Dimplex commercial®

A world of expertise

CI/SFB (56)

Dimplex in the commercial environment

Tried. Tested. Trusted.

Where people work, Dimplex works.

Tried. Tested. Trusted.

With over 60 years of innovation and experience, Dimplex is established as a world leader in energy efficient heating solutions.

For over 60 years, Dimplex has built its portfolio to the point where it is now the brand leader in electric heating, offering a selection of over 700 products within the electric space heating sector alone – the widest in the world.

Its growth can be attributed to a public who found affordable heating solutions that proved to be efficient, reliable and durable, as well as attractively designed.

- Tried and trusted by installers, specifiers and end users alike
- The world's largest electric heating appliance manufacturer
- A proud reputation for continued investment in quality and innovation
- Backed by an award winning customer services team
- Trade association membership: ECA, EDA, BEAMA and HEVAC
- Over 60 years of continued innovation
- Over 45 million heaters sold via the trade in the UK alone
- Part of the multinational Glen Dimplex Group

With Dimplex, trust is built-in.

Support

At Dimplex, our aim is to support all our customers in their purchasing journey from pre-purchase through to after sales if required. As a result we can offer:

Pre-sales Technical Guidance

Our team can advise on product specification for commercial projects large and small, with product data available either directly or via our website.

Dedicated sales team

Our sales team are divided into project and distribution focused teams so that they understand the needs of customers in different markets.

Reassuringly a member of all relevant industry associations

REGISTERED MEMBER ECA

EDA ELECTRICAL DISTRIBUTORS ASSOCIATION AFFILIATED MANUFACTURER

beama

HEVAC

Contents

After sales service

Should you have a problem with one of our products, our award winning customer services team is on hand to give you advice over the telephone.

Website

As well as the very latest product details, our website is packed full of information to help you find the right product solution.

Key features include:

- **Help Me Choose Selector**
  If you don't know which heater to choose, answer a few simple questions and get a list of our most suitable products
- **On-line Calculator**
  Ideal if you need to know how much heat you need for a room or even a whole building
- **Installation and Operating Instructions**
  Designed to help you get the best from your Dimplex heaters

www.dimplex.co.uk/commercial

Wherever people work, rest or play

A Greener Future

With the need to reduce carbon emissions hitting the headlines almost on a daily basis, it's good to know that at Dimplex finding solutions to this problem is at the heart of our products, present and the future.

Legislation in the form of the European Performance of Buildings Directive (EPBD) which seeks to reduce carbon emissions from buildings, combined with the knowledge that over 40% of the carbon emissions in the EU come from the building stock, means it's important to ensure both buildings and the services within, the heating, air conditioning and ventilation systems are designed and installed to give energy efficient performance.

Products and solutions for today and tomorrow

At Dimplex, we are acutely aware of the need to create products that are not only good to look at, easy to operate and economic to run, but also help minimise energy wastage. For example, our range of air curtains combine powerful fan performance to create a barrier between internal and external areas thereby lowering heat losses, whilst sophisticated controls reflect door usage patterns through the doors – intelligently regulating output accordingly.

However, the onus for improving the efficiency of products extends beyond the working environment into the way we live. The Energy-related products Directive (ErP) further encourages good product design, the use of recyclable materials in production and the need to eradicate product features that needlessly consume energy – like the stand-by switch on TVs and other electrical equipment.

Importance of control

Our designs always consider appropriate levels of control which preserve simplicity of operation, yet maintain close control to reflect usage patterns and guard against wasted energy use.

Our commercial and industrial fan heater ranges cover a wide range of potential applications from small workshops to large warehouses where simplified local controls placed close to the user for frequent adjustment over output is required, through to large installations where a central control system can be

timed and placed under lock and key and the heating needs can be predicted, thereby keeping a better check on energy use.

The importance of the correct heating method

The Dimplex range doesn't just reflect the need to heat the air within a building space, there are many applications where this method is inappropriate due to the building structure or the activities carried out within. It's in these environments that radiant heaters which transmit energy as short-wave infra-red are ideal and are highlighted as appropriate heaters within the building regulations too. Dimplex radiant heaters create a smaller zone of heat within a larger building space. Here, the heaters heat the subject without energy wasted to the surrounding air and can be further enhanced by fitting a PIR activity sensor to give a very effective yet efficient solution.

Renewable solutions

An increasingly important component of realising the goal of reduced CO_2 is the need to continue to develop and implement new technologies.

With the government's strategy to meet 15% of UK heat requirements from renewable sources by 2020, there has never been a better time to consider new technologies, made all the more attractive with grants like the Renewable Heat Incentive scheme (RHI) or Feed-in Tariffs (Fits) for localised electricity generation.

Dimplex has a comprehensive range of renewable products designed for space heating, water heating and for electricity generation. There are ground, air or water source heat pumps, solar thermal hot water heating systems in addition to a comprehensive range of solar photovoltaic (PV) systems, all designed to provide the best possible performance in a variety of commercial settings.

Building Regulations

In the UK building regulations set out the minimum standards and in particular, when it comes to heating in the commercial sector, it's Part L2, which covers new build and refurbishment. Part L sets challenging targets for the fabric of the building and the equipment used and importantly, requires a holistic approach with the whole building looked at as part of the compliance process, rather than just the building services once the structure is in existence. It's this change of approach, coupled with a number of proposed updates which shows the emphasis is squarely on a process that leads to a zero carbon goal in 2019 for all commercial buildings.

However, these regulations are not the only factor affecting businesses today. Other government initiatives include the Energy Performance Certificate which is issued to buildings when sold, leased or rented and highlights the structure's carbon performance, and, for public buildings, there is a requirement for a Display Energy Certificate that must be prominently positioned for all to see. In addition many commercial organisations are now pressing ahead by requesting BREAAM excellent ratings that show best practice as a method of gaining an advantage in the commercial sector too.

The government's Carbon Reduction Commitment Energy Efficiency Scheme (CRC EES) seeks to emphasise the need to reduce carbon output through taxation, whilst the Renewable Heat Incentive (RHI), Feed-in Tariffs (Fits) and Green Deal initiative all encourage the take-up of new technologies in the commercial sector.

Tried and tested solutions

With over 60 years' experience, Dimplex has provided heating, air movement and hot water solutions for commercial installations, large and small, across the country.

And as you would expect from the market leader we are experienced in working with architects, developers, contractors and builders to provide solutions to suit each installation. Here is a brief overview of a few installations we have completed.

A small selection of happy clients – more on the website

Giraffe Restaurant

Giraffe is a funky restaurant chain offering everything from breakfast to late-night cocktails, so the atmosphere requires high levels of hygiene as well as needing to continually feel fresh.

In the Milton Keynes restaurant, Giraffe selected a CAB15E air curtain to keep out draughts and pollutants, and to match the fun interior design, the unit was bespoke powder coated to a fawn colour.

Extra MSA Services Ltd

Extra MSA Services Ltd uses the CAB air curtain range at a number of its service areas to keep out the noise, pollution, dust and cold draughts of the motorway.

The automatic doorways at these sites are open for much of the day, but the services benefit from the flexibility of the modular air curtains, using both 1m and 1.5m long units fitted in pairs, to cover doorways ranging in size up to 3m wide.

Kingsway Hall Hotel

There's a warm reception for visitors to the prestigious Kingsway Hall Hotel in London's Covent Garden, with the installation of a Dimplex ARC architectural air curtain that helps prevent draughts from frequently opening doors.

The two metre high doors open into the main reception and adjacent busy bar area, so draughts, particularly on cold days, were recognised as a particular problem requiring a specialist solution. A stainless steel Dimplex ARC architectural air curtain was selected and installed over the doorway to meet the exacting specifications.

The Outlet

Jaeger, Pilot, Julian Graves and Regatta are among the well known brand names at Belfast's The Outlet designer shopping centre that have chosen Dimplex CAB and DAB air curtains to provide an invisible barrier of air to keep either warm or cold air in when doors are frequently opened.

The shopping centre attracts high footfall from a wide catchment and many of the stores needed assistance to improve indoor air quality, minimise draughts and dust and maintain a warm welcome within the store.

Giraffe interior

Couple of renewable technology case studies – many more on the website

Dune Shoe Shop

For a trendy Dune shoe shop in South Molton Street, London, time and flexibility in fitting a new air curtain were of the essence, as the installation was during the busy Christmas shopping season, so it had to be installed overnight to allow for normal trading the next day.

Dimplex was specified for the air curtains as no other manufacturer's product offers the dual flexibility option of recessed or surface mounting from one single model. The retail designer had specified the doorway width and a Dimplex CAB unit was selected to give the best coverage of the entrance.

Fawley Power Station

Electric heating from Dimplex has been selected to help keep a major south coast power station running, with a selection of industrial fan heaters, panel convectors and radiant heaters making sure workers are comfortable year-round.

Electric heating is a good choice for an industrial installation like Fawley, as it brings no fuel storage worries. In addition, maintenance requirements are very much lower and less complicated than appliances running on other fuels.

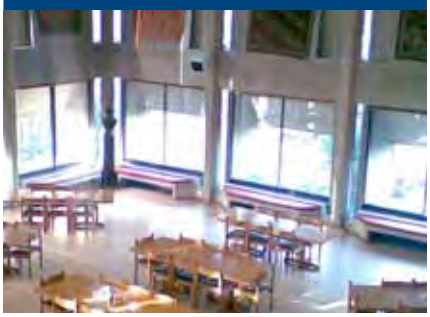
Travelodge Hotel

A new 53 bedroom Travelodge in Devizes, Wiltshire was fitted with Dimplex air source heat pumps to help meet Building Regulations and Merton Rule criteria. The new £2.6million Travelodge had three Dimplex LA 28 AS air source heat pumps installed to pre-heat domestic hot water for the hotel. The freestanding units have a flow temperature up to 55 degrees Celsius and are designed for outdoor installation with a powder-coated metal casing to withstand the British climate, making them ideal for specification where internal space is limited.

Healthy Living Centre

Heralded locally as a flagship demonstration of how green technologies can be used to the benefit of a whole community, the new £8m Healthy Living Centre in Staveley, Derbyshire has installed Dimplex ARC architectural air curtains as part of an extensive list of energy saving measures. These bespoke air curtains were the ideal choice for this project as they provide a rare combination of designer looks and energy saving performance that complements the renewable technologies employed whilst being colour matched to the building too.

Oxford University



When an Oxford University college needed to improve comfort levels in a hard-to-heat dining hall, Dimplex's commercial heating experts came up with an efficient solution to keep students warm year-round.

By combining a fast warm-up from powerful fan heaters with an air curtain to minimise heat loss from the doorways, the Dimplex solution quickly raises room temperatures to comfortable levels and easily retains the warmth for the duration of the hall's use.

House of Bruar Retail Park

Fresh air is providing one of Scotland's most prestigious retailers with up to £10,000 in energy savings thanks to four high powered Dimplex air source heat pumps linked to a master controller.

The heat pumps provide active heating and passive cooling. They are linked to a master controller which is capable of year-round control of up to 14 heat pumps and 30 different performance measurements and to date the fuel savings compared with using oil are estimated to be 60%.

How they work

What's the benefit?

Doors can remain open

By creating an 'invisible door' using the fast moving airstream people can pass easily from area to area without doors hindering progress.

Prevents heated or cooled air escaping

An effective air curtain separates two zones allowing different temperatures to be maintained without doors hindering access.

Reduces draughts and discomfort

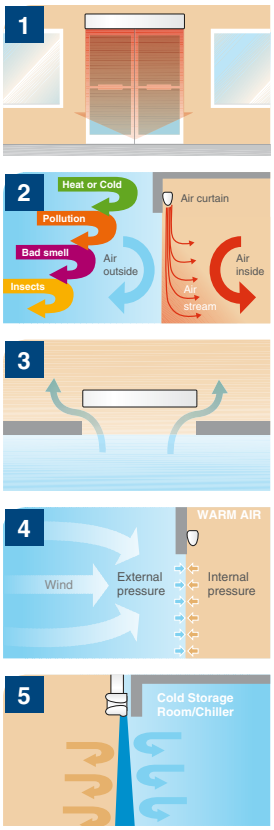
Comfort levels for staff, customers and visitors close to the doorway are increased by air curtains reducing draughts through frequently opening doorways.

Energy saving

Costs of running heating and air conditioning systems can be reduced by up to a third with air curtains as they help to seal the building from the environment, making the building more energy efficient. Auto 'door sensing' controls give further savings over running costs.

Reduced ingress of insects and pollutants

Insects, pollens and other airborne pollutants can be minimised with air curtains as they block much of these from entering the building.



How do they work?

1 Air curtains work by separating two different temperature zones with an invisible curtain of air. They provide a fast moving airstream to block air movement through the door whilst allowing the door to remain open.

2 Placing an air curtain above or to the side of the entrance covering the full door width maximises performance by stopping heated air escaping in winter, or cooled air escaping in summertime. This barrier effect can help reduce energy costs by up to a third*.

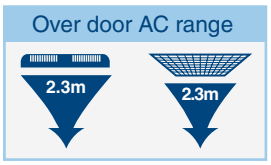
3 Positioning the air curtain too far from the entrance compromises performance with air leaking around the airstream.

4 Where extractor units are used within the building, ventilation should also be provided to equalise pressure differences for maximum air curtain effectiveness.

5 By retaining the cooled air within a cold storage room, an air curtain dramatically reduces waste energy and gives unhindered access from area to area. With no doors or curtains to reduce visibility, user safety is improved for those moving around the building.

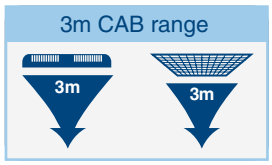
The air curtain range

Small commercial



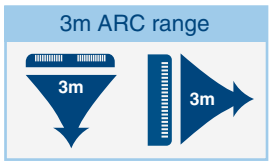
Provides multi-directional powerful heating above the entrance to shops and small doorways. These units operate up to 2.3m from the floor.

Medium commercial



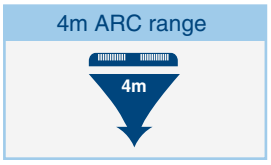
Offers a curtain of air across entrances up to 3m from the floor. Recess mounted versions available.

Designer 3m



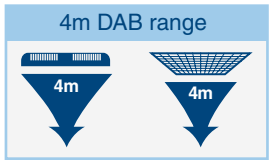
Designed for prestigious entrances where style and finish are paramount. Horizontal and vertical models are available in a range of appealing finishes.

Designer 4m



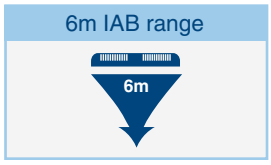
Designed for prestigious entrances where style and finish are paramount. Horizontal and vertical models are available in a range of appealing finishes.

Large commercial



Engineered for high output performance over doors up to 4m. These air curtains can also be supplied for recess installations.

Industrial



Powerful industrial air curtains for large doors up to 6m high.

*Dependant on installation.

scan for more info
dimplex.co.uk/ache

Key features

Every product gives you energy savings as standard

Eco installation mode

Where appropriate Dimplex air curtains can be set to permanently consume up to 50% less energy for reduced running costs.

Passive infra-red sensor mode

Control the air curtain using a PIR sensor and save energy whenever the air curtain is not needed. Another inexpensive solution from Dimplex.

Dual door control

On double doors where one door remains closed the Dimplex 2m unit can switch off half the air curtain airstream over the closed door for further energy savings.

Thermostat regulation mode

No need for PWM systems that cost the earth. Thermostatic regulation fitted as standard** is the most cost effective way to save energy. Switching heat in and out as conditions dictate without limiting performance.

Interlocked installation mode

Connect to a compatible HVAC system and save up to 50% running costs as the air curtain modulates according to the HVAC system.

Interlocked and eco mode

Run the air curtain in eco mode and link to the HVAC system to save up to 97% of running costs.

Auto door sensor mode

Fitting a door contact to the air curtain electronics will bring auto operation and savings whenever the doors are closed.

BMS

Connect to a full function BMS system and control according to overall building energy management settings for greater savings.

** Model specific.

Energy savings – test proves it.

Many traditional air curtains in use today were installed when energy conservation was not a priority and do not have any ‘eco’ functionality.

There is an increasing responsibility on the building owner/tenant to ensure the product used maximises carbon efficiency and minimises running costs. Dimplex air curtains are designed to meet this criteria and the results of a test held in association with Clinton Cards shown below prove this.

Saving energy

By careful installation of the air curtain to fit the open entrance width and height together with using the product’s thermostatic regulation to control its eco mode, this test proves how much energy can be saved in operation compared with a typical installation found on the retail high street.

Cutting costs

As equipment running costs fall, so do the carbon emissions from the building as a whole. This test shows what is possible by selecting and fitting the correct air curtains. If you would like more details on this test, please contact marketing@dimplex.co.uk

Carbon emissions (kg CO_2)

Old air curtain	489kg
New Dimplex air curtain	68kg

Running cost £

Old air curtain	£96
New Dimplex air curtain	£13

By controlling the operation of the air curtain automatically according to the surrounding temperatures, the ‘eco’ air curtain makes a significant running cost saving over just a short ten day test period. In time, these savings would make an important contribution to the carbon savings from the building.

OVER DOOR HEATERS

The AC surface mounted range


Model AC6N

Features

- Provides a 'Warm Welcome' above single and double doorways
- Integral control over full heat, half heat and fan only settings
- Adjustable airflow direction
- Can be used as a high level fan heater
- Infra-red remote control model available (AC3RN)
- Model AC3N, AC3RN and AC45N designed for single doorways
- Model AC6N designed for double doorways
- Colour white

Dimplex AC over door heaters provide multi-directional, powerful and effective heating above the entrance to shops, offices and almost any small doorway.

When fitted above an open door, the warm airflow encourages trade by allowing doors and entrances to remain 'open for business' in many commercial applications.

The AC over door heaters are also ideal for any situation where a high-level fan heater is required, and offer increased convenience with the remote control AC3RN version.

Technical specification

Model	AC3N	AC3RN	AC45N	AC6N
Max recommended mounting height	2.3m	2.3m	2.3m	2.3m
Heat output	1.5/3.0kW	1.5/3.0kW	2.25/4.5kW	3.0/6.0kW
Voltage	230V~ 1PN	230V~ 1PN	230V~ 1PN	230V~ 1PN
Current (A)	13A	13A	19A	26A
Noise dB (A)*	50.5	50.5	52.0	57.0
Air volume m^3/h	212	212	248	446
Max air speed m/s**	5.0	5.0	5.0	5.5
Approvals	BEAB			

*Measured 3m from the product, outside the airstream. **Effective airflow with cover fitted.

Please see pages 34 – 38 for dimensional details

Model AC3N

Recommended height


Adjustable


Remote control

scan for more info
dimplex.co.uk/ac

The AC recessed range

NEW MODEL

Model AC3CN in situ

Features

- Full heat, half heat and fan only modes
- New linear vane grille with hinged access
- Wall mounted control included as standard (BS double gang)
- Suitable for 300 x 600mm and 600 x 600mm ceiling installations
- Suitable for plasterboard or suspended ceilings
- Drop-rod or metal wire mountings

The Dimplex AC3CN is designed to provide subtle heating where wall space is limited and fast response is needed.

This model can be fitted as a ceiling heater or close to a door as a 'warm welcome' and is now fitted with a new white linear vane grille with hinged access for easy installation and connection.

Supplied complete with recess grille and wall controller.

Technical specification

Model	AC3CN
Max recommended mounting height	2.3m
Heat output	1.5/3.0kW
Voltage	230V~ 1PN
Current (A)	13A
Noise db (A)*	52.0
Air volume m^3/h	175
Max air speed m/s**	3.2
Approvals	BEAB

*Measured at 3m from the product, outside airstream. **Effective airflow with cover and grille fitted.

Please see pages 34 – 38 for dimensional details

Recommended height

Wall controller

Model AC3CN

scan for more info
dimplex.co.uk/ac

The CAB surface mounted range


Model CAB15E

Range features

- High output airstream for entrances up to 3m high
- Modular design for simple product linking over any door width
- Fully integrated links to BMS/BEMS systems for centralised energy control
- Electronic control system with full heat, half heat and fan only settings†
- Electronic fan overrun control when used with compatible door sensors
- Auto output control reduces energy use when doors closed
- 'Easy-fix' wall bracket provided for a quick alternative to standard drop-rods
- Tamper-proof thermostatic operation for further control over running costs†
- Wide 40° airflow direction adjustment
- Wall mounted controls included as standard
- Electric models can be modified for single phase connection at reduced output

† Dependent on model.

Model CAB20E

scan for more info
dimplex.co.uk/cab

A comprehensive range of electronically controlled air curtains for surface mounted installation up to a maximum of 3m from the floor.

With electric, water and ambient models available, the range can be linked together as one system over door widths of up to 10m and controlled via one wall mounted controller.

Technical specification

Model	Electrically heated			Water heated (at 82/71°C – LPHW)			Ambient and cold store		
	CAB10E	CAB15E	CAB20E#	CAB10W	CAB15W	CAB20W#	CAB10A	CAB15A	CAB20A#
Max mounting height	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m
Door width	1m	1.5m	2m	1m	1.5m	2m	1m	1.5m	2m
Heat output	4.5/ 9.0kW	6.75/ 13.5kW	9.0/ 18.0kW	9.0kW	13.5kW	18.0kW	n/a	n/a	n/a
Voltage	400V~ 3PN			230V~ 1PN			230V~ 1PN		
Supply rating (A)*	13.5	20.0	27.0	0.3	0.5	0.6	0.3	0.5	0.6
Noise dB (A)** (high/low airflow)	54/50	55/51	56/52	53/49	54/50	55/51	54/50	55/51	56/52
Air volume m^3/h	1200	1800	2400	1100	1700	2200	1200	1800	2400
Max airflow m/s	9	9	9	8	8	8	9	9	9
Approvals	BEAB								

*Amps per phase. **Measured 3m from product, outside airstream. #Supplied as 2 x 1m units.

Please see pages 34 – 38 for dimensional details

Maximum entrance height 3m | Electrically heated | Water heated | Ambient and cold store | Colour customisation

The CAB recessed range

Model CAB15WR

With the same comprehensive specification as their surface mounted cousins, the CAB recessed models are perfect for suspended or plasterboard ceiling installations with controls included as standard.

With the popular 1m, 1.5m and 2m wide doors catered for, there's a recess mounted CAB suited to fit almost all door widths.

Technical specification

Model	Electrically heated			Water heated (at 82/71°C – LPHW)			Ambient and cold store		
	CAB10ER	CAB15ER	CAB20ER#	CAB10WR	CAB15WR	CAB20WR#	CAB10AR	CAB15AR	CAB20AR#
Max mounting height	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m	3.0m
Door width	1m	1.5m	2m	1m	1.5m	2m	1m	1.5m	2m
Heat output	4.5/ 9.0kW	6.75/ 13.5kW	9.0/ 18.0kW	9.0kW	13.5kW	18.0kW	n/a	n/a	n/a
Voltage	400V~ 3PN			230V~ 1PN			230V~ 1PN		
Supply rating (A)*	13.5	20.0	27.0	0.3	0.5	0.6	0.3	0.5	0.6
Noise dB (A)** (high/low airflow)	54/50	55/51	56/52	53/49	54/50	55/51	54/50	55/51	56/52
Air volume m^3/h	1200	1800	2400	1100	1700	2200	1200	1800	2400
Max airflow m/s	9	9	9	8	8	8	9	9	9
Approvals					BEAB				

*Amps per phase. **Measured 3m from product, outside airstream. #Supplied as 2 x 1m units.

Please see pages 34 – 38 for dimensional details

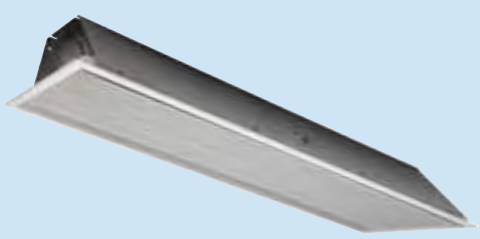
Maximum entrance height | Electrically heated | Water heated | Ambient and cold store | Colour customisation

Range features

- High output airstream for entrances up to 3m high
- Modular recess design suited to almost any door width
- Fully integrated links to BMS/BEMS systems for centralised energy control
- Electronic control system with full heat, half heat and fan only settings†
- Electronic fan overrun control when used with compatible door sensors
- Auto output control reduces energy use when doors closed
- 'Easy connect' control system for fast installation
- Tamper-proof thermostatic operation for further control over running costs†
- Separate wall controls able to control up to ten units as a system
- Wall mounted controls included as standard
- Electric models can be modified for single phase connection at reduced output

†Dependent on model.

Model CAB10ER Electric Recessed



scan for more info
dimplex.co.uk/cab

ARCHITECTURAL
AIR CURTAINS

The ARC architectural range

Range features

- Horizontal installation up to 3m
- Optional vertical installation up to 3m
- Choice of brushed or polished stainless steel or painted finish
- Electronic control system with full fan and heat control
- Electronic overrun control with compatible door sensor
- Wall controls as standard
- Water heated models can be supplied for connection to low temperature heat sources

Designed as a feature

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

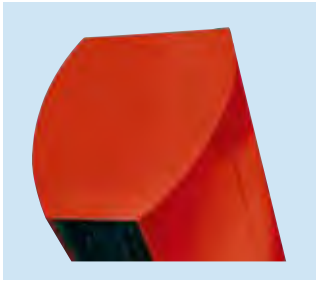
Offered for installation above the door or either side as vertical units, they can be supplied to bespoke requirements and all can be finished to a high standard in either brushed stainless steel, mirror polished stainless steel or coloured to customer preference.

As with all Dimplex air curtains, multiple units can also be linked together as a system and operated from the controller supplied as standard.

Designed to complement

scan for more info
dimplex.co.uk/arc

Designed to fit in



Various finishes

Please see pages 34 – 38 for dimensional details

Maximum entrance height 3m

Vertical

Colour customisation

Electrically heated

Radiant effect

Water heat high/low temperature

The ARC architectural range

Designed to perform

Range features

- Horizontal installation up to 4m
- Choice of brushed or polished stainless steel or painted finish
- Electronic control system with full fan and heat control
- Electronic overrun control with compatible door sensor
- Wall controls as standard
- Water heated models can be supplied for connection to low temperature heat sources

For entrances up to 4m in height, these high power architectural air curtains offer the same designer looks but greater performance.

They are specifically designed for larger entrances and atriums where extended performance and designer looks go hand in hand.

A full function control system brings all of the same flexibility enjoyed in all the Dimplex air curtain ranges giving the best mix of performance, design and economy in use.

Prestigious entrances

Please see pages 34 – 38 for dimensional details

Maximum entrance height | Colour customisation | Electrically heated | Radiant effect | Water heat high/low temperature

Larger entrances

scan for more info
dimplex.co.uk/arc

HIGH POWER COMMERCIAL AIR CURTAINS

The DAB surface mounted range


2 x model DAB15E

Range features

- High output airstream for entrances up to 4m high
- Modular design for simple product linking over any door width
- Fully integrated links to BMS/BEMS systems for centralised energy control
- Electronic control system with full heat, half heat and fan only settings†
- Electronic fan overrun control when used with compatible door sensors
- Auto output control reduces energy use when doors closed
- 'Easy-fix' wall bracket provided for a quick alternative to standard drop-rods
- Tamper-proof thermostatic operation for further control over running costs†
- Wide 40° airflow direction adjustment
- Separate wall controls able to control multiple units as a system
- Electric models can be modified for single phase connection at reduced output†

† Dependent on model.

A high power range of air curtains designed specifically for mounting up to 4m from the floor using the same electronic controls and exterior design as the smaller CAB series.

With wide airflow adjustment and easy bracket mounting, the installation of either electric, water or ambient models has never been easier.

Technical specification

Model	Electrically heated			Water heated (at 82/71°C – LPHW)			Ambient and cold store		
	DAB10E	DAB15E	DAB20E#	DAB10W	DAB15W	DAB20W#	DAB10A	DAB15A	DAB20A#
Max mounting height	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m
Door width	1m	1.5m	2m	1m	1.5m	2m	1m	1.5m	2m
Heat output	6.0/ 12.0kW	9.0/ 18.0kW	12.0/ 24.0kW	12.0kW	18.0kW	24.0kW	n/a	n/a	n/a
Voltage	400V~ 3PN			230V~ 1PN			230V~ 1PN		
Supply rating (A)*	18.9	27.5	37.8	1.5	2.3	3.0	1.5	2.3	3.0
Noise dB (A)** (high/low airflow)	58/52	59/53	60/54	57/51	58/53	59/55	58/52	59/53	60/54
Air volume m^3/h	3000	4000	6000	2500	3500	5000	3000	4000	6000
Max airflow m/s	13.5	13.5	13.5	13.0	13.0	13.0	13.5	13.5	13.5
Approvals	BEAB								

*Amps per phase. **Measured 3m from product, outside airstream. #Supplied as 2 x 1m units.

Please see pages 34 – 38 for dimensional details

Model DAB10E

scan for more info
dimplex.co.uk/dab

Maximum entrance height


Electrically heated


Water heated


Ambient and cold store


Colour customisation

The DAB recessed range

Model DAB10ER

Based on the DAB air curtains, these models allow recess mounting within plaster or suspended ceilings and can be linked together as a system when desired.

Whether it's the full 4m mounting height that's required, or use over entrances with high external wind pressure, these models are sure to be up to the job.

Technical specification

Model	Electrically heated			Water heated (at 82/71°C – LPHW)			Ambient and cold store		
	DAB10ER	DAB15ER	DAB20ER#	DAB10WR	DAB15WR	DAB20WR#	DAB10AR	DAB15AR	DAB20AR#
Max mounting height	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m	4.0m
Door width	1m	1.5m	2m	1m	1.5m	2m	1m	1.5m	2m
Heat output	6.0/ 12.0kW	9.0/ 18.0kW	12.0/ 24.0kW	12.0kW	18.0kW	24.0kW	n/a	n/a	n/a
Voltage	400V~ 3PN			230V~ 1PN			230V~ 1PN		
Supply rating (A)*	18.9	27.5	37.8	1.5	2.3	3.0	1.5	2.3	3.0
Noise dB (A)** (high/low airflow)	58/52	59/53	60/54	57/51	58/53	59/55	58/52	59/53	60/54
Air volume m^3/h	3000	4000	6000	2500	3500	5000	3000	4000	6000
Max airflow m/s	13.5	13.5	13.5	13.0	13.0	13.0	13.5	13.5	13.5
Approvals	BEAB								

*Amps per phase. **Measured 3m from product, outside airstream. #Supplied as 2 x 1m units.

Please see pages 34 – 38 for dimensional details

Maximum entrance height | Electrically heated | Water heated | Ambient and cold store | Colour customisation

Range features

- High output airstream for entrances up to 4m high
- Modular recess design suited to almost any door width
- Fully integrated links to BMS/BEMS systems for centralised energy control
- Electronic control system with full heat, half heat and fan only settings†
- Electronic fan overrun control when used with compatible door sensors
- Auto output control reduces energy use when doors closed
- 'Easy connect' control system for fast installation
- Tamper-proof thermostatic operation for further control over running costs†
- Separate wall controls able to control multiple units as a system
- Electric models can be modified for single phase connection at reduced output†

†Dependent on model.

Model DAB15WR

scan for more info
dimplex.co.uk/dab

INDUSTRIAL
AIR CURTAINS

The IAB industrial range

2 x Model IAB15W

Features

- Super high output airstream for doors up to 6m high
- Auto output control reduces energy use when doors closed
- Adjustable air outlet vanes
- Electronic control system with full heat and fan speed control†
- Electronic overrun control when used with a compatible door sensor
- Fully integrated links to BMS/BEMS systems for centralised energy control
- 'Easy connect' control system gives single point control over multiple units
- High power centrifugal blowers for large air movement
- Wall controls included as standard

†Dependent on model.

A range of air curtains designed for industrial applications and areas where the highest performance is required up to 6m from the floor 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, whilst improving the working environment too.

Both 1m and 1.5m units are available in either LPHW, electric or ambient versions, and can be linked together as a complete air curtain system.

Technical specification

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					
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 m^3/h	4500	6900	4500	6900	4500	6900
Max airflow m/s	18					

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

Please see pages 34 – 38 for dimensional details

Model IAB10W

scan for more info
dimplex.co.uk/iab

Maximum entrance height | Electrically heated | Water heated | Ambient and cold store

Overview of the Dimplex Renewable Solution

Dimplex has the largest range of heat pumps in the UK, together with an extensive range of hot water cylinders and heat emitters which are designed to look after a complete system solution. These are supported by a wide range of solar thermal and solar PV products. An overview is below but full details are available at **www.dimplex.co.uk/renewables**.

Heat pumps 1+2

Ground Source Heat Pump (1)
Air Source Heat Pump (2).
Heat pumps are increasingly becoming the solution of choice to provide low carbon heating and hot water. In the commercial sector solutions are also available for cooling and waste heat recovery.

Solar thermal hot water heating 3

An ideal complement to heat pumps, solar thermal systems provide free hot water during the warmer months of the year.

Unvented hot water storage 4

Allows renewable energy from multiple sources to be stored for use when it is needed, delivering high performance hot water.

Space heating 5

Low temperature SmartRad radiators are the ideal complement for heat pumps to deliver low energy heating.

Solar PV systems 6

Allows the electrical consumption of appliances, heat pumps, SmartRad radiators and mechanical ventilation systems to be offset by production from renewable energy.

Whole building systems ventilation 7

Enables airtight building construction while providing controlled ventilation for the health and well-being of building occupants, balancing the competing demands of airtightness and adequate air exchange.

How they work

What's the benefit?

Economical building heating

One of the most simple to install methods of heating a building, airflow can be directed wherever needed whenever needed.

Fast response heat

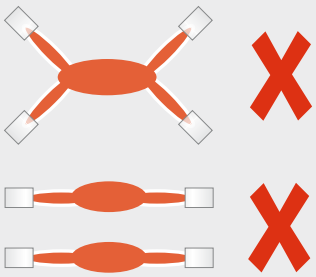
Where other systems require pre-heating, fan heaters provide heat to quickly address a short fall or boost the temperatures.

Flexible heating

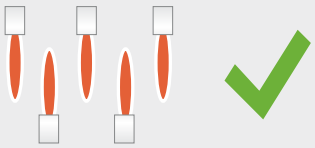
Commercial fan heaters are as adept at providing a temporary heat source as they are when permanently installed.

Positioning

Incorrect positioning



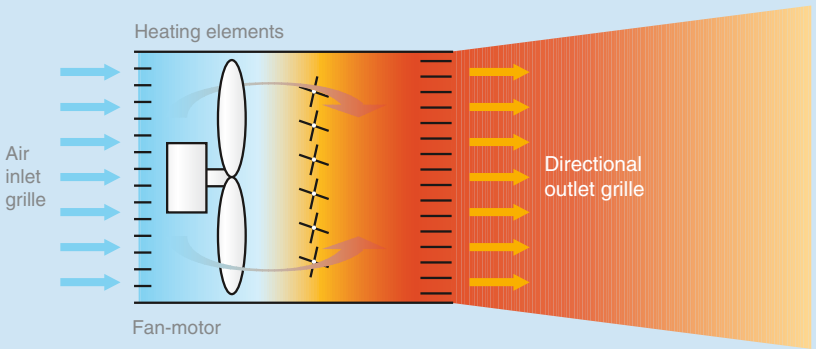
Correct positioning

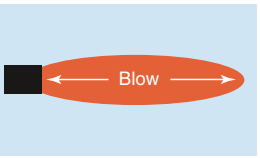


The direction of the fan heaters when more than one are used also affects efficiency. By directing airflows so they do not clash, as shown, a more even temperature will be achieved across the whole building area.

How do they work?

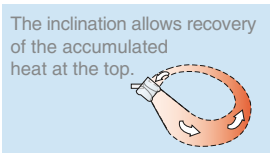
Fan heaters work by forcing air across an element or heater battery to heat the ambient air in a given space. The more air that passes across the heating element the more quickly the temperatures will rise in that area.





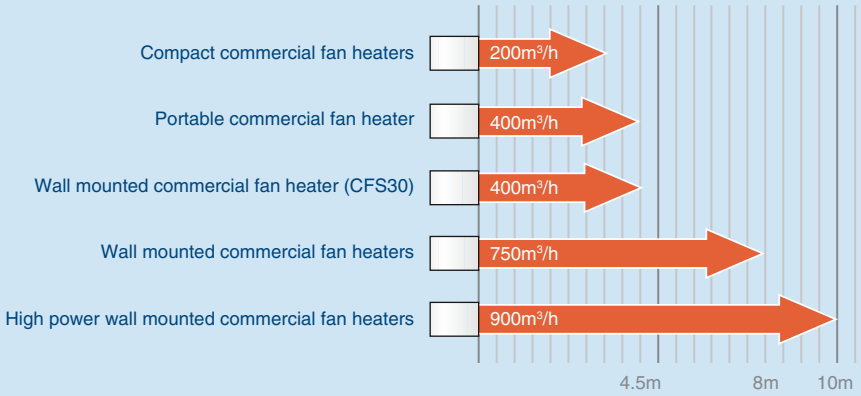
The velocity and distance the air is moved also affects the heaters ability to heat. The faster the airflow moves, the less time it has to be warmed by the elements giving rise to greater areas being heated to lower temperatures.

As heat rises, so heated air naturally heads for the ceilings giving a stratification of warmer air at the ceiling down to cooler air at ground level. For this reason, it is always recommended to install de-stratification fans to help keep warmer, heated air at ground levels where it will be experienced most.



Where de-stratification fans are not available, the positioning of fan heaters at a higher mounting level blowing down can help to offset the effects of rising warm air by pushing this air back towards ground level.

Performance chart



scan for more info
dimplex.co.uk/fhe

Key features

There are four types of fan heater in the our commercial range, providing a heating solution for most applications.

Compact commercial fan heaters

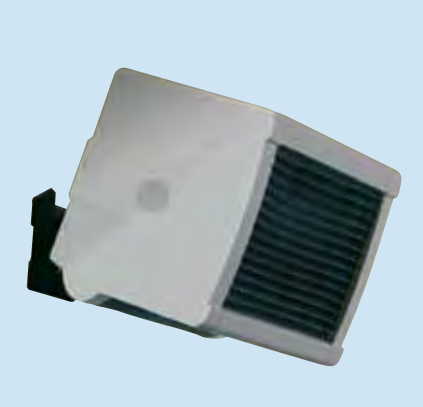
Providing cost effective localised heating, this range is perfect where an occasional heating boost is needed. Models with and without wall controls are available.

Portable commercial fan heater

Designed for commercial environments where high visibility and rugged construction is a must.

Wall mounted commercial fan heaters

With rugged construction and high quality components, these heaters come as standard with wall mounted controls giving a cost effective heating solution.



High power wall mounted commercial fan heaters

Offering electronic system control, these heaters are operated from one additional controller with programmable digital thermostat and timer functions across the range.

Features

- Suitable for small rooms to larger industrial environments
- Wide range of models with outputs from 3kW – 12kW
- Fan heating systems with up to 120kW available
- Choice of portable or wall mounted models
- Single heater controls or electronic system control options
- Multi-directional wall brackets and rugged handles included*
- Heavy duty construction for reliable long service
- Long life, durable components used throughout

* Dependent on model.

COMPACT COMMERCIAL
FAN HEATERS

The PFH compact range

Features

- Stylish heater design with low noise performance
- Thermostatic control fitted to all models giving the optimum balance between heat requirements and low running cost
- Fan only mode provides air circulation for summer use
- Multi-directional wall bracket giving 40° vertical and 120° horizontal adjustment
- Single screw angle adjustment
- Remote control supplied as standard with PFH30R model offering thermostat and full heater control
- Grey finish

Model PFH30

Perfect for use in garages, workshops, offices, store rooms or almost any small commercial situation.

These heaters are designed to provide unobtrusive heating with automatic thermostatic control and multi-adjustable mounting bracket all included as standard. With performance tuned for maximum heating effect, these heaters are sure to provide an effective and economical heating solution.

The PFH30 model provides 3kW heating output with built-in thermostatic control in a stylish housing that will blend in with its surroundings, whilst the remote control PFH30R adds a wall controller over all heater functions and room temperature levels as standard.

Technical specification

Model	PFH30	PFH30R
Heat output	3.0kW	3.0kW
Voltage	230V~ 1PN	230V~ 1PN
Airflow m^3/h	200	200
Noise dB (A)*	24	24
Max air temp**	58°C	58°C
Thermostat	5°C – 35°C	5°C – 35°C
Approvals	BEAB	

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

Please see pages 34 – 38 for dimensional details

Models PFH30 (left) and PFH30R (right)

scan for more info
dimplex.co.uk/pfh

Wall controller

Thermostatic control

Adjustable

The CFP and CFS ranges


Model CFS30

A range of robust portable wall mounted fan heaters suited for general purpose commercial and light industrial use. These models provide fast, flexible heating wherever and whenever it is needed.

The CFP30 portable model is perfect for occasional heating needs with sturdy construction, 3kW output and thermostatic control.

The CFS models are designed to offer economic heating for small to medium sized commercial environments. Sold complete with wall controller, they offer an all-in-one solution for many commercial and light industrial premises.

CFP range features

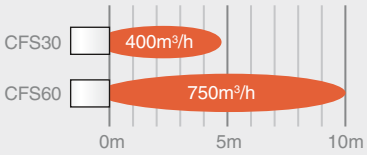
- Rugged styling with 'chunky' go anywhere appearance
- Integral controls with thermostatic control for optimum comfort levels with low running costs†
- Fan only, half heat, full heat settings
- Durable floor stand and handle
- Yellow and black finish

CFS range features

- Heavy duty corrosion resistant case
- Multi-directional wall bracket
- Wall controller with fan only, half and full heat selection (double gang size) included
- White case with black grilles

†Dependent on model

Airflow performance



With higher fan speeds the CF range conditions air over a greater distance.

Technical specification

Model	CFP30	CFS30#	CFS60#
Heat output	3.0kW	3.0kW	6.0kW
Voltage	230V~ 1PN	230V~ 1PN	230V~ 1PN 400V~ 3PN
Airflow (m³/h)	400	400	750
Noise dB (A)*	37	37	50
Throw (m)	4.5	4.5	8
Air off temp °C**	35	35	45

*Measured 1m from unit outside airstream. **Calculated at 21°C return air temperature. #Controller included.

Please see pages 34 – 38 for dimensional details


Wall controller

Thermostatic control

Adjustable


Model CFP30

scan for more info
dimplex.co.uk/cf

The CFH high power range

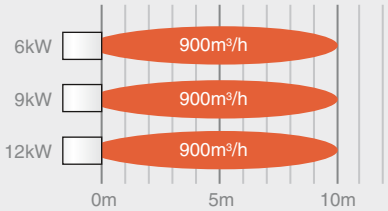

Model CFH90

Features

- High power range for larger installations
- Digital central control system gives close time and temperature control for optimised energy use
- Powerful airflow for maximum air circulation
- Simple low voltage connection system using standard PC network cable
- Multi-directional wall mounting brackets
- Electronic control with 7 day timer and multiple programming features†
- Independent fan and heat level control
- Full electronic room thermostat for accurate control†
- Full function system control over up to 10 heaters†
- Electronic 'power on' self check

†Requires CFCH controller.

Airflow performance



With higher fan speeds the CFH models condition more air over greater distances.

High power electronic fan heaters that offer a full heating system to larger industrial environments. These heaters use centrifugal blowers for faster airflow and heavy duty elements for effective heating, in the most challenging environments.

An additional controller allows control of up to 10 heaters with accurate digital programming control built-in, and is connected via a simple PC network cable.


Model CFH120

scan for more info
dimplex.co.uk/cfh

Technical specification

Model	CFH60	CFH90	CFH120
Heat output	6.0kW	9.0kW	12.0kW
Voltage	400V~ 3PN 230V~ 1PN	400V~ 3PN 230V~ 1PN	400V~ 3PN 230V~ 1PN
Noise dB (A)*	60	60	60
Airflow m³/h	900	900	900
Throw	10m	10m	10m
Air off temp °C**	40	55	65

*Measured 3m from product, outside airstream. **Calculated at 21°C return air temperature.

Please see pages 34 – 38 for dimensional details

The CFCH control system

Multiple heater control

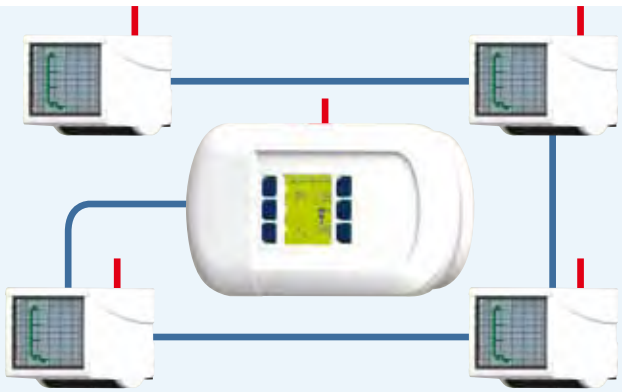
Designed for exclusive use with the Dimplex CFH range of industrial fan heaters.

The CFCH control system* provides central control over multiple fan heaters connected via the simple electronic control bus system fitted to all CFH range heaters. With building heating requirements up to 120kW, this control system has a number of key features for convenient automatic operation in larger buildings.

* Required for all CFH heating systems.

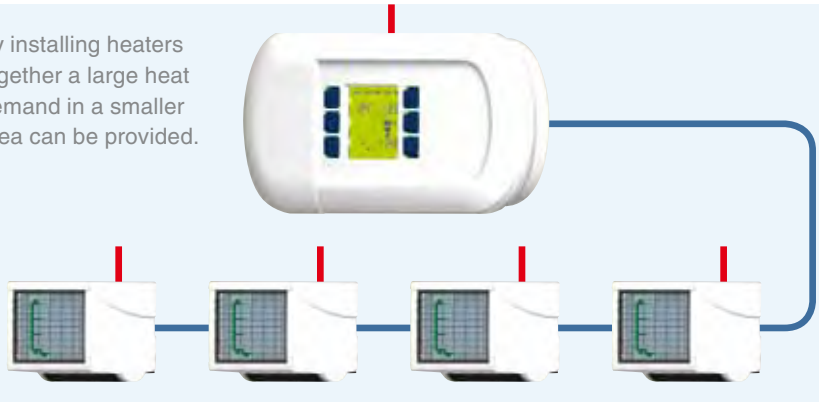
Centrally controlled building heating

By installing heaters throughout the room/building a centrally controlled system is provided with auto control functions for the full system.



Focused heating with single point control

By installing heaters together a large heat demand in a smaller area can be provided.



PC Network Cable (CAT5) Electrical supply

CFCH features

- **Multiple heater control**
  Using standard PC network cable allows control over 10 heaters at once.
- **Fan and heat selection**
  Independent control with graphical display.
- **Electronic room thermostat**
  Ambient and target temperature display with 1°C adjustment steps.
- **7 day programming**
  Up to 32 individual time programmes available.
- **Run back timer**
  Up to 5 hour delay can be set.
- **Low voltage control**
  Control signals operate at low voltage over (CAT5) PC network cable.

How they work

What's the benefit?

Heats like the sun

Radiant heat passes through the air and heats solid objects making it highly efficient wherever it's installed.

Instant heat

No need for expensive pre-heating, these heaters give heat instantly, cutting the cost of heating intermittently used buildings.

Low running costs

Because only the intended occupants are heated, not the air around them, you only pay for the heat you really need, rather than a whole building or area.

Silent running

With no moving parts, the Dimplex heaters are silent when operating, making them perfect where noise would otherwise be a problem.

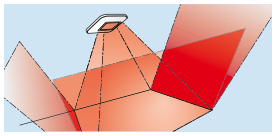
Low capital cost

By only heating chosen areas, capital costs can be reduced with fewer heaters when compared with other systems sized to heat whole buildings.

How does radiant heating work?

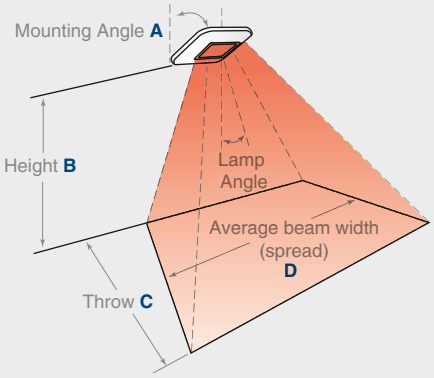
In contrast to fan based heating, radiant heaters use the oldest form of heating known to man. Just as the sun's rays heat the earth, so our radiant heaters use this same method of heating objects (the earth, people, buildings etc) rather than the air between them for effective performance.

These radiant heaters transmit infra-red energy which is converted into heat when it is absorbed by objects which in turn then begins to warm the surrounding areas as surface temperatures rise.



Because the energy is only turned into heat as it comes into contact with solid objects, this heating technology can be used either indoors where building insulation would normally be a problem, or outdoors where localised people heating is desired. In this instance the heat provided is highly efficient as very little is lost into the atmosphere, unlike other methods of heating.

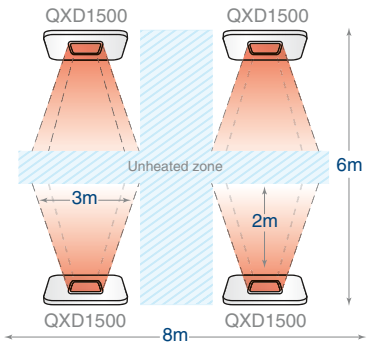
Heater coverage



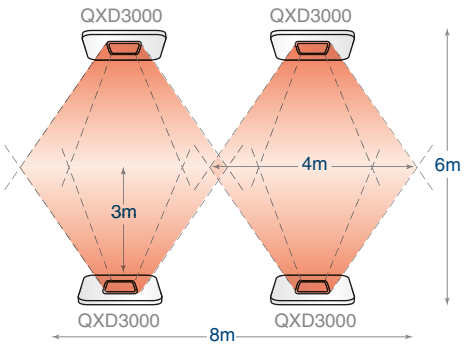
Mounting angle is the angle between the wall and the rear panel of the heater.

Positioning

Heaters installed from both sides ensure even heating as illustrated below.



Incorrect positioning



Correct positioning

Performance tips

- Heaters should be mounted either side of the heated area for optimum comfort and coverage (see positioning guide above)
- Heaters mounted outside must be rated at least to IPX4 rating

scan for more info
dimplex.co.uk/rhe

Range options and sizing

There are four types of radiant heaters in the commercial range, providing a heating solution for most applications.

Ruby sleeved halogen element

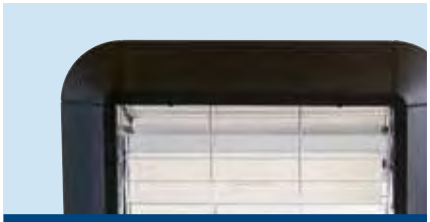
Designed to offer a warm red glow, these short wave length elements operate at 2,200°C to provide a directional zone of heat.

Gold finish halogen element

These gold coated elements work at similar temperatures to the ruby sleeved elements but also boast a gold finish that improves energy transmission by up to 15%.

Infra-red element

These medium wave length infra-red elements operate at 1,000°C and provide an ideal combination of fast heat output and effective performance.



Ceramic

These ceramic encased aluminium elements operate over a longer wavelength at up to 700°C to provide a softer heat without the glow experienced with the ruby and gold element types.

Sizing Charts

QXD spread and throw charts

Model	QXD1500		QXD3000		QXD4500	
Height **B**	Throw **C**	Spread **D**	Throw **C**	Spread **D**	Throw **C**	Spread **D**
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 charts

Model	CXD2000H		CXD2000V	
Height **B**	Throw **C**	Spread **D**	Throw **C**	Spread **D**
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.

Auto Controls

- Brings enhanced energy savings when used with heaters
- Automatically controls on/off operation according to time or people movement
- PIR (Passive Infra-red) sensors operate according to people movement, touch switches according to pre-set time elapsed after user operates the switch
- Easy to fit close to the heater(s)
- Many models commercially available to suit

QXD Heat Intensity

- High intensity (120 W/m²)
- Medium intensity (95 W/m²)
- Low intensity (70 W/m²)

CXD Heat Intensity

- High intensity (80 W/m²)
- Medium intensity (65 W/m²)
- Low intensity (50 W/m²)

Application key

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

RADIANT
QUARTZRAY® HEATERS

The QXD radiant range


Model QXD3000

Features

- Ruby sleeved lamp provides a warm red glow
- Universal mounting bracket
- Instant heat – avoiding the need for expensive pre-heating of intermittently used buildings
- Silent operation
- Matt black finish
- Additional PIR switch saves energy by switching heat off when not needed
- Optional guards available

The QXD range features the ruby red halogen lamp, giving a warm glow, and can be selected in 1.5kW, 3kW and 4.5kW outputs. Using short wave infra-red, these heaters allow people to be heated cost effectively in larger, hard to heat buildings.

A universal mounting bracket gives a wide range of adjustment and the heaters can be used with an additional PIR switch for automatic operation.

Technical specification

Model	QXD1500	QXD3000	QXD4500
Recommended height*	2.5m	3.5m	4.0m
Minimum installed height	2.1m	2.5m	3.0m
Loading	1.5kW	3.0kW	4.5kW
Voltage	230V~ 1PN		
Heat type	Infra-red shortwave radiant		
Lamps	Halogen filled quartz linear (ruby) x 1	Halogen filled quartz linear (ruby) x 2	Halogen filled quartz linear (ruby) x 3
Construction	Steel case with aluminium reflector		
Electrical connection	Type c MCB with 5-10 x tripping coefficient		
Accessories – lamp guards	QX9310	QX9311	QX9312
Accessories – product guards**	QXD1500-AIA	QXD3000-AIA	QXD4500-AIA

*Calculated at medium intensity (95W/m²).
**Available from Aiano on (Tel) 020 7987 1184 email: sales@aianos.co.uk website: www.aianos.co.uk

Please see pages 34 – 38 for dimensional details

QXD range

scan for more info
dimplex.co.uk/qxd

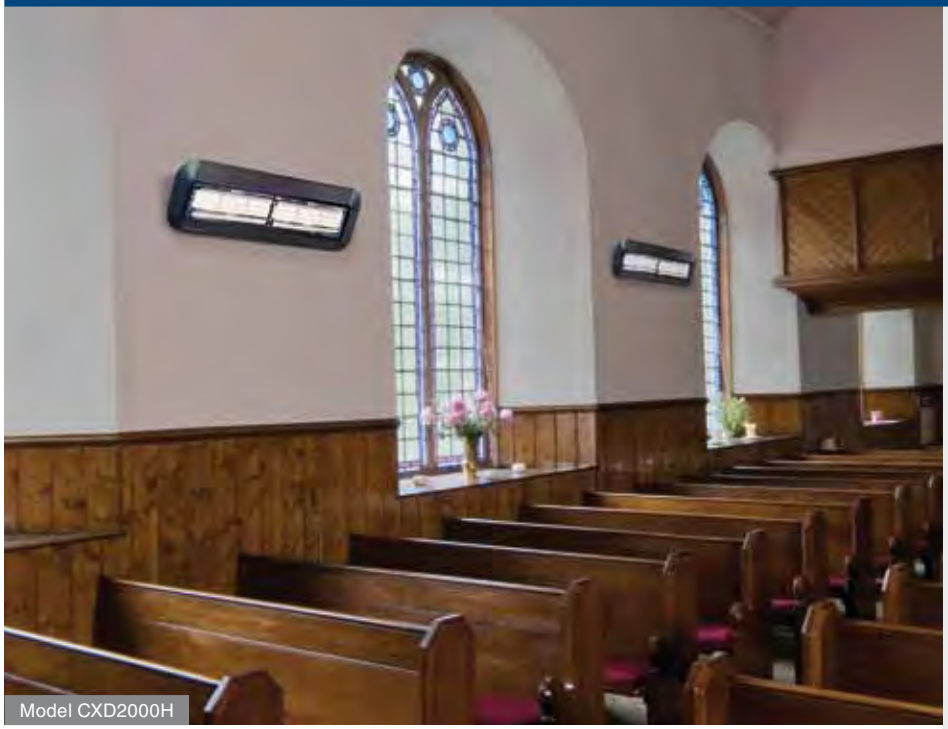
Radiant effect

Instant heat

Adjustable

Silent

The CXD ceramic range



Model CXD2000H

Features

- Robust ceramic elements for efficient radiant heating
- Can be mounted inside or outside.
- No visible light output
- Fitted guard included
- Adjustable mounting bracket
- Silent operation
- Matt black finish with white elements
- Additional PIR switch saves energy by switching heat off when not needed

Ceramic radiant heaters provide all the benefits of radiant heating without the light output associated with other types of infra-red heaters.

Using long wave infra-red technology, they provide heat to a zone or localised area, saving energy compared with equivalent air heaters. They can be installed inside or outside for the ultimate in flexibility and come with fitted guards as standard. All the Dimplex ceramic radiant heaters can also be operated via an additional PIR switch for automatic operation.

There is a choice of two models, the CXD2000V with stacked elements for focused heat, or the CXD2000H with elements side by side for a wider dispersion of heat.

Technical specification

Model	CXD2000V/CXD2000H
Recommended height	2.0m
Minimum installed height	1.8m
Loading	2.0kW
Voltage	230V~ 1PN
Heat type	Long wave length infra-red
Lamps	Ceramic encased aluminium x 2
Construction	Steel case with aluminium reflector

Please see pages 34 – 38 for dimensional details

Radiant effect | Instant heat | Adjustable | Silent

Model CXD2000H

Model CXD2000V

scan for more info
dimplex.co.uk/cxd

The OPH outdoor range

Model OPH20

Range features

- High quality aluminium case finished in two-tone silver
- 1.3kW Quartz infra-red 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 19p per hour† to run
- 'In-situ' lamp replacement for minimum downtime (OPH13)
- Fitted guard included
- Optional mounting kit for hanging or pole/mast mounting (OPHMK1)
- Additional PIR switch saves energy by switching heat off when not needed

†Dependent on tariff and based on spring 2013 prices.

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

With running costs as low as 19p kWh† and an optional mounting kit for fixed hanging installation or pole/mast mounting, they are truly flexible and give substantially reduced emissions compared to gas heaters.

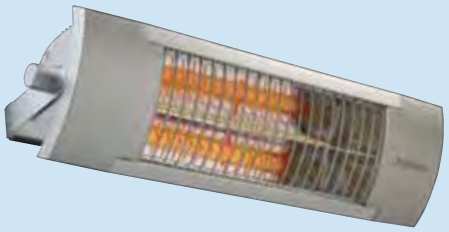
Technical specification

Model	OPH13	OPH20
Heat output	1.3kW	2.0kW
Supply	230V~ 1PN	230V~ 1PN
Construction	Aluminium	Aluminium
Element	Infra-red	Halogen
Colour	Silver	Silver
Approvals	CE, IP24	CE, IP24
Minimum mounting height	1.8m	1.8m
Recommended mounting height	2.0 – 2.3m	2.0 – 2.3m
Heat throw at 2m mounting height*	1.7m	2.0m
Heat spread at 2m mounting height*	3.0m	3.5m

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

Please see pages 34 – 38 for dimensional details

Model OPH13



Radiant effect

Instant heat

Adjustable

Silent

scan for more info
dimplex.co.uk/oph

The WF fan convector range

Model WFE3TNS

With up to 3kW of heating available, these WF fan convectors provide a low noise, rapid response heating solution for commercial installations such as shops, offices, waiting rooms and restaurants. Their built-in thermostatic temperature control keeps energy use in check too.

By drawing in room temperature air on the front panel and releasing heated air from below the heater, these heaters operate to warm the space rapidly.

Technical specification

Model	WFC3NB	WFC3NS	WFC3TNB	WFE3TNS
Heat output (kW)	3.0/2.0/1.0	3.0/2.0/1.0	3.0/2.0/1.0	3.0/2.0/1.0
Voltage	230V~ 1PN	230V~ 1PN	230V~ 1PN	230V~ 1PN
Airflow (m^3/h)	79.2	79.2	79.2	79.2
Colour	Black with wooden end panels	Silver with black end panels	Black with wooden end panels	Silver with black end panels
Auto heat selection			✔	✔
Manual heat selection	✔	✔		
Variable thermostat	✔	✔	✔	✔
Programmable dual mode timer			✔ 5 + 2 day	✔ 5 + 2 day

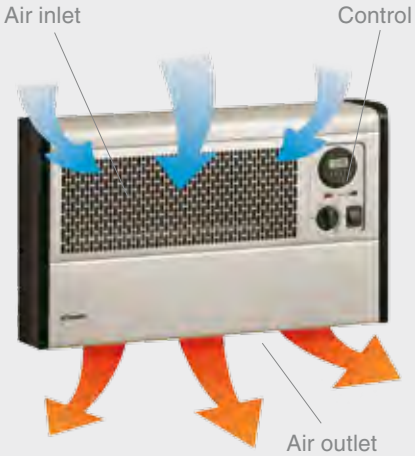
Please see pages 34 – 38 for dimensional details

Thermostatic control

Programmable control

Range features

- WFC – Accurate thermostatic control
- WFE – Automatic heat selection reduces energy use whilst maintaining optimum performance, comfort and economy
- Powerful 3kW maximum output
- Choice of 1kW, 2kW or 3kW output settings (WFC only)
- Automatic heat selection (WFE only)
- Frost protection setting
- Fine mesh filter for incoming air to reduce dust particles in the indoor environment
- Programmable dual mode electronic timer (WFE only)



Model WFC3NB

scan for more info
dimplex.co.uk/wf

The HAW air warmer range

Features

- Heavy duty cast iron case in black stove enamelled finish
- Floor or wall mountable
- Large number of fins give large heating surface
- Metal sheathed element for reliable performance
- Separate wire guard supplied

Model HAW1000N

Air warmers are extremely robust heaters designed for a wide variety of industrial applications.

Built to last in arduous surroundings, the Dimplex air warmer will often be found in industrial locations requiring a long lasting, heavy duty heater that can be operated via separate controls.

Perfectly suited for frost protection in plant and machine rooms or other commercial settings where critical equipment is protected from breakdown due to frost or inadequate heat levels.

Model HAW1000N

scan for more info
dimplex.co.uk/haw

Technical specification

Model	HAW1000N
Heat output	1.0kW
Voltage	230V~ 1PN
Electrical connection	20mm cable entry
Guard dimensions (W x D x H)mm	663 x 364 x 188
Guard fixing dimensions (W x D)mm	674 x 229
Weight	14kg

Please see pages 34 – 38 for dimensional details

The Electricaire warm air system

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

Using trusted technology Electricaire combines low cost electricity (often less than half the standard tariff) with an unrivalled ability to retain heat energy over a full 48 hour period for a highly efficient low cost heating system.

It's these two major benefits that make Electricaire ideal in commercial environments from industrial units to libraries and schools, where low cost heating in a world of escalating energy costs is paramount.

The flexibility of this heating system also takes some believing. Capable of replacing eight conventional wet radiators to free up valuable wall space, a single unit can easily supply heat on demand to a number of areas within a building. So whatever building size or shape, Electricaire has it covered.

Technical specification

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
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.

Please see pages 34 – 38 for dimensional details

scan for more info
dimplex.co.uk/aire

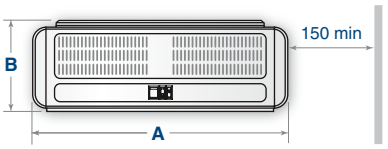
Dimensions and loadings

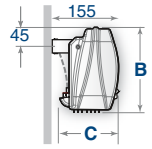
Over door heaters

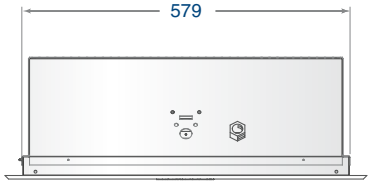
Pages 10 & 11

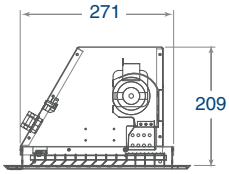
The AC surface and recess mounted ranges

Model	AC3N	AC3RN	AC45N	AC6N	AC3CN
Loading kW	1.5/3.0	1.5/3.0	2.25/4.5	3.0/6.0	1.5/3.0
Width **A** mm	605	605	605	905	595
Height **B** mm	200	200	200	200	209
Depth **C** mm	135	135	135	135	295
Weight kg	5.1	5.3	5.2	7.2	8.7









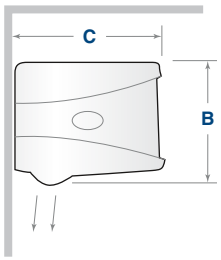
Commercial air curtains

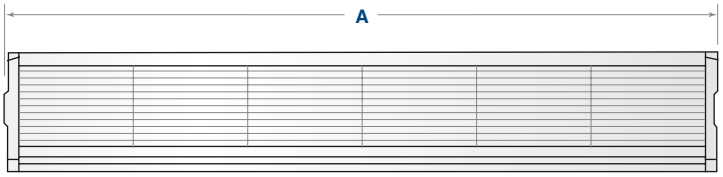
Pages 12 & 16

The CAB and DAB surface mounted ranges

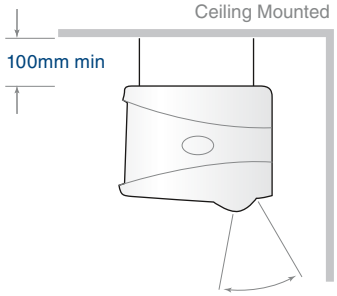
Model	CAB10E	CAB15E	CAB20E	CAB10W	CAB15W	CAB20W	CAB10A	CAB15A	CAB20A	DAB10E	DAB15E	DAB20E	DAB10W	DAB15W	DAB20W	DAB10A	DAB15A	DAB20A
Loading kW	4.5/9.0	6.75/13.5	9.0/18.0	9.0	13.5	18.0	n/a	n/a	n/a	6.0/12.0	9.0/18.0	12.0/24.0	12	18	24	n/a	n/a	n/a
Width **A** mm	1065	1569	2130	1065	1569	2130	1065	1569	2130	1057	1557	2114	1057	1557	2114	1057	1557	2114
Height **B** mm	262	262	262	262	262	262	262	262	262	361	361	361	361	361	361	361	361	361
Depth **C** mm	321	321	321	321	321	321	321	321	321	391	391	391	391	391	391	391	391	391
Weight kg	20.5	29	41	18	24.5	36	15.5	21.5	31	26.5	35	53	25	32	50	21.5	27.5	43

Wall Fixing





Ceiling Mounted

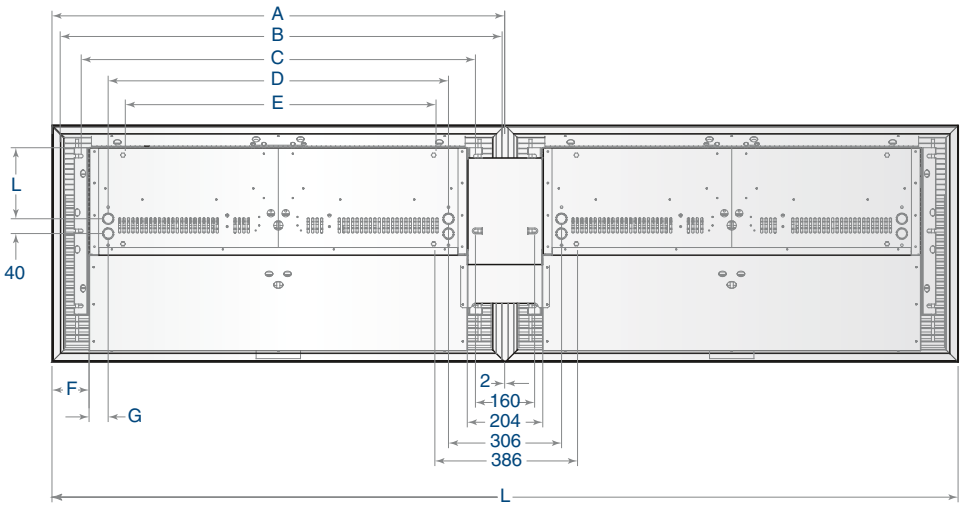


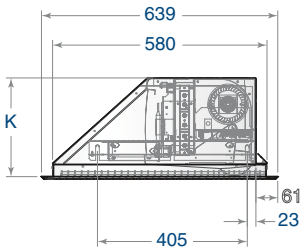
Commercial air curtains

Pages 13 & 17

The CAB and DAB recess mounted ranges

Model	Loading kW	Grille size (mm) (A)	Ceiling aperture (mm) (B)	Side drop rod fixing (mm) (C)	Water coil centres (mm) (D)	Top drop rod fixing (mm) (E)	Unit height (mm) (K)	Weight (kg)
CAB10ER	4.5/9.0	1224	1160	1065	920	840	267	26
CAB15ER	6.75/13.5	1724	1660	1570	1420	1260	267	35
CAB20ER	9/18	2448	2384	1065x2	920x2	840x2	267	54
CAB10WR	9.0	1224	1160	1065	920	840	267	23
CAB15WR	13.5	1724	1660	1570	1420	1260	267	32.5
CAB20WR	18	2448	2384	1065x2	920x2	840x2	267	54
CAB10AR	n/a	1224	1160	1065	920	840	267	20.5
CAB15AR	n/a	1724	1660	1570	1420	1260	267	29.5
CAB20AR	n/a	2448	2384	1065x2	920x2	840x2	267	54
DAB10ER	6.0/12.0	1224	1160	1058	920	800	338	31.5
DAB15ER	9.0/18.0	1724	1660	1558	1420	1300	338	43
DAB20ER	12/24	2448	2384	1065x2	920x2	800x2	338	63
DAB10WR	12	1224	1160	1058	920	800	338	30
DAB15WR	18	1724	1660	1558	1420	1300	338	40
DAB20WR	24	2448	2384	1065x2	920x2	800x2	338	63
DAB10AR	n/a	1224	1160	1058	920	800	338	26.5
DAB15AR	n/a	1724	1660	1558	1420	1300	338	35.5
DAB20AR	n/a	2448	2384	1065x2	920x2	800x2	338	63





Architectural air curtains

Pages 14 & 15

The ARC range

Model	ARC10	ARC15	ARC20
Length mm*	1100	1600	2100
Height mm*	450	450	450
Depth mm*	360	360	360
Weight kg**	55 – 65	82.5 – 95	110 – 130

** Dependent on final specification.

***SAMPLE DIMENSIONS ONLY:**
As these products are bespoke, please ring us on 0844 879 3587 and we can arrange for your local Dimplex commercial sales manager to contact you.

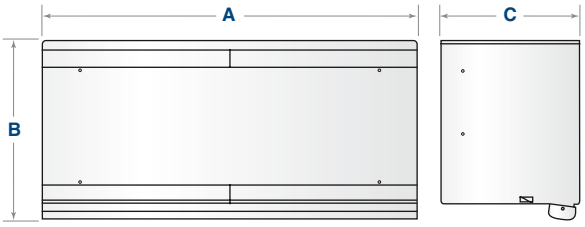
Dimensions and loadings

Industrial air curtains

Page 18

The IAB range

Model	IAB10E	IAB15E	IAB10W	IAB15W	IAB10A	IAB15A
Loading kW	12/24	18/36	27	41	n/a	n/a
Length **A** mm	1100	1600	1100	1600	1100	1600
Height **B** mm	700	700	700	700	700	700
Depth **C** mm	600	600	600	600	600	600
Weight kg	80	120	80	120	80	120

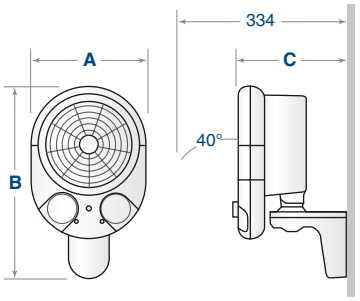


Compact commercial fan heaters

Page 22

The PFH range

Model	PFH30	PFH30R
Loading kW	3.0	3.0
Width **A** mm	230	230
Height **B** mm	378	378
Depth **C** mm	226	226
Weight kg	1.3	1.6

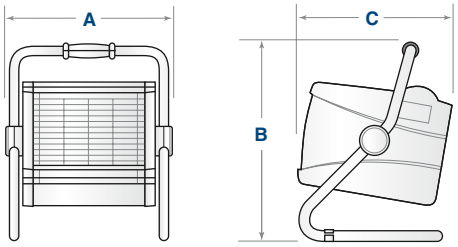


Portable commercial fan heater

Page 23

The CFP range

Model	CFP30
Loading kW	3.0
Width **A** mm	372
Height **B** mm	448
Depth **C** mm	347
Weight kg	7.6

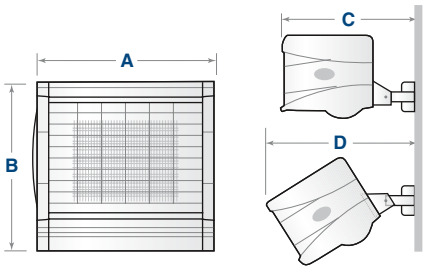


Commercial and industrial fan heaters

Pages 23 & 24

The CFS and CFH ranges

Model	CFS30	CFS/CFH60	CFH90	CFH120	CFCH Control
Loading kW	3.0	6.0	9.0	12.0	-
Width **A** mm	306	386	386	386	217
Height **B** mm	262	360	360	360	113
Depth **C** mm	495	565	565	565	49
Max depth **D** mm	530	630	630	630	-
Weight kg	7.6	13.5	14.5	14.5	-

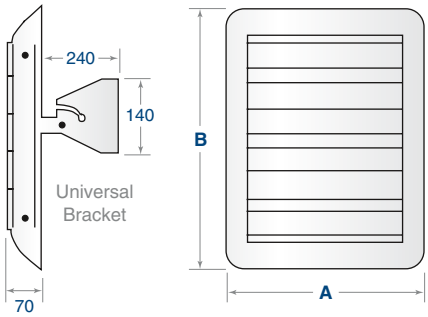


Radiant Quartzray® heaters

Page 28

The QXD range

Model	QXD1500	QXD3000	QXD4500
Loading	1.5	3.0	4.5
Width **A** mm	440	440	440
Height **B** mm	256	380	506
Depth mm excl. bracket	70	70	70
Weight	3.7kg	4.3kg	5.8kg

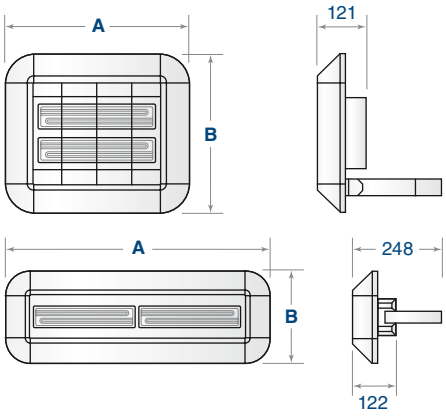


Radiant ceramic heaters

Page 29

The CXD range

Model	CXD2000V	CXD2000H
Loading kW	2.0	2.0
Width **A** mm	422	735
Height **B** mm	380	255
Depth mm excl. bracket	121	122
Weight kg	5.35k	5.1

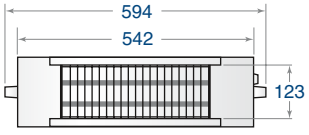


Outdoor patio heaters

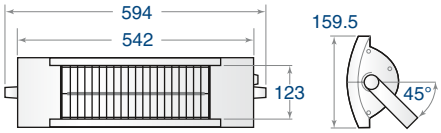
Page 30

The OPH range

Model	OPH13	OPH20
Loading kW	1.3	2.0
Width mm	594	594
Height mm	159	159
Depth mm	144	144
Weight kg	3.7	3.7



OPH13 with two Quartz elements



OPH20 with one halogen element

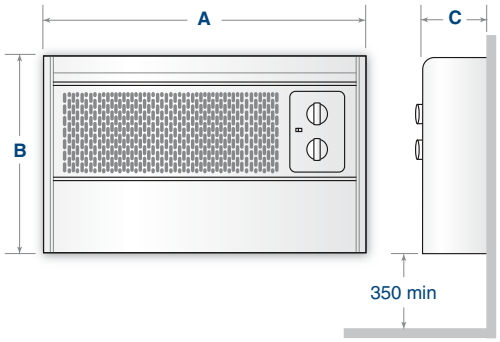
Dimensions and loadings

Wall mounted fan convector heaters

Page 31

The WF range

Model	WFC3NB/S	WFE3TNB/S
Loading kW	3.0	3.0
Width **A** mm	575	575
Height **B** mm	350	350
Depth **C** mm	120	120
Weight kg	6.6	6.6

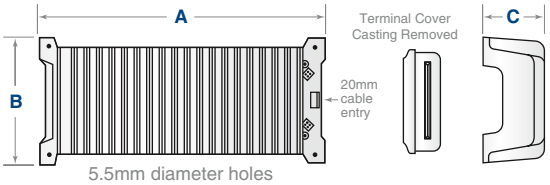


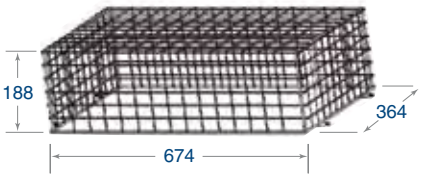
Air warmers

Page 32

The HAW range

Model	HAW1000N
Loading kW	1.0
Width **A** mm	470
Height **B** mm	207
Depth **C** mm	115
Weight kg	14



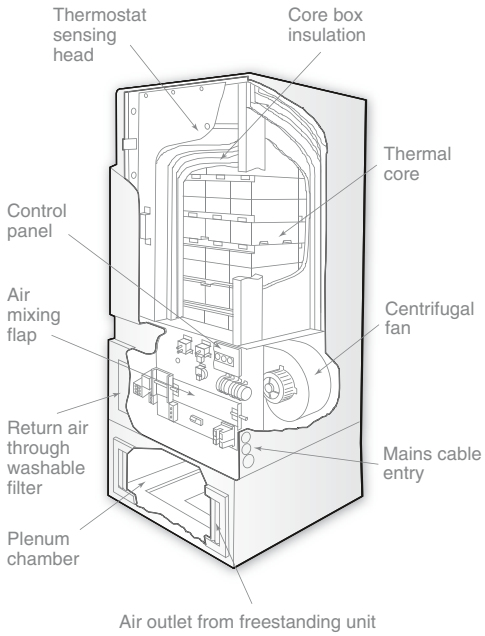


Electricaire

Page 33

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^3/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.



Commercial heating selection guide

Application	Product ranges	Example uses**	Page
Retail/offices	Over door heaters	Smaller doorways	10 & 11
	Air curtains	Larger retail entrances	12 & 13 16 & 17
	Architectural air curtains	Office entrances, corporate receptions	14 & 15
	Compact commercial fan heaters	Small office heaters	22
	Wall fan convectors	Meeting room heating	31
Hospitality *Hotel* *Restaurant* *Leisure*	Outdoor patio heating	Restaurant dining areas	30
	Air curtains	Building entrances	12 - 17
	Quartz radiant and ceramic heaters	Gymnasiums,* sports halls*	28 & 29
	Wall fan convectors	Meeting room heating	31
Commercial *Churches* *Halls* *Libraries* *Museums*	Over door heaters	Smaller entrances/doors	10 & 11
	Air curtains	Frequently open entrances/doors	12 - 13
	Compact commercial fan heaters	Workshops/garages	22
	Wall fan convectors	Waiting rooms	31
	Ceramic heaters	Church heating	29
Large Commercial *Airports* *Hospitals*	Air curtains	Supermarket entrances	12 - 18
	Architectural air curtains	Prestigious receptions, corporate HQs	14 & 15
	Wall fan convectors	Waiting rooms	31
	Commercial fan heaters	Atriums	23 - 25
	Quartz radiant and ceramic heaters	Baggage handling, unheated spaces	28 & 29
Large industrial *Warehousing* *Factories*	Air curtains	Warehouse and factory entrances	12 - 18
	Commercial fan heaters	Warehouse and factory heating	23 - 25
	Quartz radiant and ceramic heaters	Workstation heating	28 & 29
	Air warmers	Equipment frost protection	32
	Electricaire	Warm air heating	33
Other	Wall fan convectors	Temporary building heating	31

*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 heating level recommended.

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

After Sales Service

After sales service if required is absolutely no problem with Dimplex – we have a network of appointed Service Engineers spread throughout the country who are qualified and trained to repair or service any of our appliances. Please visit www.dimplex.co.uk/support for further details.

Bathrooms and washrooms

Any electrical appliances installed in a bathroom or washroom 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 or washroom.

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.

Safety

Dimplex products are designed to comply with EN60335 the British Standard covering the safety requirements of electric heating appliances. However, in order to be effective, heaters 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.

Heating appliances should never be covered or positioned where objects may fall onto them.

Specifications

Dimplex policy is one of continuous improvement; the Company therefore reserves 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.

CE Mark

Products carrying the CE mark comply with European safety standards and the European Standard for electro-magnetic compatibility.

Installation Guidance

This brochure is designed to assist you with your choice of Dimplex products and it 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.

The Dimplex Range

Dimplex offers the widest range of electric space, water heating and renewable solutions in the UK. In addition to this publication, we have a number of more focused brochures as shown below. These can be ordered via our website: www.dimplex.co.uk/support

REGISTERED MEMBER ECA

EDA ELECTRICAL DISTRIBUTORS ASSOCIATION AFFILIATED MANUFACTURER

beama

HEVAC

FETA


Domestic heating brochure


Designer range brochure


Towel rail brochure

Quantum brochure


Solar PV brochure


Heat pump brochure

Electric fires brochure


Solar Thermal brochure


EC-Eau Cylinder brochure

SmartRad brochure

Solid fuel brochure

For more information on these products and copies of the brochures please visit

www.dimplex.co.uk/commercial
or call 0844 879 3587

A division of the GDC Group, Millbrook House, Grange Drive, Hedge End, Southampton SO30 2DF Tel: 0844 879 3587
For Northern Ireland, contact Glen Dimplex N.I. Limited, 5 Charlestown Ave., Charlestown Ind. Est., Craigavon, Co. Armagh BT63 5ZF Tel: 02838 337317
For Republic of Ireland, contact Dimpco on +353 (0)1 8424 277, email sales@dimpco.ie or visit www.dimpco.ie

Dimplex commercial®
A world of expertise

FSC 100% From well-managed forests FSC® C000000

Laminated using bio-degradable film.

D1657/0513