmatched reputation for quality, reliability and innovation, is why we remain the market leader in the electric space heating world.



## Installers, specifiers and end users alike trust Dimplex because:

- ✓ We are the world's largest electric heating appliance manufacturer.
- ✓ We have a proud reputation for continued investment in quality and innovation.
- ✓ We are backed by an award-winning customer services team.
- ✓ We are members of ECA, EDA, BEAMA and HEVAC.
- ✓ We offer many BEAB-approved products.
- ✓ We offer a free Heating Design Service.
- ✓ We have a heritage of nearly 70 years of continued innovation.
- ✓ We have sold more than 45 million heaters via the trade in the UK alone.

**Today, as the market leader in energy-efficient heating solutions, we continue to use our considerable experience and expertise as a springboard for new ideas, modern design, and ongoing innovation and reliability.**

**Dimplex – tried, trusted, tested.**

## Continuous investment

Integral to our success is our policy of investing continuously in every area of the business – from product development right through to customer service. No one else in the industry invests more in developing products that constantly set new standards. Testament to this is our central design facility and research teams at our factories throughout the British Isles.

## A commitment to quality

Our investment in people, training and resources is reflected in the quality of our products, and in the standard of our pre- and post-sales service. As part of our commitment to product quality, we also apply stringent controls to every part of our manufacturing process and are ISO 9002 approved.

## The highest safety standards

When it comes to quality levels and safety expertise, we are unparalleled. Reassuringly, we belong to key industry associations, including the Electrical Contractors' Association (ECA), the Electrical Distributors Association (EDA), the British Electrotechnical and Allied Manufacturers Association (BEAMA), and Heating, Ventilation and Air Conditioning (HEVAC). Plus, many of our products are BEAB approved.



The CE mark on a product denotes that the manufacturer declares that their product meets the minimum safety, health and environmental legislation required of it by European law.



The BEAB Approved Mark from Intertek is a European Safety Mark used by leading electrical manufacturers to support CE marking and to demonstrate conformity with the Low Voltage Directive (LVD). The highest safety standard achievable in the UK market, a BEAB Approved Mark on a product demonstrates that Intertek (an independent third party) has verified its safety. The Mark indicates that the product has been manufactured in an inspected factory, using accepted methods and that the product has been tested and assessed by Intertek. Products bearing the BEAB Approved Mark are also randomly checked by Intertek on an annual basis. It shows our commitment to best practice, to producing quality goods and, most importantly, our commitment to our customers' safety.

## How can we help you?



Our dedicated Heating Design Service team provides an invaluable support to specifiers, architects, housebuilders, contractors and a wide range of other construction professionals.

Taking into account room dimensions, glazed area and heat levels in adjacent areas, the Heating Design Service team carries out heat loss calculations to assess a property's heat load and ensure each project achieves the required performance levels. The team then prepares a detailed, bespoke design outlining which heaters are needed and all designs include a handy summary list to help with budgeting.

We offer three levels of Heating Design Service according to the deadline and project complexity:

- **Single room/quick reference guide**  
Tables available on pages 100/101 and a simple calculator can be found at [www.dimplex.co.uk/heatdesign](http://www.dimplex.co.uk/heatdesign)  
Please also see our domestic and commercial guides on pages 98/99 to determine which product is most suitable for each application.

- **Single property form**  
Available on page 102 and at [www.dimplex.co.uk/heatdesign](http://www.dimplex.co.uk/heatdesign)  
Complete a simple form, submit to us and we will supply a full design requirement within 7 working days.

- **Multiple properties**  
Due to project complexity, the following information is required:
  - Plan and elevation drawings (scale 1:50 or 1:100).
  - Construction U values.
  - Details of the type of scheme (i.e. domestic, commercial or industrial).
  - Internal and external design temperatures required.
  - Details of any special requirements or unusual aspects to the building(s).

Designs are supplied free of charge within 14 working days. We reserve the right to charge for the scheme if Dimplex products are not subsequently installed.

The **Dimplex website** gives you all the latest product details, plus a host of tools to help you find the right solution. Key features include:

- **Help me choose:** Answer a few simple questions and we'll provide a list of our most suitable products for you.
- **Heating calculator:** Need to know how much heat you need for a room or property? This one's for you.
- **How-to videos and operating instructions:** Get the best from your Dimplex heaters with our useful guides.
- **Stockist information:** Enter your postcode to find your nearest contractors, retailers or distributors.
- **Download instructions:** For current and old models.
- **Request a repair:** Who to contact if your product is in or out of warranty.

Visit [www.dimplex.co.uk](http://www.dimplex.co.uk) for more details.



# Heat explained

Before we explore our world of heating solutions, let's look at heat itself.

The human body is a walking heat machine. But while it's very good at losing heat, it's not quite so efficient at retaining it.

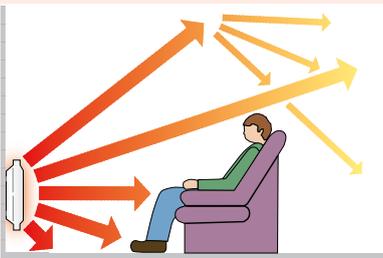
We all react differently to weather and temperature variations; very young, fragile or older people are more susceptible than most. Cold weather affects the death rate: during the winter, there are typically

25,000 more deaths in the UK than at other times in the year, directly attributed to low temperatures. The most serious risk, particularly for older people and vulnerable groups, is hypothermia. Even mildly cool indoor temperatures of 15.5°C can trigger hypothermia in older people, manifesting itself as confusion, slurred speech and loss of complex motor skills. If the body core temperature drops below 34°C, the effects may be life threatening.

Of course, many older people and/or those in fuel poverty may be anxious about using heating to keep warm during the winter. For this reason, it's important to ensure entitlements such as winter fuel payments are claimed, insulation measures have been adopted, and that the heating system is as controllable and energy efficient as possible.

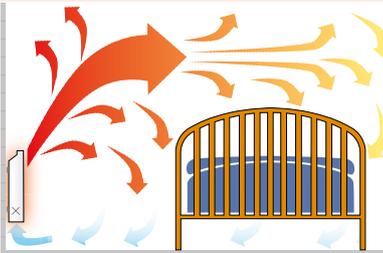
## Different types of heat and how they affect us

Heat is transmitted in three ways: radiation, convection and conduction. The optimum mix for human comfort is a blend of 80% convected and 20% radiant from a heating appliance.



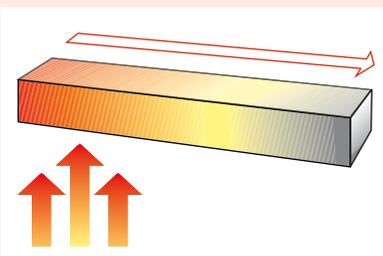
### Radiant heat

Gives a feeling of comfort. It's like the warmth from the sun or the warmth when you hold your hands in front of a fire or radiator in the winter. The air itself is not heated directly and the rays of energy travel in straight lines, only converting to heat when the rays strike and are absorbed by the body.



### Convected heat

Is carried around the room in the form of heated air. When air is heated, it expands, becoming dense. The heavier, cooler air around the heater – under the force of gravity – displaces the warmer, lighter air upwards. As the heated air rises, it diffuses some of its heat, warming up air which is at some distance from the heat source. The hotter the initial heat source, the further the convection current will flow before diffusing into the air.



### Conducted heat

Travels through solid objects. Heat a bar of iron at one end and the other end will become hot gradually. Even using the best materials for conduction, this is a relatively slow method of transmitting heat.

### Different types of electric heating

There are two types of electric heater:

#### Direct-acting heaters

Designed to use standard rate electricity, these provide fairly instant heat when they are switched on. Panel heaters, convector heaters, fan heaters, electric radiators and radiant heaters fall into this category, providing heat only for the time they are energised.

Direct-acting heaters are 100% efficient at point of use and are used mostly for rooms which only require heating for short periods, like bedrooms – although in compact, well insulated modern properties, they can be used as a complete heating system.

On a given tariff, 1kWh of energy used will cost the same, whether it's a fan heater, panel heater, oil-filled radiator or even a hairdryer using it.\* The key to improving efficiency is to use products that have thermostatic control to ensure that the room is not overheated, thereby saving energy.

#### Off-peak Quantum heaters and storage heaters

These absorb energy in the form of heat from electricity when it is supplied at a lower price (usually at night) and store this for slow release over an extended period.

If the Quantum or storage heater takes a full charge and has a rating of 18kWh, and is charged for seven hours, then it will cost 18 x 7 x cost of a unit of off-peak electricity, per day.\*

Since Quantum and storage heaters use energy supplied by low-cost, off-peak electricity for a given property, they will always be cheaper to run over a 16-hour day than direct-acting heaters, such as electric radiators or convectors, which use standard rate electricity.

We take a closer look at each type of heater in our '[Introduction to direct-acting heaters](#)' and '[Introduction to off-peak heaters](#)' overleaf.

*\*The actual annual running costs for an individual room/property will vary according to many factors such as lifestyle, insulation levels, weather conditions, correct sizing of heater, appliance selected and room temperature required. The information given here should be taken as a rough guide only. 1kWh = a 1kW appliance running for one hour, so the input of the appliance x length of running time (e.g. 1 hour) x kWh cost = hourly running cost.*

### Which heater is best for me?

If you are looking to heat a room on a permanent basis, it would be best to use an installed heater such as a Quantum (if you have access to an off-peak circuit), or an electric radiator or panel heater.

Portable electric heaters are especially useful for when you wish to heat a single room when you're involved in a sedentary activity, such as working from home, or you need additional spot heating.

- **Oil-filled radiators:** Providing a mix of radiant and convected heat – and virtually silent in operation – these are ideal for older people, keeping baby rooms warm and for people working in a small home office.
- **Oil-free radiators:** These are similar to oil-filled products, but have faster warm-up times, a lighter weight design and they are easier to recycle.
- **Convectors:** These are slimline, lightweight, easy to move from room to room and just as easy to store away when they are not in use.
- **Fan heaters:** Great for an instant warm up, fan heaters make a room feel warm very quickly, and are easy to move and store.



# Introduction to direct-acting heating

One type of direct-acting heating is the panel convector heater or electric radiator. Slimline and wall mounted, these heaters provide rapid heat whenever the user needs it. To maximise their operational ability, these heaters have:

- Low thermal inertia, meaning they heat up rapidly in response to immediate heating needs.
- An electronic or gas-filled thermostat, so they avoid room temperature 'drift'.
- A range of controls, allowing the user to match their heating requirements with their occupancy patterns.



Our range of heaters achieves this by using convection heat, or a combination of radiation and convection, to heat up a space quickly. (See 'Heat explained' on page 6 for an explanation of the different types of heat.) This means that the room is warm for the period of time selected and can be held accurately at the temperature required for the duration of occupancy, creating a comfortable environment. And, when the heater is switched off, it reacts just as quickly.

**Is one type of direct-acting heater more efficient than another?**

There have been many spurious claims of 'higher efficiency' in the electric heating market.

The fact is all direct-acting heaters are 100% efficient at point of use. If your heater uses 1kWh of electricity, 1kW of heat will be transferred into the room for one hour. As The Law of Conservation of Energy dictates:

*'Energy cannot be created or destroyed, but can only change from one form to another'.*

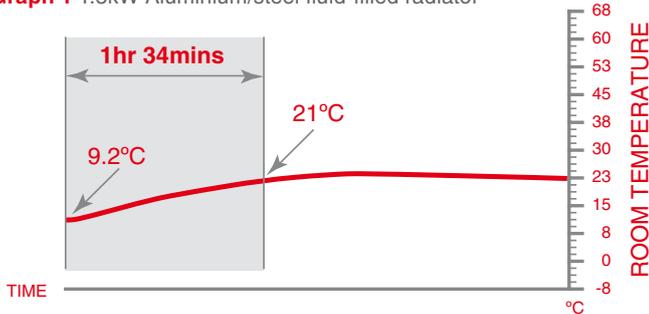
With that said, all direct-acting heaters do not operate in the same way. Take a fluid (oil or thermodynamic) filled radiator, for example: the fluid in the radiator will transfer the heat uniformly around the radiator, giving a higher proportion of radiant – as opposed to convected heat – compared to a convector heater. This is useful for certain applications

(see our oil-filled range on page 62). However, the very small thermal storage capacity of a fluid-filled radiator also results in slow release heat to the room during start-up (Graph 1) and a slightly prolonged release of heat to the room after switching off.

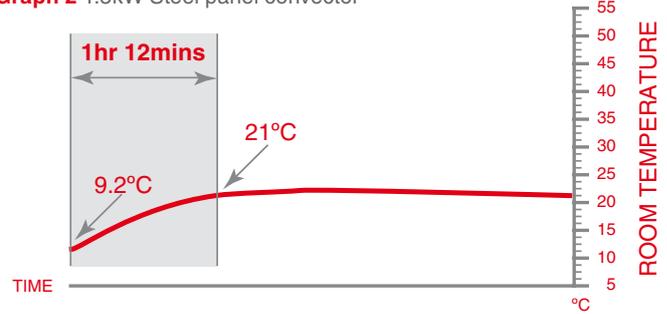
By comparison, a radiator panel convector or Q-Rad electric radiator heater (see page 16) with no fluid would release heat to the room more quickly during start-up (Graph 2) and stop releasing heat more quickly at 'switch off'.

**Time taken to raise room temperature from 9.2°C to 21°C**

**Graph 1** 1.5kW Aluminium/steel fluid-filled radiator



**Graph 2** 1.5kW Steel panel convector



\*Tested in a climatic chamber with a cooling load of 518W.

The European Commission Study of Local Room Heating products (DG Ener Lot 20) states:

*“Since the ‘heat generation efficiency’ is always 100%. It does not allow comparing the energy performance of electric room heaters.”*

The UK government’s standard assessment procedure (SAP) for energy rating of dwellings (SAP 2012) also draws no distinction between panel, convector or radiant heaters, water or oil-filled radiators, fan heaters or portable electric heaters – each has an efficiency of 100% and a responsiveness of 1. This is demonstrated in the table below, taken from SAP 2012.

Electric (direct acting) room heaters	Efficiency %	Heating type	Responsiveness (R)	Code	Rd SAP
Panel, convector or radiant heaters	100	1	1.0	691	rd
Water or oil-filled radiators	100	1	1.0	694	rd
Fan heaters	100	1	1.0	692	
Portable electric heaters	100	1	1.0	693	rd

# Introduction to off-peak heaters

Off-peak heaters, such as Quantum and storage heaters, are electric heaters designed specifically to operate using cheaper, off-peak electricity and, as the name implies, to store heat. There are four types of heater, each offering different levels of comfort control:

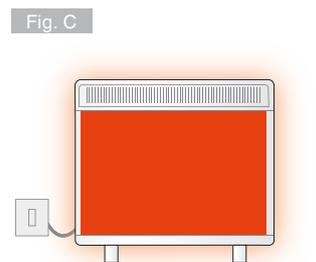
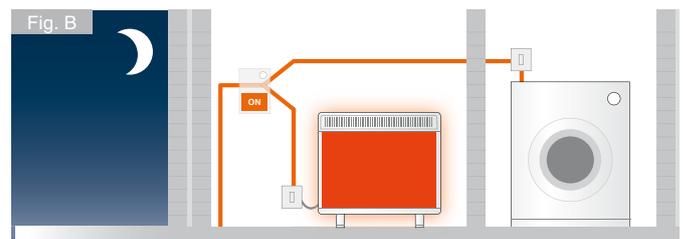
- 1) Smart fan-assisted models (Quantum)
- 2) Combination models
- 3) Automatic models
- 4) Manual control models

To see a video explaining how off-peak heating works, please visit: [www.dimplex.co.uk/how](http://www.dimplex.co.uk/how)

## How does an off-peak heater work?

Off-peak electricity is supplied from the national grid to your house, usually overnight when demand for electricity nationally is low. This is called the 'off-peak' period (Fig. A).

Because it's off peak, it's supplied at a cheaper price than standard rate electricity, so it needs a separate off-peak electrical circuit and meter. This circuit is dedicated to operating the off-peak heaters and is only switched on during the off-peak time period (Fig. B). This will take place at certain times of the day or night, and will be dictated by your electricity supplier.



In the same way that your kettle uses an element to heat water, electricity is used to heat elements in your heater. Over a number of hours, the elements gradually transfer the heat to a very high-density material that absorbs and stores the heat for use the next day. The off-peak heaters use state-of-the-art insulation material to retain as much of this heat for as long as possible (Fig. C).

When the off-peak period finishes, for the majority of off-peak heaters, the heat is gradually released into the room in a controlled way over the course of the day. In the case of smart fan-assisted models (Quantum) almost all of the heat is retained until it is required.

## What are the benefits of off-peak heating?

All storage heater models:

- Allow for quick and easy installation (no pipes, boiler or flue).
- Offer 24 hours of warmth for the cost of 7-10 hours of cheap-rate electricity.
- Are 100% efficient.
- Require no annual maintenance.
- Are clean.
- Are safe.
- Are easily upgradable on a heater-by-heater basis.
- Have a very long life.

Additionally, smart fan-assisted models (Quantum):

- Offer unsurpassed insulation levels, ensuring heat is retained for significantly longer than conventional static storage heaters.
- Have an ultra-quiet soft-start fan to unobtrusively and efficiently heat the room.
- Are fitted with the revolutionary iQ Controller which enables heating requirements to be preset.
- Have an easy-to-use electronic user interface.
- Feature a 'Boost' element, ensuring that heat is always available, even with unexpected demand.
- Offer highly accurate room temperature control.

Please view the products individually for their specific features and benefits. Further information can be found on our website, along with full product specifications, operating guides, video guides, questions and answers, local installers and service information.

To see how each model operates, view the individual product videos on the website at: [www.dimplex.co.uk/support](http://www.dimplex.co.uk/support)



The Quantum heating system provides low-cost, low-carbon, electric heating on demand. In fact, the system offers unrivalled running costs, will actually use decreasing amounts of carbon over its lifetime, and has a 10 year warranty!†

**Cost savings**

With Quantum, up to 90% of your heating is provided using low-cost, off-peak energy. Quantum also uses insulation material with almost the lowest theoretically possible thermal conductivity – even lower than that of still air. This means heat barely passes through the material, minimising heat loss.

Quantum is recognised using SAP 2012 (the government-recommended system for measuring a home’s energy performance) as being up to 27% cheaper to run and using up to 22% less energy than a standard storage heater system.\* This means that if a Quantum system replaces a manual static storage system, certain properties could expect annual running cost savings of up to £418 every year.\* With these savings, the extra upfront cost could be repaid in just over two years.†

Quantum is also up to 47% cheaper to run than an electric convector or radiator system.\* Depending on the property type, annual running cost savings could be up to £975 when replacing an electric convector or radiator system on standard tariff with a Quantum system on Economy 7.\* See page 14 for a closer look at running costs figures.

What’s more, Quantum is the only product available in the UK† which meets the SAP 2012’s specification criteria for classification as a ‘high heat retention storage heater’. As a result, Quantum has been accepted as a ‘Green Deal Measure’ by the Department of Energy & Climate Change. The ‘golden rule’ of the Green Deal states that the expected energy savings must be greater than the costs of the improvements.

For more information on the Green Deal, visit [www.gov.uk/greendeal](http://www.gov.uk/greendeal)

\*Calculated using SAP 2012 – the only Government approved energy performance assessment method. †As at time of printing. ‡Based on a one bedroom flat.

**Heat on demand**

Its exceptional levels of insulation mean Quantum can store energy during periods of low demand, turning it into efficient heat only when needed. The Quantum iQ controller‡ uses a sophisticated self-learning algorithm to take just the right amount of heat to match your lifestyle and climate conditions, intuitively and precisely. So you can relax knowing there is sufficient heat available.

A soft-start fan ensures the heat is released into the room unobtrusively, quickly and efficiently. In fact, Quantum can heat a room faster than just about any other central heating system. Furthermore, because the heat outlet is positioned at the base of the heater, the room is heated from floor level, ensuring maximum comfort and efficiency.

**10 YEAR Peace of mind**

Quantum delivers high reliability, plus it’s virtually maintenance free. And for added confidence, every Quantum comes with our 10-year warranty†.

Furthermore, Quantum is BEAB Approved. Recognised across the UK and Europe, the BEAB Approved Mark from Intertek demonstrates the safety pedigree of a product: our commitment to best practice, to producing quality goods and to customer safety. It’s the highest safety standard achievable in the UK.



†10-year warranty is a standard 2 years, plus additional eight years on registration. ‡Patent applied for.



*I think the Dimplex Quantum is marvellous, you can alter them really easily. My sitting room gets lots of sun in the day so it gets really warm and I don't need any heating. As a result I just put the heater on its 'out all day' setting and then when I need heat in the evening, it's there and that's lovely. You just press a button and the job is done, very simple to use.*

**Resident, Kent.**



# A unique concept in electric heating

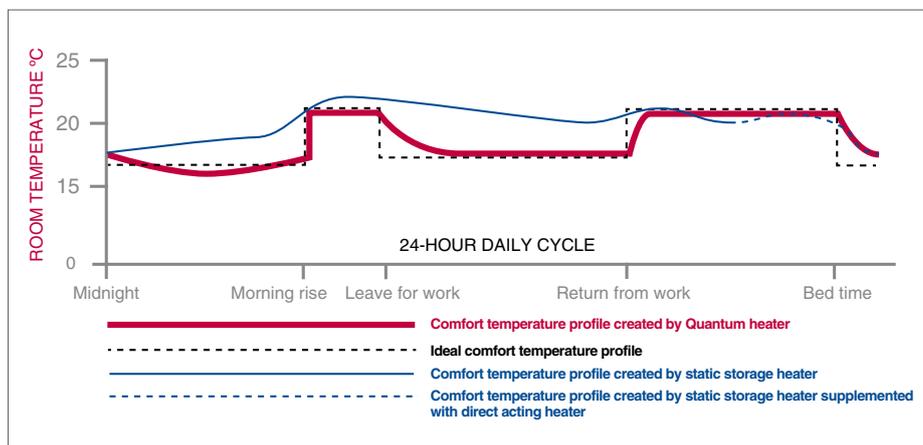
## iQ Highly controllable

The Quantum iQ controller<sup>†</sup> monitors the weather and responds to changing climate conditions automatically. It follows target room temperature closely, adjusting settings to maintain the required temperature to within  $\pm 0.3^{\circ}\text{C}$ .

The iQ controller<sup>†</sup> is always monitoring and learning your heating habits. It anticipates your needs, adapting and delivering just the right amount of heat for complete comfort. Whether you are at home all day, or only morning and evening, Quantum matches the heating requirements of your lifestyle (see graph below).

Of course, if you want to adjust the heat levels manually, you can. The easy-to-use electronic interface with clear LCD display puts you in control. There's a seven-day programmer with three adjustable pre-set timer profiles, a 'Holiday' mode, landlord setting, child lock and more. So sit back and let Quantum take control. We take a closer look at 'Using Quantum' overleaf.

## Quantum matches the heating requirements of your lifestyle



See page 15 for test details of this comparative test.

<sup>†</sup>Patent applied for.

## Quantum at a glance

- Uses off-peak tariffs for low running costs – on a room-by-room basis, it's expected that 90% of the heating requirement will be met by off-peak energy.
- Automatically adjusts to the user's needs through its dynamic storage capacity.
- Comes fitted with our revolutionary iQ controller<sup>†</sup> which enables heating requirements to be preset.
- Matches the user's chosen heating profile precisely.
- Has an easy-to-use, electronic user interface with LCD display, complete with:
  - Room temperature setting.
  - Seven-day programmer.
  - Installer settings.
- Is designed to operate on any off-peak tariff.
- Has a fan-assisted output for extremely rapid heat-up time.
- Has a soft-start, ultra-quiet fan to heat the room unobtrusively and efficiently.
- Features a 'Boost' element, ensuring heat is always available, even with unexpected demand.
- Boasts an attractive, state-of-the-art design.
- Has a compact design (no deeper than a double wet radiator) with flexible mounting options and adjustable feet positions.
- Covers previous 'fixing marks' of most comparably sized traditional storage heaters.



Model QM100

# Using Quantum

**Whilst it's technologically advanced, the Quantum Heating System is incredibly easy to use.**

We have seen how the system responds to user lifestyle and climate conditions intuitively and precisely, delivering just the right amount of heat. Here's a reminder of what it can do for you.

**The Quantum heating system will:**

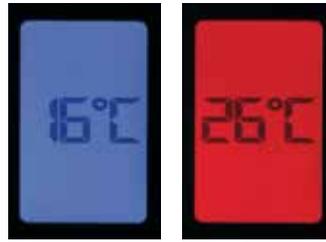
- Monitor weather and usage patterns intelligently, learning from and adapting to them, delivering heat accordingly.
- Work seamlessly with the grid, using off-peak tariffs to minimise user costs and maximise efficiency.
- Follow target room temperature closely, adjusting settings intuitively using a thermostat that is accurate to within a fraction of a degree (°C).
- Respond quickly to changing climate and room temperature conditions, and alter configurations automatically.

For those times when users want to adjust heat levels manually, the built-in, state-of-the-art controls let them do just that.

**End-users can:**

- Adjust heat levels manually via the easy-to-use, electronic interface with LCD display.
- Choose and adjust preset programmes, such as 'Home all day', then sit back and relax as the Quantum Heating System takes control.

**A closer look at the control panel**



For the visually impaired, Quantum's target temperature display is colour coded.

The low torque rotary control – specifically designed for arthritic users – adjusts target temperature, and allows for easy menu scrolling and selection.



The seven-day programmer has three adjustable pre-set timer profiles, a 'Holiday' mode with frost protection, landlord setting, child lock setting and many more features.

Whether you're specifying, installing, living or working with Quantum, you'll quickly realise the benefits that this dynamic heating system has to offer.

## For the specifier, Quantum:

- Uses low-cost, low-carbon, future-proofed technology.
- Is easy to specify within SAP 2012.
- Is available in a range of heater sizes for greater flexibility in project specification.
- Is virtually maintenance free.
- Is compact with adjustable feet positions.
- Covers previous 'fixing marks' of most comparably sized traditional storage heaters.
- Has easy-to-use controls to avoid user confusion.
- Features a low torque rotary knob designed for arthritic users and the visually impaired.

## For the end user, Quantum:

- Is completely automatic once set up.
- Is economical to run, helping to alleviate the increasing problem of fuel poverty.
- Offers improved comfort levels, heating only when required.
- Is virtually maintenance free.
- Provides accurate room temperature control using a thermostat accurate to  $\pm 0.3^{\circ}\text{C}$ .
- Is responsive to changes in external temperature.
- Features a low torque rotary control designed for arthritic users and the visually impaired.
- Delivers high reliability and very low maintenance.
- Is accepted as a Green Deal 'measure' – see page 10 for more details.

## For the installer, Quantum:

- Is simple to install – with separate instructions for both installer and user.
- Includes an electronic controller preloaded with time/date and commissioning programme.
- Features reversible cable entry points and adjustable feet to ensure the chassis covers previous 'fixing marks' of most comparably sized storage heaters.
- Has easy-to-use controls to avoid user confusion.

“

*Our residents are very pleased and are getting used to the controls quite easily as the thermostat is easy to see on top of the heater and it can be turned up or down, giving virtually instantaneous results.*

**Specifier**

”

“

*"I've been renovating the house and definitely didn't want the hassle of running gas in, not to mention the cost. When my friend who is an installer said always go for Dimplex, they are the best, the whole process was easy from there on.*

**Homeowner**

”

“

*I find the Quantum heater brilliant to install; very straightforward and easy. We're installing them all the time now.*

**Installer**

”

# A closer look at running costs

The running costs of electric heating systems in this case study are calculated using energy consumptions derived from SAP2012 energy use estimation methods. This energy use is combined with a standard electric heating tariff for electric radiators and an Economy 7 tariff for storage heaters and Quantum. The kWh unit rates are as stated in SAP2012 Table 12 (BRE – published on behalf of DECC) ‘SAP2012 – the Government’s Standard Assessment Procedure for Energy Rating of Dwellings’, 2012 edition, February 2014.

With these assumptions SAP2012 has been used to calculate the space heating running costs for 3 property types with two different levels of insulation. The first level of insulation is based on 1960s building regulations and air tightness, whilst the second level of insulation is based on 1990s standards. The annual space heating energy requirements are based on average regional weather conditions for Northern Ireland.

**The results show that certain properties with a Quantum heating system using an E7 tariff can reduce, on average, running costs by between 44-47% when compared with direct acting systems such as electric radiators using a standard tariff. Quantum can also achieve savings of up to 27% if used in a property to displace conventional manual storage heaters on an E7 tariff.**

## Quantum offers significant running cost savings compared to other electric heating systems.

### 40m<sup>2</sup> 1-Bed Flat

	Built with typical 1960s Building Regulations. Annual space heating energy requirement – <b>6,840kWh</b>	Refurbished with typical 1990s Building Regulations.
Heating System	Running Cost	Running Cost
Direct acting electric radiators	£902 (Standard Tariff)	£523 (Standard Tariff)
Manual charge storage heating and panel convector heaters	£664 (E7 Tariff)	£371 (E7 Tariff)
Quantum and panel convector heaters	£494 (E7 Tariff)	£291 (E7 Tariff)

### 65m<sup>2</sup> 2-Bed Flat

	Built with typical 1960s Building Regulations. Annual space heating energy requirement – <b>10,610kWh</b>	Refurbished with typical 1990s Building Regulations.
Heating System	Running Cost	Running Cost
Direct acting electric radiators	£1,399 (Standard Tariff)	£849 (Standard Tariff)
Manual charge storage heating and panel convector heaters	£985 (E7 Tariff)	£575 (E7 Tariff)
Quantum and panel convector heaters	£745 (E7 Tariff)	£455 (E7 Tariff)

### 90m<sup>2</sup> 3-Bed Flat

	Built with typical 1960s Building Regulations. Annual space heating energy requirement – <b>15,910kWh</b>	Refurbished with typical 1990s Building Regulations.
Heating System	Running Cost	Running Cost
Direct acting electric radiators	£2,099 (Standard Tariff)	£1,248 (Standard Tariff)
Manual charge storage heating and panel convector heaters	£1,542 (E7 Tariff)	£857 (E7 Tariff)
Quantum and panel convector heaters	£1,124 (E7 Tariff)	£663 (E7 Tariff)

Model No.	Height	Depth	Width	Installed Weight	Energy Cell Packs Req (packaged separately)
QM050*	730mm (28.75")	185mm (7.3")	580mm (22.8")	66kg	4
QM070	730mm (28.75")	185mm (7.3")	703mm (27.7")	83kg	6
QM100	730mm (28.75")	185mm (7.3")	865mm (34.1")	107kg	8
QM125	730mm (28.75")	185mm (7.3")	1069mm (42.1")	135kg	10
QM150	730mm (28.75")	185mm (7.3")	1069mm (42.1")	155kg	12

Model No.	Output Rating	Input Rating	Max. Storage Capacity	Boost Element Rating
QM050*	0.5kW	1.1kW	7.7kWh	0.40kW
QM070	0.7kW	1.56kW	10.9kWh	0.63kW
QM100	1.0kW	2.2kW	15.4kWh	0.88kW
QM125	1.25kW	2.76kW	19.3kWh	1.13kW
QM150	1.5kW	3.3kW	23.1kWh	1.3kW

For fixing dimensions and minimum clearances please refer to instructions – available at [www.dimplex.co.uk/quantum](http://www.dimplex.co.uk/quantum)  
 \*QM050 available Autumn 2015

<b>Controls</b>	Electronic user interface with LCD display offering room temperature setting, seven-day programmer, installer settings, three pre-set timer profiles, holiday setting and more.
<b>Charge controller</b>	Fully automatic charge controller incorporates self-learning algorithms to optimise daily energy storage, using multiple sensors to automatically adjust the charge taken based on recent energy use patterns and future programmed requirements.
<b>Thermostat</b>	Electronic – accurate to +/-0.3°C.
<b>Safety devices</b>	Electromechanical – limit thermostat (self resetting); cut-out (manual reset); over temperature thermostat for fan; over temperature limit thermostat for fan.
<b>Fan</b>	Low rev/low noise heat circulation fan with variable speed and soft start.
<b>Storage core</b>	High density bonded magnetite energy cells.
<b>Thermal insulation</b>	Front, rear top and ends – microporous silica. Base – calcium silicate slab.
<b>Colour/finish</b>	White.
<b>Battery backup</b>	3.3V coin cell battery to backup real time clock. Battery life > 5 years.
<b>Supply</b>	230-240V/50Hz. Off-peak + 24-hour supply required.
<b>Approvals</b>	BEAB/EN60335/EMC/CE.
<b>Warranty</b>	Two years standard, plus additional eight years on registration. Terms and conditions apply. See <a href="http://www.dimplex.co.uk/quantumregistration">www.dimplex.co.uk/quantumregistration</a> for full details.

## Comparative test details (relates to graph on page 11)

### Climate room test chamber

A climate room was built to accurately replicate a room from typical UK housing stock. It has two external walls and two internal walls, and the temperatures outside all walls, ceiling and floor are accurately controlled. Room dimensions – **4m x 3m x 2.4m**.  
 U values:

- Double layer solid brick outer walls **2.0**
- Insulated internal walls and ceiling **0.34**
- Insulated floor **0.25**
- UPVC double glazed window **3.3**
- UPVC double glazed door **3.0**
- Air change rate **1 A/C per hour**

### The test

A daily temperature profile was set up outside the two external walls to simulate an average heating day in a property based in Sheffield, England.

Minimum outside temperature – **+4°C** Maximum outside temperature – **+11°C**

The heating periods were set at 07:00 to 09:00 and 16:00 to 23:00. The target room thermal comfort temperature was 21°C. The following heater was tested under these conditions:

- 3.4kW (input) static storage heater with manual charge control – supplemented with a direct acting heater.
- 2.8kW (input) Quantum heater (QM125).



Model QRAD150

Dubbed 'the electric radiator with a brain', Q-Rad monitors the effect of its actions on a room's temperature. It knows precisely how long it takes to reach the desired temperature and when to turn off as it approaches that target. This minimises the energy that it uses, while maximising comfort – so you stay warm for the lowest possible cost.

Thanks to its low thermal mass, Q-Rad is able to heat up more quickly and react more responsively to changes in room temperature than a fluid-filled electric radiator. This means improved control, comfort and energy saving.

Taking design cues from our category-leading Quantum heater, Q-Rad is sleek, slim and stylish. Combining good looks with flexible installation options, Q-Rad is ideal for use in many applications, including in place of conventional convector heaters or electric radiators.

- Is our most intelligent electric radiator.
- Has a highly accurate electronic thermostat (to  $\pm 0.2^{\circ}\text{C}$ ).
- Features an advanced touch control system, offering temperature selection and preset programmes for maximum control with complete flexibility.
- Has a 24-hour and seven-day timer control, making it suitable for domestic and commercial applications.
- Provides instant warmth using dual-element technology for the perfect balance of convection and radiant heat.
- Boasts a stylish design to complement the Quantum Heating System.
- Reduces output automatically if a window is left open to prevent heat loss, thereby saving money.
- Has a low thermal heat mass, providing:
  - Faster room heat up time and lower energy consumption than a fluid-filled electric radiator with comparable output.
  - Responsive reaction to changes in temperature to prevent overheating and energy wastage.
- Is suitable for use as a stand-alone electric radiator or as part of a Quantum Heating System.
- BEAB approved.

# The electric radiator with a brain



## 'Eco Start' delayed start anticipatory control

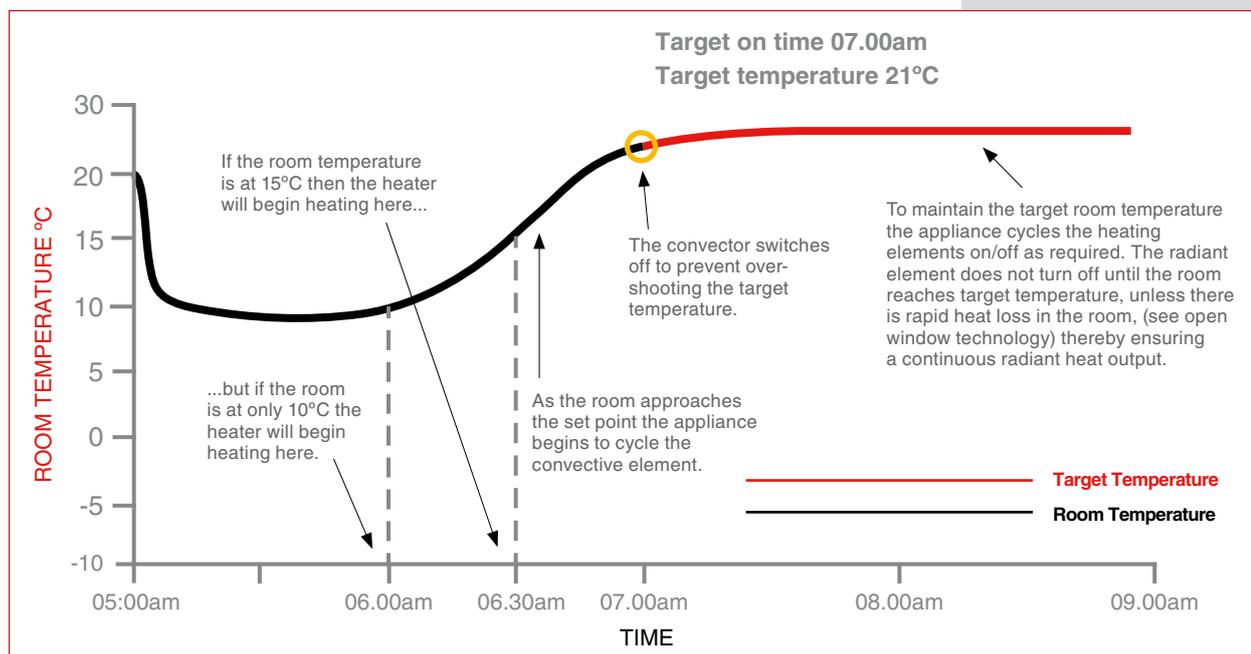
Eco Start is Q-Rad's unique, self-learning delayed start function. This learns the thermal characteristics of a room then determines how long the appliance needs to operate to reach target temperature according to room size, heat losses, prevailing weather conditions and so on.

By measuring the heat-up and cool-down times of the room, and how they vary with external temperature, **the heater works out what time it needs to start heating** to reach the user-defined target temperature at a specified time. This **minimises wasted energy and can deliver cost savings** for users.

For example, say you plan to get up at 7am and your desired temperature is 21°C: with a traditional system, you would need to estimate when to set the heating to come on to ensure it preheats the room in time. Depending on your settings and the prevailing temperature, this could mean that the room is still cold when you get out of bed or that it has been warm for some time before it needed to be. However, as **the graph below** illustrates, this clever feature means that **Q-Rad anticipates when it needs to start heating** to reach 21°C by 7am, preheating for shorter periods when the weather is mild and longer periods when the weather is cooler.

Q-Rad boasts a range of unique, intelligent features which work automatically and help to keep you warm for less.

## 'Eco Start' in operation



## Energy-saving features



### Dual-element technology

Q-Rad has a convective element with a variable power output, as well as a radiant element. It uses one or both of these heat sources automatically to **maintain an accurate target room temperature**.

Q-Rad calculates the time needed to heat a room and the convective element begins by operating at full power. As the room approaches the target temperature, Q-Rad begins to cycle the convective element between full and reduced power output until the target temperature is reached.

At this point, Q-Rad switches off the convector, thereby avoiding overshooting and **saving you energy**. To maintain the target temperature, Q-Rad then cycles the convective and radiant elements on and off, as required.



### Open window detection

Should a window or door be left open accidentally, Q-Rad will detect a sudden change in temperature and scale back its output to 50%. Once the window or door has been closed, Q-Rad will resume normal operation. This technology ensures that the output from the heater is reduced when heat is escaping from a room, **avoiding wastage and saving you money**.



**Q-Rad combines state-of-the-art technology with intuitive operation.**

## Visual and audible feedback

The Heater Control is the electronic interface that lets you **choose when you want to heat the room and to what temperature**. It comprises an LCD display screen and six touch-sensitive buttons: **Menu**, **Back**, **Advance**, **Up** (arrow), **Down** (arrow) and **Enter**. The buttons make an audible 'beep' when touched; the pitch of the sound rises and falls in line with the temperature selected. The temperature display is also colour-coded to assist the visually impaired. (Note: audio feedback may be disabled where not required.)

## Child lock

Q-Rad comes with a child lock **to prevent little hands from tinkering with your settings**. To activate the lock, simply press and hold the **Back** and **Enter** buttons on the Heater Control for three seconds. The words 'Child Lock' at the bottom of the screen tell you that this function is active.

## Timer modes

Q-Rad comes with four pre-programmed timer modes: **Out All Day**, **Home All Day**, **Holiday** and **Use Timer**. All **timer modes may be adjusted to suit your lifestyle**, plus the handy Advance function lets you **change your settings temporarily** for a boost of short-term heating (between one and four hours).



# Using Q-Rad

## Heatstream

Q-Rad has been designed specifically to heat a room in the shortest amount of time possible.

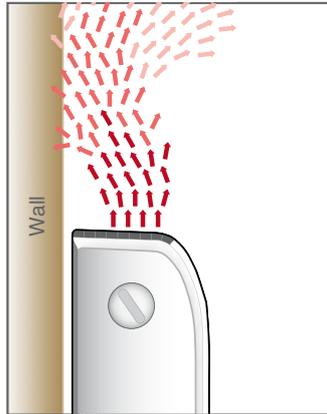


Image A – Typical convector

**Image A** shows the hot airflow (heatstream) from the top of a typical wall-mounted electric convector heater in profile view. The heatstream is slow moving, turbulent and being directed straight up. It creates a slight vacuum between the heater and the wall, pulling the hot air towards the wall. This increases the likelihood of heat transfer through the wall, reducing the potential benefit from that heat output – not to mention the risk of wall staining.

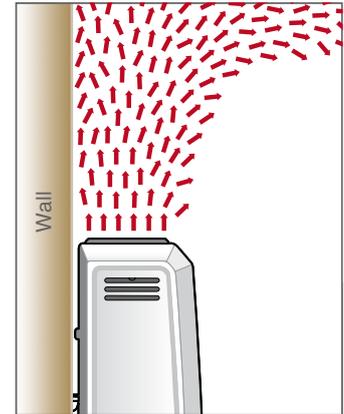


Image B – Q-Rad airflow

**Image B** shows the heatstream from the top of a wall-mounted Q-Rad electric heater. Here, the heatstream is faster moving, less turbulent and being directed away from the wall. The length and inclination of the louvres in the Q-Rad air outlet grille have been optimised to direct the heat into the room. This clever design feature minimises heat transfer and wall staining, and helps to heat the room in the shortest amount of time.

## Thermal imagery

Q-Rad delivers the optimum mix of radiant and convected heat for human comfort.

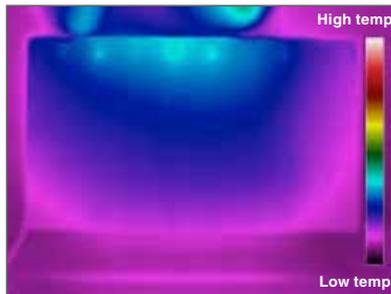


Image C – Thermal image of a typical convector

**Image C** shows limited radiant heat from the heater's front panel.

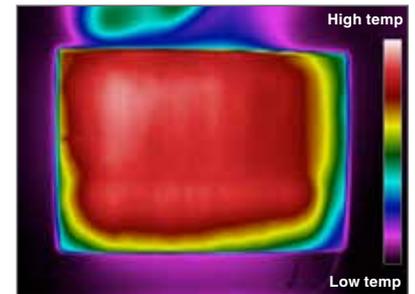


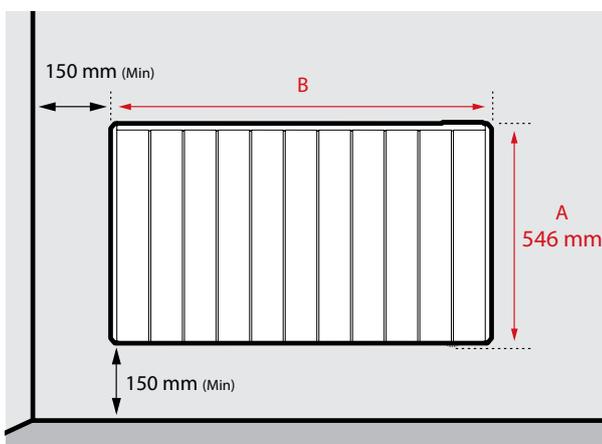
Image D – Thermal image of a Q-Rad

**Image D** shows a high level and uniform distribution of radiant heat coming from Q-Rad's front panel. As well as being optimal for human comfort, this means you can enjoy a lower room temperature while still remaining comfortably warm, thereby saving energy.

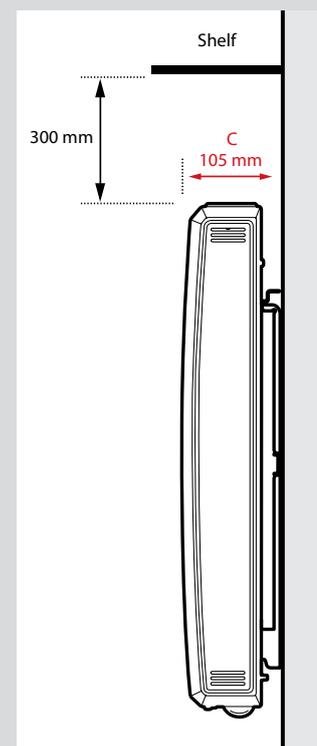
Model No.	Loading	Convective element	Radiant element	Height A	Width B	Depth C	Weight
QRAD050	0.5kW	301W	199W	546mm	513mm	105mm	7.1kg
QRAD075	0.75kW	551W	199W	546mm	513mm	105mm	7.1kg
QRAD100	1.0kW	714W	286W	546mm	675mm	105mm	8.7kg
QRAD150	1.5kW	1213W	287W	546mm	756mm	105mm	9.4kg
QRAD200	2.0kW	1660W	340W	546mm	918mm	105mm	11.0kg

<b>Thermostat</b>	Electronic type, accurate to $\pm 0.2^{\circ}\text{C}$ .
<b>Convective element</b>	Compact, finned, mineral-filled sheathed type, providing virtually silent operation.
<b>Radiant element</b>	Encapsulated microwave element fixed to the inside of the front panel, covering the whole fascia.
<b>Thermal cut-out</b>	Two auto reset cut-outs, one for each element. Thermal fuse protection on front element.
<b>Construction</b>	Durable epoxy-polyester powder coated steel casing, with upward facing grille. Temperature resistant nylon thermoplastic moulded parts.
<b>Colour/finish</b>	White.
<b>Installation</b>	Supplied with metal wall bracket.
<b>Electrical connections</b>	1.0m, 4 core cable (live, neutral, earth, pilot) supplied fitted to each heater.
<b>IP rating</b>	Splashproof IPX4.

## Dimensions and minimum clearances



Dimension C and minimum clearances



# The Monterey range

## Features

- High levels of control are built in with a sophisticated thermostat, accurate to an impressive  $\pm 0.3^{\circ}\text{C}$ .
- Range of optional plug-in electronic timer modules:
  - 24-hour digital timer.
  - Single-zone pilot wire programmer.
  - Runback timer.
- Compatible with Dimplex four-zone, wall-mounted pilot wire and mains borne signalling multi-heater programmers.
- Traditional design.
- Virtually noiseless operation.
- Frost protection setting.
- Preset background temperature at  $5^{\circ}\text{C}$  below thermostat setting.\*
- Splash-proof (IPX4) rated, for use in bathroom or wet areas.
- Detachable hinged wall-mounting frame, for fast installation and easy cleaning.
- Suitable for domestic and light commercial use.

\*When connected to a programming unit supporting setback feature.



Model MFP150W

With a stylish finned metal design, the Monterey combines practical good looks with a highly accurate energy management system for maximum efficiency and comfort.

Model MFP150W



## Controls



### 1 Thermostat control

Electronic type, accurate to  $\pm 0.3^{\circ}\text{C}$ . User selection of room temperature from  $5^{\circ}\text{C}$  (frost protection) to  $30^{\circ}\text{C}$  using slider control. Slider can be locked in position if required.

### 2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

### 3 Optional plug-in control modules

- 24-hour digital timer (RX24TI).
- Runback timer (RXRBTI).
- Single-zone, pilot wire programmer (RXPW1).

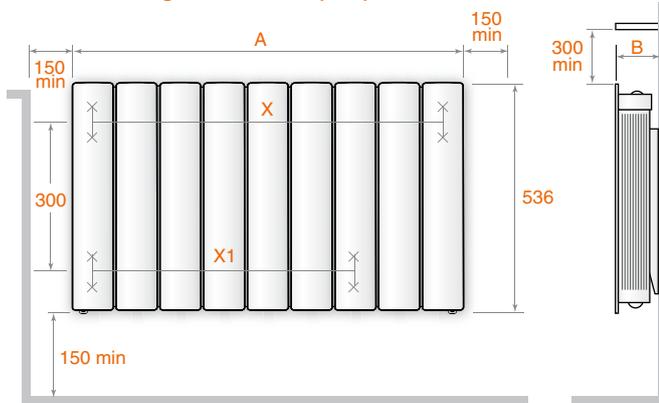
### Central control options†

- Four-zone pilot wire and mains borne signalling controllers (RXPW4N and RXMBS4).
- RX9913 receivers and RXMBSF filter required for mains borne control operation.

†See pages 34-35 for more information on the control options.

# Technical information

## Main and fixing dimensions (mm)



Model	Loading (kW)	Height (mm)	Width (A) (mm)	Depth (B) (mm)	X (mm)	X1 (mm)	Weight (kg)
MFP050W	0.5	536	503	104	390	168.5	12
MFP075W	0.75	536	503	104	390	168.5	12
MFP100W	1.0	536	671	104	560	338.5	15
MFP150W	1.5	536	741	104	630	408.5	17.5
MFP200W	2.0	536	911	104	800	578.5	22



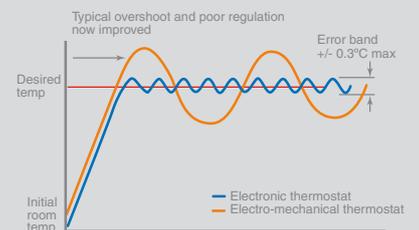
## Colour/finish

White.

## Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than  $\pm 0.3^{\circ}\text{C}$ , minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

## Installation

Supplied with metal wall bracket.

## IP rating

Splash-proof IPX4.

## Electrical connections

1.0m, four-core cable (live, neutral, earth, pilot) supplied fitted to each heater.

## Thermal cut-out

Auto-reset type.

## Element

Compact, finned, mineral filled sheathed type, providing virtually silent operation.

## Construction

Durable epoxy-polyester powder coated steel casing, with upward facing grille. Temperature resistant PBT thermoplastic moulded parts.

# The Girona range

## Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive  $\pm 0.3^{\circ}\text{C}$ .
- Range of optional plug-in electronic timer modules:
  - 24-hour digital timer.
  - Single-zone pilot wire programmer.
  - Runback timer.
- Compatible with Dimplex four-zone, wall-mounted pilot wire and mains borne signalling multi-heater programmers.
- Elegant glass front finish in black or white.
- Virtually noiseless operation.
- Frost protection setting.
- Preset background temperature at  $5^{\circ}\text{C}$  below thermostat setting.\*
- Splash-proof (IPX4) rated, for use in bathroom or wet areas.
- Detachable hinged wall-mounting frame for fast installation and easy cleaning.
- Suitable for domestic and light commercial use.

\*When connected to a programming unit supporting setback feature.



Model GFP150B

With an elegant black or white glass fronted façade, the Girona delivers rapid warm up with a highly accurate energy management system to maintain comfort levels to suit the user.



Model GFP150W

## Controls



### 1 Thermostat control

Electronic type, accurate to  $\pm 0.3^{\circ}\text{C}$ . User selection of room temperature from  $5^{\circ}\text{C}$  (frost protection) to  $30^{\circ}\text{C}$  using slider control. Slider can be locked in position if required.

### 2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

### 3 Optional plug-in control modules

- 24-hour digital timer (RX24TI).
- Runback timer (RXRBTI).
- Single-zone, pilot wire programmer (RXPW1).

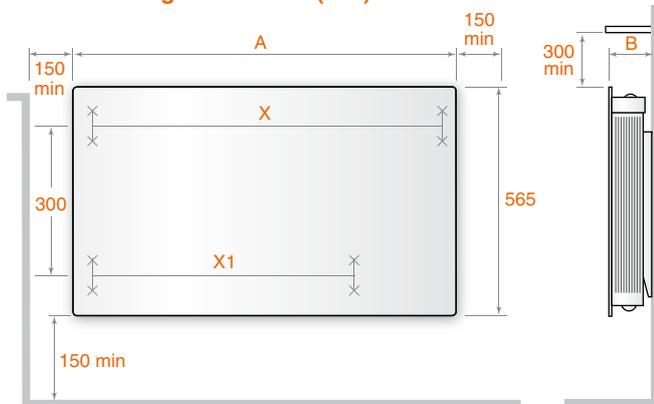
### Central control options†

- Four-zone pilot wire and mains borne signalling controllers (RXPW4N and RXMBS4).
- RX9913 receivers and RXMBSF filter required for mains borne control operation.

†See pages 34-35 for more information on the control options.

# Technical information

## Main and fixing dimensions (mm)



Model	Colour	Loading (kW)	Height (mm)	Width (A) (mm)	Depth (B) (mm)	X (mm)	X1 (mm)	Weight (kg)
GFP050W	White	0.5	565	530	107	390	168.5	13
GFP075W	White	0.75	565	530	107	390	168.5	13
GFP100W	White	1.0	565	700	107	560	338.5	16.5
GFP150W	White	1.5	565	770	107	630	408.5	20
GFP200W	White	2.0	565	940	107	800	578.5	26
GFP050B	Black	0.5	565	530	107	390	168.5	13
GFP075B	Black	0.75	565	530	107	390	168.5	13
GFP100B	Black	1.0	565	700	107	560	338.5	16.5
GFP150B	Black	1.5	565	770	107	630	408.5	20
GFP200B	Black	2.0	565	940	107	800	578.5	26



Model GFP150B

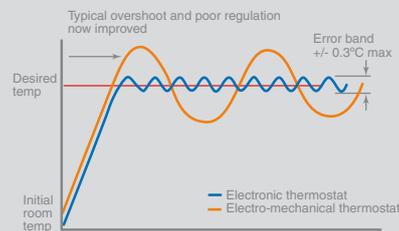
### Colour/finish

Black or white.

### Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than  $\pm 0.3^{\circ}\text{C}$ , minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

### Installation

Supplied with metal wall bracket.

### IP rating

Splash-proof IPX4.

### Electrical connections

1.0m, four-core cable (live, neutral, earth, pilot) supplied fitted to each heater.

### Thermal cut-out

Auto-reset type.

### Element

Compact, finned, mineral filled sheathed type, providing virtually silent operation.

### Construction

Durable epoxy-polyester powder coated steel casing, toughened safety glass with upward facing grille. Temperature resistant PBT thermoplastic moulded parts.

## The Saletto range

### Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive  $\pm 0.3^{\circ}\text{C}$ .
- Range of optional plug-in electronic timer modules:
  - 24-hour digital timer.
  - Single-zone pilot wire programmer.
  - Runback timer.
- Compatible with Dimplex four-zone, wall-mounted pilot wire and mains borne signalling multi-heater programmers.
- Stylish, simple front panel design.
- Virtually noiseless operation.
- Preset background temperature at  $5^{\circ}\text{C}$  below thermostat setting.\*
- Frost protection setting.
- Splash-proof (IPX4) rated, for use in bathroom or wet areas.
- Detachable wall-mounting frame for fast installation and easy cleaning.
- Suitable for domestic and light commercial use.

\*When connected to a programming unit supporting setback feature.



Model Saletto LPP100

Simple, clean looks and a sleek, low-profile design make the Saletto range of heaters perfect for a range of different applications. With the same incredible control and performance of the well-known Monterey and Girona, this range is ideal where wall space is at a premium, such as a conservatory or small bedroom.

### Controls



#### 1 Thermostat control

Electronic type, accurate to  $\pm 0.3^{\circ}\text{C}$ . User selection of room temperature from  $5^{\circ}\text{C}$  (frost protection) to  $30^{\circ}\text{C}$  using slider control. Slider can be locked in position if required.

#### 2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

#### 3 Optional plug-in control modules

- 24-hour digital timer (RX24TI).
- Runback timer (RXRBTI).
- Single-zone, pilot wire programmer (RXPW1).

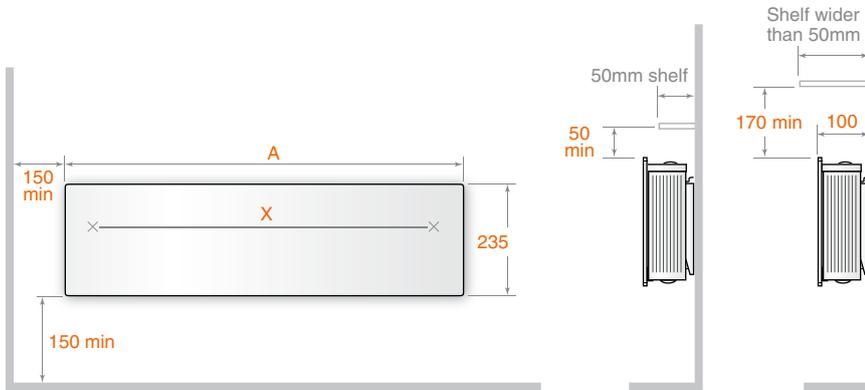
#### Central control options†

- Four-zone pilot wire and mains borne signalling controllers (RXPW4N and RXMBS4).
- RX9913 receivers and RXMBSF filter required for mains borne control operation.

†See pages 34-35 for more information on the control options.

# Technical information

## Dimensions and clearances (mm)



Model	Loading (kW)	Height (mm)	Width (A) (mm)	Depth (mm)	Wall mounting width (x) (mm)	Weight (kg)
LPP050	0.5	235	746	100	671	6.7
LPP075	0.75	235	746	100	671	6.7
LPP100	1	235	877	100	802	7.6
LPP150	1.5	235	1142	100	1067	9.9



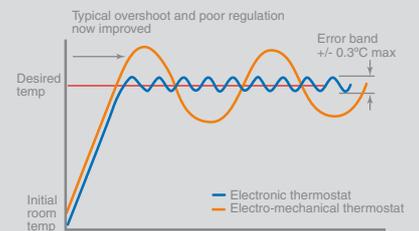
### Colour/finish

White.

### Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than  $\pm 0.3^{\circ}\text{C}$ , minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

### Installation

Supplied with metal wall bracket.

### IP rating

Splash-proof IPX4.

### Electrical connections

1.0m, four-core cable (live, neutral, earth, pilot) supplied fitted to each heater.

### Thermal cut-out

Auto-reset type.

### Element

Compact, finned, mineral filled sheathed type, providing virtually silent operation.

### Construction

Durable epoxy-polyester powder coated steel finish. Temperature resistant PBT thermoplastic moulded parts.

# The EPX range

## Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive +/- 0.3°C.
- Range of optional plug-in electronic timer modules:
  - 24-hour digital timer.
  - Single-zone pilot wire programmer.
  - Runback timer.
- Compatible with Dimplex four-zone, wall-mounted pilot wire and mains borne signalling multi-heater programmers.
- Aesthetics to complement DuoHeat radiators, with pure white finish.
- Frost protection setting.
- Preset background temperature at 5°C below thermostat setting.\*
- Splash-proof (IPX4) rated, for use in bathrooms or wet areas.
- Virtually noiseless operation.
- Simple detachable hinged wall bracket for easy installation and cleaning.
- Suitable for domestic or light commercial use.

\*When connected to a programming unit supporting setback feature.



Model EPX1250

The EPX range of electronic panel heaters combine advanced performance and stylish looks to provide a superior, cost-efficient panel heating solution.



Model EPX500

## Controls



### 1 Thermostat control

Electronic type, accurate to +/- 0.3°C. User selection of room temperature from 5°C (frost protection) to 30°C using slider control. Slider can be locked in position if required.

### 2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

### 3 Optional plug-in control modules

- 24-hour digital timer (RX24TI).
- Runback timer (RXRBTI).
- Single-zone, pilot wire programmer (RXPW1).

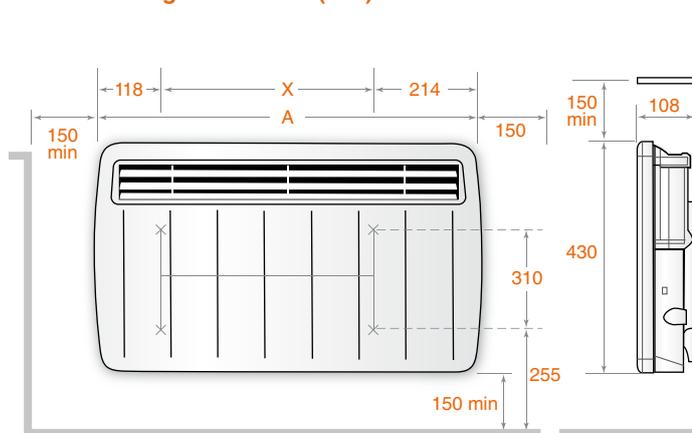
### Central control options†

- Four-zone pilot wire and mains borne signalling controllers (RXPW4N and RXMBS4).
- RX9913 receivers and RXMBSF filter required for mains borne control operation.

†See pages 34-35 for more information on the control options.

# Technical information

## Main and fixing dimensions (mm)



Model	Loading (kW)	Height (mm)	Width (A) (mm)	Depth (mm)	X (mm)	Weight (kg)
EPX500	0.5	430	450	108	117	5.2
EPX750	0.75	430	620	108	287	6.6
EPX1000	1	430	620	108	287	6.6
EPX1250	1.25	430	690	108	355	7.1
EPX1500	1.5	430	690	108	355	7.1
EPX2000	2	430	860	108	527	8.5



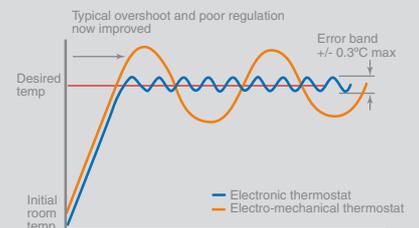
### Colour/finish

White.

### Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than  $\pm 0.3^{\circ}\text{C}$ , minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

### Installation

Detachable wall-mounting bracket.

### IP rating

Splash-proof IPX4.

### Electrical connections

1.2m, four-core cable (live, neutral, earth, pilot) supplied fitted to each heater.

### Thermal cut-out

Auto-reset type.

### Element

Compact, finned, mineral filled sheathed type, providing virtually silent operation.

### Construction

Durable epoxy-polyester powder coated steel casing, with forward facing grille. Temperature resistant PBT thermoplastic moulded parts.

# The RPX range

## Features

- Fitted with an electronic thermostat accurate to +/- 0.1°C to maintain a very stable room temperature.
- User selectable comfort, background and frost protection settings.
- Compatible with Dimplex single or four-zone multi-heater programmers.
- Compact, stylish casing with distinctive new curved grille.
- Radiant heating reduces heat stratification.
- Frost protection setting.
- No visible glow.
- Splash-proof (IPX4 rated) for use in bathrooms and wet areas.
- Controls cover, which can be locked if necessary.
- 'Apollo' bathroom model also available – see page 52 for details.
- Detachable wall bracket for easy installation and cleaning.
- Suitable for both domestic and commercial applications.



Model RPX100N

Radiant heat is the kind of warmth we feel from the sun, so it's no surprise that many people prefer their heating system to provide a comfortable level of radiant heat to warm the body. The attractive, slimline RPX panel heaters are designed to do just that, giving a perfectly balanced source of heat.

## Controls



### 1 Function control

Electronic type, accurate to +/- 0.1°C. User selection of 'comfort', 'background' (4°C below the thermostat setting) and 'frost protection' (5°C), off and programmed operation (if programmer is fitted). Neon indicator shows function selected.

### 2 Thermostat dial

The dial is marked \* to nine. The \* setting represents a room temperature of approximately 5°C and may be used for protection against frost. The other settings range up to a maximum room temperature of approximately 35°C. A neon indicator shows when the element is operating.

### 3 Optional plug-in control modules

- Single-zone pilot wire programmer (RX9911).
- Single-zone mains borne signalling programmer (RX9912).

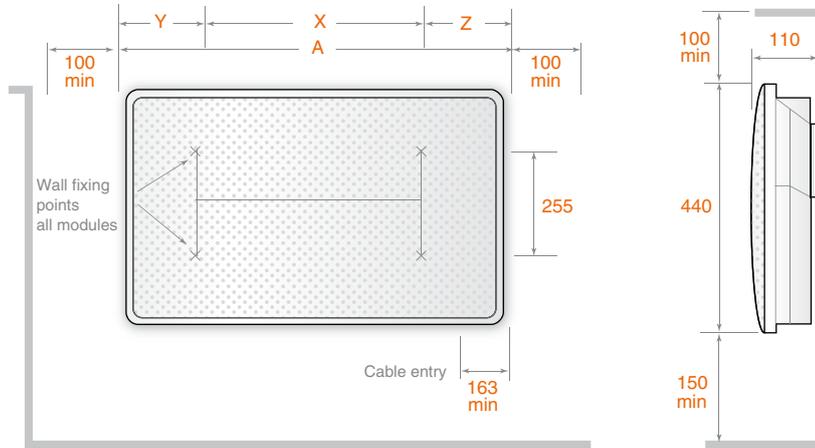
### Central control options†

- Four-zone pilot wire and mains borne signalling controllers (RXPW4N and RXMBS4).
- RX9913 receivers and RXMBSF filter required for mains borne control operation.

†See pages 34-35 for more information on the control options.

# Technical information

## Main and fixing dimensions (mm)



Model	Loading (kW)	Height (mm)	Width (A) (mm)	Depth (mm)	X (mm)	Y (mm)	Z (mm)	Weight (kg)
RPX075N	0.75	440	515	110	178	124.5	212.5	4.3
RPX100N	1.0	440	620	110	248	159.5	212.5	5.3
RPX150N	1.5	440	830	110	405	212.5	212.5	7.2
RPX200N	2.0	440	1040	110	535	252.5	252.5	9.0

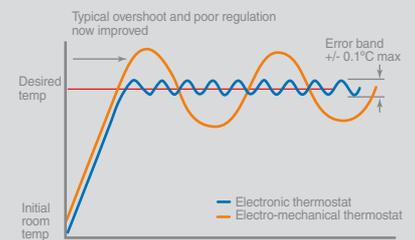
### Colour/finish

White.

### Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than  $\pm 0.1^{\circ}\text{C}$ , minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

### Installation

A detachable wall-mounting frame allows quick wall fixing.

### IP rating

Splash-proof IPX4.

### Electrical connections

2m, four-core cable (live, neutral, earth and pilot wire) supplied fitted to each heater.

### Elements

Two mineral filled sheathed electric elements are embedded in aluminium heating plates. Low element operating temperature of around  $200^{\circ}\text{C}$  reduces air drying effects and dust burning.

The heating plates have a unique design – the forward face has greater surface area to maximise radiant heat. The reverse side is in its natural smooth aluminium state to minimise heat loss to the wall.

The design provides an even temperature across the front panel, using the whole surface area available and maximises the throw of radiant heat into the room.

### Construction

Durable polyester powder coated steel with mesh steel front grille.

# The PLX range

## Features

- High accuracy adjustable thermostat responds to very small changes in room temperature to reduce temperature drift.\*
- PLX TI models have programmable 24-hour timers.
- PLX NC models with no built-in controls, for use with Dimplex wall-mounted remote controls. See website for more details.
- Choice of models with or without timers.
- Splash-proof (IPX4 rated) for use in bathrooms or wet areas.
- Frost protection setting.\*\*
- Option of seven-day timer on 2kW and 3kW models (TX).
- Lockable dust cover protects controls.
- Detachable hinged wall-mounting frame for fast installation and easy cleaning.
- Suitable for domestic or commercial use.

\*Excludes PLX NC models.

\*\*Not applicable to PLX NC models.



Model PLX1250

The PLX range is a popular choice for specifiers, homeowners and contractors who demand stylish, space saving and efficient electric heating systems.

## Controls



### 1 Thermostat control

- Gas filled, accurate to +/- 1.5°C.
- User selection of room temperature from 5°C (frost protection) to 35°C using rotary knob.

### 2 On/off switch

A single pole on/off switch controls the electricity supply. Neon indicator when the switch is on and power is supplied to elements.

### 3 Built in 24-hour/seven-day programmers

- TI models feature 24-hour time clock enabling daily heating needs to be programmed in advance. The clock may be set to switch on and off as often as required throughout the day. Override switch enables the timer to be by-passed without altering the preset programme. The selector control also has an off position.
- TX models feature seven-day timers, allowing different weekday and weekend programmes.

### 4 Heat selection switch

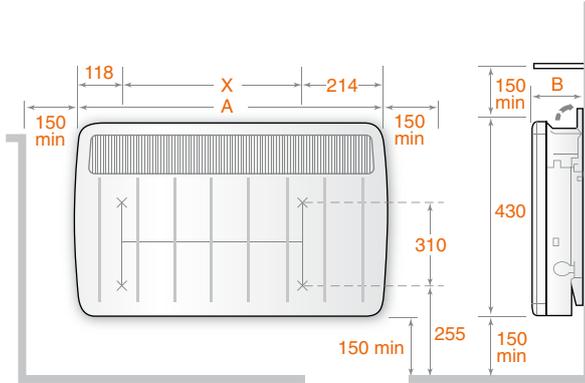
This allows the thermostat to operate on full or half load.



Model PLX750TI

# Technical information

## Main and fixing dimensions (mm)



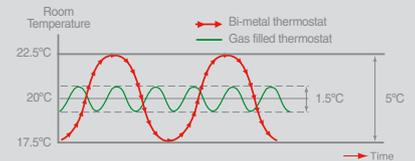
Model	Loading (kW)	Height (mm)	Width (A) (mm)	Depth (B) (mm)	X (mm)	Weight (kg)
Thermostat only models						
PLX500	0.5	430	450	108	117	4.8
PLX750	0.75	430	620	108	287	6.2
PLX1000	1.0	430	620	108	287	6.2
PLX1250	1.25	430	690	108	355	6.6
PLX1500	1.5	430	690	108	355	6.6
PLX2000	2.0	430	860	108	527	8.0
PLX3000	3.0	430	860	143	527	10.0
24-hour timer models						
PLX500TI	0.5	430	450	108	117	4.8
PLX750TI	0.75	430	620	108	287	6.2
PLX1000TI	1.0	430	620	108	287	6.2
PLX1250TI	1.25	430	690	108	355	6.6
PLX1500TI	1.5	430	690	108	355	6.6
PLX2000TI	2.0	430	860	108	527	8.0
PLX3000TI	3.0	430	860	143	527	10.0
Seven-day timer models						
PLX2000TX	2.0	430	860	108	527	8.0
PLX3000TX	3.0	430	860	143	527	10.0
No controls models						
PLX500NC	0.5	430	450	108	117	4.8
PLX750NC	0.75	430	620	108	287	6.2
PLX1000NC	1.0	430	620	108	287	6.2
PLX1250NC	1.25	430	690	108	355	6.6
PLX1500NC	1.5	430	690	108	355	6.6
PLX2000NC	2.0	430	860	108	527	8.0

## Colour/finish

Willow white front and rear panels, with contrasting birch grey grille.

## Sensitive thermostat

Conventional bi-metal thermostats can allow 'drift' of as much as 5°C in room temperature, owing to the effects of the changing heater output, resulting in discomfort for the user and energy wastage. Dimplex PLX panel heaters feature close tolerance gas filled thermostats, maintaining room temperatures to within +/- 1.5°C, eliminating resultant under/over heating, and improving user comfort and energy efficiency.



## Installation

Detachable wall-mounting bracket.

## IP rating

Splash-proof IPX4.

## Electrical connections

1.0m of supply cable fitted to each heater.

## Thermal cut-out

Auto-reset type.

## Element

Compact, finned, mineral filled sheathed type, providing virtually noiseless operation.

## Construction

Durable epoxy-polyester powder coated steel casing, with forward facing grille. Temperature resistant PBT thermoplastic moulded parts.

# Electronic control options

This range of controllers provides fully programmable energy saving control for Dimplex electronic panel heaters, DuoHeat radiators and now even additional ancillary appliances, such as towel rails or hot water systems, providing unmatched levels of versatility and energy efficiency.

With options ranging from 24-hour digital timers for individual heaters, through to single or four-zone multi-heater programmers, there is a flexible and easy-to-use control solution available to meet the needs of virtually any application.

Choose the functionality you require from the first column, then check that the unit fits your product and specification needs.

See page 53 for towel rail and radio frequency controllers.

Control requirement	Model		Signalling method
<b>24-hour control over one heater</b>	Programmable 24-hour digital timer  <b>RX24TI (white) and RX24TIB (black)</b>		Single heater
<b>Runback timer for one heater</b>	Electronic runback timer  <b>RXRBTI (white) and RXRBIB (black)</b>		Single heater
<b>Seven-day control over multiple heaters</b>	Single zone programming cassette  <b>RXPW1</b>		Pilot wire
<b>Seven-day control over multiple heaters</b>	Single zone programming cassette  <b>RX9911, RX9912 and RX9913</b>		Pilot wire (RX9911) Mains borne signalling (RX9912) (RX9913)
<b>Multi-zone control from a wall-mounted programmer</b>	4-zone wall-mounted programmers  <b>RXPW4N and RXMBS4</b>		Pilot wire (RXPW4N) Mains borne signalling (RXMBS4)
<b>Running a towel rail or water cylinder from a wall-mounted control</b>	Pilot wire interface  <b>RXPWIF</b>		Pilot wire
<b>Card switch</b>	KX  <b>KX03003</b>		Mains
<b>Push switch and PIR occupancy sensors</b>	PX range  <b>PX01001, PX9700 and PX9900</b>		Mains

Product features	Compatibility
<ul style="list-style-type: none"> <li>Plugs directly into panel heater.</li> <li>Four programmable time periods.</li> <li>Programme advance and manual override features. • One timer required per heater.</li> <li>Removable cassette. • Back-lit LCD with powersave mode.</li> <li>12-hour memory save in event of power failure. • User guide printed on rear of cassette.</li> </ul>	Monterey, Girona, Saletto and EPX
<ul style="list-style-type: none"> <li>Allows the heater to operate only for a preset period of time each time the controller is activated.</li> <li>Installer adjustable runback time, 30 mins to four hours (in 30 min increments).</li> <li>Switches heater between on and off modes on button press.</li> <li>One timer required per heater.</li> <li>Can be locked into heater by installer. • Neon indicates when time period is active.</li> <li>Alternative 'advanced' mode allows heater to be controlled on comfort/background basis.</li> </ul>	Monterey, Girona, Saletto and EPX
<ul style="list-style-type: none"> <li>Seven-day, single-zone pilot wire programming cassette – plugs directly into heater.</li> <li>Master/slave control – master heater fitted with programmer controls up to 10 slave heaters via pilot wire.</li> <li>Four programmable time periods for weekdays and weekends, switching heater between on/off modes.</li> <li>Programme advance and manual override features.</li> <li>Removable cassette. • Back-lit LCD with power-save mode.</li> <li>12-hour memory save in event of power failure. • User guide printed on rear of cassette.</li> </ul>	Monterey, Girona, Saletto and EPX
<ul style="list-style-type: none"> <li>Master/slave control – master heater fitted with programmer controls up to 20 slave heaters (RX9913 receivers required for MBS versions).</li> <li>Choice of seven preset or one customisable programme per day, switching heater between comfort and setback modes (not on/off).</li> <li>Removable cassette.</li> <li>Four-hour memory save in event of power failure.</li> <li>User guide printed on rear of cassette.</li> </ul>	RX9911/RX9912 – RPX and Apollo  RX9913 – Monterey, Girona, Saletto, EPX, RPX and Apollo
<ul style="list-style-type: none"> <li>Wall-mounted, mains-powered units.</li> <li>Installer option to allow switching between comfort/setback, comfort/off or comfort/frost protection modes.</li> <li>Manual programme override facility, with automatic return to programme at next timed change.</li> <li>Continuous comfort, setback, frost protection and off modes*.</li> <li>Holiday (time absence) mode. • Easy to install and configure.</li> <li>RXPW4N pilot-wire programmer can be used with RXPWIF interface unit to control ancillary appliances.</li> </ul> <p><i>Note: For mains borne signalling option, RX9913 receiver cassettes are required for each panel heater or RX03002 for each DuoHeat radiator. An RXMBSF mains filter is also required.</i></p> <p><i>Note: Pilot wire installations are appropriate for single phase connection only. *Off mode not applicable for DuoHeat.</i></p>	LST, Q-Rad, Monterey, Girona, Saletto, EPX, RPX, Apollo and DuoHeat radiator
<ul style="list-style-type: none"> <li>Allows control over ancillary appliances up to 3kW (16A) load (typically towel rail or hot water cylinder immersion heater).</li> <li>Installed local to the appliance being controlled. 38mm single gang wiring accessory back box required (not supplied).</li> <li>Switches power to appliance when programmer in comfort mode; disconnects supply when programmer in all other modes.</li> <li>Ideal for use with RXPW4N four-zone pilot wire programmer.</li> </ul>	Towel rails and hot water immersion heater cylinder rated up to 3kW (16A) load
<ul style="list-style-type: none"> <li>Particularly suited to hotels and student accommodation.</li> <li>Switches heater off or reduces the temperature when room is unoccupied.</li> <li>When card is inserted, room temperature is boosted until removed.</li> <li>Able to switch two separate 20A circuits giving control of suitable heaters up to 3kW and power to any other device, (e.g lighting circuit).</li> <li>Neon pocket indicator gives an easily visible back-lit slot when located in dark areas.</li> <li>Card switch suitable for any credit card-sized entry card (including VINGCARD and CORKEY door entry systems).</li> </ul>	Monterey, Girona, Saletto, EPX, RPX and Apollo
<ul style="list-style-type: none"> <li>Ideal to control energy costs in areas such as student accommodation, hotels and offices.</li> <li>Designed for use with PLX/NC no control panel heaters or any other heater up to 3kW output (except Quartz heaters).</li> <li>When activated, room temperature is boosted from background to comfort temperature for a pre-set period of time.</li> <li>Comfort temperature, background temperature and time delay selected on installation.</li> <li>User cannot adjust settings once installed. • PX01001 touchpad activated.</li> <li>PX9700 and PX9900 activated by PIR occupancy detector. • PX9900 offers additional level of setback (fixed at 5°C if room is still unoccupied after eight hours). • Heating cannot be reactivated until current comfort period expires.</li> </ul>	Monterey, Girona, Saletto, EPX, RPX and Apollo

# The Duo range

## Features

- Patented 'smart' heat manager automatically controls output level from each heat source, optimising controllability and economy.\*
- Single, simple to use and understandable electronic control, with child lock facility.
- Energy-efficiency savings of up to 10% compared with traditional off-peak electric heating systems, recognised by SAP2005, the tool for showing compliance with Part L of the Building Regulations.
- Compatible with Dimplex four-zone, wall-mounted pilot wire and mains borne signalling multi-heater programmers.
- Stylish, slimline design with concealed outlet grille.
- Heat output provided by a combination of off-peak and standard-rate electricity sources.
- Pre-wired electrical connections.
- Simple, secure wall fixings.
- Snap-fit feet.
- Easy-fit front panel connections.
- Compatible with all off-peak tariffs.

\*Patent number: GB2384300.



Model DUO400N

By providing heat from an automatically managed mix of off-peak and direct-acting sources, DuoHeat provides the flexibility and controllability to match users' lifestyles and ensures plenty of heat is available throughout the day or evening whenever it's needed, while keeping running costs low.

## Controls



Model DUO400N



### Room temperature controls

Integral user-adjustable electronic room thermostat, controlling both front panel element operation and temperature. Set via LED membrane display on top of heater. Child lock facility.

### Input charge control

Electronic room temperature sensing thermostat with external sensor. Limits charge in relation to room temperature during charge period. User selectable setting.

### Thermal safety devices

Automatic reset core limit thermostat and manual reset over temperature cut-out.

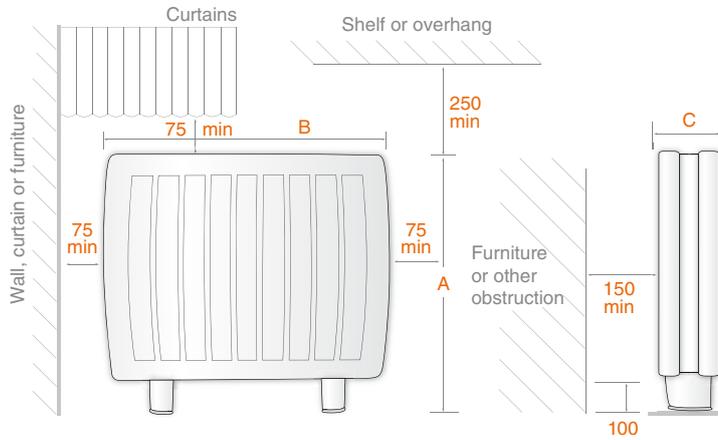
### Central control

Enabled for pilot-wire connection as standard. Mains borne controller (RXMBS4) and mains filter (RXMBSF4) is required. Each DuoHeat radiator also requires a receiver (RX03002) for signalling connection. See pages 34-35 for central control compatibility details.

Controller mode	Heater function
Comfort	Heater functions at electronic thermostat setting.
Setback	Temperature controlled at 2°C below electronic thermostat setting.
Frost protection	No front panel operation. Off-peak elements maintain frost protection.

# Technical information

## Dimensions and clearances (mm)



Model	DUO300N	DUO400N	DUO500N
Height A	712mm	712mm	712mm
Width B	600mm	830mm	1060mm
Depth C	130mm + 10mm	130mm + 10mm	130mm + 10mm
Weight (installed)	65kg	94kg	124kg
Nominal output	0.7kW	1.0kW	1.4kW
Charge acceptance	9.1kWh	13.65kWh	18.2kWh
Background/input	1.3kW	1.95kW	2.6kW
Radiant	0.38kW	0.47kW	0.54kW

## Colour/finish

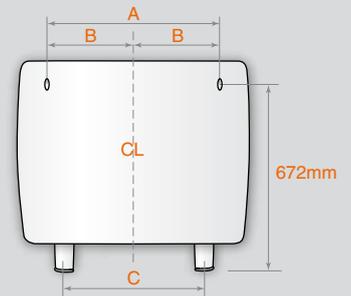
White and grey.

## Installation

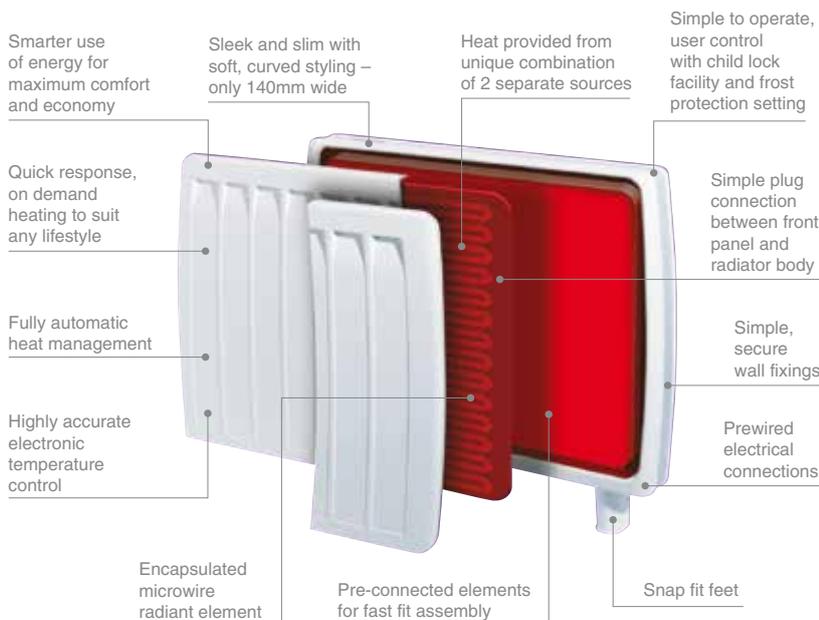
Off-peak supply – located at front 1.6m three core, 2.5mm<sup>2</sup> cable.

24-hour supply – located at front right hand end of base. Pre-wired with 1.6m four core, 0.75mm<sup>2</sup> cable (for pilot wire control).

## Fixing dimensions



Model	DUO300N	DUO400N	DUO500N
Width A	424mm	652mm	880mm
Width B	212mm	326mm	440mm
Width C	295mm	523mm	751mm



## The XLN and XLSN ranges

### Features

- XLSN range features automatic charge regulator, which automatically adjusts the level of input charge to compensate for changing weather conditions without user intervention.
- Running cost savings of up to 15% can be achieved using automatic controller (XLSN), compared to manual static (XLN) storage heaters.
- Less than 150mm (six inches) deep.
- Smooth curved styling.
- XLN range features manually adjustable charge regulator to control the amount of heat stored during the charge period.
- Room temperature boost control increases heat output when required and may be used automatically or manually.
- Easy-to-use controls, out of sight of young children.
- Frontal grille for efficient heat distribution.
- Secure wall fixings for safety.
- Feet may be fitted under carpet or on top of a suitable floor covering.
- Matches the PLX range of panel heaters.
- Compatible with all off-peak tariffs.
- Drip-proof construction (IPX2 rated).



Model XLS12N

The UK's slimmest and most popular storage heaters offer performance, economy, ultra-slim design and maintenance free reliability. The XLN and XLSN are suitable for a wide range of domestic and commercial applications. The heating level of XLN range is adjusted by means of a variable input control, which the occupant sets in line with the changing weather conditions.

Model XLS18N



### Controls

The control knobs are positioned on the sloping rear top panel of the heater, and are therefore out of sight of young children. The knobs incorporate a crossbar and raised pointer for ease of operation.

#### Charge controller – XLN

Type: bi-metal, adjustable from zero charge to fully charged condition.

#### Charge controller – XLSN

Type: hydraulic close differential room temperature sensing thermostat with external sensor.

#### Thermal safety device

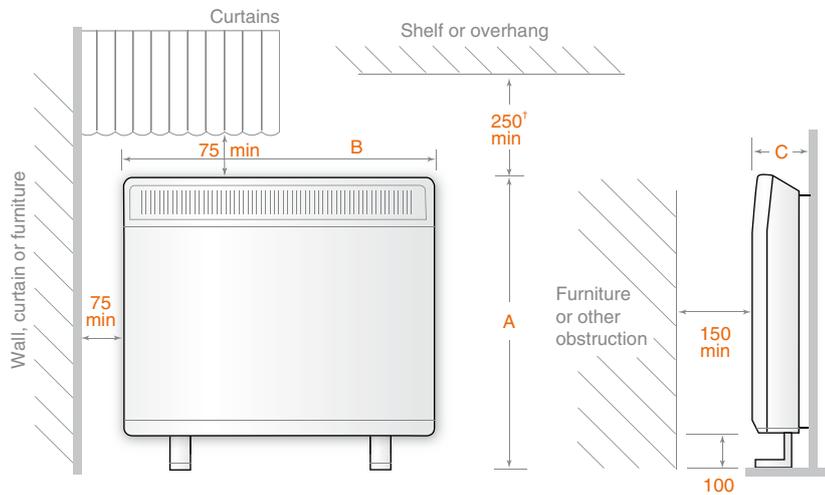
Type: bi-metal – manual reset.

#### Damper control

Type: bi-metal strip, selection variable from early to late or zero boost.

# Technical information

## Dimensions and clearances (mm)



<sup>†</sup>When using Dimplex shelves a clearance of 150mm must be maintained.

Model	XL12N/XLS12N	XL18N/XLS18N	XL24N/XLS24N
Performance input rating	1.70kW	2.55kW	3.4kW
Charge acceptance (7 hours continuous)	11.9kWh	17.85kWh	23.8kWh
Height (A)	706mm	706mm	706mm
Width (B)	565mm	793mm	1021mm
Depth (C)	146mm	146mm	146mm
Shelf Model	SHE12	SHE18	SHE24

## Wall bracket fixing

Model	Wall bracket width	No. of fixing slots
XL12N/XLS12N	542mm	4
XL18N/XLS18N	770mm	5
XL24N/XLS24N	998mm	6

## Colour/finish

Front panel, sides and top panel – willow white; rear heat shield, wall spacer and grille – contrasting birch grey.

## Supply connection

Located at front right hand end of base – accessible by removal of front panel assembly. Hidden cable support straps at rear of heater allow neat supply cable connection from either side of heater.

## Assembly

Remove front panel assembly then front inner skin. Remove internal packing containing elements, position rear layer of bricks, heating elements, and front layer of bricks.

## IP rating

Drip-proof IPX2.

## Storage bricks

Supplied, two bricks per pack. Approx weight of brick 7.5kg each.

Model	Weight without bricks	Weight with bricks	No. of bricks
XL12N/XLS12N	20kg	76kg	8
XL18N/XLS18N	26kg	109kg	12
XL24N/XLS24N	32kg	144kg	16

## Accessories

Please refer to page 43 for optional accessories.

## The CXLSN range

### Features

- CXLSN range features automatic charge regulator, which automatically adjusts the level of input charge to compensate for changing weather conditions without user intervention.
- Provides a continuous source of warmth, primarily from cheap off-peak electricity.
- Convector gives completely silent top-up heating.
- Convector thermostat can be set to maintain constant room temperatures and automatically switch on as necessary.
- Conveniently positioned convector controls on the front panel.
- Lower convector loadings selectable on installation.
- Secure wall fixing for safety.
- Feet may be fitted under carpet or on top of suitable floor covering.
- Simple assembly for flexible positioning and quick installation.
- See page 43 for accessories.



Model CXLS18

By providing two heaters in one compact case, the CXLSN saves space, and its smooth curved styling complements XLSN storage heaters and PLX panel heaters.



### Storage controls

The control knobs are positioned on the sloping rear top panel of the heater, and are therefore out of sight of young children. The knobs incorporate a cross bar and raised pointer for ease of operation.

### Charge controller

Type: hydraulic close differential room temperature sensing thermostat with external sensor.

### Thermal safety device

Type: bi-metal – manual reset.

### Damper control

Type: bi-metal strip, selection variable from early to late or zero boost.

### Convector controls

Located to right of convector air outlet grille.

### Room temperature thermostat

Type: hydraulic, adjustable.

### Safety cut-out

Type: bi-metallic, disconnect supply to reset type.

### On/off switch

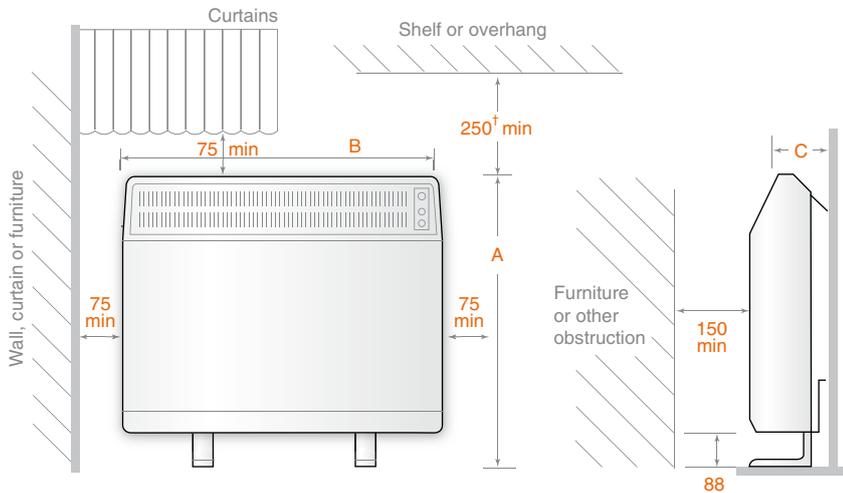
Type: single pole incorporating neon, which illuminates when switch is in on position.

### Neon

An additional neon illuminates when convector heater is drawing current.

# Technical information

## Dimensions and clearances (mm)



<sup>†</sup>When using Dimplex shelves a clearance of 150mm must be maintained.  
The wall fixing arrangement is adjustable to accommodate for skirtings up to 150mm high and 25mm deep.

Model	CXLS12N	CXLS18N	CXLS24N
Storage heater performance input rating	1.7kW	2.55kW	3.4kW
Charge acceptance 7 hours	11.9kWh	17.85kWh	23.8kWh
Convector heater performance Maximum output	900W	1450W	2000W
Other outputs available (Set on installation)*	450W	450W, 1000W	650W, 1350W
Height (A)	706mm	706mm	706mm
Width (B)	565mm	793mm	1021mm
Depth (C)	193mm	193mm	193mm
Shelf model	SHE12	SHE18	SHE24

\*Element can be derated by 50% on installation.

## Wall bracket fixing

Model	Wall bracket width	No. of fixing slots
CXLS12N	542mm	4
CXLS18N	770mm	5
CXLS24N	998mm	6

## Colour/finish

Willow white top, sides and front panel. Contrasting birch grey grille, rear heat shield and wall spacer.

## Supply connection

Located at front left end of heater base. Cable entry at left hand end. Cable support straps at rear of heater allows neat supply connection from either side of heater.

## Assembly

Remove front panel assembly then front inner skin. Remove internal packing containing elements, position rear layer of bricks, heating elements, and front layer of bricks.

## IP rating

IPX2.

## Storage bricks

Supplied, two bricks per pack. Approx brick weight 7.5kg each.

Model	Weight without bricks	Weight with bricks	No. of bricks
CXLS12N	19.5kg	77kg	8
CXLS18N	24kg	111kg	12
CXLS24N	29.5kg	146kg	16

## Element – convector heater

Type: stitched ribbon.  
Material: nickel/chrome/iron.  
Element can be derated by 50% on installation.

## Accessories

Please refer to page 43 for optional accessories.

# The XL6N and XLS6N range

## Features

- XLS6N has automatic input control to automatically regulate the input charge according to changing weather conditions.
- Designed for wet areas such as bathrooms.
- Suitable for use in confined areas, for background heating or to supplement an existing system.
- XL6N has preset input control.
- Performance input rating – 0.85kW.
- Charge acceptance seven hours – 5.95 kWh.
- Secure wall fixing for safety.
- Feet may be fitted under carpet or on top of suitable floor covering.
- Simple assembly for flexible positioning and quick installation.
- Compatible with all off-peak tariffs.
- Accessory towel rail (part no. STR6) and shelf (SHE6) available.

## Colour/finish

Willow white top, sides and front panel.

## Supply connection

Located at front right-hand end of base. Cable entry bush and cable clips allow neat supply cable entry from either side of heater.

## Assembly

Remove one piece grille/front panel assembly then front inner skin. Remove internal packing and element, position rear layer of bricks, heating element and front layer of bricks.

## IP rating

Drip-proof IPX2.

## Storage bricks

Supplied – two bricks per pack. Approx brick weight 7.5kg each. Weight without bricks 11kg. Weight with bricks 41kg.



Model XL6N

Mini storage heaters are extra compact versions of our popular XL and XLS storage heaters, bringing the benefits of off-peak heating to areas that were traditionally too small for storage heaters such as bathrooms, cloakrooms and en suites. They are ideal for topping up existing heating in cold spots, improving the overall comfort and efficiency of the system.

## Controls

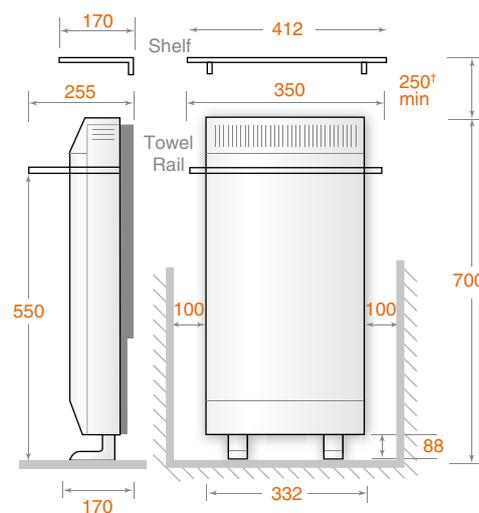
Charge Controller – XL.

Type: bi-metal factory preset for fully charged condition.

## Thermal safety device

Type: bi-metal – manual reset.

## Dimensions and clearances (mm)



\*When using Dimplex shelves a clearance of 150mm must be maintained.

A clearance of 75mm must be maintained between the heater surface and any curtains.

## Accessories



Model XL12N



A wide range of accessories is available to increase the versatility of Dimplex Quantum heaters and storage heaters.

### Protective guards

Aiano have designed a range of wire guards specifically for Dimplex.

These guards are suitable for most environments; including homes, schools, nurseries, stations and hospitals. They offer additional safety from hot surfaces, tampering and damage with no negative affect on performance. Please contact Aiano for further advice on the most appropriate guard for your particular environment.

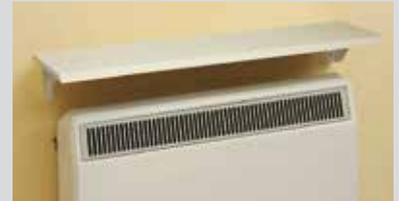
These guards are available with a number of different options, for example:

- Lockable control flaps.
- Skirting cut-outs.
- Pipe cut-outs.
- Sloping tops.
- Welded feet.
- Removable and lockable sections.

For further advice contact Aiano on 0207 987 1184 or visit [aianos.co.uk](http://aianos.co.uk)

### Storage heater shelves

Available to suit most Dimplex storage heaters, these robust steel shelves are finished to match the heaters and provide protection against heaters being covered. A minimum clearance of 150mm between the heater and the shelf must be maintained.



### Shelves for storage heaters

Model	Shelf ref.	Length mm	Height mm	Depth mm
XL6N/ XLS6N	SHE6	412	150	170
XL12N/ XLS12N/ CXLS12N	SHE12	640	150	170
XL18N/ XLS18N/ CXLS18N	SHE18	870	150	170
XL24N/ XLS24N/ CXLS24N	SHE24	1095	150	170

### Surface temperature

Dimplex products comply with EN60335, the European Standard covering safety requirements of electric heating appliances, and momentary contact with any part of the heater should not cause injury. However, in order to be effective, heaters of any type do get hot especially around the air outlet grille.

Therefore, if aged or infirm persons, or young children, are likely to be left unsupervised in the vicinity of a heater, we advise that precautions should be taken to ensure that contact cannot occur. We recommend that a guard is fitted around the heater as is normal with some types of heating appliances in similar circumstances.

# Chrome stepped rail

## Features

- Fluid filled for fast warm up and even heat distribution.
- Easy and quick to install.
- Low wattage for low running costs.
- Easy to use, designed for drying multiple towels quickly.
- High quality chrome finish.
- Compatible with the Dimplex range of towel rail controls.

## Electrical connection

- 1.0m pre-fitted cable.
- Cable entry at bottom left of rail.
- Three-core cable – live, neutral, earth.

## Installation

Four brackets for wall mounting.

## Construction

- Sealed steel shell.
- Circular tubed upright bars.
- Vertically mounted element.

## IP rating

IPX5 rated for bathroom use.

## Colour/finish

Chrome plated.

## Controllers

Compatible with the Dimplex FSCC and FSCW runback controls and the Dimplex RF central control units. See page 53 for details.

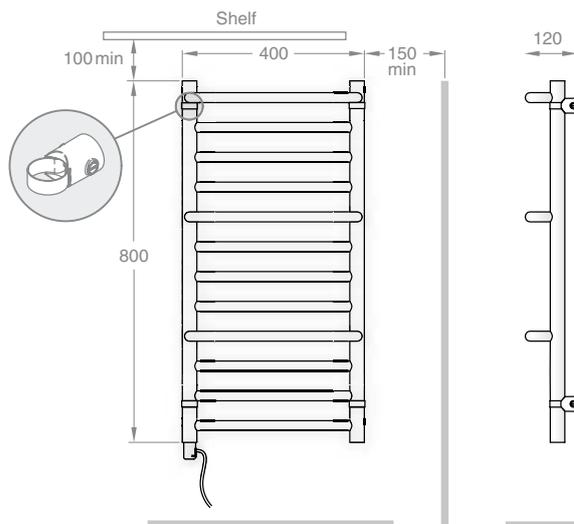


Model CPTS with optional FSCC controller

The 'Stepped' rail is space-saving and functional. This ergonomic rail offers maximum drying capability by providing a series of stepped rails on which to hang single or multiple towels. It is also incredibly slim, enabling it to be placed where horizontal wall space is limited.



Model CPTS



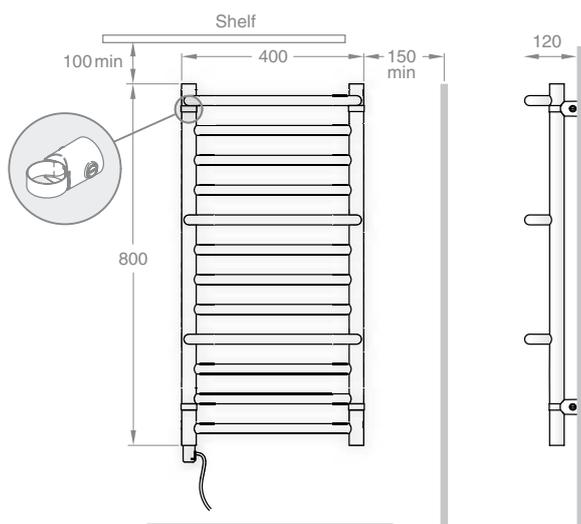
Model	Output (W)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	No. of rails
CPTS	120W	800mm	400mm	120mm	7.4kg	12

## White stepped rail



Model CPTSW with optional FSCC controller

The white version of the popular 'Stepped' rail is space-saving and functional. This ergonomic rail offers maximum drying capability by providing a series of stepped rails on which to hang single or multiple towels. It is also incredibly slim, enabling it to be placed where horizontal wall space is limited.



Model CPTSW



### Features

- Fluid filled for fast warm up and even heat distribution.
- Easy and quick to install.
- Low wattage for low running costs.
- Easy to use, designed for drying multiple towels quickly
- High quality white finish.
- Compatible with the Dimplex range of towel rail controls.

### Electrical connection

- 1.0m pre-fitted cable.
- Cable entry at bottom left of rail.
- Three core-cable – live, neutral, earth.

### Installation

Four brackets for wall mounting.

### Construction

- Sealed steel shell.
- Circular tubed upright bars.
- Vertically mounted element.

### IP rating

IPX5 rated for bathroom use.

### Colour/finish

White stove enamel.

### Controllers

Compatible with the Dimplex FSCC and FSCW runback controls and the Dimplex RF central control units. See page 53 for details.

Model	Output (W)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	No. of rails
CPTSW	150W	800mm	400mm	120mm	7.4kg	12

## The BR range

### Features

- Compatible with the Dimplex radio frequency controllers.
- Ladder design maximises capacity for hanging damp towels and clothes.
- Slim vertical design to maximise use of wall space even in confined areas.
- No external controls.
- Built-in over temperature cut-out.
- Sealed, liquid filled design for maintenance free use.
- Provided with inlet/outlet plumbing connections – no expensive adaptors needed.
- Supplied ready for electric use, but may also be connected to a water central heating system with the electric element available for use when the boiler is off.
- Choice of models in white or chrome finish.
- IPX5 rated for bathroom use.



Model BR350C

The Dimplex BR range creates a new generation of stylish, multi-purpose bathroom radiators. Higher output models provide an ideal combination of room heating with efficient drying of towels and other fabrics.

Model BR400W



### Controls

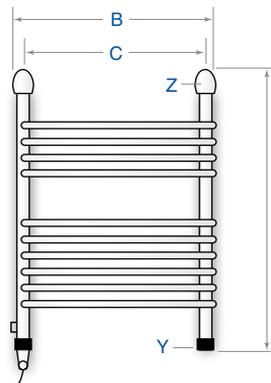
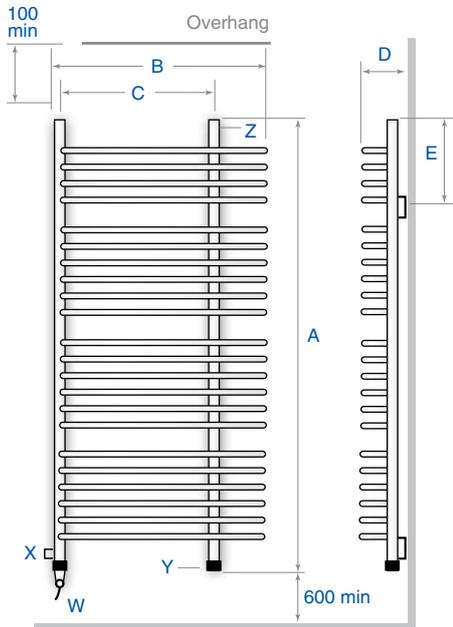
Built-in temperature limiter and overheat protection. Suitable for connection to external thermostats or timers, in accordance with IEE regulations. See page 53 for control options.



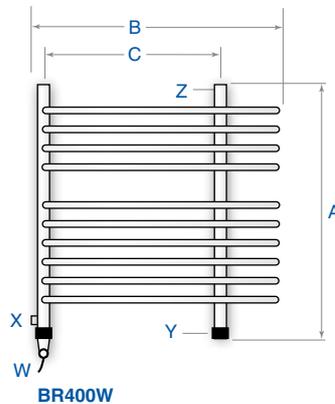
Model BR150C

# Technical information

## Main and fixing dimensions (mm)



BR150C BR350C



BR400W

Clearances and fixing centres (all models).

- W = electrical element cable termination.
- X = water inlet (flow) connection.
- Y = water outlet (return) connection.
- Z = bleed valve.

**Note: please refer to tables below for number of rails.**

Model	BR150C	BR350C	BR400W
Finish	Chrome	Chrome	White
Output (electric)*	150W	350W	400W
Approx output (water)*	320W	750W	840W
Height (A)	665mm	1003mm	1003mm
Width (B)	430mm	630mm	630mm
C	385mm	603mm	447mm
Depth (D)	155mm	155mm	155mm
E	268mm	268mm	268mm
No. of rails	10	16	16
Weight	6.5kg	13kg	15kg

\*For BTU output multiply by 3.412.

## Finish

White powder coated or chrome plated.

## Installation

Supplied with wall-mounting points and brackets.

## IP rating

Splash-proof IPX5 for bathroom use.

## Electrical connection

- 1.0m pre-fitted cable.
- Cable entry at base of left header tube. Installations must be in accordance with current IEE wiring regulations.

## Construction

- Sealed, liquid-filled steel shell.
- Water-based fluid with glycol frost/corrosion inhibitor.
- Vertical mounted immersion element.

## Installation to radiator circuit

Installation must be in accordance with manufacturer's instructions. Liquid is drained by removing bungs to inlet/outlet connections (1/2 inch BSP fittings). Connect to radiator circuit (electric element remains in situ). Radiator refilled from radiator circuit and bled using valve concealed below top-right header cap. Electrical connection as electric-only installation.

## Operation when part of radiator circuit

When the central heating system is in use the appliance will act as a normal radiator. Out of season or when the boiler is not in use, the radiator may be operated independently by switching on the electric element. In use, expansion of water must be guaranteed through return connection. Return connection should be left open to ensure this.



Water inlet connection

# The TDTR range

## Features

- Compatible with the Dimplex radio frequency controllers.
- Even heat distribution.
- Rapid towel drying.
- Compact, slimline design.
- Choice of chrome or white finish.

## Electrical connections

- 1.0m pre-fitted cable.
- Cable entry at bottom left rail.

## Installation

**TDTR175W/TDTR175C** –  
Supplied with three wall mounting brackets.

**TDTR350W/TDTR350C** –  
Supplied with four wall mounting brackets.

## Construction

Sealed steel shell. D-shaped upright bars.

## IP rating

IPX5 rated for bathroom use.

## Colour/finish

White powder coated or chrome plated.

## Controllers

Compatible with the Dimplex FSCC and FSCW runback controls and the Dimplex RF central control units. See page 53 for more details.

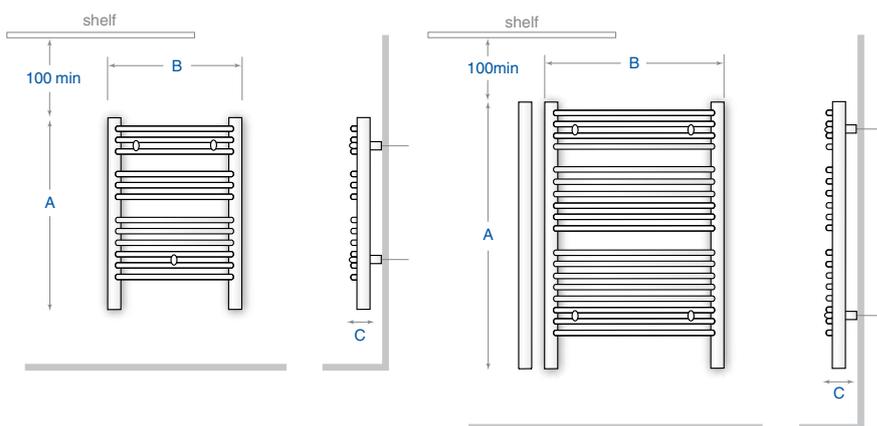


Model TDTR350C

The TDTR is a sleek and elegant towel warmer incorporating gently curving rails. It is set to become the latest 'must have' design for any contemporary bathroom. The TDTR is available in both sparkling chrome and cool white, and in two sizes. Moreover, it is compatible with the Dimplex FSCC and FSCW runback controls and RF radio frequency central control units.



Model TDTR175W

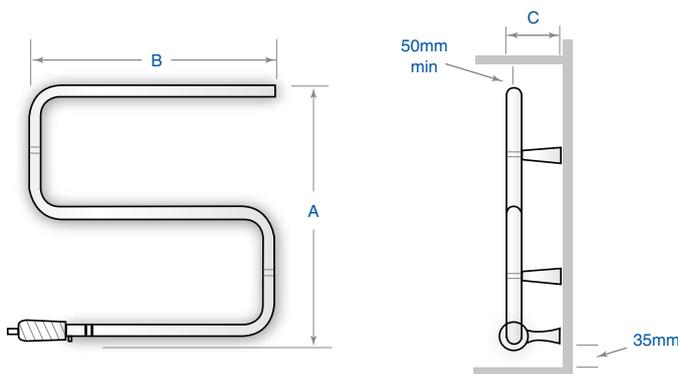


Model	Finish	Output (W)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	No. of rails
TDTR175W	White	175	610	453	80 – 100	6	12
TDTR350W	White	350	843	602	95 – 115	11	18
TDTR175C	Chrome	120	610	453	80 – 100	6	12
TDTR350C	Chrome	250	843	602	95 – 115	11	18



Model LSTS

This compact rail meets the NHS guidance notes on safe surface temperatures. The surface will not exceed 43 degrees Celsius during operation. This makes it ideal for hospitals, schools, retirement homes, sheltered housing, nursing homes and public restrooms. See pages 84 – 85 for our range of LST heaters.



Model	Output (W)	Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	Weight (kg)
LSTS	15	555	568	93	1.7

**Features**

- Surface temperature regulated to 43 degrees Celsius.
- Meets NHS guidance notes on safe-surface temperature.
- Easy, fast installation.
- Dry-element tubular-steel towel rail.
- Reversible cable entry point.
- Splash-proof (IPX4 rated) for use in bathrooms and other wet areas.

**Electrical connections**

- 1.0m pre-fitted cable.
- Cable entry at bottom left or right of rail.
- Three-core cable – live, neutral, earth.

**Installation**

Three brackets for wall mounting.

**Construction**

- Tubular steel.
- Dry element.

**IP rating**

IPX4 rated for bathroom use.

**Colour/finish**

White stove enamel.

Model LSTS



# The TTR and S ranges

The TTR and S ranges can be used with the Dimplex radio frequency and FSC runback controllers.

### TTR features

- A range of five models.
- Choice of sizes and finishes.
- Water glycol filled.
- Larger models will help to take the chill off a small bathroom or cloakroom.
- Mains neon indicator.
- Splash-proof (IPX5 rated) for use in bathrooms and other wet areas.
- Supplied with wall-mounting brackets as standard.

### S features

- Tubular steel towel rail.
- Durable white stove enamel (S50W) or chrome plated (S50C).
- S50W provides lower surface temperature.
- Suitable for wall mounting only.
- Splash-proof (IPX4 rated) for use in bathrooms and other wet areas.



Model TTRS120W

What a difference warm, dry towels make. With a Dimplex towel rail you can have them all the time, but at amazingly low running costs.

The popular S range is ideal for drying and airing small towels in areas such as kitchens, cloakrooms and en suites.

The low wattage element provides an even surface temperature and very economical operation.

TTR range towel rails are permanently liquid filled for maintenance free operation. They can be mounted for left or right hand cable entry.

No plumbing. No problems. And they can be left switched on indefinitely.

### Controls

See page 53 for control options.



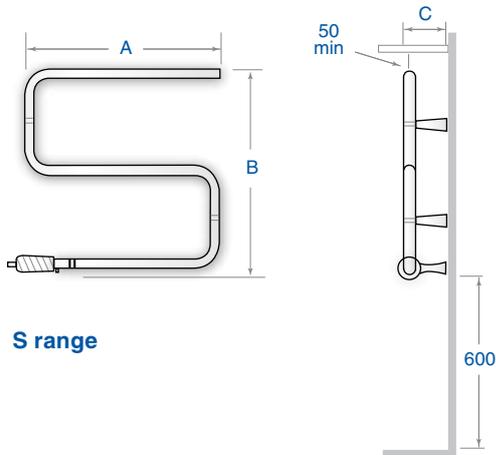
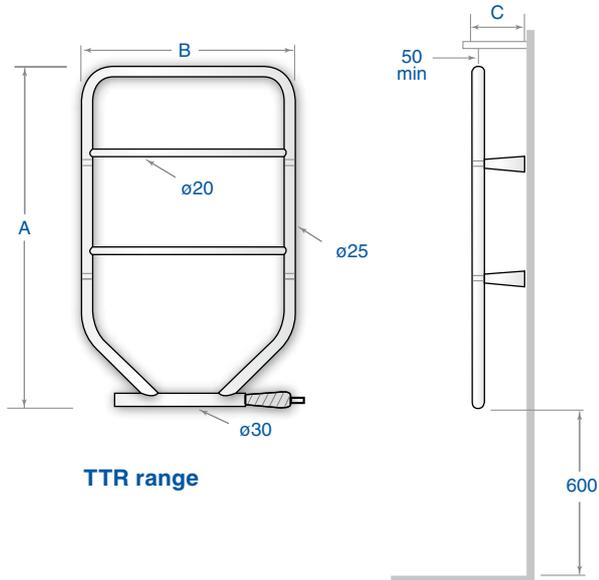
Model S50C



Model TTRC130W

# Technical information

## Main and fixing dimensions (mm)



### Colour/Finish

White stove enamel or chrome plated.  
As a plated finish radiates less heat away from its surface, the plated models have a lower loading compared with the equivalent physical size stove enamel model, so that both have a similar surface temperature.

### IP rating

**S:** splash-proof IPX4 for bathroom use.

**TTR:** splash-proof IPX5 for bathroom use.

### Electrical connections

Supply cable is provided for connection to the fixed wiring of the premises via a suitable double pole isolating switch. Installation must be carried out strictly in accordance with the current edition of the IEE wiring regulations. If the towel rail is fitted in a bathroom, essentially these regulations preclude the use of a plug and socket and any control switch must be normally inaccessible to a person using a fixed bath or shower. The pull cord of a cord-operated switch is not affected by this regulation.

### Construction

Tubular steel.

S range

TTR range – water glycol filled.

### Cable entry

All models – left or right hand.

Model	Loading (W)	Height (A) (mm)	Width (B) (mm)	Depth (C) (mm)	Finish
TTRC90/W	60W	616mm	533mm	93mm	Chrome
TTRS120/W	120W	616mm	533mm	93mm	White
TTRC130/W	90W	851mm	533mm	93mm	Chrome
TTRC150/W	120W	851mm	787mm	93mm	Chrome
TTRS175/W	175W	851mm	533mm	93mm	White
S50C	45W	555mm	568mm	93mm	Chrome
S50W	45W	555mm	568mm	93mm	White

# The Apollo

## Features

- Fitted with an electronic thermostat, accurate to within +/- 0.1°C to maintain a stable room temperature.
- User selectable comfort, background and frost protection settings.
- Compatible with Dimplex single or four-zone multi-heater programmers.
- Compact, stylish casing with distinctive curved grille.
- Two fixed towel hangers (not heated).
- Highly comfortable radiant heat output, reducing heat stratification.
- Splash-proof (IPX4 rated) for use in bathrooms and wet areas.
- Controls cover, which can be locked if necessary.

## Colour/finish

White/grey.

## Installation

A detachable wall mounting frame allows quick wall fixing.

## IP rating

Splash-proof (IPX4 rated) for use in wet areas.

## Electrical connections.

2m, four-core cable (live, neutral, earth and pilot wire) supplied fitted to each heater.

## Elements

Two mineral filled sheathed electric elements are embedded in aluminium heating plates. Low element operating temperature of around 200°C reduces air drying effects and dust burning.

## Construction

Durable polyester powder coated steel with mesh steel front grille.



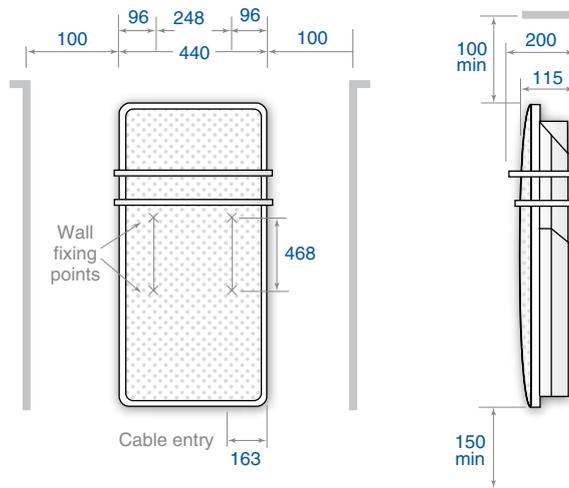
Model APL100

The unique Apollo radiant panel bathroom heater provides the ultimate in bathroom heating. Combining the benefits of high comfort radiant panel heating, with the added convenience of fixed rails for drying and airing towels, Apollo is the ideal solution where towel drying and full room heating are required from a single appliance.

## Controls

Please refer to RPX controls on page 31 for full details of the onboard controls. For additional control options please see pages 34-35.

## Main and fixing dimensions (mm)



Model	Loading	Height	Width	Weight
	(W)	(mm)	(mm)	(kg)
APL100	1.0kW	830mm	440mm	7.2kg

# The FSC and RF ranges



Model FSCW



Model FSCC

## The FSC range

Adding a controller to your towel rail will enable much greater benefit to be derived from its electric energy source. Using the rail independently of your main leading heating system enables cheaper and more accurate operation, all year round.

The FSC control offers a wider range of functionality and is the perfect complement to a new, or existing, electric towel rail. It allows the rail to be switched on or off, and for the surface temperature to be adjusted. There are five settings that progressively reduce the temperature of the rail, and also the energy that it uses.

In addition there is an 'Eco' mode, which allows you to dry a towel without having

to leave the rail on indefinitely. When pressed, the rail will maintain a high temperature for 30 minutes, dropping to a lower temperature for 90 minutes, and then switching off. This allows you to economically dry your towels without having to remember to turn the rail off afterwards.

Compatible with Dimplex CPT, TDTR, BT and TR rails.

Model RF24T



## The RF range

This range of controls provides energy saving control for Dimplex towel rails.

As they utilise radio waves to transmit a signal, there is no need to wire controls to their receivers – meaning quick, easy and trouble-free installation.

Perfect for controlling towel rails or other ancillary appliances up to 2kW, which otherwise have no means of thermostatic control.

- Wall-mounted controller unit that comes complete with RF receiver, which must be wired to the relevant appliance.
- Splashproof (IPX4 rated) for use in wet areas.
- Multiple receivers can be controlled by a single controller.
- Additional receivers sold separately (RFREC).



Model RFBT



Model RFREC

### Features

#### FSCC and FSCW

##### Runback

'Eco' will run the towel rail for 30 minutes at a high setting, then switch the rail off.

##### Temperature reduction

The surface temperature of the rail can be reduced, slowing 100%, 85%, 70%, 55% and 40% of maximum (circa 60°C).

##### Colours

Chrome – model FSCC.  
White – model FSCW.

#### RF24T and RF07T

- RF24T offers 24-hour programming, with four programmable time periods, switching heater between on/off modes.
- RF07T offers seven-day programming, with four programmable time periods for weekdays and weekends, switching heater between on/off modes.
- Both controllers feature:
  - Back-lit LCD screen with power-save mode.
  - 30-minute boost button.
  - Thermostatic control.
  - Fits single gang recessed wiring accessory back box.

#### RFBT

- Wall-mounted rotary controller.
- Offers RF thermostatic control.
- 30-minute boost button.
- Fits single gang wiring accessory back box.

#### RFREC

- Additional receiver for use with RF controllers/programmers (RFBT, RF24T, RF07T).
- Allows additional ancillary heater up to 2kW to be controlled simultaneously.

# The FX and FXIPX4 range

## The FX range

With their compact design, FX downflow fan heaters are the popular choice for heating bathrooms and en suites, as well as kitchens.

The powerful 2kW output ensures a fast warm up, although 1kW output is selectable on installation for smaller rooms.

All models have visual on/off indicator, full safety protection and are simple to install.

## The FXIPX4 range

The FX20IPX4 and FX20EIPX4 is an IPX4 rated fan heater for unrivalled versatility when it comes to installation. This unique feature allows greater installation flexibility in bathroom locations.

Combined with a sleek, modern look, the IPX4 rated FX downflow heaters provide an ideal heating solution for almost any bathroom, en suite or kitchen.

These products are not suitable for commercial or industrial applications.



Model FX20VL

## The FX range features

### FX20V

- 2kW maximum output.
- Pull-cord operation.
- Neon indicator.
- Energy-saving thermostat switches output down to 1kW once the room is warm (functions on 2kW setting only).
- 2kW or 1kW output selectable on installation.

### FX20VE

- Time period adjustable between 5 and 155 minutes on installation.
- Heater can be manually switched off before time period expires.
- 2kW maximum output.
- Pull-cord operation.
- Neon indicator.
- Energy-saving electronic timer automatically switches heater off after a preset time period to prevent it being left on accidentally.
- 2kW or 1kW output selectable on installation.

### FX20VL

- Designed for low-level mounting.
- No pull cord.
- 2kW maximum output.
- Neon indicator.
- Adjustable thermostat control.
- 2kW or 1kW output selectable on installation.

## The FXIPX4 range features

### FX20IPX4

- 2kW maximum output.
- Pull-cord operation.
- Neon indicator.
- IPX4 rated.
- Identical footprint to current FX20 models, meaning that retro-fitting an IPX4 model is incredibly simple.
- Energy-saving thermostat switches output down to 1kW once the room is warm (functions on 2kW setting only).
- 2kW or 1kW output selectable on installation.

### FX20EIPX4

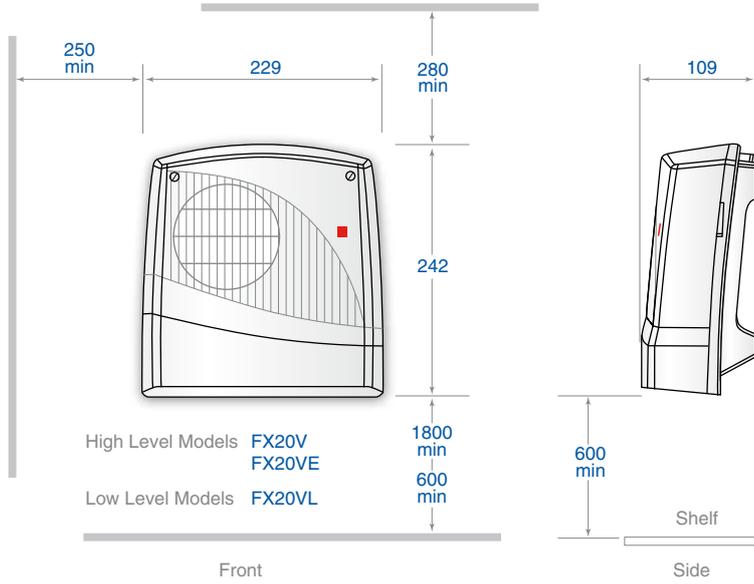
- Time period adjustable between 5 and 155 minutes on installation.
- Heater can be manually switched off before time period expires.
- 2kW maximum output.
- Pull-cord operation.
- Neon indicator.
- IPX4 rated.
- Identical footprint to current FX20 models, meaning that retro-fitting an IPX4 model is incredibly simple.
- Energy saving electronic timer automatically switches heater off after a preset time period to prevent it being left on accidentally.
- 2kW or 1kW output selectable on installation.

Model FX20IPX4



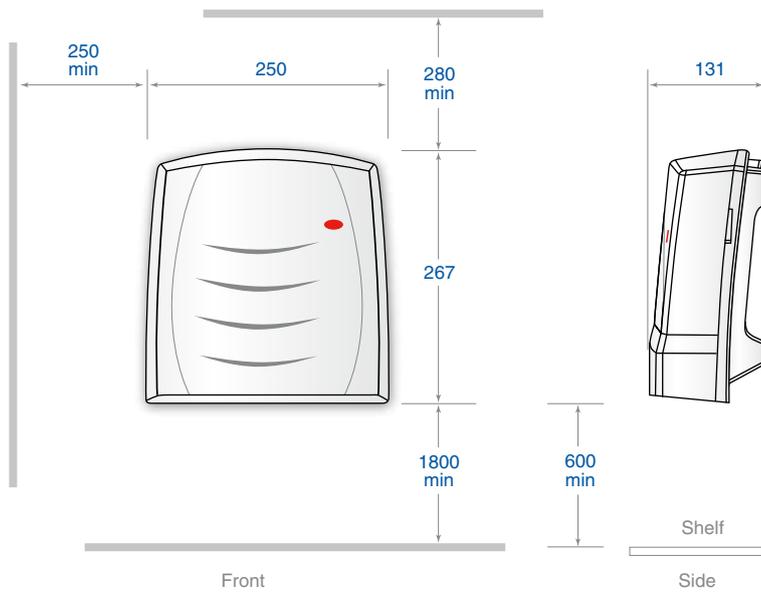
# Technical information

## FX main dimensions (mm)



Model	Loading (kW)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
FX20V	2.0kW	242mm	229mm	109mm	1.1kg
FX20VE	2.0kW	242mm	229mm	109mm	1.1kg
FX20VL	2.0kW	242mm	229mm	109mm	1.1kg

## FXIPX4 main dimensions (mm)



Model	Loading (kW)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
FX20IPX4	2.0kW	267mm	250mm	131mm	1.4kg
FX20EIPX4	2.0kW	267mm	250mm	131mm	1.4kg

**Colour**  
White.

### Installation

Two upper keyhole slots are provided together with a third fixing hole to secure the heater to the wall. The heaters are supplied without cable.

### IP rating

**FX models:** IPX2. Product should be mounted at a minimum height of 600mm if installed in zone three of a location containing a bath or shower (BS7671: 2001 section 601).

**FXIPX4 models:** splash-proof IPX4 for bathroom use.

### Electrical

All installations must be in accordance with current IEE wiring regulations.

### Construction

Double insulated plastic case. Moulded in flame retardant self extinguishing grade nylon.

### Safety protection

Manually resettable thermal overload cut-out and thermal fuselink provide double protection against overheating for any reason.



# The DTW range

## Features

- Low profile heating mat with 3mm cable depth.
- Gentle heat effect over large floor surface.
- Multiple mats can be connected as a system.
- Digital programmer with seven-day heat control and holiday function.
- Early start function automatically anticipates heat requirements.
- Particularly suited to ceramic and natural stone floors.

## Construction

- Twin core 3mm cable 160W/m<sup>2</sup>.
- Fully screened for wet areas.
- Removable mesh backing for tight spaces.

## Installation

- Suited to concrete and suspended floors.
- All installations require an RCD (Residual Current Device).
- Dimplex programmer supplied with floor probe.



DTW16S Electronic Control.



Add a touch of luxury to your home by fitting Dimplex under-tile heating – perfect for taking the chill off cold tiled floors. Ideal for kitchens, bathrooms, en suites or conservatories, under-tile heating provides radiant heat across the entire floor area, providing a feeling of warmth and comfort throughout the room.

## Mat dimensions and loadings

Model	Output at 230V	Area	Element depth	Width A	Length B
DTW1M	160W	1.0m <sup>2</sup>	3mm	500mm	2000mm
DTW1.5M	240W	1.5m <sup>2</sup>	3mm	500mm	3000mm
DTW2M	320W	2.0m <sup>2</sup>	3mm	500mm	4000mm
DTW3M	480W	3.0m <sup>2</sup>	3mm	500mm	6000mm
DTW4M	640W	4.0m <sup>2</sup>	3mm	500mm	8000mm
DTW5M	800W	5.0m <sup>2</sup>	3mm	500mm	10000mm
DTW6M	960W	6.0m <sup>2</sup>	3mm	500mm	12000mm

Each mat comes with adhesive roll and instruction for installation.

## Sizing guide

		Floor length					
		1m	1.5m	2m	3m	4m	5m
Floor width	1m	1 x DTW1M	1 x DTW1.5M	1 x DTW2M	1 x DTW3M	1 x DTW4M	1 x DTW5M
	1.5m	1 x DTW1.5M	1 x DTW2M	1 x DTW3M	1 x DTW4M	1 x DTW6M	1 x DTW6M + 1 x DTW1.5M
	2m	1 x DTW2M	1 x DTW3M	1 x DTW4M	1 x DTW6M	2 x DTW4M	2 x DTW5M
	3m	1 x DTW3M	1 x DTW4M	1 x DTW6M	3 x DTW3M	2 x DTW6M	3 x DTW5M
	4m	1 x DTW4M	1 x DTW6M	2 x DTW4M	2 x DTW6M	4 x DTW4M	4 x DTW5M
	5m	1 x DTW5M	1 x DTW6M + 1 x DTW1.5M	2 x DTW5M	3 x DTW5M	4 x DTW5M	5 x DTW5M

Note: Always choose heater packs that are slightly smaller than your requirement as only the mesh can be cut (not the wire). This chart is for illustrative purposes only.

Do not place under-tile heating under permanent fixtures (e.g. baths, kitchen cupboards).

## Controller dimensions and loadings

Model	Electrical rating	Accuracy	Width	Height	Depth	Total depth
DTW16S	15A	0.5°C	79mm	83mm	22mm	44mm

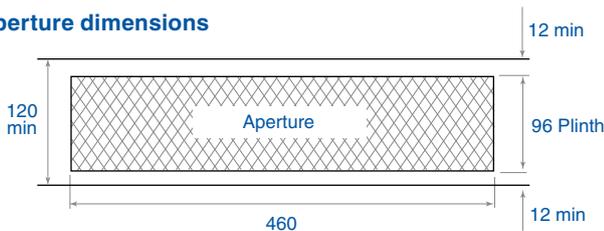
Always use a standard electrical junction box when connecting more than two mats.

# The BFH range

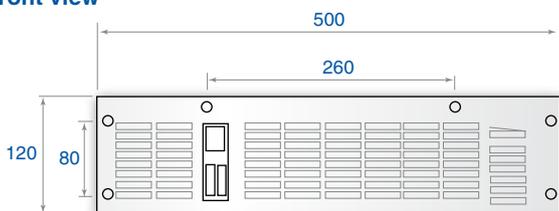


## Installation/dimensions (mm)

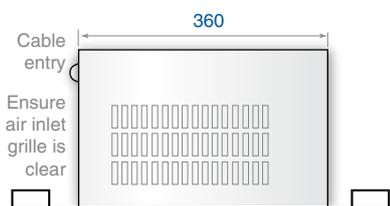
### Aperture dimensions



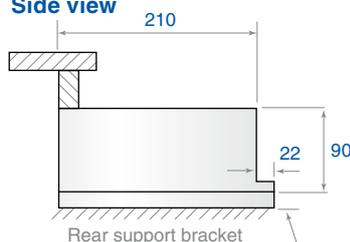
### Front view



### Plan



### Side view

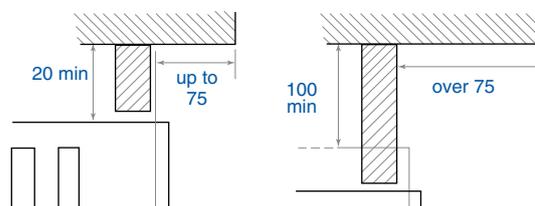


### Note:

If fitted in corner with adjacent cupboards to right hand side of heater, then a distance of at least 150mm must be maintained between the right hand end of the heater and the front of the adjacent cupboard door as shown.

### All models

If the overhang above the heater is greater than 75mm, then a distance of at least 100mm must be maintained between the overhang and the uppermost part of the heater.



## Features

- Variable thermostat for selection of room temperature.
- Maximum output of 2.4kW with switching for 800W and 1600W outputs.
- Model BFH24BWST has integral controls for ease of installation.
- Model BFH24BWSR is supplied with a remote switch panel, for positioning convenient to user.
- Neon indicator glows when the unit is switched on.
- Fan-only option for cool air circulation.
- All units are supplied with a choice of brown, white or stainless steel fascias to suit any plinth unit – see page 58 for details.

## Controls

### All models

Thermostat control knob on front of heater with a temperature range of approximately 5°C to 30°C. Lowest setting provides frost protection level.

### Remote control model

**BFH24BWSR:** switch panel – 13 amp fuse, double pole isolating switch, two single pole on/off switches controlling elements.

### Integral control model

**BFH24BWST:** built-in switches on heater fascia on/off, fan only. Three heat settings. Neon indicator.

### Elements – all models

Fully strung, helically wound, 800W and 1600W combine to give 2400W maximum output.

### Thermostat – all models

Bi-metal type, air temperature sensing.

### Electrical connections

- Remote control model: 2.5 metre six-core colour coded cable is supplied for connecting the heater to the switch panel. The installer must supply suitable conduit or trunking if required and a surface or flush mounting box for the switch panel. A list of suitable standard boxes is supplied with the heater.
- Integral control model: supplied with 2m, three-core cable.

### Thermal safety device

Interrupt supply to reset type.

# The BUH range

## Features

- Automatic low temperature cut-out thermostat.
- Choice of low and boost settings.
- Maximum output of 2.0kW (6824 Btu/h).
- Fan-only option for cool air circulation (boost or normal speed).
- The BUH will heat a room much faster than a traditional radiator many times its size, but will not occupy valuable wall space.
- Supplied with a choice of brown, white or stainless steel fascia to suit any plinth unit.

## Controls

- Built-in single pole winter/summer switch and two position boost/low switch.
- Low temperature cut-out thermostat set at 38°C.
- Facility for fan only operation.

## Connections

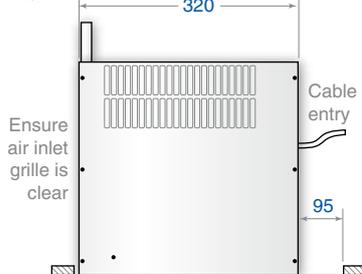
Pre-wired with 2m, three-core electrical cable. Supplied with flexible hoses and isolating valves to connect the unit's copper pipes to the flow and return pipes of the central heating system.



Model BUH with stainless steel fascia

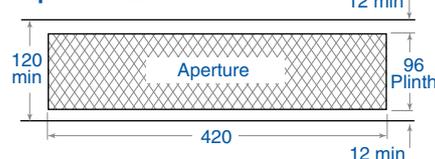
The hydronic BUH range is designed specifically for use on 'wet' heating systems. Small and compact, the BUH fits discreetly into the base of kitchen units, reception desks, shop counters and even stair risers.

## Plan



## Installation/dimensions (mm)

### Aperture dimensions



See website for full details.

Model	Fan speed		Power		Water Capacity
	Normal (Btu/h)	Watts	Boost (Btu/h)	Watts	
BUH19B/W/S	4372	1280	6830	2000	Consumption Watts 31 20

## Colour/finish for both BUH and BFH ranges

All units supplied with a choice of white, dark brown and stainless steel fascias.

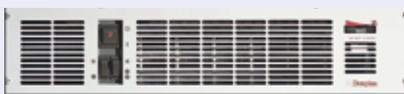
Stainless steel fascia.



Brown fascia.



White fascia.



Note: Above grille close-ups are for colour reference only. For actual grille, please refer to main photography.

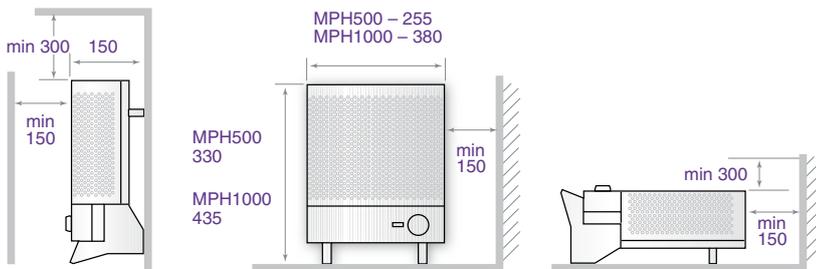
# Coldwatcher



Model MPH1000 and MPH500

Compact, durable heaters purpose designed for reliable frost protection. Suited to a wide range of applications including lofts, sheds, greenhouses and conservatories.

### Dimensions and clearances (mm)



### Features

- Energy saving thermostatic control with frost protection.
- Professionally tested against the British Standard for frost protection.
- 500W (MPH500) or 1000W (MPH1000) output.
- Safe for use in wet areas (IPX4).
- Freestanding or wall mounting.
- Neon mains indicator.
- 1.8m cable and plug supplied as standard.

### Technical information

#### Colour/finish

Willow white and birch grey trim.

#### Construction

- Rugged and long-lasting steel construction.

#### Safety Protection

- Professionally tested for frost protection to BS EN60675:1995.
- Supply interrupt and safety cut-out.



ECOT range

The Dimplex ECOT range of thermostatic tubular heaters is ideal for applications which require safe, low-wattage background heating for localised frost protection or as window de-misters.

# The ECOT range

### Features

- Thermostatic control.
- Fully splash-proof (IPX4 rated).
- Discrete wall/floor mounting brackets.
- Optional interlinking kit (TTHLK).
- Auto-reset thermal overload cut-out for safety.
- Even heat distribution across heater body.
- Complete with 1.5m of cable and fitted plug.
- White body, grey ends and wall brackets.
- Suitable for connection to time switch.

Model no.	Loading (W)	Height (mm)	Length (mm)	Depth (mm)	Weight (kg)
ECOT1FT	40W	81	408	80	0.5
ECOT2FT	80W	81	713	80	0.6
ECOT3FT	120W	81	1018	80	0.8
ECOT4FT	160W	81	1323	80	1.0
ECOT5FT	200W	81	1630	80	1.1
ECOT6FT	240W	81	1933	80	1.3

# The *contrast* range

With a wide choice of models, Dimplex convector heaters are ideal for use in any room (except bathrooms) where there is no heating or heat is required unexpectedly.

### Features

- Thermostatic control.
- Range of models with outputs from 2kW – 3kW.
- Unique forward facing grille designed for enhanced heat throw.
- Integrated 24-hour timer\*.
- Freestanding or wall mountable.
- DXC30FTi also features fan boost for extra heat.
- Supplied with feet, wall brackets, cable and fitted plug.
- Three-year guarantee.
- Colour: white/graphite grey.

\*Model specific.



Model	DXC20	DXC20Ti	DXC30	DX30Ti	DXC30FTi
Loading	2kW	2kW	3kW	3kW	3kW
Thermostat	✓	✓	✓	✓	✓
Heat selection	✓	✓	✓	✓	✓
Timer	X	✓	X	✓	✓
Turbo Fan	X	X	X	X	✓
Width wall mounted	575mm	575mm	695mm	695mm	695mm
Height without feet	350mm	350mm	350mm	350mm	350mm
Height with feet	418mm	418mm	418mm	418mm	418mm
Depth without feet	104mm	104mm	104mm	104mm	116mm
Depth when on feet	196mm	196mm	196mm	196mm	196mm
Width between wall mounting brackets	358mm	358mm	478mm	478mm	478mm
Weight (kg)	3.4	3.4	4.5	4.5	4.5

# The SCH5

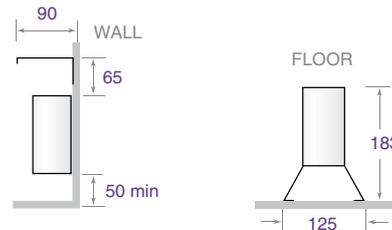
### Features

- Can be connected end to end to provide greater output, using an accessory kit (CH0471).
- Suitable for freestanding or wall mounting (if not wall mounted it must be fitted with accessory feet – CH9101).
- Can be controlled via additional thermostats/timers.
- Supply interrupt safety cut-out as standard.
- Finished in willow white.
- Accessories:
  - Feet: CH9101.
  - Linking kit: CH0471.



The SCH5 is slim, unobtrusive and designed primarily for wall mounting at skirting-board level. Used individually these heaters provide limited background heating for a variety of applications such as utility rooms.

### Clearances (mm)



Model	Loading	Height	Width	Depth*	Fixing dimension*
SCH5	500W	127mm	895mm	65mm	95mm x 753mm

\*When wall mounted.

# Portable fan heaters

For fast heat up over a localised area, these Dimplex fan heaters suit all needs.

**Most feature:**

- Choice of heat settings.
- Thermostatic control (except MCF15R/B).
- Three-year guarantee (except DXSTG25\* and MCF15R/B\*).

**Look out for advanced features including:**

- Motorised oscillation (DXSTG25).
- Electronic climate control (DXGLO2, DXSTG25).
- Optiflame® effect (MCF15R/B).
- Unique LED ring-lit technology (DXGLO2).
- Fun Footie (DXDFB2) or Daisy (DXDAI2) motifs.

\*One year only.



Model	Loading (kW)	Thermostat	Choice of heat settings	Mains neon	Cool blow	Dimensions (H x W x D) (mm)	Weight (kg)	Colour
Upright fan heaters								
DXUF20T/N	2	✓	✓	✓	✓	238 x 247 x 184	1.4	Light grey
DXUF30T/N	3	✓	✓	✓	✓	238 x 247 x 184	1.4	Light grey
DXGLO2	2	✓ Electronic	✓	✓ LCD	✓	278 x 230 x 158	1.5	Black
Studio G DXSTG25	2	✓ Electronic	✓	✓ LED	✗	825 x 263 x 263	4.4	Black
Microfire MCF15R/B	1.5	✗	✓	✗	✗	370 x 330 x 205	6.9	Red or Black
Flat fan heaters								
DXFF20TSN	2	✓	✓	✓	✓	114 x 253 x 245	1.2	White
DXFF30TSN	3	✓	✓	✓	✓	114 x 253 x 245	1.2	White
Daisy DXDAi2*	2	✓	✓	✓	✓	114 x 253 x 245	1.2	Pink
Footie DXDFB2*	2	✓	✓	✓	✓	114 x 253 x 245	1.2	White



\*While stocks last.

# OFC and OFX/MK1 ranges

## OFC range features

This range of oil-filled column radiators offers the perfect solution to portable heating.

They are strong, robust and durable with smooth castors to enable easy movement about the room, or from room to room as required. Each heater has thermostatic control and a choice of heat settings, giving greater economy.

- Outputs of 1.5kW or 2kW.
- Choice of heat settings and thermostat.
- 24-hour timer (OFC2000TI).
- Neon indicator.
- Cord storage.
- Tilt switch. Safety cut-out (auto reset).
- Supplied with castors, cable and fitted plug.
- Maintenance free design, sealed for life.
- Three-year guarantee.
- White finish.
- Thermostatically controlled with frost protection.
- TI models incorporate an electronic 24-hour timer.

## OFX/MK1 range features

These traditional 'panel' style radiators will offer many years' service. Choose from the original MK1 'dimple' design or the more modern OFX range.

- Energy efficient thermostatic control.
- Safe, reliable and requires little or no maintenance.
- Ideal for background or full heating.
- Supplied with fittings for both floor standing and wall mounting.
- Supplied with cable and fitted plug.
- White finish.
- Thermostatic control.
- OFX models also available with 24-hour timer.

## Accessories – MK1 range

Castor wheels, ball type, set of four, Part No. RC0291.

Castor wheels, plastic, set of four, Part No. RC9000.



Model OFC2000TI

Dimplex oil-filled radiators are suitable for both domestic and commercial premises, providing a balance of convected and radiant heat, just like a conventional radiator, but with the added advantage of 'plug-in' portability.

With a totally enclosed heating element, the design is very safe, reliable and does not dry the air like some convection or radiant heaters.



Mk1 Model C412



Model OFX1000



Model specific.

## Dimensions and loadings

Model	Loading (kW)	Heat settings	Timer	Thermostat	Height (mm)	Floor standing depth (mm)	Width (mm)	Weight (kg)
<b>OFC Range</b>								
OFC1500	1.5kW	2	x	✓	635	398	280	10.0
OFC2000	2.0kW	2	✓	✓	635	440	290	11.0
OFC2000TI	2.0kW	2	✓	✓	635	440	290	11.0
<b>OFX Range</b>								
OFX750, OFX750/TI	0.75kW	N/A	Y-TI	✓	500	230	741	9.5
OFX1000, OFX1000/TI	1.0kW	N/A	Y-TI	✓	586	230	854	12.9
OFX1500, OFX1500/TI	1.5kW	N/A	Y-TI	✓	670	230	1084	17.8
<b>MK1 Range</b>								
B48	0.75kW	N/A	x	✓	694	220	635	9.5
C412	1.0kW	N/A	x	✓	694	220	905	14.0
D416	1.5kW	N/A	x	✓	694	220	1170	18.5
E420	2.0kW	N/A	x	✓	694	220	1438	23.0

# The Cadiz eco range



Model CDE3ECC

The Cadiz Eco range of oil-free radiators offers the latest in innovative heating technology. Using unique micathermic heating technology, the Cadiz Eco heats a room 35% faster\* than oil-filled competitors and offers up to 30% energy saving\*.

Twin micathermic elements can work together or independently – ideal when the heater is positioned against the wall, as the heat is not absorbed by the wall and energy is not wasted. Being oil free, the Cadiz Eco is highly manoeuvrable, being 45% lighter than competitor products, and is also more environmentally friendly to recycle/dispose of than other traditional oil-filled radiators.

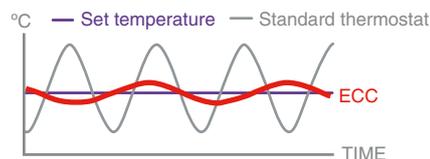


## Controls CDE2Ti

Variable thermostatic control and 24-hour programmable timer to enable daily heating needs to be programmed in advance. Manual override provides instant heat during an 'off' period without affecting the preset programmes.

## CDE2ECC and CDE3ECC

Remote controlled electronic climate control, which enables the temperature to be set either by the LCD panel or remotely to within 1°C increments (5°C to 35°C). This type of thermostat is more accurate than traditional manual thermostats. ECC versions also have a programmable timer and clock function.



Electronic Climate Control (ECC)

Model	CDE2Ti	CDE2ECC	CDE3ECC
Loading	2kW	2kW	3kW
Height	605mm	605mm	605mm
Width	614mm	614mm	770mm
Depth	250mm	250mm	250mm
Weight	8.4kg	8.4kg	11.1kg

## Features

- 35% faster warm up than oil-filled radiators\*.
- 30% energy savings heating a room\*.
- Electronic climate control with highly accurate thermostatic control (can be set in 1°C increments from 5°C to 35°C).
- Built-in electronic 24-hour timer (CDE2ECC and CDE3ECC).
- 24-hour programmable timer (CDE2Ti).
- Independently operating heating elements (mono/dual panel control).
- Range of models with outputs of 2kW or 3kW.
- Back-lit LCD display (CDE2ECC and CDE3ECC).
- Remote control (CDE2ECC and CDE3ECC).
- Integral cable tidy.
- Easy-glide castors.
- 5-year guarantee.

\*Based on heating a room – speed of warm up 10°C to 22°C – range average – Glen Dimplex test laboratory results 2010.

## Technical information

### Colour/finish

White/light grey.

### Cable/plug

All supplied with integral cable tidy so when the product is not in use the cable is hidden from view. Fitted with cable and 13-amp plug.

### Safety protection

Overheat safety cut-out.

### Assembly

No assembly required.



# The OFRC Eco range

## Features

- Patented oil-free technology offers 30% faster warm up and 25% energy savings.\*
- Variable thermostatic control.
- 24-hour programmable timer (OFRC20TiN).
- Range of models with outputs of 0.7kW to 2kW.
- Patented fin design (OFRC models) creates a balance of radiant and convected heat.
- Lighter than equivalent output oil-filled column radiators.
- Thermostatically controlled with frost protection.
- Choice of two heat settings on OFRC models.
- On/off switch.
- Integral cable tidy on OFRC models.
- Easy-glide castors on OFRC models.
- Oil-free design makes them easy to recycle and kind to the environment.
- Three-year guarantee.

\*Based on heating a room speed of warm up 10°C to 22°C, range average; Glen Dimplex test laboratory results 2010.



OFRC patented fin design



Model OFRC20/N

Thanks to their patented design, these oil-free heaters are not only 30% lighter than their oil-filled alternatives, they also offer 25% energy savings.\*

In addition, because they do not have any oil they are quiet running and there's no risk of leaks.

## Key specification

### Controls

All models are provided with thermostatic control, OFRC models have twin heat settings and an on/off switch.

### Cable/plug

Supplied with a cable and fitted 13-amp plug.

### 24-hour programmable timer

Model OFRC20TiN also has a 24-hour timer to enable daily heating needs to be programmed in advance.



OFRB7/N



Model	Loading	No. of fins	Height	Width	Depth	Weight
OFRB7N	0.7kW	6	446mm	194mm	296mm	5.4kg
OFRC15N	1.5kW	7	622mm	370mm	280mm	7.9kg
OFRC20N	2kW	9	622mm	430mm	280mm	9.8kg
OFRC20TiN	2kW	9	622mm	430mm	280mm	9.8kg

## The DXLWP range



Model DXLWP400

Model DXLWP400TI

Designed to provide background heating to applications where space is at a premium and low running costs are important.

Model	DXLWP400	DXLWP400TI	DXLWP800	ARLWP800TI
Loading	400W	400W	800W	800W
Height	530mm	530mm	530mm	530mm
Width	600mm	600mm	800mm	800mm
Depth – freestanding	200mm	200mm	200mm	200mm
Depth – wall mounted	30mm	30mm	30mm	30mm
Weight	4.6kg	4.6kg	5.9kg	5.9kg

### Features

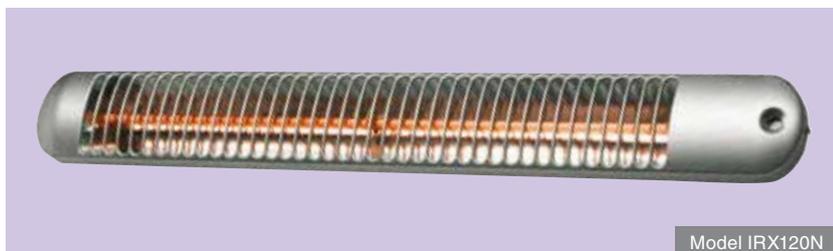
- Low wattage ensures the minimum energy consumption for low running costs.
- Feet included for freestanding use.
- Choice of heat settings.\*
- 24-hour programmable timer.\*\*
- On/off switch.
- Three-year guarantee.
- Colour: white.
- Overheat safety cut-out.
- Freestanding or wall mounted.

\*ARLWP800Ti model only.

\*\*TI models only.

## INFRA-RED HEATERS

## The IRX range



Model IRX120N

The IRX range of infrared wall heaters is a safe, practical source of heat in bathrooms, kitchens, and work areas – anywhere where fast localised heating is required.

### Controls

Built-in double-pole pull-cord switch.

### IP rating

All models are IP24 rated.

### Elements

Spiral element(s) encased in transparent insulating silica sleeves.

### Clearances

- 600mm to curtain
- 300mm to wall

### Reflector

Angle adjustable on installation and lockable.

### Features

- Choice of heat settings on IRX200N.
- Designed to provide rapid beamed warmth.
- All models have adjustable beam angle to direct heat where it's needed.
- All models are IP24 rated meaning they are suitable for permanent installation internally or externally.
- Pull-cord operation.
- Silver grey finish.
- One-year guarantee.

Model	Loading (kW)	Length (mm)	Height (mm)	Depth (mm)	Weight (kg)
IRX50N	0.5	764	114	92.5	2.0
IRX120N	1.2	764	114	92.5	2.0
IRX200N	2	764	114	92.5	2.1

# The Studio range

## Features

- Choice of three models.
- Wall mounted.
- Warming fire glow illumination, even when heating elements are switched off.
- Three heat settings available on all models.
- Choice of models with 2kW or 3kW output.
- Choice of styles: model 842 in white, 842S and 843S with a wood-effect surround.
- Permanent secure wall mounting.



Model 842

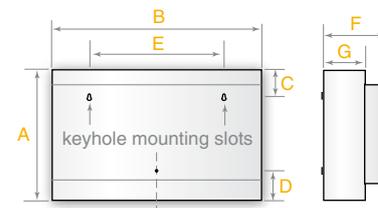
These fires provide a comfortable source of instantaneous radiant heat just like the warmth of the sun.

## Dimensions and loadings

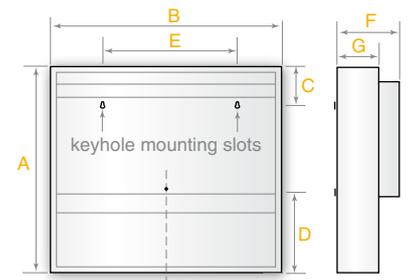
Model	Output (elements)	Output (effect)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Weight
842	1980W	60W	290	470	53	52	305	140	95	5kg
842S	1980W	120W	470	505	90	190	305	140	95	7.5kg
843S	3000W	120W	470	810	90	190	610	140	95	10.8kg

## Dimensions and fixing positions (mm)

### Model 842

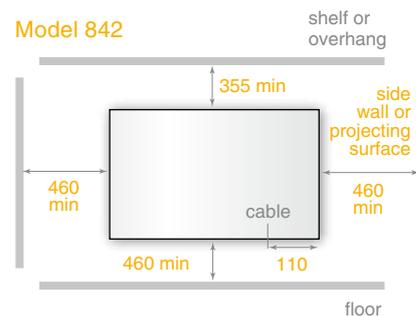


### Models 842S, 843S

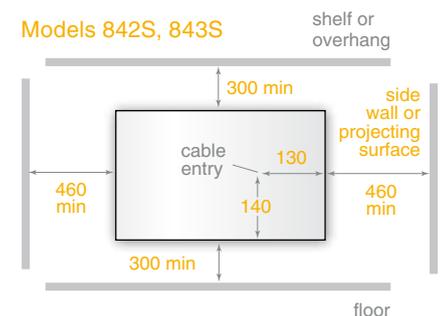


## Clearances

### Model 842



### Models 842S, 843S



Model 842S

## Fuel-effect fires



Lymington Model LYM28E

Our range of fuel effect fires is ideal for contracts or for someone looking for a more traditional design.



Optima model 314CHE



Theme model 316CHE



Lyndhurst model 430RCE/B



Yeominster model YEO20

### Dimensions and loadings

Model	Total output (kW)	Height (mm)	Width (mm)	Depth (mm)	Wall mounted/ Free-standing
Lymington LYM28E	2.5	690	720	275	Free-standing
Optima 314CHE	2.0	540	775	215	Wall mounted/ Free-standing
Yeominster YEO20	2.0	395	631	214	Free-standing
Lyndhurst 430RCE/B	2.5	680	710	225	Free-standing
Theme 316CHE	2.8	610	775	265	Free-standing

With a Dimplex electric fire you can enjoy the comfort and cosiness of a gas fire – but at the flick of a switch. Installation is easy and there is no requirement for annual servicing. Dimplex electric fires come complete with a fitted plug, and the products featured on this page simply fit flush against the wall. This is just a small selection of our wide range of fires and suites – visit [www.dimplex.co.uk/fires](http://www.dimplex.co.uk/fires) for full details. Also see pages 68-69 for an overview of our amazingly realistic Optiflame, Opti-myst and Opti-V effects.

#### Lymington Model LYM28E

- Optiflame® coal effect.
- 2kW radiant heat, plus 0.5kW convected heat.
- ‘Economiser’ control.
- Choice of heat settings.
- Flame effect can be used independently of heat source (130W power consumption).
- Finished in matt black with brass effect trim.

#### Optima Model 314CHE

- Freestanding or wall mounted.
- Attractive cherry finish surround.
- 2kW of radiant heat.
- Flickering flame coal effect.

#### Theme Model 316CHE

- Attractive cherry finish surround.
- Flickering flame coal effect.
- 2kW of radiant heat.
- 0.8kW convector with variable thermostat for background warmth.

#### Lyndhurst Model 430RCE/B

- Stylish black canopy.
- Flickering flame log effect.
- 2kW of radiant heat.
- 0.5kW of thermostatically controlled convected heat.

#### Yeominster Model YEO20

- Traditional design finished in black with brass effect detail.
- 2kW radiant heat.
- Two heat settings.
- Moulded log effect and flickering flame impression.

# Optiflame® range overview

## Optiflame®

Optiflame is our original and the world's best-selling electric flame effect, and features on over 40 fires in the Dimplex range.

To see our full range of electric fires visit [dimplex.co.uk/fires](http://dimplex.co.uk/fires)

With a Dimplex electric fire you can enjoy the comfort and cosiness of a gas fire – but at the flick of a switch. Installation is easy as there are none of the cost and siting constraints associated with flue and gas connection, plus there is no requirement for annual servicing. Dimplex electric fires also come complete with a fitted plug, and many don't require a fireplace – you simply plug-in and go.\*



### Inset fires

In a range of traditional and contemporary styles, Dimplex's inset fires will fit virtually all standard fireplace openings or suitable fire surrounds. Additionally, many models can also be used freestanding with the spacer kit provided, allowing them to fit flat to the wall. With a choice of features and finishes, there's a Dimplex inset to suit any living room.



### Electric stoves

The impressively authentic range of Dimplex electric stoves offers a range of modern and traditional styled designs, that can be used almost anywhere.

\*Wall mounted fires require some installation. Opti-myst requires water to be added.



### Wall-mounted fires

These high quality electric fires are the perfect, modern addition to any living space and are particularly ideal where floor space is limited.



### Free-standing fires

This range of traditional and contemporary styled electric fires fits straight from the box, flat to the wall, for a no-fuss, hassle-free installation.

# Opti-myst® and Opti-V® range overview

## Inset fires

With modern and traditional styles, the Opti-myst inset fires are available with a choice of styles and finishes, including brass, antique brass, chrome and black. These fires include 1kW and 2kW heat selection.



## Electric stoves

Our range of elegant free-standing stove effect fires can bring warmth and realism to any room. With 1kW and 2kW heat selection, models also include opening doors to view the stunning effect in more detail.



## Wall-mounted fires

With a choice of stunning wall-mounted fires to choose from, these products will bring a touch of luxury to any room.



Model PGF-10 wall insert



Model PGF-20 wall insert



Opti-myst is a stunning flame effect from Dimplex. Deceptively real, it will captivate you from the moment you see it. The fully three-dimensional flame effect uses ultra-fine water mist that is illuminated to create 'flames' and 'smoke', making it the most realistic electric flame effect in the world.

To see our full range of electric fires visit [dimplex.co.uk/fires](http://dimplex.co.uk/fires)



## Opti-V®

The most unbelievable electric flame effect yet. Using a unique and patent-protected combination of real fire footage displayed on a high-definition LCD screen and a clever illusory technique, the Opti-V renders scenes of flickering flames dancing on a fuel bed with a three-dimensional depth of field.

# The AC range

## Features

- Twin heat settings and fan-only mode help match output to changing heating demands, keeping a check on energy use.
- New recessed model with wall-mounted controller and ceiling grille included (AC3CN).
- Handheld remote control model for extra convenience (AC3RN).
- Can be used as a high-level fan heater (AC3CN).
- Adjustable airflow on AC3N, AC3RN, AC45N and AC6N.
- Model AC3CN comes as standard with wall control over full heat, half heat and fan-only settings.
- Model AC6N designed for double doorways.



Model AC3N

Bringing modern styling to the ever popular Dimplex AC range, these over door heaters provide powerful and effective heating above entrances to shops, offices and almost any small doorway.

Because they warm the door entrance area, they often allow doors to remain open for longer, promoting increased business, and can equally be used as high-level fan heaters where the need arises.

For extra convenience, the AC3RN model gives remote control operation and a recessed model AC3CN is available for installation in suspended or plaster ceilings where 'hidden' installation is required.



Model AC3CN in situ



Model AC6N

## Controls

### AC3N, AC45N and AC6N

Integrated control over full heat, half heat or fan-only modes.

### AC3RN

Controls as AC3N with additional wireless control over on/off switching via handset included. Maximum range 8m.

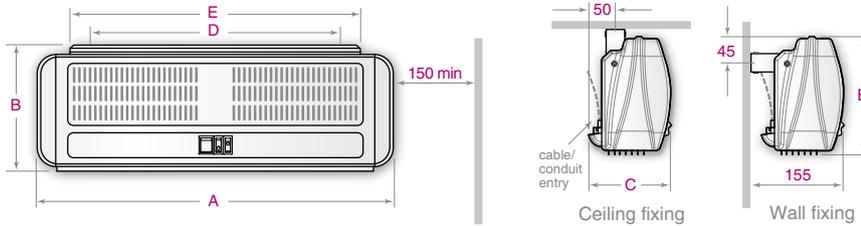
### AC3CN

Remote control via supplied wall-mounted controller over full heat, half heat and fan-only operation (no cable supplied).

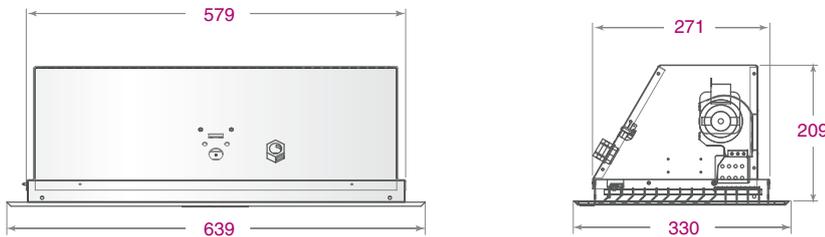
# Technical information

## Main and fixing dimensions (mm)

AC3N, AC3RN, AC45N and AC6N surface models



AC3CN recessed ceiling model



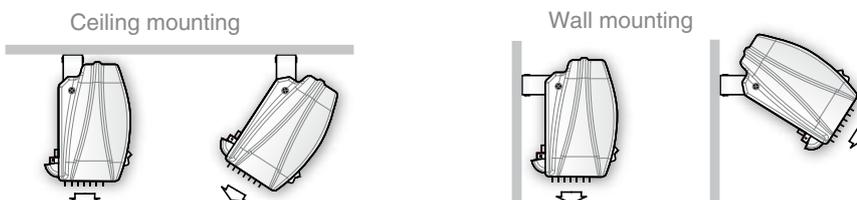
Model	AC3N	AC3RN	AC45N	AC6N	AC3CN (recessed)
Max recommended mounting height	2.3m	2.3m	2.3m	2.3m	2.3m
Outputs	1.5kW/3.0kW	1.5kW/3.0kW	2.25kW/4.5kW	3.0kW/6.0kW	1.5kW/3.0kW
Voltage	230V~1pn	230V~1pn	230V~1pn	230V~1pn	230V~1pn
Noise dB (A)*	50.5	50.5	52.0	57.0	52.0
Air volume m³/h	212m³/h	212m³/h	248m³/h	446m³/h	175m³/h
Max air speed m/s*	5.0	5.0	5.0	5.5	3.2
Length (A)	605mm	605mm	605mm	905mm	595mm
Height (B)*	200mm*	200mm*	200mm*	200mm*	184mm
Depth (C)	135mm	135mm	135mm	135mm	295mm
Weight	5.1kg	5.3kg	5.2kg	7.2kg	8.7kg
Fixing points (D)	424mm	424mm	424mm	721mm	500mm
Bracket length (E)	492mm	492mm	492mm	788mm	–
Approvals	BEAB				

\*Effective airflow with cover fitted. \*Add 14mm for total installed height (not AC3CN).

†Measured 3m from the product, outside the airstream.

## Airflow adjustment

AC3N, AC3RN, AC45N and AC6N



## Construction/finish

1 AC3N, AC3RN, AC45N and AC6N.

Pressed steel case with ABS end caps finished in durable white with contrasting switches.

2 AC3CN.

Pressed steel heater with a hinged linear white grille. Suitable for installation in plaster or suspended ceilings.

## Technical – all models

All models use high power tangential blower units and effective wire-stitched elements.

## Installation

1 AC3N, AC3RN, AC45N and AC6N.

Designed for wall or ceiling installation.

2 AC3CN.

Designed for installation into plaster or suspended ceilings.

## Electrical connection

No cable supplied, designed for permanent connection to the fixed wiring of the premises through an adjacent double-pole switch or conduit connection.

## Safety protection

1 AC3N, AC3RN, AC45N, AC6N.

Electrical hold reset cut-outs.

2 AC3CN.

2x manual reset cut-outs.

# The CAB range

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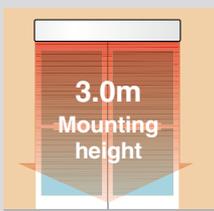
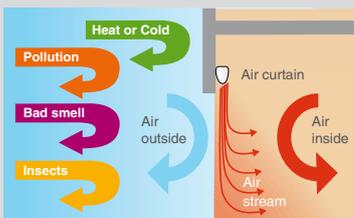
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## Features

- Surface and recess models.
- Electric, water and ambient models available.
- Modular design for wide entrances.
- Electronic control system.
- Easy-fit bracket included as standard.
- Adjustable air discharge.\*
- Reversible water coils.
- Auto door mode.\*\*
- BEMS/BMS connectivity.
- Temperature regulation.\*
- HVAC interlock.
- Dual door control.\*

\*Model specific.

\*\*Requires additional door contact (not supplied).



Recessed unit



Model CAB20E

A comprehensive range of electronically controlled air curtains suited to commercial applications. The CAB range provides a powerful curtain of air across an open door to prevent warm or cool air escaping, minimising energy costs, while maximising comfort and convenience. All models can be joined together and operated from one controller for maximum flexibility.

Model	Max airstream width (m)	Air volume (m <sup>3</sup> /h)	Heat output (kW)	Dimensions L x H x D (mm)	Weight (kg)
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### Surface mounted

Electrically heated					
CAB10E	1.0	1200	4.5/9.0	1065 x 262 x 321	20.5
CAB15E	1.5	1800	6.75/13.5	1569 x 262 x 321	29.0
CAB20E**	2.0	2400	9.0/18.0	2130 x 262 x 321	41.0
Water heated (at 82/71°C – LPHW)					
CAB10W	1.0	1100	9.0	1065 x 262 x 321	18.0
CAB15W	1.5	1700	13.5	1569 x 262 x 321	24.5
CAB20W**	2.0	2200	18.0	2130 x 262 x 321	36.0
Ambient and cold store					
CAB10A	1.0	1200	n/a	1065 x 262 x 321	15.5
CAB15A	1.5	1800	n/a	1569 x 262 x 321	21.5
CAB20A**	2.0	2400	n/a	2130 x 262 x 321	31.0

\*\*Comprises two units.

### Recess mounted

Electrically heated					
CAB10ER	1.0	1200	4.5/9.0	1224 x 267 x 639	26.0
CAB15ER	1.5	1800	6.75/13.5	1724 x 267 x 639	35.0
CAB20ER**	2.0	2400	9.0/18.0	2450 x 267 x 639	54.5
Water heated (at 82/71°C – LPHW)					
CAB10WR	1.0	1100	9.0	1224 x 267 x 639	26.0
CAB15WR	1.5	1700	13.5	1724 x 267 x 639	35.0
CAB20WR**	2.0	2200	18.0	2450 x 267 x 639	54.5
Ambient and cold store					
CAB10AR	1.0	1200	n/a	1224 x 267 x 639	26.0
CAB15AR	1.5	1800	n/a	1724 x 267 x 639	35.0
CAB20AR**	2.0	2400	n/a	2450 x 267 x 639	54.5

\*\*Comprises two units.

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# The DAB range



Model DAB10ER

Designed to suit larger commercial entrances or installations requiring a more powerful air curtain, the DAB range has all the features of the smaller CAB range with uprated performance for mounting up to 4m from the floor. With high power motors and electronic control, these air curtains are built to provide maximum coverage at the door, while minimising energy used through adjustable controls. They can be controlled individually or from one point as a system of air curtains together.

### Features

- Surface and recess models.
- Electric, water and ambient models available.
- Modular design for wide entrances.
- Electronic control system.
- Easy-fit bracket included as standard.
- Adjustable air discharge.\*
- Reversible water coils.
- Auto door mode.\*\*
- BEMS/BMS connectivity.
- Temperature regulation.\*
- HVAC interlock.
- Dual door control.\*

\*Model specific.

\*\*Requires additional door contact (not supplied).

Model	Max airstream width (m)	Air volume (m³/h)	Heat output (kW)	Dimensions (mm) L x H x D (mm)	Weight (kg)
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### Surface mounted

#### Electrically heated

DAB10E	1.0	3000	6.0/12.0	1057 x 360 x 390	26.5
DAB15E	1.5	4000	9.0/18.0	1557 x 360 x 390	35.0
DAB20E**	2.0	6000	12.0/24.0	2114 x 360 x 390	53.0

#### Water heated (at 82/71°C – LPHW)

DAB10W	1.0	2500	12	1057 x 360 x 390	25.0
DAB15W	1.5	3500	18	1557 x 360 x 390	32.0
DAB20W**	2.0	5000	24	2114 x 360 x 390	50.0

#### Ambient and cold store

DAB10A	1.0	3000	n/a	1057 x 360 x 390	21.5
DAB15A	1.5	4000	n/a	1557 x 360 x 390	27.5
DAB20A**	2.0	6000	n/a	2114 x 360 x 390	43.0

\*\*Comprises two units.

### Recess mounted

#### Electrically heated

DAB10ER	1.0	3000	6.0/12.0	1224 x 337 x 667	31.5
DAB15ER	1.5	4000	9.0/18.0	1724 x 337 x 667	43.0
DAB20ER**	2.0	6000	12.0/24.0	2448 x 337 x 667	63.0

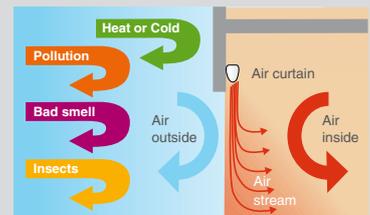
#### Water heated (at 82/71°C – LPHW)

DAB10WR	1.0	2500	12	1224 x 337 x 667	31.5
DAB15WR	1.5	3500	18	1724 x 337 x 667	43.0
DAB20WR**	2.0	5000	24	2448 x 337 x 667	63.0

#### Ambient and cold store

DAB10AR	1.0	3000	n/a	1224 x 337 x 667	31.5
DAB15AR	1.5	4000	n/a	1724 x 337 x 667	43.0
DAB20AR**	2.0	6000	n/a	2448 x 337 x 667	63.0

\*\*Comprises two units.



Model DAB10E



# The IAB range

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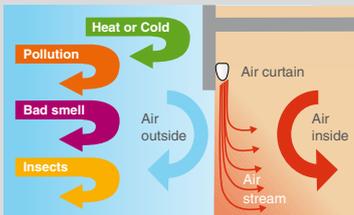
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## Features

- Super high output airstream for doors up to 6m high.
- Electric, water and ambient models available.
- Modular control system (up to 10 linked units) to be controlled as one.
- High-power centrifugal blowers for large air movement.
- Electronic control system.
- Auto door mode.†
- BEMS/BMS connectivity.

†Requires additional door contact (not supplied).



A range of air curtains designed for industrial applications and areas where the highest performance is required to protect the open door.

With highly durable components offering long life and maintenance-free operation, these units can be specified with confidence and trouble-free long service in mind.

Often found in large warehouses, factories and distribution centres, these super high power air curtains can cut running costs of a busy facility considerably, while improving the working environment too.

Model	Electrically heated		Water heated (at 82/71°C – LPHW)		Ambient and cold store	
	IAB10E	IAB15E	IAB10W	IAB15W	IAB10A	IAB15A
Max door width	1.0m	1.5m	1.0m	1.5m	1.0m	1.5m
Max mounting height	6m					
Height	700mm					
Length	1100mm	1600mm	1100mm	1600mm	1100mm	1600mm
Depth	600mm					
Weight	80kg	120kg	80kg	120kg	80kg	120kg
Heat output	12/24kW	18/36kW	27kW	41kW	n/a	n/a
Voltage	400V~3PN	400V~3PN	230V~1PN	230V~1PN	230V~1PN	230V~1PN
Supply rating (A)*	41.0	61.0	6.0	9.0	6.0	9.0
Noise dB (A)** (high/low airflow)	70/62	73/63	70/62	73/63	70/62	73/63
Air volume m³/h	4500	6900	4500	6900	4500	6900
Max airflow m/s	18					

\*Amps per phase. \*\*Measured 3m from product, outside airstream.

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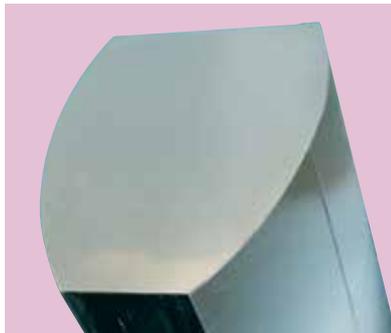
# The ARC range



Model ARC20E

Designed to be at home in the most prestigious corporate entrances and reception areas, the ARC range of architectural air curtains suits the most exacting requirements of modern design.

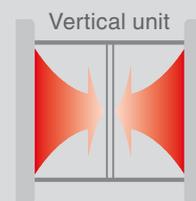
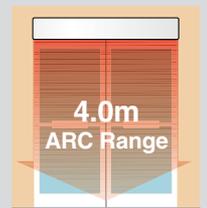
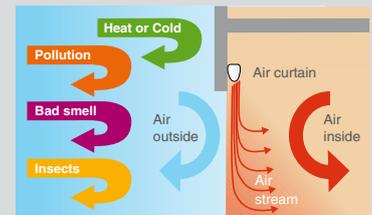
Offered for installation above the door or either side as vertical units, they can be supplied to bespoke requirements. Finished to a high standard in either brushed stainless steel, mirror polished stainless steel or coloured to customer preference.



## Features

- Models for 3m horizontal, 4m horizontal or vertical mounting.
- Electric, water and ambient models available.
- Choice of finish including stainless steel.
- Low water temperature system compatible.
- Electronic control system as standard.
- Auto door mode.\*\*
- BEMS/BMS connectivity.
- Multiple units can be linked together as a system and operated from the controller supplied as standard.

\*\*Requires additional door contact (not supplied).



Model	ARC10	ARC15	ARC20
	Max horizontal mounting height 3.0m or 4.0m		
Length*	1200mm	1700mm	2200mm
Height*	450mm	450mm	450mm
Depth*	360mm	360mm	360mm
Weight*	55-65kg	82.5-95kg	110-130kg
Finish*	Brushed or polished stainless steel/colour coded		

\*Sample dimensions only: please call us for full technical details and to arrange for further discussion with your Dimplex representative.

# The CFH range

## Features

- Digital central control system gives close time and temperature control for optimised energy usage.
- Built-in electronic control system for operation over 10 heaters (maximum).
- Accurate digital temperature control.
- Seven-day timer/programmer.
- Heat output control.\*
- Powerful centrifugal blowers for effective performance.
- Fan overrun facility for maximum heater efficiency.
- Easy install 'plug and play' heater connections.
- Multi-directional wall-mounting brackets.
- Heavy-duty corrosion-resistant case.

\*All CFH models are controlled via the additional digital CFCH Controller.



A range of rugged, high-power electronic fan heaters designed to offer a full heating system to larger industrial environments, these wall-mounted heaters use powerful centrifugal blowers for a faster airflow in the most challenging of environments.



Model CFH120

Offered in 6kW, 9kW or 12kW, the CFH range can be controlled individually or as a system of heaters with the additional wall-mounted digital remote (CFCH), with cool blow, heat output and thermostatic control available.

All models in the range can be simply linked together using CAT 5e data cable, and have multi-directional wall-mounting brackets for the ultimate in ease of installation and control.

## Controls

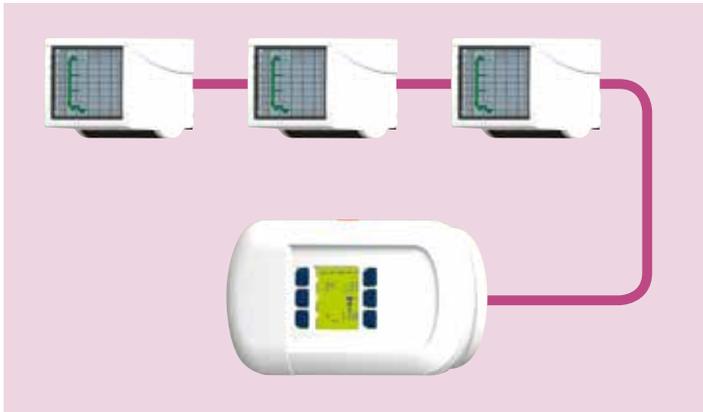
The CFCH controller is the hub of the system. With accurate electronic heat control, a full seven-day day timer and programmer with a selectable five-hour run-back feature for flexibility of use.



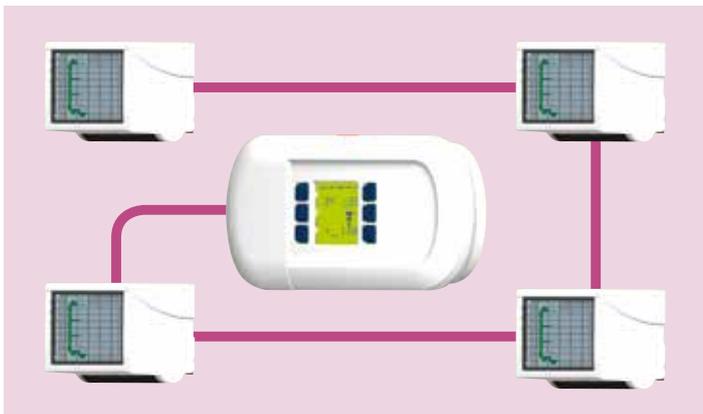
Model	Max no. heaters	Heater communication	Supply	Height A	Width B	Depth
CFCH	10	CAT 5e ethernet / RJ45	220-240V~1PN	113mm	217mm	49mm

# Technical information

## Installation options – system design

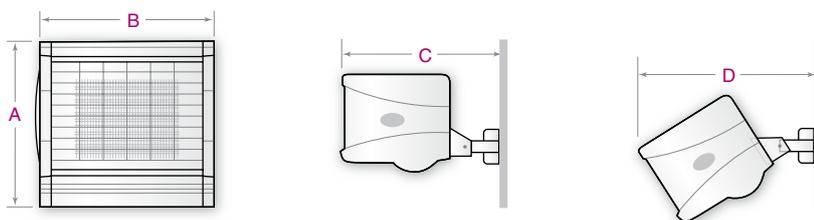


By grouping units together a large output can be gained in a single area.



By spacing units throughout the building, a centrally controlled heating system is possible.

## Heater dimensions



Installed range – electronic units											
Model	Output	Supply	Airflow	Throw	Noise level	Air-off temp*	Height A	Width B	Depth C	Max depth D	Weight
CFH60	6kW	220-240V~1PN 380-415V~3PN	900m <sup>3</sup> /h	10m	55dB(A)	40°C	360mm	386mm	565mm	630mm	13.5kg
CFH90	9kW	220-240V~1PN 380-415V~3PN	900m <sup>3</sup> /h	10m	60dB(A)	55°C	360mm	386mm	565mm	630mm	14.5kg
CFH120	12kW	220-240V~1PN 380-415V~3PN	900m <sup>3</sup> /h	10m	60dB(A)	65°C	360mm	386mm	565mm	630mm	14.5kg

\*Calculated at 21°C.

## Construction/finish

Corrosion-resistant body with durable finish colour matched to the CAB and DAB air curtain. Finned/sheathed heating elements with rigid steel outlet grille vanes to direct airflow. Colour: white casing with black grille.

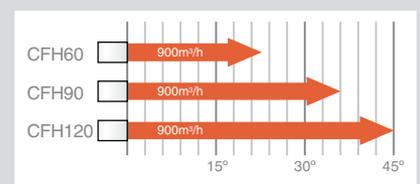
## Controls

- No onboard controls.
- All CFH models are controlled via the additional CFCH controller.

## Safety

Manual reset cut-out.

## Air temperature rise from CFH models



# The CF range

**Features\***

- Cool blow, half heat and full-heat settings.
- Integral thermostat (CFP30).
- Remote wall-mounted heater control (CFS range).
- Single or three phase connection (CFS60 only).
- Multi-directional wall bracket (CFS range).

**Construction\***

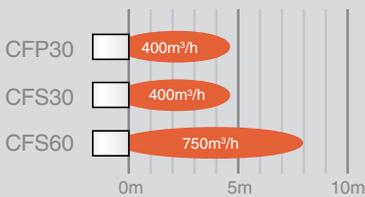
- Heavy-duty corrosion-resistant case.
- Rugged styling with 'chunky' go-anywhere appearance and striking two-tone finish (CFP30).

**Safety**

- Electrical reset cut-out (CFS30, CFP30).
- Manual reset cut-out (CFS60).

\*Model specific.

**Airflow performance**



Model CFS30

A range of robust fan heaters suited for general purpose commercial and light industrial use.

**CFS30 and CFS60**

The CFS wall mounted models are offered in either 3kW or powerful 6kW versions. They come supplied with a separate wall-mounted heater control switchplate for all functions, and use a standard double pattress back box for ease of installation.

**CFP30 mobile heater**

The CFP30 mobile heater is supplied with a rugged floor stand and handle, and has integral thumbwheel control over heat settings, cool blow and thermostatic temperature control.



Model CFP30

Model	Output kW	Supply	Airflow	Throw (m)	Noise level	Air-off Temp <sup>#</sup>	Height (mm)	Width (mm)	Depth (mm)	Weight kg
CFS30*	3	220-240V~1PN	400m³/h	4.5	37dB(A)	35°C	262	306	495	7.6
CFS60*	6	220-240V~1PN 380-415V~3PN	750m³/h	8.0	50dB(A)	45°C	360	386	565	13.5
CFP30	3	220-240V~1PN	400m³/h	4.5	37dB(A)	35°C	448	372	347	7.6

\*Controller included. <sup>#</sup>Calculated at 21°C.

# The PFH range



Model PFH30

Perfect for use in garages, workshops, offices, store rooms or almost any small commercial situation, these heaters provide an effective and economical heating solution. The PFH30 has all controls on board, while the PFH30R has a wall-mounted controller included.

Model	PFH30	PFH30R
Heat output	3.0kW	3.0kW
Voltage	230V~1PN	230V~1PN
Airflow m <sup>3</sup> /h	200	200
Noise dB (A)*	24	24
Max air temp**	58°C	58°C
Thermostat	5°C-35°C	5°C-35°C
Height	378mm	378mm
Width	230mm	230mm
Depth	226mm	226mm
Weight	1.3kg	1.6kg
Approvals	BEAB	

\*Measured at 1m. \*\*Measured at 0.5m.

**Features**

- Thermostatic control standard on all models.
- Curved heater design with low-noise performance.
- Designed for wall mounting between 1.8m–2.3m from floor.
- Multi-directional wall bracket giving 40° vertical and 120° horizontal adjustment.
- Single screw angle adjustment.
- Remote control supplied as standard with thermostat and full heater control\*.
- All models have cool blow ‘air circulation’ setting.
- Grey finish.

\*Model specific.

Models PFH30 and PFH30R



# The OPH range

## Features

- High-quality aluminium case finished in two-tone silver.
- 1.3kW Quartz infrared model.
- 2.0kW Quartz halogen model with 'gold' lamp for extended performance.
- Designed and rated for permanent external installations.
- Instant heat – avoiding the need for expensive pre-heating.
- Costs as little as 20p per hour† to run.
- 'In-situ' lamp replacement for easy maintenance.
- Fitted guard included.
- Optional mounting kit for hanging or pole/mast mounting (OPHMK1).
- Approvals: CE, IP24 rated for outdoor use.

†Dependent on tariff.

## Construction

Aluminium case with specular quality, electrochemically brightened aluminium reflector and fitted chromium plate mild steel guard.

## Elements

OPH13 – Quartz infrared spiral element in transparent silica sleeve.

OPH20 – Quartz halogen gold coated tungsten element in glass sleeve.

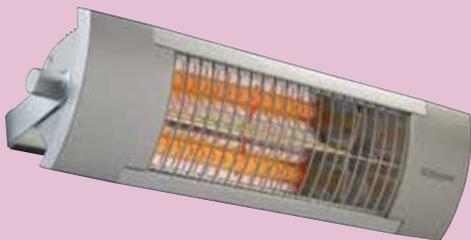
## Passive infrared sensor



Now available to purchase with the heater. See page 82 for more details.

To order heater and sensor as single pack, order OPH13PIR or OPH20PIR.

Model OPH13



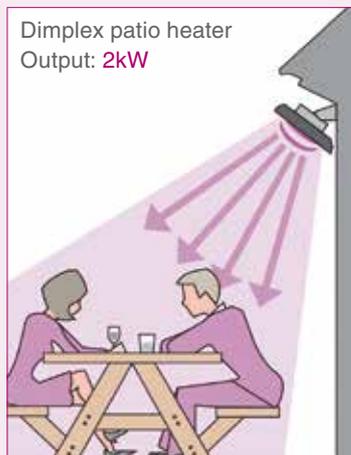
Model OPH20

With a high-quality aluminium case and a choice of outputs, these outdoor patio heaters provide long-lasting performance with an attractive modern design, perfect for outdoor dining areas or heating for smokers.

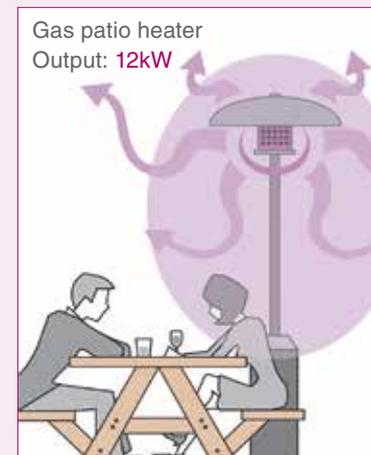
They save energy compared to a gas patio heater and can be used with PIR sensors, touch sensors or push switches for the lowest running costs.

Model	OPH13	OPH20
Heat output	1.3kW	2.0kW
Supply	230V~1PN	230V~1PN
Dims (H x W x D mm)	159 x 594 x 144	159 x 594 x 144
Element	Infra-red	Halogen
Min mounting height	1.8m	1.8m
Rec mounting height	2.0-2.3m	2.0-2.3m
Heat throw at 2m mounting height*	1.7m	2.0
Heat spread at 2m mounting height*	3.0m	3.5

\*Heater mounting angle 45° giving 160W/m² output.



Direct efficient heating



Wasteful inefficient heating

# The QXD range



Model QXD3000

Quartz heaters are the energy-efficient choice for heating areas where it would not be practical or cost effective to raise the overall ambient temperature. Used with auto controls, they provide a low-cost heating solution for hard to heat zones.

Model	Input loading	Number of lamps	Electrical supply*	Height	Length	Depth (inc. bracket)
QXD1500	1.5kW	1	230-240V~1PN	256mm	440mm	310mm
QXD3000	3.0kW	2	230-240V~1PN	380mm	440mm	310mm
QXD4500	4.5kW	3	230-240V~1PN	506mm	440mm	310mm

Model	Weight in kg	Minimum height	Recommended height#	Lamp guard	Product guard
QXD1500	3.7kg	2.1mm	2.5mm	QX9310	**
QXD3000	4.3kg	2.5mm	3.5mm	QX9311	**
QXD4500	5.8kg	3.0mm	4.0mm	QX9312	**

\*Where used, a type 3 or 'C' MCB with a tripping co-efficient of 7-10 times rated current should be used. #Calculated at medium intensity (95W/m<sup>2</sup>). \*\*Available from Aiano on (tel) 020 7987 1184 email: sales@aianos.co.uk website: www.aianos.co.uk

### Instant heat – where it's needed

- By producing a highly directional beam of heat (just like the Sun), these heaters only use the minimum energy needed to heat the chosen area without waste.
- The short wavelength at which the heater emits energy ensures maximum effect is felt instantly, making them perfect for infrequently used areas or where pre-heating a whole building is impractical.
- Additional auto controls make these heaters economical for 'zone' heating within factories and warehouses, and for 'on demand' heating in community halls and public buildings where usage may be unpredictable.
- Radiant heat effect allows high heat-loss buildings to be heated.

### Features

- Ruby sleeved halogen lamp for warm red glow.
- Compact dimensions with universal mounting bracket.
- Can be used with PIR passive sensors, touch sensors and push switches for auto control.
- Silent operation.
- Energy efficient – only heats the area that needs heating, not the whole building.

### Construction

- Powder-coated steel case finished in high temperature matt black.
- Specular quality electrochemically-brightened aluminium.
- Halogen lamp incorporating Tungsten element.

### Passive infrared sensor



Now available to purchase with the heater. See page 82 for more details.

To order heater and sensor as a single pack, order QXD1500PIR or QXD3000PIR. (Not suitable for QXD4500.)

QXD range



# The CXD range

## Features

- Provides heat to a zone or localised area, saving energy compared with equivalent air heaters.
- Silent operation.
- No visible light output.
- Adjustable mounting bracket.
- Can be mounted inside or outside.
- Fitted guard included.
- Choice of vertical or horizontal 2kW models.
- Robust ceramic elements for efficient radiant heating.
- Can be used with PIR passive sensors, touch sensors and push switches for auto control.

## Elements

Ceramic-encased aluminium elements.

## Colour/finish

Powder-coated steel. Finished in high temperature matt black.

## Electrical connection

Where used, a type three or 'C' MCB with a tripping coefficient of 7-10 times rated current should be used.

IPX4 rated for outdoor use.

## Passive infrared sensor.



Now available to purchase with the heater.

To order heater and sensor as a single pack, order CXD2000VPIR or CXD2000HPIR.



Model CXD2000V

Using long-wave infrared technology, these radiant heaters use ceramic elements to radiate heat with no distracting light output. Perfect where robust radiant heating is required, these heaters provide a heating effect just like the sun. Offered in vertical (2 x elements stacked) or horizontal (2 x elements side to side) formats, these models are ideal 'people heaters' without the light output of other radiant heaters. Now available with passive movement sensor for auto control over use.

## Specifications and dimensions

Model	Input loading	Number of lamps	Electrical supply	Height	Length	Depth (inc. bracket)
CXD2000V	2.0kW	2	230-240V~1PN	380mm	442mm	302mm
CXD2000H	2.0kW	2	230-240V~1PN	255mm	735mm	248mm

Model	Weight in kg	Minimum height	Recommended height*	Lamp guard	Product guard
CXD2000V	5.35kg	1.8m	2.0m	✓	-
CXD2000H	5.1kg	1.8m	2.0m	✓	-

\*Calculated at medium intensity (95W/m<sup>2</sup>).

## Passive Infra-red sensor

Designed to offer automatic control over radiant electric heating products.

- Can be mounted inside or outside.
- Can switch heating up to 3kW.
- Wall or ceiling mounted.
- Maximum detection up to 12m.
- Detects up to a 200° arc.
- Adjustable for long or short range detection.
- Adjustable light level and time delay settings.
- Manual on/off override.
- Model: DX4131.

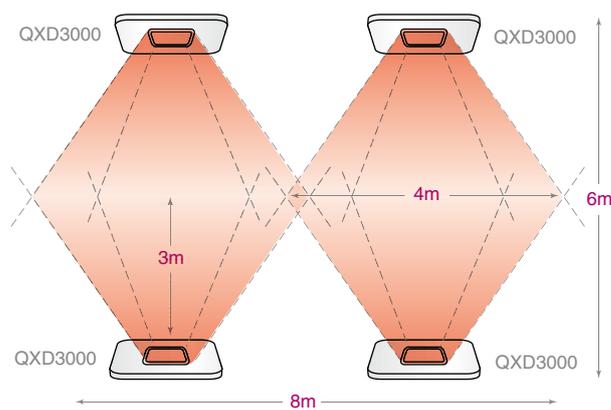
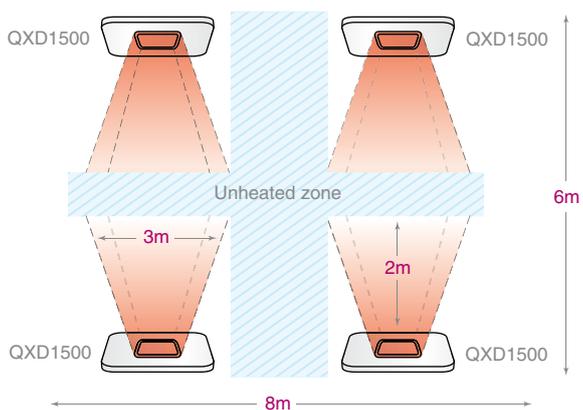


Model CXD2000H

# QXD and CXD positioning, coverage and throw

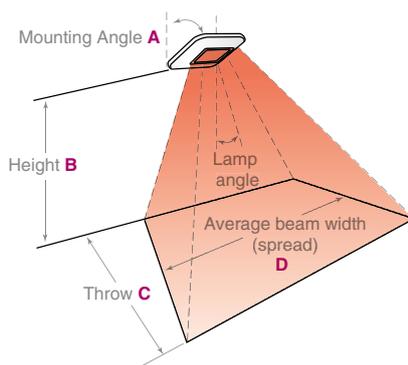
**✗ Incorrect positioning**  
Heaters must be installed so they overlap heated areas and heat from both sides for optimum effect.

**✓ Correct positioning**  
Heaters must be mounted on a secure surface. Do not attempt to touch heater when on as injury may occur.



## Heater coverage

Mounting angle is the angle between the wall and the rear panel of the heater.



## QXD spread and throw chart

Model	QXD1500		QXD3000		QXD4500	
	Throw C	Spread D	Throw C	Spread D	Throw C	Spread D
Height B 2.1m	2.5m	2.5m				
2.5m	3.4m	3.7m	4.2m	4.0m		
3.0m	4.5m	5.2m	5.0m	4.5m	5.0m	5.0m
3.5m			5.7m	5.7m	6.0m	6.1m
4.0m			6.4m	6.2m	7.1m	6.9m
4.5m					8.2m	7.8m

**A** All figures are for 45° mounting angle (for 30° mounting angle increase throw by 1.75 x).

## CXD spread and throw chart

Model	CXD2000H		CXD2000V	
	Throw C	Spread D	Throw C	Spread D
Height B 1.8m	1.8m	1.3m	1.6m	1.1m
2.0m	2.0m	1.4m	1.8m	1.3m
2.3m	2.2m	1.6m	1.9m	1.4m
2.5m	2.4m	1.8m	2.1m	1.6m
2.7m	2.5m	1.9m	2.3m	1.7m

**A** All figures are for 45° mounting angles.

## QXD Heat Intensity

- High intensity (120 W/m<sup>2</sup>)
- Medium intensity (95 W/m<sup>2</sup>)
- Low intensity (70 W/m<sup>2</sup>)

## Key

- Inactive (churches/dressing rooms)
- Light work (workshops/desk working/despatch areas)
- Heavy work (factories/loading bays/open air construction)

## CXD Heat Intensity

- High intensity (80 W/m<sup>2</sup>)
- Medium intensity (65 W/m<sup>2</sup>)
- Low intensity (50 W/m<sup>2</sup>)

**Note:** All the above applications are dependent on the area heated and the heat loss within the building structure. Please contact our heating design service with your requirements.

## The LST range

### Features

- Our most intelligent commercial electric heater.
- Integral fan allows the LST heater to heat the room up more quickly and react more responsively to changes in room temperature than non fan assisted heaters. This means improved control, comfort and energy saving. Utilising fan technology also means that it is possible to achieve a higher heat output than comparably sized non-fan-assisted convector heaters, yet still comply with surface temperature restrictions.
- Highly accurate electronic thermostat (to  $\pm 0.2^{\circ}\text{C}$ ) with frost protection settings.
- Advanced touch control system offering temperature selection, preset programmes for maximum control with complete flexibility, and visual/audible feedback. See page 19 for more details of this functionality.
- 24-hour and 7-day timer control ensures suitability for domestic and commercial applications.
- Maximum surface temperature remains under  $43^{\circ}\text{C}$  to comply with NHS estate health guidance notes.
- Open Window Technology automatically reduces output to prevent heat loss if a window is left open, thereby saving money. See page 18 for more details of this functionality.
- Stylish, compact and slimline design.
- Splash proof to IP24 for use in bathrooms.
- Child lock – locks controls so that they can't be tampered with. See page 19 for more details of this functionality.
- Safety cutouts.
- BEAB approved.
- 'Eco-Start' delayed start anticipatory control.



The perfect heating solution for hospitals, schools, kindergartens, nurseries, retirement homes, sheltered housing, nursing homes and sports halls. The Dimplex LST range has been specifically designed to meet the heating requirements of particular environments where vulnerable members of the community such as infants, the young, or elderly are liable to be present. Each fan-assisted heater has been optimised to give the maximum output to efficiently and rapidly heat the room, from the most compact and slimline style available, ensuring that no part of the heater exceeds  $43^{\circ}\text{C}$  surface temperature.

### Eco-Start

The LST monitors the effect of its actions on a room's temperature. It knows precisely how long it takes to get to the desired temperature and when to turn off as it approaches that target temperature. This minimises the energy that it uses, while maximising comfort – keeping occupants warm for the lowest possible cost. See page 17 for more details.

# Technical information

## Thermostat

Electronic type, accurate to +/-0.2°C.

## Convactor element

Compact, finned, mineral-filled sheathed type.

## Thermal cut-out

Two auto reset cut-outs.

## Construction

Durable epoxy-polyester powder-coated steel casing, with outward facing grille. Temperature resistant nylon thermoplastic moulded parts.

## Colour/Finish

White.

## Installation

Supplied with metal wall bracket.

## Electrical connections

1.0m, 4 core cable (live, neutral, earth, pilot) supplied fitted to each heater.

## IP rating

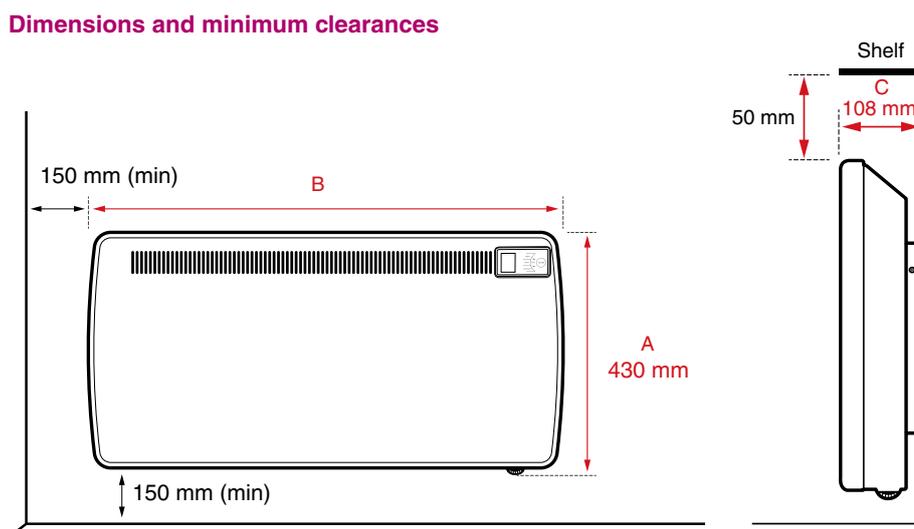
Splashproof IP24.

## Noise level

35db.

Model No.	Loading	Heat output	Height A	Width B	Depth C	Weight
LST050	0.5kW	500W	430mm	688mm	108mm	7.1kg
LST075	0.75kW	750W	430mm	688mm	108mm	7.1kg
LST100	1.0kW	1.0kW	430mm	688mm	108mm	8.7kg
LST150	1.5kW	1.5kW	430mm	860mm	108mm	9.4kg

## Dimensions and minimum clearances



# The WFC and WFE ranges

## Features

- Powerful 3kW output.
- Choice of silver or black finish.
- Variable thermostat, range 5°C to 35°C.
- Manual mode selection (WFC).
- Low fan/high fan/1kW, 2kW, 3kW outputs.
- Fine mesh dust filter.
- Electronic-thermostat control (WFE).
- Dual mode electronic programmer (WFE):
  - Modes: on/off, auto seven day, auto five + two day.
  - Four time periods per block.
  - Manual advance.

## Colour/finish

WFC3NB/WFE3TNB: black stove enamelled body with cherry-effect end panels.

WFC3NS/WFE3TNS: satin silver-enamelled body with black-painted end panels.

## Construction

- Pressed steel front panel and base.
- Keyhole-mounting slots on rear of product.
- Twin helically wound fully strung open coil elements (2kW + 1kW).
- Low-noise tangential fan.
- Auto reset over temperature cut-out.
- Supplied without cable.



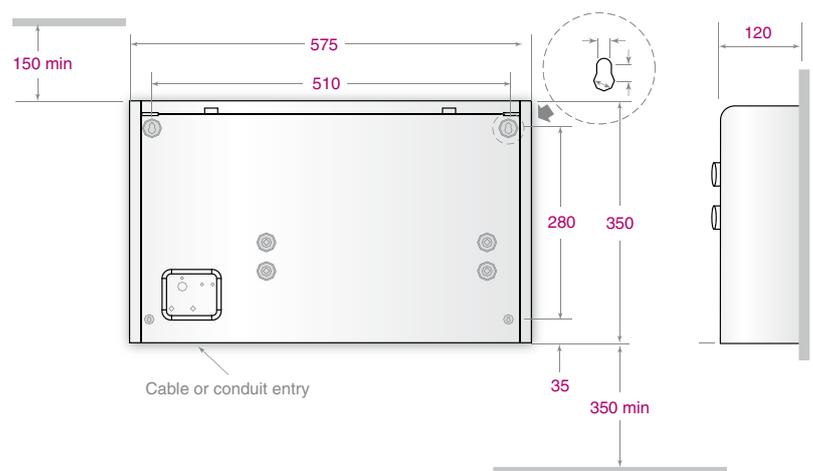
Model WFE3TNS

The WF range provides rapid response with accurate temperature control, making the heaters ideal for commercial use in areas such as shops, offices, restaurants and waiting areas.

Both WFC and WFE models are thermostatically controlled and draw room temperature air through the front panel and blow warm air out of the concealed grille underneath. This sets up a very effective circulation of air in

the room for rapid warm-up and to maintain stable comfort conditions. WFE electronic models provide the additional benefit of fully automatic control over the heat output level.

## General and fixing dimensions (mm)



Model WFC3NB

Model	Finish	Loading	Height	Width	Depth	Minimum distance		Weight
						Above	Below	
WFC3NB WFC3NS	Black Silver	3.0kW	350mm	575mm	120mm	150mm	350mm	6.6kg
WFE3TNB WFE3TNS	Black Silver	3.0kW	350mm	575mm	120mm	150mm	350mm	6.6kg

# The Electricaire range



Electricaire is a highly controllable heating system particularly suited to larger applications such as schools, libraries, museums and business premises. With unrivalled heat retention and control, high-output heating from low-tariff electricity provides an effective 'heat on demand' system. External time clocks and thermostats offer further control, and with no expensive flues and fuel storage to worry about, Electricaire delivers a low-maintenance, robust and long-lasting heating system.

Model	R7*	R8*	R10	R12	R15
Rating	4x1.643kW	5x1.643kW	6x1.643kW	7x1.643kW	9x1.643kW
Active storage capacity	47kWh	55kWh	73kWh	84kWh	104kWh
Case emission	700W	700W	750W	850W	950W
Core weight	385kg	385kg	385kg	457kg	611kg
Assembled weight	482kg	482kg	482kg	600kg	754kg
Dimensions (including/excluding plenum chamber)					
Height	1603mm/ 1300mm	1603mm/ 1300mm	1603mm/ 1300mm	1753mm/ 1450mm	2053mm/ 1750mm
Width	615mm	615mm	615mm	615mm	615mm
Depth	635mm	635mm	635mm	635mm	635mm
Fan performance (m <sup>3</sup> /h)					
Normal	625	625	625	710	872
Boost	777	777	777	896	1090
Back pressure (M Bar)	0.15	0.15	0.15	0.15	0.25
Day boost facility element rating	2x1.643kW	3x1.643kW	4x1.643kW	5x1.643kW	7x1.643kW

\*Supplied as Model R10. R7 and R8 achieved by downrating on site. We recommend this unit is professionally installed by one of our Electricaire installers. Please see our website for more information.

## Features

- Due to its unique shape, Electricaire holds up to 85% of its retained heat into a second day, making it highly economical.
- Cost-effective heating when you want it.
- Boost-heating feature for additional heat when needed.
- Two-speed fan for rapid heat-up.
- Can be used with external thermostats and time clocks for further control.
- Can be used standalone or with suitable ducting.
- Pre-wired to accommodate single or three-phase connection.
- Flexible installation requirements for minimal room intrusion.
- Washable air filter included.

## Controllability

- Variable input control and two-speed fan.
- Day energy switch (Economy 7).
- External time clock/thermostat options.

## Heating element

Kanthal D iron/aluminium alloy sheathed in quartz tubes.

## Thermal insulation

Basic insulation – microporous silica and mineral wool.

Air passages/base – moulded Vermiculite.

## Supply

230v single phase or 415v three phase supply, on standard off-peak or Economy 7 (white meter) tariffs.

Every unit is capable of being wired on site to cover the following configurations:

- Single phase Economy 7 (white meter).
- Single phase standard off-peak.
- Three phase Economy 7 (white meter).
- Three phase standard off-peak.

## Cabinet

0.8mm zinc-coated mild-steel finish with polyester/epoxy powder-coated paint.

## Plenum chamber kit (PLEN/12)

For all new installations a plenum chamber kit will be required at extra cost. Complete with three air-register grilles, this additional component measures 625mm x 600mm (including flanges) with a height of 303mm.

## Ducting

In addition to standalone use, Electricaire can also be used with ducting, dependent on installation.

# The VFMi range

## Features

- Loadings from 3.4 to 6.9kW.
- Highly-accurate thermostat for close control over retained heat.
- Controls conveniently positioned on the top right-hand side of the heater.
- Manually-adjustable input charge control.
- Frost protection setting.
- Optional direct-acting elements available.
- Accessory feet available for use on uneven surfaces or thick carpets (only applicable when heater is fixed to wall).
- Ideal for offices, hotels, community rooms, halls and larger homes.

## Controls

### Charge controller

Type: hydraulic, manually adjustable from zero charge to fully charged condition.

### Thermal safety device

Type: bi-metal – automatic reset.

### Output control

- Type: Integral room temperature sensing hydraulic thermostat fitted at installation stage. Accurate to +/-1°C. Temperature range approximately 5°C to 30°C.
- On/off switch for fan.
- On/off switch with neon for direct acting heating element (option).



The VFMi range of fan storage heaters blends all the benefits of using low-tariff electricity with a highly insulated heater to give maximum controllability over heat delivered.

These qualities make this range of heaters the perfect solution for commercial applications where a reliable, energy efficient system is needed. The range has the dual benefits of dependable thermostatic control and a quiet fan heat distribution for fast response. In addition, it is possible to link the fan circuit to a separate timer for even greater levels of controllability.

Model	VF24i	VF32i	VF40i	VF48i
<b>Performance</b>				
Input rating	3.4kW	4.6kW	5.7kW	6.9kW
Charge acceptance 7 hours	24kWh	32kWh	40kWh	48kWh
<b>Heating elements/fans</b>				
No. of elements/rating (off-peak supply)	3 x 1130W	3 x 1530W	3 x 1900W	3 x 2300W
Fan rating (on-peak supply)	15W	15W	25W	25W
<b>Dimensions</b>				
Height	672mm	672mm	672mm	672mm
Width	776mm	926mm	1076mm	1226mm
Depth (inc. 35mm wall spacer)	285mm	285mm	285mm	285mm
Weight (installed)	138kg	177kg	216kg	255kg
No. of storage bricks	18	24	30	36
Brick packs	6	8	10	12
<b>Optional direct acting element</b>				
zHi 070E input rating 0.7kW	✓	✓	✓	✓
zHi 110E input rating 1.1kW	N/A	✓	✓	✓
zHi 150E input rating 1.5kW	N/A	N/A	✓	✓
zHi 200E input rating 2.0kW	N/A	N/A	✓	✓

✓ = installation possible.

## The VFMi range

### Technical information

#### Construction

Galvanised sheet steel base, mounted on pressed steel feet. Side panels, front panel/air outlet grille assembly and inner skin removable for brick loading.

- Storage core.  
Material: high density bonded magnesite bricks.
- Heating elements.  
Type: Incoloy sheathed, three elements per heater.
- Thermal insulation.  
Front and rear panels – microporous silica.  
Top – microporous silica  
Base and sides – vermiculite.

- Supply connection.  
Located at right hand side to rear of heater – accessible by removal of side panel assembly 240v 1 phase or 415v 3 phase.  
**Note:** heat resistant cable required for connection to heater.
- Installation.  
A secure wall fixing is required for all heaters with suitable connection to the fixed wiring of the premises.

#### IP rating

N/A.

#### Colour/finish

Front panel, top panel, side panels – RAL9016 – traffic white.  
Grille – birch grey.

#### Packing

- Case assembly.  
VFM24i – approx. weight 44kg.  
VFM32i – approx. weight 51kg.  
VFM40i – approx. weight 57kg.  
VFM48i – approx. weight 63kg.
- Storage bricks.  
Packed separately in packs of three (see table on facing page for weight of product with bricks).  
Pack Part No. 007781  
approx. weight 16.7kg.

#### Accessories

Feet: part no. SHF25i.

Direct acting elements for retro-fit or on heater installation (see table).

### AIR WARMERS

## The HAW range



Model HAW1000N

Air warmers are extremely robust heaters designed for a wide variety of industrial applications. Often found in industrial locations requiring a long lasting, heavy-duty heater that can be operated via separate controls.

#### Features

- Strong, robust and very reliable.
- Large number of fins give large heating surface.
- Now comes complete with guard.

#### Technical information

##### Electrical connections

20mm cable entry as standard with cable gland fitted.

##### Construction

Cast iron body.  
Black stove enameled.

##### Guard

A floor mounted guard is now supplied as standard and it is recommended this is used on all installations.

Model	Loading	Voltage	Width	Depth	Height	Fixing width	Fixing depth	Weight
HAW 1000N	1.0kW	240V	470mm	207mm	115mm	449mm	179mm	14kg

# The Quantum cylinder

## Superior operational performance

### Unvented cylinder gives:

- High flow rates for efficient hot water delivery:
  - Powerful showers and fast-filling baths.
  - Fully compatible with all tap fittings.
- Light and easy to handle for simple installation.
- Surface mounted thermostats and sensors for easy installation and maintenance/replacement.
- Supplied complete with inlet safety group and external expansion vessel.
- All connections accessible from the front.

## Environmentally sound performance

- Pipework routing optimises internal stratification, thereby maximising hot water availability.
- Side hot water draw off connection, minimises heat losses through the top of the cylinder.
- 60mm of injected polyurethane foam insulation:
  - Exceeds CHeSS best practice standards for low heat loss and heat recovery.
  - Completely void free, including insulation around immersions and thermostats.
- Recessed immersion heaters and thermostat housings reduces heat loss.

## Sustainable material

- Inner vessel manufactured from high-quality Duplex stainless steel:
  - Lightweight, yet ultra high strength and stress/corrosion resistant, ensuring long cylinder life.
  - 100% recyclable.
  - No need for sacrificial anode.
  - 25-year warranty.
- HIPS/ABS outer cladding:
  - Produced from 100% recycled material.
  - Hard wearing, flexible and damage resistant.
- CFC/HCFC free injected foam insulation.
- High proportion of materials (excluding insulation by volume) recycled.



The Quantum water cylinder is the world's most-advanced direct-electric water cylinder. Designed and developed by our own in-house team of experts, the Quantum cylinder is the ideal partner to the Quantum space heater for a complete heating and hot water system, or as a standalone hot water system for the electrically heated home.



\*Excluding expansion vessel membrane

# Technical information

Cylinder model	Volume	Height	Diameter	T&P valve	Immersion 1	Immersion 2
QWcd 125	125l	945mm	580mm	720mm	208mm	570mm
QWcd 150	150l	1115mm	580mm	890mm	208mm	650mm
QWcd 210	210l	1490mm	580mm	1265mm	208mm	820mm
QWcd 250	250l	1765mm	580mm	1540mm	208mm	1265mm
QWcd 300	300l	2065mm	580mm	1840mm	208mm	1495mm

Type	<ul style="list-style-type: none"> <li>Unvented systems.</li> <li>Direct cylinders.</li> </ul>		
	<ul style="list-style-type: none"> <li>Black.</li> </ul>		
Colour/Finish	<ul style="list-style-type: none"> <li>Highly intuitive, ergonomically designed electronic control system.</li> <li>Modern, easy-to-read display.</li> <li>User-adjustable cylinder water temperature.</li> <li>'Boost' immersion heater, for rapid response, short-term use.</li> </ul>		
	<ul style="list-style-type: none"> <li>Hot water volume availability display.</li> <li>User can set normal water temperature and boost water temperature.</li> <li>Boost element automatically disengages upon reaching target temperature.</li> </ul>		
Controls	<ul style="list-style-type: none"> <li>Class-leading insulation levels.</li> <li>Communicates stored water volume and temperature.</li> <li>Automatic sterilisation function.</li> <li>Algorithm specifically calculates:                             <ul style="list-style-type: none"> <li>Hot water volume.</li> <li>How much more energy can be stored in the tank until the maximum set temperature is reached.</li> <li>Water and energy consumption over a defined period.</li> </ul> </li> </ul>		
	<ul style="list-style-type: none"> <li>Fittings supplied:                             <ul style="list-style-type: none"> <li>Inlet control set.</li> <li>Temperature and pressure relief valve.</li> <li>Tundish.</li> <li>Expansion vessel-mounting kit.</li> <li>2 x 3kW (240v) immersion heaters.</li> </ul> </li> </ul>		
Technical features	<ul style="list-style-type: none"> <li>Hot water volume availability display.</li> <li>User can set normal water temperature and boost water temperature.</li> <li>Boost element automatically disengages upon reaching target temperature.</li> </ul>		
	<ul style="list-style-type: none"> <li>Fittings supplied:                             <ul style="list-style-type: none"> <li>Inlet control set.</li> <li>Temperature and pressure relief valve.</li> <li>Tundish.</li> <li>Expansion vessel-mounting kit.</li> <li>2 x 3kW (240v) immersion heaters.</li> </ul> </li> </ul>		
Cylinder storage capacity and heat loss	<b>Cylinder size</b>	<b>Storage capacity @ 65°C water (ΔT55k)</b>	<b>Heat loss over 24 hours (ΔT45k)</b>
	125l	7.1kWh	0.95kWh
	150l	8.8kWh	1.1kWh
	210l	12.7kWh	1.4kWh
	250l	15.3kWh	1.55kWh
	300l	18.4kWh	1.96kWh

## Materials

- Inner cylinder: Duplex stainless steel.
- Outer casing: Black HIPS/ABS (from recycled materials).
- Inlet/outlet: Stainless steel.
- Insulation: 60mm PU foam (GWP = 1, ODP = 0).

## Maximum operating conditions

- Potable water temperature: 75°C.
- Operating pressure: 3 bar.

## Cold water supply

- Minimum dynamic pressure: 1.5 bar.
- Maximum pressure: 12 bar.
- Minimum flow rate: 15l/min.

## Connections

- Cold water inlet: 22mm stainless steel.
- Hot water outlet: 22mm stainless steel.
- Sensor: Surface mounted.
- T&P valve: ½" F BSP.
- Immersion heater: 1¼" F BSP.

## Immersion heaters

- 2 (3kW 240v).

## Temperature control

- Electronic thermostatic control and integrated thermal cut out.

## Safety components

- Pressure reducing valve and strainer: 3 bar.
- Expansion relief valve: 6 bar.
- T&P valve: 7 bar/90°C.
- Factory pressure tests: 12 bar.
- Expansion: External.

## Approvals

- KIWA (water and building regs).

## Warranty

- Inner cylinder: 25 years.
- Immersion heaters: 2 years, excluding the effects of limescale.
- Other components\*: 2 years.

See [www.dimplex.co.uk](http://www.dimplex.co.uk) for more information or call us for a brochure.

\*Excluding expansion vessel membrane.

# Low-carbon solutions overview

The course is set for a route towards low-energy buildings in the UK via progressively tightening building standards and targets for all new housing to be zero carbon by 2016 and commercial buildings by 2020. Government policy, legislation and incentives are also clearly emphasising the need for improvements in the energy efficiency and sustainability of the UK's existing housing stock.

Meeting these challenging standards will inevitably require the use of renewable technology and increasingly, particularly in the new build sector, require combinations of technologies to be applied to achieve the required carbon saving standards.

Renewable technologies, strategically based around low-carbon electricity, will come to the fore, with longer term UK energy policy based on a decarbonised electricity grid. This is in place of unsustainable and insecure fossil fuels, creating a greater dependency on electricity as the primary energy source.

Whether domestic or commercial, our range of renewable heating solutions, designed specifically to complement each other, perfectly matches the future needs of low/zero carbon buildings.

## 1 Ground source heat pump

Dimplex has over 30 years' experience in heat pump manufacturing and has developed a ground source range that covers small domestic systems from 4kW to commercial systems up to 130kW, able to be installed in multiples to meet the heating needs of buildings of all kinds.

## 2 Air source heat pump

Air source heat pumps are increasing in popularity in the UK. With our vast experience in manufacturing highly efficient units for cold central European climates, the Dimplex range spans solutions from compact domestic units through to high-efficiency units with outputs of up to 60kW, suitable for commercial premises.

## 3 Solar thermal hot water heating

An ideal complement to a heat pump, a Dimplex solar thermal system can provide up to 60% of a property's hot water demand, helping to reduce energy costs and combat fuel poverty. Supplied as an easy-to-specify complete package, including carefully matched unvented hot water cylinders (4), and flat plate collectors with a range of roof mounting options, the system is easy to fit either as part of the build or a refurbishment programme.

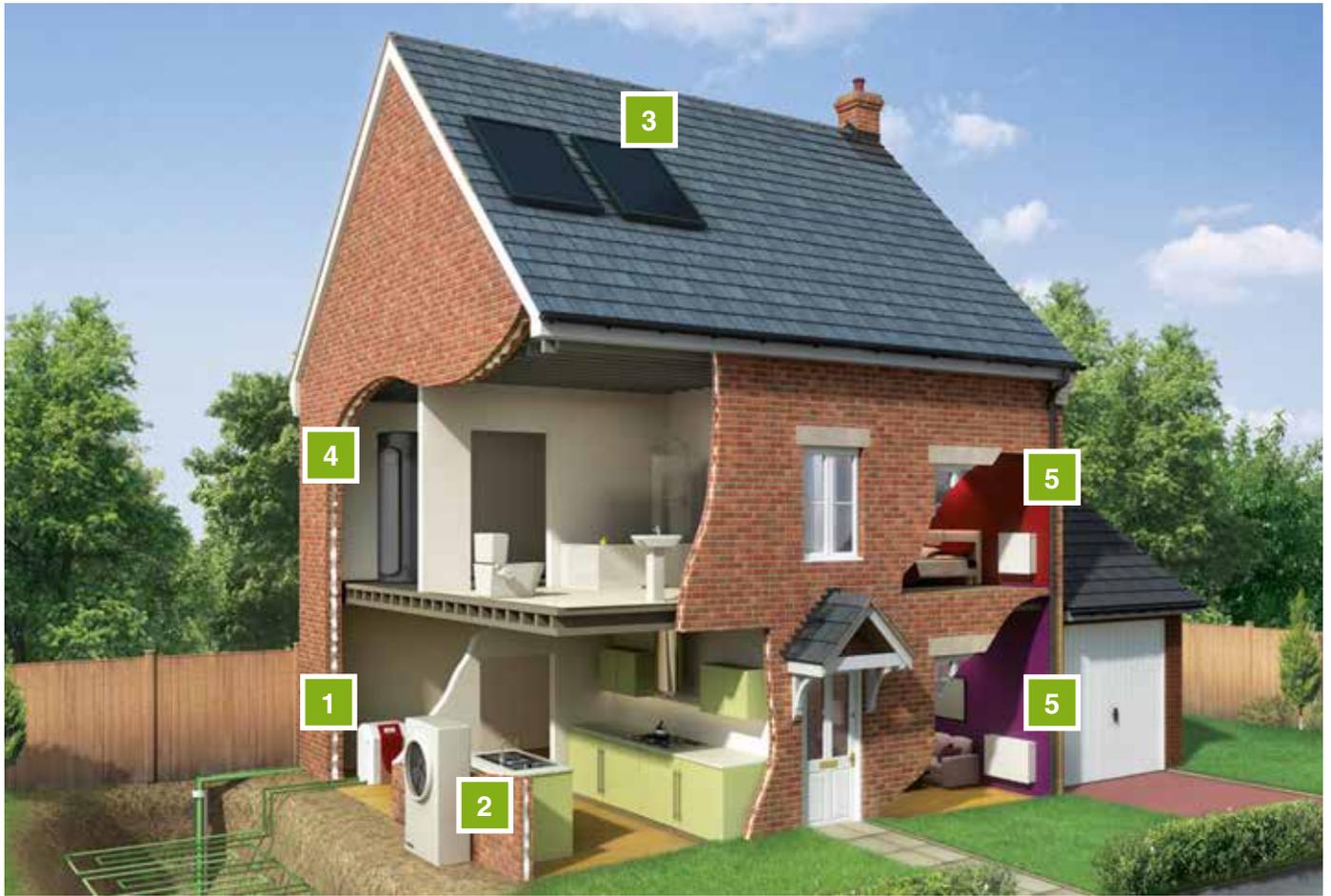
## 4 Energy-efficient unvented hot water storage

Dimplex has produced a range of unvented hot water cylinders to accommodate renewable energy systems, with models designed specifically to operate with either solar thermal systems or heat pumps or both.

## 5 Energy-efficient space heating

Dimplex SmartRad sets new standards for the way we think about space heating. Fast and responsive with accurate room-by-room control, SmartRad is attractively styled and designed to work with heat pumps.

Our website has detailed information on all the technologies we offer. Visit [dimplex.co.uk/renewables](http://dimplex.co.uk/renewables) for more information or to order a brochure, call 0844 879 3587.



# Heat pumps

Our environment is full of energy, even at sub-zero temperatures. Heat pumps use conventional refrigeration technology to extract this energy and raise it to a temperature suitable for heating purposes.

For Dimplex, there's nothing new about renewables. From our manufacturing plants in Northern Ireland and Germany, Dimplex produces the widest range of heat pumps available on the UK market and leads the way in the development of energy efficient heat pump technologies.

Depending on the product and project, the heat pump may be eligible for funding under the Renewable Heat Incentive (RHI) scheme. Please visit: [www.decc.gov.uk](http://www.decc.gov.uk) for more information.

## One system for all types of heat sources

Dimplex heat pumps offer you two different future-proof heat sources, outside air or ground.



Air source heat pumps utilise the outside air as their energy source. Heat pumps can even extract heating energy from the outside air at temperatures as low as -25°C.



Ground source heat pumps extract heat from the earth all year round via ground heat collectors buried beneath the ground.



## The benefits of Dimplex heat pumps

### Social housing

- Ideal for stock refurbishment projects as a means to meeting Decent Homes standards and tackling fuel poverty, particularly in off-gas areas.
- Significant CO<sub>2</sub> emission savings over other fuels, helping compliance with higher levels of the Code for Sustainable Homes.
- Negligible maintenance requirements.

### Housing developments

- Up to 50% CO<sub>2</sub> savings over fossil fuelled systems helps with Building Regulations Part L /Code for Sustainable Homes compliance.
- Meet local planning authority requirements to incorporate renewable energy in new buildings (Planning Policy Statement 22/'Merton Rule').
- Make a significant contribution towards high EPC scores.
- Highly marketable 'Eco' credentials and low end-user running costs for heating/hot water.

### Flats and apartments

- Multiple high output units commonly linked together to provide central plant space/water heating for multi-occupancy dwellings.
- Up to 50% CO<sub>2</sub> savings over fossil-fuelled systems helps towards Building Regulations Part L/Code for Sustainable Homes compliance.
- Significant cost reduction over installing individual heat pumps in each apartment.
- Efficiency benefits of communal systems recognised by SAP.

### Self builders

- 50% lower CO<sub>2</sub> emissions than gas boilers, so help make a significant contribution towards Building Regulations Part L compliance.
- High renewable energy contribution, so helps ease planning consent.
- Requires electrical infrastructure only, ideal for off gas-grid areas.
- Makes a significant contribution to lower home energy bills.
- Can be used for energy-efficient swimming pool heating in summer months.

### Education

- Ongoing schools building programmes can benefit from systems that improve environmental footprint and reduce running and operational costs.
- Able to meet governmental targets for 60% renewable energy in new schools projects.

### Retail and commerce

- Meet the local authority requirements to incorporate renewable energy within the energy profile of new buildings (Planning Policy Statement 22/'Merton Rule').
- Significant CO<sub>2</sub> savings over fossil-fuelled systems help towards building regulations compliance.
- Many developers investing in 'green' buildings with low-energy costs knowing they can attract premium rent/lease values.
- Ability to provide energy-efficient heating and cooling from a single system optimises capital investment.

### Leisure and residential

- Typical uses include swimming pool heating, hot water production, space heating and cooling.
- Reversible units with heat recovery ideal for utilising waste heat for swimming pool or water heating.
- Multiple air source units commonly linked together to provide central plant space/water heating for multi-occupancy dwellings such as care homes.

### Public and community

- Dimplex heat pumps are already installed in a wide range of public and community buildings, both new build and refurbished, allowing them to benefit from lower fuel bills and reduced CO<sub>2</sub> emissions.
- Typical installations include:
  - Visitor centres.
  - Village halls.
  - Community centres.
  - Emergency service buildings (fire stations, mountain rescue centres, lifeboat stations).
  - Libraries.
  - Places of worship.

Our website has detailed information on all the technologies we offer. Visit [dimplex.co.uk/renewables](http://dimplex.co.uk/renewables) for more information or to order a brochure.

# Heat pump range overview

Air Source							
				Nominal rating (kW)	Indoor/ outdoor	Controller	Max. flow temp. (°C)
Single phase	A-Class	Inverter		8-16	O	A-Class	65
	LA MI	Inverter		6-9	O	LA MI	55
Three phase	LA TU	High efficiency		25-60	O	WPM	58-65
	LI TES	High output		9-28	I	WPM	60
	LI AS	High output		40	I	WPM	58
	LA TUR+	Reversible		35-60	O	WPM	60

Ground Source							
				Nominal rating (kW)	Indoor/ outdoor	Controller	Max. flow temp. (°C)
Single phase	SIH ME	High temp.		4-11	I	WPM	70
	SI ME	Heating & hot water		14	I	WPM	58
	SIK ME	Integrated hydraulic components		16	I	WPM	55
Three phase	SI TE	High output		30-130	I	WPM	58
	SI TU	High efficiency		18-90	I	WPM	62
	SIH TE SIH TU	High temp.		20-90	I	WPM	70
	SI TER+ SI TUR+	Reversible		30-130	I	WPM	55-58

Dimplex has set new standards with its latest generation of air-source heat pumps – A-Class – designed specifically for the UK environment. But, with the widest range of heat pumps in the UK, no matter what your choice of energy source (air or ground), there will be a solution in the Dimplex range ideally suited to your needs.

### Flexibility

Our heat pumps can be combined with a wide number of fully compatible system accessories, including buffer tanks and domestic hot water systems to provide complete flexibility in terms of system design.

To simplify specification and installation, a number of our heat pumps are also offered in packages which include heat-pump ready cylinders and/or buffer tanks, and all the components required to install a standard domestic system.

### Performance

The Dimplex ethos is always to aim for the highest level of system efficiency, with our heat pumps designed to minimise energy use – no matter what the temperature or operating conditions.

### Control

The comprehensive Dimplex heat pump manager provides complete system control over multiple heating and hot water circuits and, where needed, cooling functions. Self-explanatory display text provides simple operation.

[Our website has detailed information on all the technologies we offer. Visit \[dimplex.co.uk/renewables\]\(http://dimplex.co.uk/renewables\) for more information or to order a brochure.](http://dimplex.co.uk/renewables)

# Solar thermal overview

Dimplex makes solar specification simple by combining all the necessary components for a standard installation into easy to purchase kits. Each component has been carefully selected for its quality and suitability for the UK climate and building stock to provide complete confidence in system performance both for installers and home owners alike. With a range of purpose designed solar cylinders in sizes suitable for a variety of properties and a selection of roof mounting options, Dimplex has a solution for every domestic solar water heating requirement.

For maximum efficiency the complete system can be custom designed by our heating design team for your application. Collectors and hot water cylinders will be sized to meet the requirements of the property and site orientation plans will be provided to aid installation.

### Roof kit packages

- Choice of 2.02, 4.04, 6.06 and 8.08m<sup>2</sup> collector kits.
- On-roof mounting for plain or corrugated or slate tiles, portrait or landscape orientation.
- Integrated roof mounting for tile and slate – portrait orientation only.
- Free-standing kits for flat roofs or ground mounting – portrait orientation only.

### Hydraulic packages

Choice of packs with either single or twin line pump stations, packs include:

- Pump station.
- Control unit.
- Heat transfer fluid.
- Over-voltage protection box.
- Expansion vessel and fixing kit.

### Accessories

A complete range of accessories is available to make installation and maintenance quick and easy, including pre-insulated flexible hoses, flow meters and heat transfer fluid testing kits.

### Range of cylinders

Available with single coil and dual immersions for direct electric systems, or dual coils for use with a secondary heat source (such as a boiler). Available with 210, 250 and 300 litre capacities.



## SmartRad® wall-mounted fan convectors



Dimplex SmartRad® provides a controllable, responsive and energy-efficient alternative to conventional radiators. The range is designed specifically to work at the low-flow temperatures produced by heat pumps and they are ideal for use either instead of, or alongside, underfloor heating.

SmartRad is optimised for use with heat pumps by achieving excellent performance at water heating temperatures as low as 40°C. Containing only 5% of the water volume of a conventional steel radiator, SmartRad's low thermal mass allows it to heat up more quickly and react more responsively to changes in room temperature, meaning improved control, comfort and energy saving.

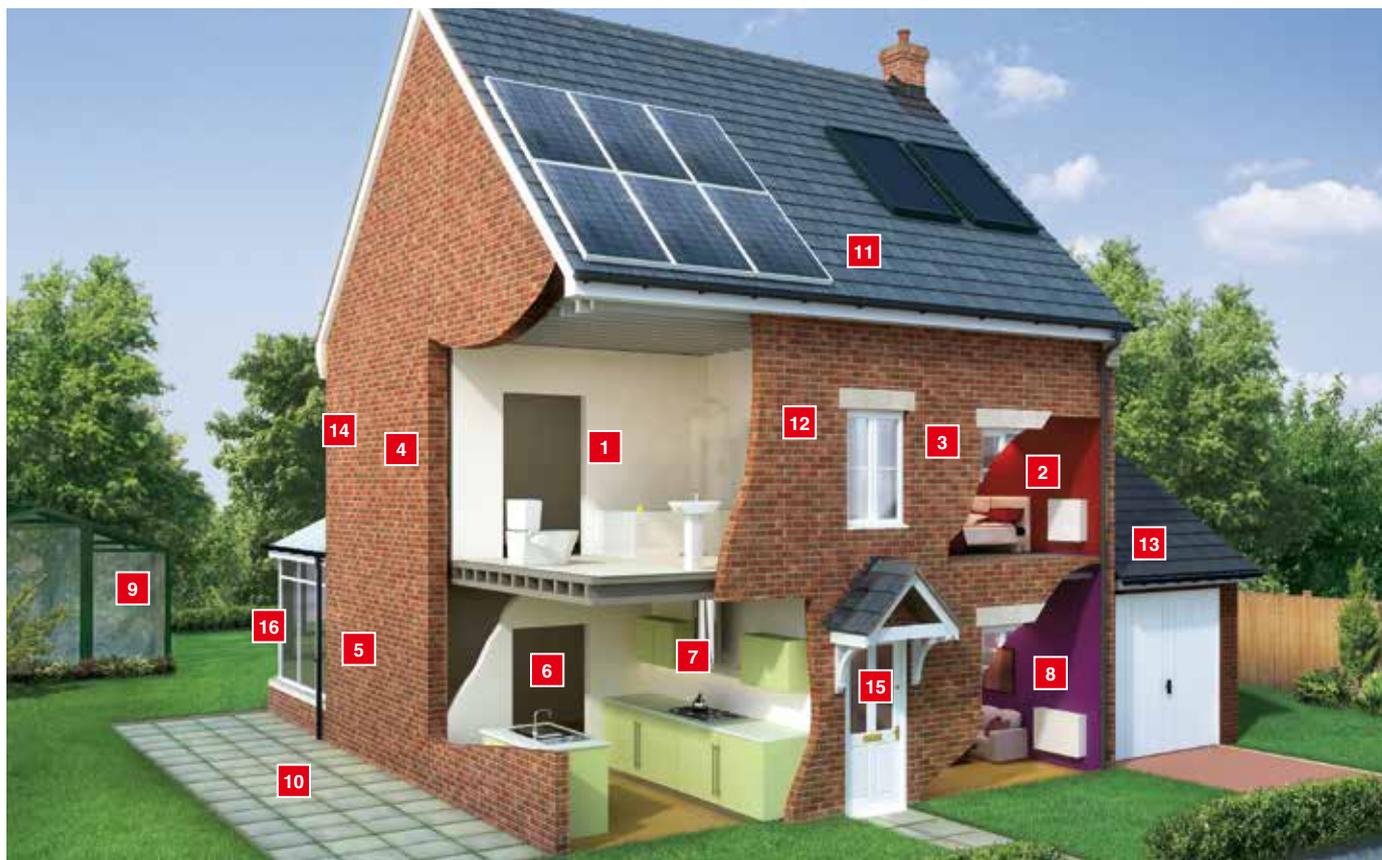
With a compact footprint and flexible installation options, SmartRad is ideal for retrofit installations in place of conventional radiators or in new buildings instead of, or in conjunction with underfloor heating. SmartRad is the perfect complement to any heat pump installation.



### Features

- Stylish design available with a choice of 2 finishes – white metal or white glass.
- 4 output sizes – 0.8, 1.2, 1.4 and 1.8 kW options.
- Energy-efficient alternative to conventional radiators.
- Cost-effective and practical alternative to underfloor heating.
- Designed for low-water temperature operation which reduces heat pump running costs.
- More energy efficient than conventional radiators.
- Fast response/room heat up due to low-water content.
- Even distribution of air throughout the room – no cold spots!
- Easy to install.

# Domestic heating selection guide



Dimplex has a heating solution for every room in the house. Whether it's a whole house-heating system or a single room, one of the real benefits is that you can choose from a whole range to meet your exact requirements.

This guide gives you a room-by-room selection, but your final choice will depend on your personal preferences and other factors. Please also see pages 100/101 for design information. If you need further help or guidance, speak to your supplier.

If you are looking for a renewables solution, don't forget our heat pumps and solar thermal. A summary of these products is available in this publication. Or visit: [dimplexrenewables.co.uk](http://dimplexrenewables.co.uk) for full details.

1 Bathroom	Pages
Electric radiators	16-21
Panel heaters	22-33
Mini storage heaters	42
Fan heaters	54-55
Radiant panel heaters	52
Towel rails	44-51
Under tile heating	56

2 Main bedrooms	Pages
Electric radiators	16-21
Panel heaters	22-33
Quantum	10-15
DuoHeat radiator	36-37

3 Ensuite	Pages
Electric radiators	16-21
Panel heaters	22-33
Fan heaters	54-55
Radiant panel heaters	52
Towel rails	44-51
Under-tile heating	56

4 Airing cupboard	Pages
MPH range	59
ECOT range	59

5 Utility room	Pages
Panel heaters	22-33
Mini storage heater	42
Fan heaters	54-55
Radiant panel heaters	52
Towel rails	44-51
Under-tile heating	56

6 Dining room	Pages
Quantum	10-15
DuoHeat radiators	36-37
Electric radiators	16-21
Panel heaters	22-33
Storage heaters	38-41

7 Kitchen	Pages
Fan heaters	54-55
Base unit heaters	57-58
Quantum	10-15
Towel rails	44-51
Under-tile heating	56

8 Lounge	Pages
Quantum	10-15
Electric radiators	16-21
DuoHeat radiators	36-37
Panel heaters	22-33
Storage heaters	38-41

9 Greenhouse	Pages
MPH range	59
ECOT range	59

10 Patio	Pages
OPH range	80
CXD range	82

11 Attic conversion	Pages
Panel heaters	22-33
Electric radiators	16-21
Convactor heaters	60
Oil free heaters/ Oil filled radiators	62-64
Slimline heaters	65

12 Spare bedroom	Pages
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Electric radiators	16-21
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Oil free heaters/ Oil filled radiators	62-64
Slimline heaters	65

13 Workshop	Pages
Portable fan heaters	61
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Quartzray heaters	81

14 Study	Pages
Quantum	10-15
DuoHeat radiator	36-37
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Oil-free heaters/ Oil-filled radiators	62-64
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15 Hallways/Landings	Pages
Quantum	10-15
DuoHeat radiator	36-37
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16 Conservatory	Pages
Electric radiators	16-21
Panel heaters	22-33
Under-tile heating	56
Convactor heaters	60
Portable fan heaters	61
Oil-free heaters/ Oil-filled radiators	62-64
Slimline heaters	65

# Commercial heating selection guide

Application	Product ranges	Example uses**	Page
<b>Retail/offices</b>	Over door heaters	Smaller doorways	70-71
	Air curtains	Larger open entrances	72-73
	Architectural air curtains	Office entrances, corporate receptions	75
	Compact commercial fan heaters	Small office heaters	79
	Panel heaters/electric radiators	Office heating systems	16-21 & 22-33
	Wall fan convectors	Meeting room heating	86
<b>Hospitality</b> <i>Hotel Restaurant Leisure</i>	Outdoor patio heating	Restaurant dining areas	80
	Panel heaters/electric radiators	Hotel rooms	16-21 & 22-33
	Air curtains	Building entrances/receptions	72-73
	Quartz radiant and ceramic heaters	Gymnasiums,* sports halls*	81-83
	Towel rails	Hotels rooms, catering kitchens	44-51
	High output storage heaters	Communal area heating	88-89
	Wall fan convectors	Meeting room heating	86
<b>Commercial</b> <i>Churches Halls Libraries Museums</i>	Over door heaters	Smaller entrances/doors	70-71
	Air curtains	Frequently open entrances/doors	72-73
	Compact commercial fan heaters	Workshops/garages	79
	Wall fan convectors	Waiting rooms	86
	High output storage heaters	Communal area heating	88-89
	Quartz radiant and ceramic heaters	Church heating	81-83
	Panel heaters/electric radiators	Room heating systems	16-21 & 22-33
<b>Large Commercial</b> <i>Airports Hospitals</i>	Air curtains	Supermarket entrances	72-73
	Architectural air curtains	Prestigious receptions, corporate HQs	75
	Wall fan convectors	Waiting rooms	86
	Commercial fan heaters	Atriums	76-77
	High output storage heaters	Communal area heating	88-90
	Quartz radiant and ceramic heaters	Baggage handling, unheated spaces	81-83
<b>Large industrial</b> <i>Warehousing Factories</i>	Air curtains	Warehouse and factory entrances	74
	Commercial fan heaters	Warehouse and factory heating	76-77
	Quartz radiant and ceramic heaters	Workstation heating	81-83
	Air warmers	Equipment frost protection	89
<b>Care facilities</b>	LST heater & towel rail	Schools	84-85 & 41
	LST heater & towel rail	Nurseries	84-85 & 41
	LST heater & towel rail	Care homes	84-85 & 41
	LST heater & towel rail	Medical environments	84-85 & 41
<b>Other</b>	Convector heaters	Temporary building heating	60
	Portable radiators	Movable heating	62-63

\*May require the use of additional product guards. \*\*A small selection of possible applications.

Dimplex heaters are ideal for use in many commercial and industrial applications as outlined here.

This table should be taken as a guide only. Individual requirements will depend on a number of factors including size of building, insulation levels, and recommended heating level.

Don't forget heat pumps are also ideal for a wide range of commercial installations, from offices through to schools.

# Heater sizing table

Dimplex provides a number of options to meet different property and timescale requirements. If you need to obtain an indication of the heating requirements for estimating or if you need heating for one or two rooms, please use this selection guide. Alternatively, use our online calculator at: [www.dimplex.co.uk/heatdesign](http://www.dimplex.co.uk/heatdesign).

For single properties, please complete the form on page 102 and send it with a sketch plan to our heating design department. We aim to provide an accurate assessment within seven working days. For multiple properties, please send us comprehensive scale drawings (scale 1:50 or 1:100) together with construction details and any other relevant information.

We offer a 14-working-day service for this type of assessment. See page 102 for contact details.

## How to use this selection guide

The tables below provide heater-sizing guidance for traditional electric heating systems, including Quantum, storage heaters and panel heaters. For traditional electric heating the preferred options for living and dining rooms are Quantum or CXLSN combination storage heaters.

Knowing the floor area, the wall construction and the number of outside walls will determine the heater loading

in kilowatts, which is indicated in the appropriate table. These tables do not take into account particularly old properties or those built very recently. If your property fits into one of these classifications, please complete the form on page 102 so that we can provide a more accurate assessment. For sizing guidance for DuoHeat radiators please refer to page 101.

**Living or dining room:** Quantum  
Heater loading in kW. Temperature 21°C

Floor area m <sup>2</sup>	Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
	1	2	3	1	2	3	1	2	3
12	1.84	2.16	2.88	1.60	1.92	2.48	1.12	1.28	1.68
16	2.08	2.48	3.20	1.84	2.32	2.88	1.36	1.60	1.92
20	2.64	3.12	3.92	2.32	2.72	3.44	1.68	1.92	2.32
24	2.96	3.44	4.32	2.64	3.12	3.76	2.08	2.32	2.64
28	3.28	3.92	4.80	2.96	3.44	4.24	2.16	2.48	2.96
32	3.52	4.32	5.28	3.28	3.76	4.72	2.40	2.72	3.20

For XLS/XLN heaters multiply loading by 2, for CXLS multiply by 1.25.

**Bedrooms:** For bedrooms panel heaters are recommended.  
Heater loading in kW. Temperature 18°C

Floor area m <sup>2</sup>	Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
	1	2	3	1	2	3	1	2	3
8	0.8	1.3	1.7	0.8	1.0	1.4	0.8	0.9	1.4
12	0.9	1.8	2.3	0.9	1.4	2.1	0.8	1.4	1.8
16	1.2	2.1	2.7	1.0	1.7	2.2	0.9	1.6	2.1
20	1.4	2.2	3.1	1.2	2.0	2.6	1.0	1.8	2.4
24	1.5	2.3	3.4	1.2	2.1	2.9	1.0	1.9	2.5

For XLS/XLN heaters multiply loading by 1.5.

**Kitchen:** Quantum  
Heater loading in kW. Temperature 18°C

Floor area m <sup>2</sup>	Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
	1	2	3	1	2	3	1	2	3
10	1.28	1.68	2.32	1.12	1.60	1.92			
12	1.52	2.16	2.64	1.36	1.84	2.32			
14	1.68	2.40	2.88	1.60	2.08	2.48			
16	1.92	2.64	3.12	1.68	2.32	2.72			

For all kitchens with cavity wall insulation direct heating is preferred.

For XLS/XLN heaters multiply loading by 2, for CXLS multiply by 1.25.

**Commercial heating:** For greater control and economy of operation Quantum heaters are recommended. Sizing is based on a single storey with a ceiling height of 3m and a minimum of 75mm of roof insulation.

**Office:** Quantum  
Heater loading in kW. Temperature 21°C

Floor area m <sup>2</sup>	Solid walls No. of outside walls			Cavity walls No. of outside walls			Insulated cavity walls No. of outside walls		
	1	2	3	1	2	3	1	2	3
15	2.16	2.96	4.08	2.00	2.56	3.52	1.68	2.08	2.64
20	2.64	3.52	4.48	2.40	3.12	4.00	2.08	2.56	3.12
25	2.96	4.08	5.20	2.72	3.68	4.56	2.40	3.04	3.60
30	3.52	4.72	5.84	3.36	4.24	5.20	2.88	3.52	4.16
40	4.80	5.92	7.68	4.40	5.36	6.72	3.92	4.48	5.36
50	5.28	6.80	8.40	4.96	6.24	7.44	4.48	5.28	6.08

For XLS/XLN heaters multiply loading by 2, for CXLSN multiply by 1.25

Online calculator also available at [dimplex.co.uk/heatdesign](http://dimplex.co.uk/heatdesign)

# Heater sizing table

## DuoHeat® radiator sizing – replacement systems

For sizing of DuoHeat® radiators to replace existing storage heater systems, replace the existing heater with a similarly sized DuoHeat® radiator, as indicated below. Due to the consistency of heat output from DuoHeat® radiators, this will provide a significant improvement in room comfort levels throughout the course of the day.

Existing heater	DuoHeat radiator
XL/XLS12N	Duo300n
XL/XLS18N	Duo400n
XL/XLS24N	Duo500n

When considering the correct replacement for a combination storage heater, the frequency with which the convector component is used should

be taken into consideration (i.e. if it is used often, the heater may already be undersized). Therefore it is recommended that combination storage heaters are replaced with a larger size of DuoHeat® radiator, to ensure there is sufficient capacity within the system to match the capability of the convector heater being replaced. In the case of a 24kW combination storage heater, it is recommended that an additional appliance – either a second DuoHeat® radiator, Dimplex panel heater or flame effect fire is added:

Existing heater	DuoHeat radiator
CXLS12N	Duo400n
CXLS18N	Duo500n
CXLS24N	2 x Duo400n, or Duo500n + panel heater or Duo500n + flame effect fire

## DuoHeat® radiator sizing – first time installations

The following chart provides guidance on radiator sizing for first-time installations in key living areas for existing buildings. Simply select the floor area of your room from the left-hand column, and choose the correct number of outside walls from either the cavity or insulated cavity

wall columns. These tables do not take into account particularly old properties or those built very recently. If your property fits into one of these classifications, please complete the form on page 103 so that we can provide a more accurate assessment.

Floor Area m <sup>2</sup>	Cavity walls			Insulated cavity walls		
	Number of outside walls			Number of outside walls		
	1	2	3	1	2	3
12m <sup>2</sup>	Duo500n	Duo500n	Duo400n +400n	Duo400n	Duo400n	Duo500n
16m <sup>2</sup>	Duo500n	Duo400n +400n	Duo 400n +500n	Duo400n	Duo500n	Duo400n +300n
20m <sup>2</sup>	Duo400n +400n	Duo400n +400n	Duo500n +500n	Duo500n	Duo400n +300n	Duo400n +400n
24m <sup>2</sup>	Duo400n +400n	Duo400n +500n	Duo400n +400n +400n	Duo400n +300n	Duo400n +400n	Duo400n +400n
28m <sup>2</sup>	Duo400n +500n	Duo500n +500n	Duo400n +400n +500n	Duo400n +300n	Duo400n +400n	Duo500n +400n
32m <sup>2</sup>	Duo500n +500n	Duo400n +400n +400n	Duo400n +500n +500n	Duo400n +400n	Duo400n +400n	Duo500n +500n

Note: A ceiling height of 2.4m and a minimum of 75mm of roof insulation is assumed.

## How to use this selection guide.

The tables on this page are for use with DuoHeat® radiators only – for other products please refer to our selection charts on page 100. Unlike the charts on page 100, these tables cover all applications – living room, dining room, kitchen and hallway – and are designed to provide for an internal temperature of 21°C.

DuoHeat® radiators are designed to provide primary heating in main living areas, including living rooms, dining rooms, kitchen/diners and hallways/landings. This should be supplemented in other rooms, such as bedrooms and bathrooms, with Dimplex electronic panel heaters.

[dimplex.co.uk/heatdesign](http://dimplex.co.uk/heatdesign)



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## Bathrooms

Any electrical appliances installed in a bathroom should be fitted by a competent electrician in accordance with the current I.E.E. Regulations.

Portable heaters are NOT suitable for use in a bathroom.

Unless otherwise specified in this brochure, heaters that can be permanently fixed have to be so mounted that any controls cannot be reached by a person using a bath or shower. This restriction does not apply to Dimplex heated towel rails, which do not have controls.

## Safety

Dimplex products are designed to comply with EN60335 the British Standard covering the safety requirements of electric heating appliances, and momentary contact with any part of the heater should not cause injury.

However, in order to be effective, heaters or towel rails of any type do get hot especially (if applicable) around the air outlet grille. Therefore if aged or infirm persons, or young children, are likely to be left unsupervised in the vicinity of a heater we advise that precautions should be taken. We recommend that a guard is fitted around the heater, as is normal with many types of heating appliance in similar circumstances, to ensure contact with the heater is avoided and objects cannot be inserted into the product. (Please see page 43 for details of accessory guards.) Heating appliances should never be covered or positioned where objects may fall onto them.

## Specifications

Dimplex policy is one of continuous improvement; we reserve the right to alter specifications without notice. Although every care has been taken in the reproduction of product finishes in this brochure, the colour photographs should be taken only as a guide. The information contained in this brochure is correct at the time of printing. You are advised to consult your dealer before purchasing.

## Plugs

All portable appliances are supplied with a fitted plug.

## Installation Guidance

This brochure is not intended as an installation guide. For safety, products should only be installed by a competent person, in accordance with current regulations and the manufacturers instructions. If you require further advice concerning the installation of our products – especially where the installed dimensions may be critical to your choice and the location of the product – please consult your installer. Please note that the dimensions contained within this brochure do not in all cases include clearances required around installed products for safe operation.

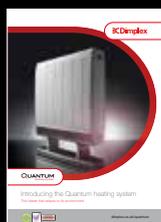
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- Help me choose selectors.
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Quantum hot water cylinder brochure



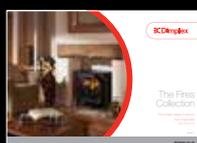
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Opti-myst effect is protected by multiple patents worldwide. All Optiflame fires are protected by patent nos GB2230335, AU621713, USA4965707, IE63651 and NZ232435.

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