

BROUGHTON

ELECTRO-AIR-PRODUCTS LTD



**FULLY
SERVICEABLE
EQUIPMENT**



**FULL SPARE PARTS
AVAILABILITY**



**FULL TECHNICAL
SUPPORT**



**2 YEAR
WARRANTY**

MADE  IN THE UK

***BLOWING HOT AND
COLD SINCE 1979***



Heat it



Move it



Dry it



Cool it

BROUGHTON
ELECTRO-AIR-PRODUCTS LTD

Contact Details

SPEAK TO AN EXPERT

 **01527 830610**

WE ARE SPECIALISTS

Over 30 years experience designing
and manufacturing climate control
and HVAC equipment.

BROUGHTON
ELECTRO-AIR-PRODUCTS LTD

UK Manufacturers of
Portable HVAC Equipment

Sales & Manufacturing

Units 24-25, Crossgate Road, Park Farm Industrial Estate,
Redditch, B98 7SN

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Accounts

Rookery Works, Newchapel Rd, Kidsgrove, Stoke on Trent,
Staffordshire, ST7 4SF **Tel:** 01782 777559

1. Broughton EAP - Blowing Hot and Cold since 1979
3. Portable Cooling Guide
5. Monoblock Portable Air Conditioners
6. Water Cooled Split Air Conditioners
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Why Choose Broughton? Here at Broughton we believe in building long lasting professional relationships and put the emphasis on working WITH you.

- **Blowing hot and cold since 1979** - We know our industry, our market place and our product better than anyone so let us write the marketing spiel for your catalogue or website, we'll even supply pictures
- **Quality British Built and Engineered Product** - Well built equipment that's built to last and made right here in the UK, that you don't have to order by the container load and wait weeks for
- **Get exactly what you ordered** - Had a container load of equipment that bears no resemblance to what you thought you were ordering? Not from us - what you order is what you get
- **Full sales support including technical advice** - Got a query about our equipment? Maybe a general question about air conditioning and refrigeration or simply just want to know how to spec the right unit? Just give us a call, we're here to help and with all our experience there's not much we don't know and what we can't answer probably isn't worth knowing anyway
- **Direct despatch** - We realise you might not want to put large quantities of expensive equipment into stock - so we don't ask you to. We hold stock at our premises in the Midlands and all you have to do is either email or fax an order and delivery note to us and we'll despatch directly to your customer on your paperwork
- **We'll deal with any warranty or service queries directly with the customer** - If you have someone who has a problem with one of our units then just give them our service number, ask them to give us a call and we'll take it from there
- **Rugged, well built equipment** - Our product range is built to be relied on year after year rather than give up at the first knock
- **Fully serviceable equipment** - Why replace the entire unit when you can simply change a component?
- **Full spare parts availability**
- **2 year warranty** - That's how much faith we have in the quality of our product

Broughton EAP - Blowing Hot & Cold since 1979...

- Charles Darwin once said 'It's not the strongest of the species that survives, nor the most intelligent. It is the one that is most adaptable to change.' This statement also holds true in industry and here at Broughton EAP we have always listened and learnt what our customers want. We've constantly reviewed our products and after sales to ensure that it's perfectly suited to the ever changing demands of the modern market place. And we've been around long enough to prove it
- We have over 30 years history in the design, development and manufacture of portable heating, cooling, drying and ventilation equipment. Our origins can be traced back through specialist weapons testing all the way to the original introduction of dehumidifiers and portable cooling equipment to the UK during the 1970's
- It's a history that includes innovation and occasionally solving the impossible as along the way our reputation for quality, innovation and knowledge has allowed us to be involved in some challenging and exciting projects. From total environmental control units for use in Afghanistan and Iraq (where daytime temperatures can reach 50° C while at night they can plummet to - 10° C) to keep troops cool during the day and warm at night, to a system for keeping blood samples cool during research into Diabetes. The most recent project was a portable heater capable of generating 100+kw of heat and a 100° C rise in a single pass to help start the giant turbines in Eon power stations.
- We've been there, done it and have the client list to prove it - from the hire fleets of HSS, Aggreko and Watkins to the catalogues of Slingsby, Arco and Cromwell Tools they all offer complete ranges from Broughton EAP. We've even supplied equipment for the UEFA Champions League final, McLaren Group and Aston Martin and it's this kind of pedigree and wealth of experience that lets us believe we can be considered among the best in the business.
- From Isambard Kingdom Brunel to Ross Brawn, the British have given the world some of the greatest and most innovative engineers and engineering. Now in the face of ever stiffening competition from foreign imports our philosophy is to offer traditional British quality at a price that can't be beaten, and the service to back it up.



Broughton MCM27, MCM20 & Cool Home Spec Sheets

Hire Event Exhibition - 2008



Mighty Cool - Portable
Air Conditioner Units

Types of Portable Air Conditioning



Broughton EAP Ltd makes three forms of Portable Air Conditioners & Cooling

Monobloc or Exhaust units

This is a single unit form of PAC where both the evaporator and condenser are housed within the same machine. Most of the air processed by the unit is drawn across the evaporator coil, cooled and returned. A smaller quantity of air is used to cool the condenser coil but because it has been heated cannot be re-circulated within the room so is pumped away via ducting, usually out of a window or into a ceiling void.

Water cooled split units

Like fixed installation air conditioning these units come in two parts - a room unit and a heat exchanger. The two parts are connected by flexible pipes which can be extended up to 35m. With this type of system the room unit houses the evaporator coil, compressor and a special type of condenser.

The main (room) unit is placed in the area that needs cooling where the air is drawn across the evaporator, cooled and returned. The difference now is that water is used to cool the condenser rather than air. Water is circulated across the condenser but because it is a completely sealed system, the now warm water has to be pumped to the external heat exchanger unit which removes the heat using a similar process to the condenser coil in a conventional AC system.

Calculating the amount of cooling required

Portable Air Conditioners are specified by the amount of cooling duty they deliver in either kilowatts (kW) or British thermal units (Btu's). 1kw = 3412Btu.

Due to the huge number of variables (such as building direction, roof type, insulation type number of people and computers, windows facing the sun etc) in accurately calculating the required cooling capacity it is very difficult to give an exact answer without a site visit. You can however get close enough for most applications by using the following rules of thumb:

- Normal, Modern Offices ± 46 W per m^3
- Portable Buildings ± 57 W per m^3
- Tents/Marquees ± 95 W per m^3

Any equipment within the area that generates heat must also be taken into consideration. Following are approximate heat generation values to be allowed for:

- PC ± 150 w
- Laser Printer ± 500 w
- Photocopier (standby) ± 200 w
- Photocopier (in use) ± 1000 w
- Fax Machine ± 500 w
- Coffee Machine ± 800 w
- TV/ Video Screen ± 50 w

Applications for portable air conditioning equipment

It would be impossible to list all the possible uses for our PAC equipment but most tend to go into the Hire Industry, Facilities Management and Event Hire. Below is a list of some of the most popular applications:

- Offices
- Marquees
- Hotels
- Kitchens
- Data Centres
- Server Rooms
- Portable Buildings
- Laboratories
- Hospitals
- Gymnasiums
- Schools/Colleges
- Shops & Restaurants
- Exhibitions
- Oil Rigs

**Considerations for selection and installation**

Once the cooling load has been determined there are several other things to be considered whilst specifying a unit. These include:

1. Where will the hot air be exhausted to? Is there a window or ceiling void that can be used?
2. Is there a 13a 230v socket within 2m (of indoor unit on split types)? The unit must also be situated without obstruction to any airflow, both in and out. PAC equipment uses large amounts of electricity and is therefore unsuitable for use with extension leads and on ring mains with other similarly power draining equipment.
3. When using a split type the room must be within 35m of an appropriate position for the heat exchanger section (It is however recommended that the line length be kept to the minimum possible). Ideally it should be positioned outside as it will expel large quantities of warm air and the condensate. If it is positioned inside then there must be a means of draining this.
4. The heat exchanger should always be placed out of direct sunlight and where it will cause the minimum amount of disruption.

Evaporative Cooling

There are times when using portable air conditioning is either impractical, impossible or even both. By using the process of natural evaporation to provide a cool fresh stream of air evaporative coolers can often provide a useful alternative to standard PAC equipment in such applications.

The concept works in much the same way as a sea breeze. As the air passes through the damp filter it causes some of the water to evaporate which removes heat and reduces the temperature although the ambient room temperature will remain the same. This type of localised comfort cooling is called spot cooling.


Because of the constant evaporation in the process these types of unit need a constant supply of water. This also means that evaporative coolers should be used in well ventilated areas and as such are ideally suited to large, open applications such as warehouses and outdoor events.

With current environmental concerns evaporative coolers are seen as more 'green' alternative to air conditioning as they use a fraction of the power of PAC and water as opposed to refrigerants.

Some typical applications for Comcool:

- Sports halls
- Gyms
- Large factories
- Marquees
- Night clubs
- Shopping centres
- Outdoor events



Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> • Offices • Marquees • Hotels • Kitchens • Data Centres • Server Rooms • Portable Buildings • Laboratories • Hospitals • Gymnasiums • Schools/Colleges • Shops & Restaurants • Exhibitions • Oil Rigs 	<ul style="list-style-type: none"> • Hire Companies • Air Conditioner Servicing & Repairs • Food Production • Process Cooling • Computer Repairs • IT Consultants • Procurement Managers • Facility Management • Wholesalers & Resellers 	<p>As the original UK portable cooling range Mighty Cool has a proud 30 year history of constant evolution to meet the ever changing requirements of climate control. Designed and built with the growing emphasis on energy efficiency in mind, our latest range is designed to meet 21st century requirements with the largest available cooling outputs from a 13A supply, A* efficiency ratings, ErP compliance and the pioneering use of EC fans in portable air conditioning. Made in England to the highest possible standards Mighty Cool's extensive range includes traditional monoblocs, water cooled splits and now an industrial evaporative cooler capable of producing the equivalent of 20kW of cooling from just 2A.</p> 

Product Image	Product Specs	Product USP
 <p>MCM230</p>	<p>Supply 13A 230v Typical Cooled Area 150m³ Thermostat Optional Sound 64dbA Cooling Ducting 2x150mm Exhaust Ducting 300mm Weight 92kg Operating Range 21°C - 38°C Dimensions 1080x530x690mm</p>	<p>The incredibly reliable and deceptively powerful MCM230 uses the very latest in EC fan technology to minimise noise and maximise efficiency. Can supply 6.7kW of chilled air to two area's at once. Ideal for offices, data centres, events, retail and process cooling. Comes complete with 3m of exhaust duct, 1m of cooling ducting and a 2 year warranty.</p>
 <p>MCM280</p>	<p>Supply 13A 230v Typical Cooled Area 190m³ Thermostat Yes Sound 65dbA Cooling Ducting 3x150mm Exhaust Ducting 300mm Weight 92kg Operating Range 21°C - 38°C Dimensions 1110x530x690mm</p>	<p>A powerful 8kW unit that uses the latest in EC fan technology to minimise sound and maximise efficiency. The MCM280 can supply chilled air to 3 area's at once while features such as a thermostat and variable fan speed allow precise control. Ideal for offices, data centres, events, retail and process cooling. Comes with 3m of exhaust duct, 1.5m of cooling ducting, and 2 year warranty.</p>
 <p>MCM350</p>	<p>Supply 13A 230v Typical Cooled Area 250m³ Thermostat Yes Sound 63dbA Cooling Ducting 200mm Weight 130kg Operating Range 21°C - 38°C Dimensions 1200x970x665mm</p>	<p>The most powerful monobloc unit available delivers over 10kW of chilled air. The exhaust ducting can be extended to 10M while the optional High Pressure Airbox allows cooling for multiple area's up to 30m apart. Comes with 2.5M of exhaust duct and 2 year warranty as standard.</p>


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Sales & Manufacturing
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 Park Farm Industrial Estate
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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> • Offices • Hotels • Kitchens • Data Centres • Server Rooms • Portable Buildings • Laboratories • Hospitals • Gymnasiums • Schools/Colleges • Shops & Restaurants • Exhibitions • Oil Rigs 	<ul style="list-style-type: none"> • Hire Companies • Air Conditioner Servicing & Repairs • Food Production • Process Cooling • Computer Repairs • IT Consultants • Procurement Managers • Facility Management • Wholesalers & Resellers 	<p>As the original UK portable cooling range Mighty Cool has a proud 30 year history of constant evolution to meet the ever changing requirements of climate control. Designed and built with the growing emphasis on energy efficiency in mind, our latest range is designed to meet 21st century requirements with the largest available cooling outputs from a 13A supply, A* efficiency ratings, ErP compliance and the pioneering use of EC fans in portable air conditioning. Made in England to the highest possible standards Mighty Cool's extensive range includes traditional monoblocs, water cooled splits and now an industrial evaporative cooler capable of producing the equivalent of 20kW of cooling from just 2A.</p>



Product Image	Product Specs	Product USP
<p>MCWS220</p> 	<p>Supply 13A 230v Single Fan Speed Digital Thermostat Yes Sound 60dba Weight 112kg Operating Range 10°C - 35°C Dimensions 1000x820x380mm Condensate Pump Fitted As Standard Cable Pocket Yes</p>	<p>By combining all the benefits of the water cooled split system and the compact dimensions of the MCM230, the all new MCWS220 promises ultra-efficient cooling in the tightest of spots. By using water instead of air to remove heat, the MCWS220 avoids the derating effect of the condenser in traditional air conditioning systems to deliver 6.4kW of chilled air as efficiently as possible. The main unit can be sited up to 35M from the outdoor section which allows them to be used in area's deep inside buildings or without anywhere to vent the hot air associated with monobloc systems. Comes with a 5M umbilical line and 2 year warranty as standard.</p>



Easy to use controls



The digital display indicates both the required and ambient room temperature






Industrial build quality

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> • Offices • Hotels • Kitchens • Data Centres • Server Rooms • Portable Buildings • Laboratories • Hospitals • Gymnasiums • Schools/Colleges • Shops & Restaurants • Exhibitions • Oil Rigs 	<ul style="list-style-type: none"> • Hire Companies • Air Conditioner Servicing & Repairs • Food Production • Process Cooling • Computer Repairs • IT Consultants • Procurement Managers • Facility Management • Wholesalers & Resellers 	<p>As the original UK portable cooling range Mighty Cool has a proud 30 year history of constant evolution to meet the ever changing requirements of climate control. Designed and built with the growing emphasis on energy efficiency in mind, our latest range is designed to meet 21st century requirements with the largest available cooling outputs from a 13A supply, A* efficiency ratings, ErP compliance and the pioneering use of EC fans in portable air conditioning. Made in England to the highest possible standards Mighty Cool's extensive range includes traditional monoblocs, water cooled splits and now an industrial evaporative cooler capable of producing the equivalent of 20kW of cooling from just 2A.</p> 



Product Image	Product Specs	Product USP
<p>MCWS250</p> 	<p>Supply 13A 230v Multiple Fan Speeds Thermostat Yes Sound 60dbA Weight 125kg Operating Range 9°C - 38°C Dimensions 1350x820x380mm</p>	<p>Suitable for almost any cooling application the MCWS250 offers the most efficient and effective portable air conditioning available. By using water instead of air to remove heat, the MCWS250 avoids the derating effect of the condenser in traditional air conditioning systems to deliver 7.3kW of chilled air. The main unit can be sited up to 35M from the outdoor section which allows them to be used in area's deep inside buildings or without anywhere to vent the hot air associated with monobloc systems. Comes with a 5M umbilical line and 2 year warranty as standard.</p>
<p>MCWS500</p> 	<p>Supply 32A 230v Variable EC Fan Speeds Thermostat Yes Sound 63dbA Weight 175kg Operating Range 9°C - 38°C Dimensions 1835x670x450mm</p>	<p>The MCWS500 uses a similar water system as the MCWS250 to create a massive 14.6kW of cooling. Designed with data centres and events in mind special attention has been paid to the unit dimensions and the reduced footprint allows for much greater access and manoeuvrability in tight spaces. Main unit can be sited up to 35M away from outdoor section. Comes with 5M line and 2 year warranty as standard.</p>

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> • Offices • Marquees • Hotels • Kitchens • Data Centres • Server Rooms • Portable Buildings • Laboratories • Hospitals • Gymnasiums • Schools/Colleges • Shops & Restaurants • Exhibitions • Oil Rigs 	<ul style="list-style-type: none"> • Hire Companies • Air Conditioner Servicing & Repairs • Food Production • Process Cooling • Computer Repairs • IT Consultants • Procurement Managers • Facility Management • Wholesalers & Resellers 	<p>With ever greater constraints on space in places such as data centres and server rooms the AHU range has been designed using our vast experience in portable cooling equipment to minimise the amount of floor space they need. Both units feature massively reduced footprints and are small enough to fit through a standard doorway whilst the ErP compliant fans ensure maximum energy efficiency to meet and exceed modern demands. Condensate pumps, three way valves and thermostatic control are all fitted as standard and the multi speed fans include a whisper quite setting for use at events or quiet environments.</p> 


Product Image	Product Specs	Product USP
	<p>AHU30 Cooling Duty 30kW Heating Duty 60kW Supply 13A/230v/50Hz Airflow Variable Fan Speeds Dimensions (H/W/D) 1840x585x425mm</p>	<p>Specially designed for use in places where space is a premium the AHU30 can deliver 30kW of cooling from a footprint of just 58.5cm*42.5cm and can be used with any existing chiller or heat pump. Thanks to it's size and weight compared to traditional 30kW units the AHU30 can be installed with just a single operative and a sack truck instead of forklifts or heavy installation gear. Multiple fan speeds and thermostatic control allow performance to be tailored to suit any application.</p>
	<p>AHU50 Cooling Duty 50kW Heating Duty 100kW Supply 13A/230v/50Hz Airflow Variable Fan Speeds Dimensions (H/W/D) 1840x800x425mm</p>	<p>Specially designed for use in places where space is a premium the AHU50 can deliver 50kW of cooling from a footprint of just 80cm*42.5cm and can be used with any existing chiller or heat pump. Thanks to it's size and weight compared to traditional 50kW units the AHU50 can be installed without the need for forklifts or heavy installation gear. Multiple fan speeds and thermostatic control allow performance to be tailored to suit any application.</p>


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Product Applications	Target Customers	Features and Benefits
<ul style="list-style-type: none"> • Portable Buildings • Night Clubs • Large Factories • Gymnasiums • Sports Halls • Schools/Colleges • Shops & Restaurants • Events & Exhibitions • Marquees • Outdoor Events 	<ul style="list-style-type: none"> • Hire Companies • Air Conditioner Servicing & Repairs • Procurement Managers • Facility Management • Wholesalers & Resellers 	<p>As the original UK portable cooling range Mighty Cool has a proud 30 year history of constant evolution to meet the ever changing requirements of climate control. Designed and built with the growing emphasis on energy efficiency in mind, our latest range is designed to meet 21st century requirements with the largest available cooling outputs from a 13A supply, A* efficiency ratings, ErP compliance and the pioneering use of EC fans in portable air conditioning. Made in England to the highest possible standards Mighty Cool's extensive range includes traditional monoblocs, water cooled splits and now an industrial evaporative cooler capable of producing the equivalent of 20kW of cooling from just 2A.</p> <p>MADE IN THE UK</p>


Product Image	Product Specs	Product USP
<p>Comcool</p> 	<p>Equivalent Cooling Duty 20kW / 71000 BTU Running Current 2A Airflow 5165m³ Dimensions 1660x640x500mm Supply 230v 13A Weight (empty)100kg Tank Capacity 90 litre Multiple fan speeds Recessed controls Mains Cable pocket Locking castors</p>	<p>A large volume, heavy duty evaporative cooler capable of producing an equivalent 20kW of cooling from as little as 2A. Comcool can be fed directly from a tap or via the internal 90l tank and is ideal for large open spaces such as warehouses or outdoors where traditional air conditioning is not an option. Other features include a submersion pump, water filter, locking castors and tank purge system.</p>




Mains water connector
Manual fill cap




Filter




Tank empty point




Submersion pump



Recessed control panel with tank purge button



Cable pocket



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Mighty Breeze -
Industrial Cooling Fans


Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> Spot cooling Warehouses Process Cooling Event hire Factories Gymnasiums Retail Shops Suitable for most Commercial and Industrial Applications Set of pop videos 	<ul style="list-style-type: none"> Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Fire & Flood Restoration Storage Companies 	<p>Europe's #1 range of man coolers are powerful, high performance fans designed to provide unrivalled amounts of air movement for cooling and ventilation. Mighty Breeze fans combine a tough ABS plastic body to give them the impact resistance demanded for industrial applications and a stylish appearance suited to more subtle applications such as events and retail. These adaptable fans come in two separate sizes, both available in 110V or 240V and with three separate fan speeds allowing them to be tailored to almost any ventilation requirement.</p> 







Product Image	Product Specs	Product USP	Product Description
<p>MB30</p> 	<p>Height 625mm Width 550mm Depth 225mm Weight 10kg</p>	<ul style="list-style-type: none"> 110v or 230v Powerful sickle bladed motor Three Speed Quiet operation Tough ABS body 	<p>While tough enough for industry this powerful fan also utilises a 4 pole motor and stylish looks to give the discretion required for more subtle applications in retail and events. Available in both 110V and 230V and is ideal for either ventilation or cooling.</p>
<p>MB50</p> 	<p>Height 830mm Width 800mm Depth 280mm Weight 18kg</p>	<ul style="list-style-type: none"> Europe's no.1 man cooler 110v or 230v Powerful sickle bladed motor Three Speed Quiet operation Tough ABS body 	<p>Europe's #1 man cooler fan has a tough, stylish, ABS body and very powerful 4 pole motor to reduce noise. The MB50 regularly finds homes in distribution warehouses, hire fleets and even aeroplane wing manufacturing plants. Available in both 110V or 230V and is ideal for either ventilation or cooling.</p>
<p>MB2000</p> 	<p>Airflow 14,400m³/hr Height 870mm Width 550mm Depth 770mm Weight 61kg</p>	<ul style="list-style-type: none"> Awesome 14,400m³/hr airflow 110V or 230v Can vent or cool Powerful motor Lockable castors Can be ducted 	<p>Our most powerful fan in a tough steel body with locking castors. Capable of generating 14,400m³/hr at 480pa with directional head that can be locked into position. Available in both 110V or 230V and is ideal for either ventilation or cooling.</p>

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Product Applications	Target Customers	Range USP
<p>Ideal for removing fumes from:</p> <ul style="list-style-type: none"> • Welding bays • Warehouses • Tunnels • Basements • Chemical laboratories • Suitable for most Commercial and Industrial applications • Anywhere where fumes are a problem 	<ul style="list-style-type: none"> • Powder Coaters • Construction Firms • Procurement Managers • Facility Management • Chemical Companies • Wholesalers & Resellers 	<p>The VF range of industrial extractor fans boasts 1.5mm steel bodies, aluminium housed motors for excellent heat dissipation and sickle bladed fans to maximise airflow and pressure and allow them to duct 20M. With various outputs up to 14,400m³/hr and available in 110V and 230V there's an option to suit just about any requirement. Hard wearing plastic coated ducting is also available in both 5M and 10M lengths and comes with a built in rope tie for securing to the unit.</p> 

Product Image	Product Specs	Ducting Options
<p>VF250</p> 	<ul style="list-style-type: none"> • Diameter 250mm • Supply 110v/16A or 240v/13A • Running Current 110v 3.4 amps / 230v 0.8 amps • Airflow 2580m³/hr • Static Pressure 294pa • Weight 12kg • Dimensions 37.5cm x 35.5cm x 32.5cm 	 <p>250mm diameter 5 or 10 metre lengths</p>
<p>VF300</p> 	<ul style="list-style-type: none"> • Diameter 300mm • Supply 110v/16A or 240v/13A • Running Current 110v 4 amps / 230v 1.2 amps • Airflow 3600m³/hr • Static Pressure 343pa • Weight 14kg • Dimensions 42.5cm x 38cm x 38cm 	 <p>300mm diameter 5 or 10 metre lengths</p>
<p>VF600 / MB2000</p> 	<ul style="list-style-type: none"> • Diameter 600mm • Supply 110v/32A or 240v/13A • Running Current 110v 13.4 amps / 230v 5.8 amps • Airflow 14400m³/hr • Static Pressure 480pa • Weight 61kg • Dimensions 87cm x 77cm x 55cm 	 <p>300mm diameter 10 metre lengths</p>



Ideal for extraction & fresh air supply

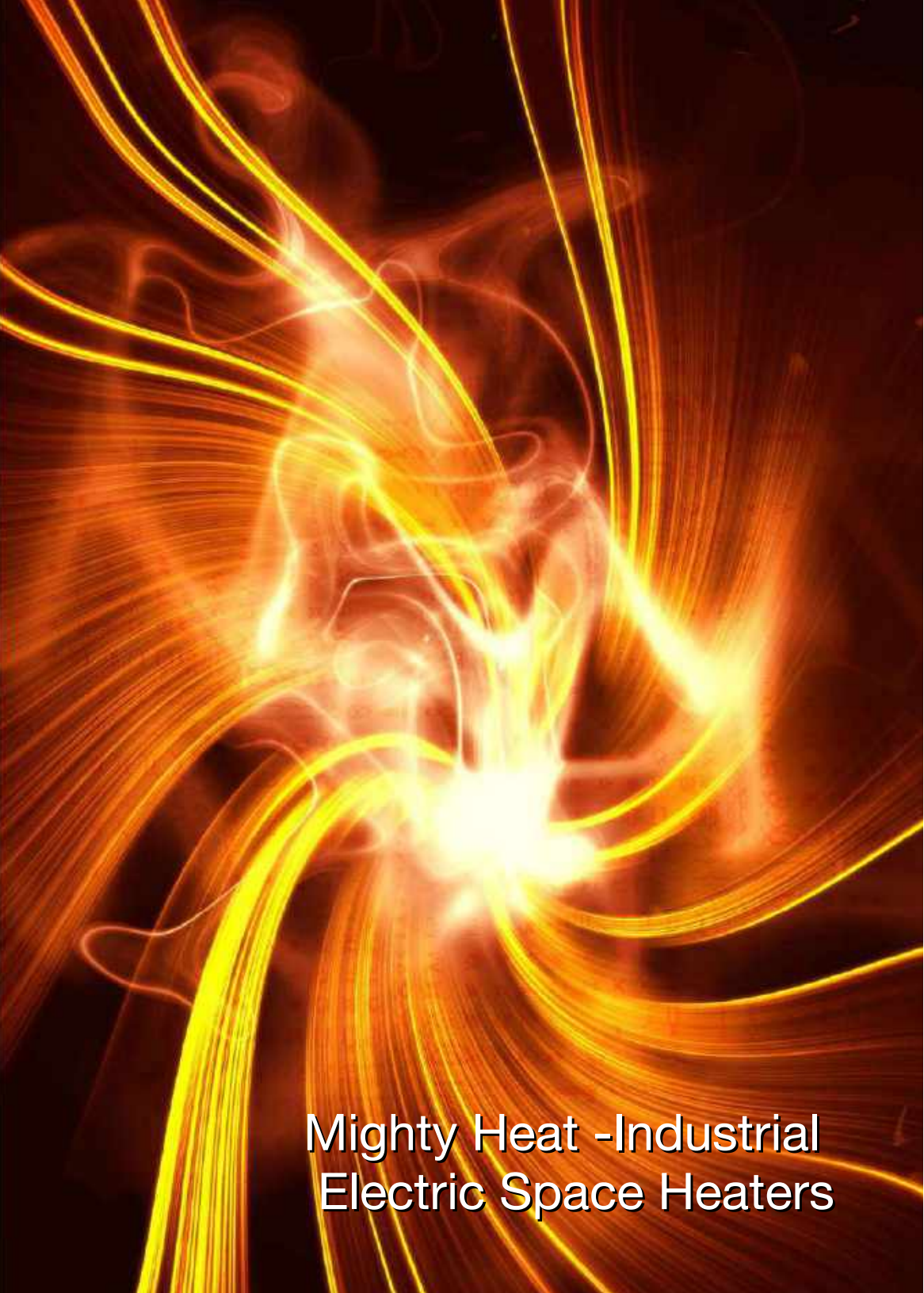


Duct up to 20 metres with each extractor

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Mighty Heat -Industrial
Electric Space Heaters

A clean and safe alternative to Gas & Diesel heaters - no exhaust, vapours, odours or naked flames



Light Industrial/Commercial Series - Designed to offer the most cost effective 3ph heating solutions available. Ideal for small industrial units and a whole host of applications. Built to out perform cheap imports

Industrial Series - The flagship series is defined by its large heat output, smooth operation and unrivalled durability. Designed and built to withstand industrial applications as well as being able to duct to 10m from a single machine

Super Industrial Series - Able to withstand and perform under the harshest conditions, the Super Industrial range has been designed for applications that require quick and effective large scale heat delivery

Mighty Heat - Heating Guide - Square Metre Footprint Coverage

Heater Model	Well Insulated Area (eg House)	Average Insulated (eg Portakabin)	Badly Insulated (eg Warehouse)	Poorly Insulated (eg Marquee)
FF3	46 sq metres	42 sq metres	19 sq metres	14 sq metres
IFH9	192 sq metres	108 sq metres	80 sq metres	60 sq metres
FF13	208 sq metres	114 sq metres	82 sq metres	62 sq metres
IFH15	315 sq metres	168 sq metres	126 sq metres	95 sq metres
FFHT32	450 sq metres	250 sq metres	182 sq metres	136 sq metres
FF42	652 sq metres	340 sq metres	261 sq metres	198 sq metres

Calculate Approximate Heat Requirements

1) Establish the required temperature rise in °C (2) Calculate the volume of the space in cubic meters (LxWxH)

3) Calculate the areas insulation properties (k value)

Well insulated k=1.2 Average k=2.2 Badly insulated k=3.0 Poorly k=4.0


The amount of heat required = rise in °C x Volume in m³ x k x 4= Btu/h then - Divide the answer by 3412 for kW's






EG: 15 x 180 x 4 x 4 = / 3412 = 12.66 kW so IFH9, IFH15 or FF13 would be suitable

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> Suitable for most Industrial and Commercial Applications Dockyards and ship building Factories Mining Construction Forges Processing plants Events & Marquees Schools & Exhibition Halls Warehouses Hospitals Temporary Buildings 	<ul style="list-style-type: none"> Hire Companies Builders Construction Firms Wholesalers & Resellers Procurement Managers Facility Management Customers who require heat on a budget 	<ul style="list-style-type: none"> The industry standard Fireflo range of portable infra red space heaters and fan heaters is a fixture in many of the worlds leading hire fleets and industrial supply catalogues. Designed using the very latest in heating and airflow technology the range includes infra red heaters, standard fan heaters and high volume machines suitable for ducting through multiple outlets or long distances. All built to withstand industrial use using the same high spec of materials and production methods this extensive range has something to suit every application and is an ideal safe, clean, fume free alternative to gas and diesel. Quiet, efficient heat from our most cost effective range. Quality assured by TUV SUD, one of Europe's leading safety test houses. Full thermostatic control & variable heat outputs, including fan only for summer ventilation.

Product Image	Product Specs
  <p>Supplied with a 5 pin 16A appliance inlet as standard</p>	<p>Power 9kW Supply 400v 3phase 50hz Settings Fan Only/4.5kW/9kW IP Rating IPX4 Air Output 1198 m3/hr Approx Heating Area 80m2 Heater Dimensions 355x300x490mm Weight 9.6kg Thermostat Fitted As Standard Overtemp protection Yes Plug Type 16A 5 pin appliance inlet (mains cables available separately) Full product reference IFH03-90</p>
  <p>Supplied with a 5 pin 32A appliance inlet as standard</p>	<p>Power 15kW Supply 400v 3phase 50hz Settings Fan Only/5kW/10kW/15kW IP Rating IPX4 Air Output 2246 m3/hr Approx Heating Area 120m2 Heater Dimensions 410x360x550mm Weight 14.5kg Thermostat Fitted As Standard Overtemp protection Yes Plug Type 32A 5 pin appliance inlet (mains cables available separately) Full product reference IFH03-150</p>
  <p>Supplied with a 5 pin 63A appliance inlet as standard</p>	<p>Power 22kW Supply 400v 3phase 50hz Settings Fan Only/11kW/22kW IP Rating IPX4 Air Output 2867 m3/hr Approx Heating Area 180m2 Heater Dimensions 430x430x600mm Weight 19.2kg Thermostat Fitted As Standard Overtemp protection Yes Plug Type 63A 5 pin appliance inlet (mains cables available separately) Full product reference IFH03-220</p>



Ideal for warehouse applications



The complete IFH range



Mains connector available separately



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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> Suitable for most Industrial and Commercial Applications Dockyards and ship building Power stations Factories & Warehouses Mining Construction Forges Processing plants Events & Marquees Schools Military Installations Exhibition halls Hospitals Temporary Buildings 	<ul style="list-style-type: none"> Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	<ul style="list-style-type: none"> The industry standard Fireflo range of portable infra red space heaters and fan heaters is a fixture in many of the worlds leading hire fleets and industrial supply catalogues. Designed using the very latest in heating and airflow technology the range includes infra red heaters, standard fan heaters and high volume machines suitable for ducting through multiple outlets or long distances. All built to withstand industrial use using the same high spec of materials and production methods this extensive range has something to suit every application and is an ideal safe, clean, fume free alternative to gas and diesel. With the ability to duct to 10m from a single unit, the ever popular Mighty Heat Industrial Series now offers integrated spigots made from the same high quality, high gauge steel as the rest of the unit and fabricated as an intrinsic part of the chassis rather than a separate item.



Product Image	Product Specs	Product USP
<p>FF3</p> 	<p>Approx Airflow Rate 423m³/hr Fan Type Radial Sensible Heat Capacity 10,236 BTU (3kW equivalent) Max Heat Capacity (kcal) 2625 Supply 110v or 230v 50hz Plug Size 32A (110v) 13A(230v) Sound (3m) 45dB(A) Spigot 200mm Mobility Portable Remote Thermostat Optional Dimensions HxWxD (mm) 360x300x330 Weight 10kg Overtemp protection Yes Max Ducting 2m</p>	<p>An extra tough unit designed and built to withstand the rigours of regular site use. Features include an adjustable thermostat and over temperature protection as standard while the optional spigot allows the user to fit up to 2m of ducting. Available in 110v 32A and 230v 13A models.</p>
<p>FF13</p> 	<p>Heat Capacity 30,708 BTU Ampage 11A Approx Airflow Rate 1017m³/hr Fan Type FC Impellor Supply 3 phase 400v 50hz Plug Size 16A Sound (3m) 55dB(A) Spigot 250mm Mobility Portable Remote Thermostat Optional Dimensions HxWxD (mm) 380x300x450 Weight 18kg Overtemp protection Yes Max Ducting 10m</p>	<p>A powerful, industrial 16A heater. Built to withstand the rigours of regular site use with features including an adjustable thermostat and over temperature protection as standard while the optional single or double spigot outlets can provide warm air either along 10M of ducting or to two separate area's. A clean, odourless and fume free alternative to gas and diesel heaters.</p>

Available accessories for the FF3 and FF13 heaters



Flexible duct for FF3 (2m max) and FF13 (10m max)



Hard wired remote thermostat



250mm Single Spigot



Twin 150mm Spigot



Twin 150mm aluminium duct


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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> Suitable for most Industrial and Commercial Applications Dockyards and ship building Power stations Factories & Warehouses Mining Construction Forges Processing plants Events & Marquees Schools Military Installations Exhibition halls Hospitals Temporary Buildings 	<ul style="list-style-type: none"> Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	<ul style="list-style-type: none"> With high quality British manufacturing, high temperature rise capability and powerful airflows the all new FireFlo high temperature range is set to redefine what 's expected of portable electric heating. The all new FireFlo High Temp heaters are powerful industrial electric fan heaters capable of ducting long distances and delivering high volume airflows with a delta T of +75°K, or even holding at room at 60°C. As with all FireFlo heaters they are made to take the knocks of day to day site use making them ideal for use in factories or at events, while the all new industry leading performance means they can also be used for pest control in hotels etc. The range includes 16A and 32A models and boasts a full range of safety features and accessories as standard, including over temperature protection, remote thermostat, duct adaptor, machine mounted thermostat, locking 4 point castors, multiple heat settings and mains cables supplied with 5 pin plugs.



Product Image	Product Specs	Product USP
<p>FFHT32</p> 	<p>Approx Airflow Rate 1533m³/hr Fan Type Axial Heat Output Fan Only/12000w/18000w Max Delta T 75c Current 27A Supply 32A 415v 3PH+N+E Plug Size 32A Spigot 300mm Mobility Portable Remote Thermostat Included Dimensions (inc spigots and castors) HxWxD (mm) 520x350x902mm Weight 30kg Overtemp protection Yes Max Ducting 10m</p>	<p>With an incredible temperature rise (delta T) of 75c, large volume airflow and British build quality the FFHT32 is an upgrade on the FF29 and ideal for events, warehouses, factories and control of pests such as bed bugs in hotels.</p> <p>Delivering odor and fume free heat and ductable to 10m the FireFlo high temp heaters can be used to heat people, processes, equipment and rooms where gas or diesel heaters are not an option.</p>

FFHT32 Accessories



10m insulated duct available



Remote thermostat supplied as standard



Thermostatic probes demonstrating the impressive temperature rise

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> Suitable for most Industrial and Commercial Applications Dockyards and ship building Power stations Factories Construction Forges & Mining Processing plants Military Installations Warehouses Marquees & Events Exhibition halls Hospitals Temporary Buildings 	<ul style="list-style-type: none"> Hire Companies Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Large Industrial Units 	<ul style="list-style-type: none"> The industry standard Fireflo range of portable infra red space heaters and fan heaters is a fixture in many of the worlds leading hire fleets and industrial supply catalogues. Designed using the very latest in heating and airflow technology the range includes infra red heaters, standard fan heaters and high volume machines suitable for ducting through multiple outlets or long distances. All built to withstand industrial use using the same high spec of materials and production methods this extensive range has something to suit every application and is an ideal safe, clean, fume free alternative to gas and diesel. The Super Industrial FF42 is perfectly comfortable providing heat in place of, or in addition to an existing heating system. The standard multi-stage controls can be adapted to suit most requirements so that constant airflow and temperatures are maintained.



Product Image	Product Specs	Product USP
<p>FF42</p>	<p>Airflow Rate 4000m³/hr Nominal Output 42kW Supply 400v 50hz Plug Size 63A Sound (3m) 73dB(A) Spigot 500mm Mobility Portable Machine Mounted Thermostat Standard Remote Thermostat Optional Extra Max Ducting 30m Dimensions HxWxD (mm) 1000x700x1100 Weight 130kg Overtemp protection Yes Phase protection Yes 24v Control Circuit</p>	<p>The most powerful 63A heater available. Designed and built for industrial use the FF42 features variable heat output, 24V control circuit for safety, remote thermostat socket, spigot, over temperature protection and an auto run on as standard. The FF42 is fitted with a powerful forward curved impeller that can deliver heat along 30m of ducting</p>

Off-Fan-21kW-42kW settings



FF42

Thermostat

Thermostat coupler



Lifting eyes for maximum portability



Remote thermostat (optional extra)



10m 500mm duct (optional extra)

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> • Suitable for most Industrial and Commercial Applications • Dockyards and ship building • Power stations • Factories & Warehouses • Mining • Construction • Forges • Processing plants • Events & Marquees • Schools • Military Installations • Exhibition halls • Hospitals • Temporary Buildings 	<ul style="list-style-type: none"> • Hire Companies • Builders • Construction Firms • Procurement Managers • Facility Management • Wholesalers & Resellers 	<p>All new high performance workshop heater. High volume airflow, superb DeltaT and 360° coverage from a single unit allows one unit to be used instead of many. Can also be used as part of a drying system to help reduce drying times in construction.</p> <p>The innovative new diffuser is lightweight, easy to store, can be easily washed and is made from fire retardant material that conforms to EN13501 B-S1-d0.</p> <p>The rugged steel body is designed and built to withstand the rigours of daily site use whilst the oven hardened finish helps keep it looking tip top in your fleet</p>



Product Image	Product Specs	Technical Information
<p>FFVH32</p>	<ul style="list-style-type: none"> • 2,300 M³/hr airflow • 18kW of heat • Fan Settings Fan Only/12kW/18kW • Current 28A • 3ph+N+E 32A appliance inlet • DeltaT 50°C • Fan Type Forward curved impeller • 300mm Ducting Adaptor • Dimensions (inc diffuser) HxWxD (mm) 2107 x 603 x 393mm • Dimensions (without diffuser) HxWxD (mm) 1347mm x 603 x 393mm • Weight 70kg • Full overtemperature protection 	<ul style="list-style-type: none"> • Inflatable, lightweight, flame retardant distributor gives 360° heating • Recessed control panel with lockable cover for tamper proof controls • Comes with remote and chassis mounted thermostats as standard • Inline filter fitted as standard • Fully portable with locking castors <p>Two heat plus fan only settings</p>

FFVH32 Accessories



3ph + N + E 32A appliance & remote thermostat inlet



Inline filter as standard



Inflatable, lightweight, flame retardant distributor gives 360° heating






Fully portable with locking castors

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Product Applications	Target Customers	RG308 - Range USP
<ul style="list-style-type: none"> Offices Warehouses Schools and Halls Factories Temporary Building Building Sites 	<ul style="list-style-type: none"> Hire Companies Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	<p>The industry standard Fireflo range of portable infra red space heaters and fan heaters is a fixture in many of the worlds leading hire fleets and industrial supply catalogues. Designed using the very latest in heating and airflow technology the range includes infra red heaters, standard fan heaters and high volume machines suitable for ducting through multiple outlets or long distances. All built to withstand industrial use using the same high spec of materials and production methods this extensive range has something to suit every application and is an ideal safe, clean, fume free alternative to gas and diesel.</p>

Product Image	Product Specs	Product USP
	<p>RG308 240v 3kW 13 amp Sensible Heat Capacity (kW) 3kW Heat settings Half/Full Filaments 2 x Quartz Halogen Supply 240v 50hz Plug Size 13A Mobility Portable Dimensions (Body) HxWxD (mm) 917x421x171 (420mm depth with wheels) Weight 14kg</p>	<p>The fully portable RG308/13 provides localised heat for operatives or processes when traditional heat isn't an option. Runs from a standard 230V 13A socket and features industry standard halogen bulbs, two heat settings, a reduced glow and a high quality build specification. The heaters are also fitted with an anti tilt switch for added safety.</p>
	<p>RG308 110v 1.6kW 16 amp Sensible Heat Capacity (kW) 1.6kW Heat settings Half/Full Filaments 2 x Quartz Halogen Supply 110v 50hz Plug Size 16A Mobility Portable Dimensions (Body) HxWxD (mm) 917x421x171 (420mm depth with wheels) Weight 14kg</p>	<p>The fully portable RG308/16 provides localised heat for operatives or processes when traditional heat isn't an option. Runs from a standard 110V 16A socket and features industry standard halogen bulbs, two heat settings, a reduced glow and a high quality build specification. The heaters are also fitted with an anti tilt switch for added safety. Ideal for site use.</p>
	<p>RG308 110v 3kW 32 amp Sensible Heat Capacity (kW) 3kW Heat settings Half/Full Filaments 2 x Quartz Halogen Supply 110v 50hz Plug Size 32A Mobility Portable Dimensions (Body) HxWxD (mm) 917x421x171 (420mm depth with wheels) Weight 14kg</p>	<p>The fully portable RG308/32 provides localised heat for operatives or processes when traditional heat isn't an option. Runs from a standard 110V 32A socket and features industry standard halogen bulbs, two heat settings, a reduced glow and a high quality build specification. The heaters are also fitted with an anti tilt switch for added safety.</p>



Ideal for a host of industrial applications



Easy to use controls and fully portable



Immediate direct heat

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Product features	Ideal for	HPW20 and HPW40 - Range USP
<ul style="list-style-type: none"> • Easy to use touch screen • Fully programmable • Underfloor heating & radiator options • Full modular operation • 3 power settings • High quality pump • Summer and winter settings • Frost protection • Overheat protection • Flow control protection • Automatic purge valve • Low & Over pressure protection • 99% efficiency 	<ul style="list-style-type: none"> • HVAC Contractors • Events & Exhibitions • Site offices & Temporary Structures • Warehouses & Factories • Underfloor Heating & Screed Drying • Retail Centres, Shops & Showrooms • Industrial, Pharmaceutical & Food • Preparation Processes 	<ul style="list-style-type: none"> • The Broughton HPW20 and HPW40 packaged electric boilers are fast, efficient and portable solutions for a wide range of heating applications. Compact and fully portable these all new units are ideal for installations where oil or gas fired boilers just aren't an option. • Equally at home as part of stand alone systems for events and temporary structures or plumbed directly into an existing system for emergency cover or during planned maintenance, the HPW boilers can provide everything from central heating and hot water to underfloor heating and screed drying. Fully programmable via the easy to use touch screen, including staged temperature increases and decreases. • Built to last from powder coated steel, they are fully portable on their own integrated trolleys and come in two options: heating only or heating and hot water. There is a simple to use remote thermostat facility, high quality pumps and a full range of safety devices including high pressure relief valve, low pressure switch, frost protection and manual reset over temp thermostats as a failsafe • Not only can the HPW boilers supply water at temperatures from 10C to 80C, but they are also fully programmable to automatically increase and decrease temperatures on a daily basis



Product Image	Product Specs
	<p>Nominal Output 6/12/18kW Temperature Range 10°C to 80°C Power Supply 32A 3Ph 50Hz Max Running Current 27.3 A Plug Type 32A 5 Pin BS4343 Max Working Pressure 3 Bar Safety Valves 3.5 Bar Heat Exchanger Available Time Clock Yes Programmable Yes Frost Protection Yes Pump Yes Variable Temperature Control Yes Expansion Tank Yes Flexible Hose Connections Flow/Return/Cold Feed Water Connections 3/4" BSPP Female Weight 35kg Dimensions 1014x650x496mm</p>
	<p>Nominal Output 6/12/18kW Temperature Range 10°C to 80°C Power Supply 32A 3Ph 50Hz Max Running Current 27.3 A Plug Type 32A 5 Pin BS4343 Max Working Pressure 3 Bar Safety Valves 3.5 Bar Heat Exchanger Available Time Clock Yes Programmable Yes Frost Protection Yes Pump Yes Variable Temperature Control Yes Expansion Tank Yes Flexible Hose Connections Flow/Return/Cold Feed Water Connections 3/4" BSPP Female Weight 35kg Dimensions 1014x650x496mm</p>




Easy to use touch screen controls



Standard 3/4" BSPP connections

Did you know...?

Not only can the HPW boilers supply water at temperatures from **10c to 80c**, but they are also **fully programmable to automatically increase and decrease temperatures** on a daily basis!



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Mighty Dry -
Industrial Dehumidifiers

Product Applications	Target Customers	Mighty Dry Range USP
<ul style="list-style-type: none"> Suitable for most Industrial and Commercial applications During construction and finishing on building sites After fire or flood damage During the storage of sensitive materials and products such as documents and ingredients In data centres or Equipment rooms where electrical switching equipment might be affected by moisture 	<ul style="list-style-type: none"> Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Fire & Flood Restoration Companies DIY Handyman 	<ul style="list-style-type: none"> Mighty Dry dehumidifiers combine very large extraction rates with high quality materials to give industry leading performance. These rugged and reliable units use tough steel bodies and powder coated finishes to take the knocks associated with regular site use while the reduced size and weight help you maximise transport and storage space. With their unrivalled versatility Mighty Dry dehumidifiers are a popular choice throughout the hire and flood restoration industries where they help reduce the speed of drying times and reduce water damage. Available in either dual voltage or 230V only we also offer a full range of accessories including hour counters, condensate pumps and humidistat's.



Dehumidification Tips	Additional Tips
<ul style="list-style-type: none"> Do not obstruct air inlet or outlets Ensure doors and windows are closed If possible place the dehumidifier in the centre of the room If more than one unit is being used space them out evenly throughout the room Dehumidifiers give maximum results at around 20°C so adding extra heat can aid the dehumidification process and reduce drying times 	<ul style="list-style-type: none"> ALWAYS USE EXTRA HEAT IF THE TEMPERATURE FALLS BELOW 6°C Using a Mighty Breeze fan to create a laminar airflow across the surface to be dried will also aid dehumidifying and reduce drying times. This is especially effective when drying out carpets etc after floods or cleaning and can help reduce the risk of moisture damage including shrinkage Build up's of dust and fluff sucked into the machine can hinder performance and create blockages in the drip tray which can lead to leaks. Regular cleaning of the coil and drip tray will reduce the risk of these problems

Product Image	Product Specs	Optional Extras
 <p>CR40</p>	<p>Extraction 11.25L/24hrs @ 70%RH/20°C 38.01L/24hrs @ 100%RH/35°C Supply 110v or 230v/50Hz/1ph (Dual voltage available) Nominal Running Current 1.3A (230v) Dimensions 545x370x320mm Weight 23kg</p>	<p>A compact industrial dehumidifier ideal for site or flood restoration use. The rugged and reliable CR40 has been designed to maximise storage and transport space and is available in dual voltage and with a host of accessories including humidistat, condensate pump and hour counter</p>
 <p>CR70</p>	<p>Max Extraction 25.5L/24hrs @ 70%RH/20°C 70.65L/24hrs @ 100%RH/35°C Supply 110v or 230v/50Hz/1ph (Dual voltage available) Nominal Running Current 3.6A (230v) Dimensions 770x445x470mm Weight 36kg</p>	<p>A high volume industrial dehumidifier ideal for site or flood restoration use. The rugged and reliable CR70's steel case is built to withstand the rigours of daily site use and it is also available in dual voltage along with accessories including condensate pump, humidistat and hour counter</p>



CR40 - Removable drip tray



Ideal for decorators



Easy to adjust Dual Voltage mode

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