FULLY SERVICEABLE EQUIPMENT



FULL SPARE PARTS AVAILABILITY

FULL TECHNICAL SUPPORT



2 YEAR WARRANTY



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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

ELECTRO AIR PRODUCTS I

Company History

Broughton EAP Blowing Hot & Cold for 30 years

 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.







COOL HOME



Broughton MCM27, MCM20 & Cool Home Spec Sheets

Hire Event Exhibition - 2008

Mighty Cool - Portable Air Conditioner Units

Portable Air Conditioning Guide

ELECTRO AIR PRODUCTS LTD

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 m³
- Portable Buildings ± 57 W per m³
- Tents/Marquees ± 95 W per m³

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 ± 150w
- Laser Printer ± 500w
 Photocopier (standby) ± 200w
- Photocopier (standby) ±
 Photocopier (in use) ±
- Photocopier (in use) ± 1000w
 Fax Machine ± 500w

± 800w

± 50w

- Coffee Machine
- TV/ Video Screen
- 3

Portable Air Conditioning Guide

ELECTRO AIR PRODUCTS LTD

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

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

Where will the hot air be exhausted to? Is there a window or ceiling void that can be used?
 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



Mighty Cool – Low GWP Portable Air Conditioner Units

ELECTRU AIR PRO		21.1		
Product Applications	Target Customers	Range USP		
 Marquees Hotels Kitchens Data Centres Server Rooms Portable Buildings Laboratories Hospitals Gymnasiums 	 Air Conditioner Servicing & Repairs Food Production Process Cooling Computer Repairs IT Consultants Procurement Managers Facility Management Wholesalers & EC con Bac pre furt mu Dig Hig 		ssive duties: 6.5kW to 14.6kW of cooling fans: Greater efficiency, better performance and fully atrollable ckward curved impellers: Generate much higher ssure than axial fans so can be used to push air ther and through smaller diameter ducting, which is ch more manageable ital thermostatic control: Allowing for an easy and re accurate performance h performance, energy efficient cooling solutions for ay's environmentally conscious market	
Product Image	Product Specs		Product USP	
MCe6.0	Operating range 21°c-35°c		 The unit that supersedes the ever popular MCM230, the MCe6.0 promises up to 6.5kW of cooling. This deceptively powerful monoblock unit utilizes Broughton's unique airflow delivery system to power the exhaust air along up to 10m of narrow 150mm diameter ducting. Not only does this make the ducting much more manageable and easy to store, it also allows the unit to be sited up to 10m away from the warm air exhaust point. The cold air side also uses the same airflow technology, allowing a single unit to cool two area's at the same time with the option to extend the ducting. The dual outlets included as standard give the unit directional airflow as they can be positioned for maximum cooling effect. All new for this year is the digital thermostat that allows the unit maintains it. Ideal for use either as a spot cooler or to help regulate temperatures wherever the need arises, the MCe6.0 is a fully portable powerhouse that ticks the environmental boxes. 	
MCe9.0 MCe9.0 Nominal duty 9kW Nominal Running Current 10 Digital thermostatic control Exhaust up to 10m Cool two areas from one ur to 1.25m per outlet Lockable castors Narrow 200mm duct High efficiency EC fan techr Evaporator Airflow (max) 1, Supply 13A 230v Typical Cooled Area 220m ^a Cooling Ducting 2x150mm Exhaust Ducting 200mm Weight 95kg Dimensions 1192x526x774m (Including spigot) Operating range 15°c-35°c IP Rating IP2X Noise 65dB		t 10.3A rol unit up hnology 1,080m³ 1,800m³ n 4mm c	 Building on the legacy of the MCM350, the unit that invented high volume portable cooling, the all new MCe9.0 not only promises a massive 9kW of cooling but it does so with today's environmentally conscious user in mind. High efficiency EC fan technology is used to improve fan performance whilst the all new low GWP (global warming potential) refrigerant is 95% less harmful than traditional types, ensuring maximum performance with minimum impact. In addition to the environmental credentials the MCe9.0 delivers unrivalled performance. 9kW of cooling from a standard 13A supply and powerful backward curved fans that can exhaust warm air over 10m through of lightweight, standard 200mm ducting that's much easier to handle and store than some of the 300-400mm duct that's commonly used. Also featuring fully adjustable airflow, digital thermostatic control, auto shut off and indicator light when the condensate tank is full and lockable castors for easy manoeuvrability the MCe9.0 is probably the most powerful and versatile portable air conditioner on the market. 	
	The MCe range uses R454C, a low GMP (Global Warming Potential) refrigerant that's 95% less harmful to the environment than some traditional refrigerants. Not only that, but as it's A2L rated neither does it have the flammability issues associated with other low GMP refrigerants such as R290 (Propane) either.			

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ELECTRO AIR PRODUCTS LTD

Mighty Cool – Low GWP Portable Air Conditioner Units

ELECTRO AIR PRO		Augusta da		
Product Applications T	arget Customers	Range U	SP	
 Marquees Hotels Kitchens Data Centres Server Rooms Portable Buildings Laboratories Hospitals Gymnasiums 	 Hire Companies Air Conditioner Servicing & Repairs Food Production Process Cooling Computer Repairs IT Consultants Procurement Managers Facility Management Wholesalers & Resellers 		e duties: 6.5kW to 14.6kW of cooling s: Greater efficiency, better performance and fully lable ard curved impellers: Generate much higher re than axial fans so can be used to push air and through smaller diameter ducting, which is nore manageable thermostatic control: Allowing for an easy and ccurate performance erformance, energy efficient cooling solutions for environmentally conscious market MADE	
Product Image	Product Specs		Product USP	
MCSe.7.3	Nominal duty 7.4kW Nominal running current 12.5A Digital Thermostatic control Max Umbilical length 35m Lockable castors High efficiency EC fan technology Main Unit Airflow (max) 1,100m ³ Heat Exchanger Airflow (max) 3,100m ³ Ideal for server rooms and data centres Supply 13A 230v Weight Indoor Unit 90kg (wet) Weight Heat Exchanger 22kg (wet) Dimensions 1308x805x382mm Operating range 15°c-35°c IP Rating (Indoor/Outdoor) IP2X/IP24 Max Water Temp 50c Noise (Indoor/Outdoor) 65/64dB		 As a water cooled split the MCSe7.3 is the most efficient and effective form of portable air conditioning available, as it removes the de rating effect of the condenser by using a plate heat exchanger instead. This also helps keep the sound down too as it moves one of the fans outside the area needing cooling. This low GWP version of our industry standard MCWS250 sees it upgraded to meet modern environmental standards while still promising up to 7.4kW of cooling without the need for ducting. This makes the MCSe7.3 ideal for use in data centres, especially as the main unit and outdoor section can be up to 35M apart. With digital thermostatic control, twin louvre directional and variable speed control the MCSe7.3 can have it's air delivery tailored to suit a range of needs, while a status panel lets you know what the units is doing at a glance and low temperature operation is also included as standard. With all this in mind, the MCSe7.3 has reset the standard for portable split air cooling equipment. 	
MCSe14.6 Water cooled split The most efficient form of portable air conditioning Variable fan speed Digital thermostatic control Low temperature operation Ideal for server rooms and data centres Supply 32A 230v Weight 175kg Dimensions 1835x670x450mm Can be positioned up to 35m away from outdoor unit Powerful twin EC fans to deliver high volume airflow		rol ion nd unit ow	 The most powerful water cooled split on the market, the MCSe14.6 takes everything the MCSe7.3 has to offer then doubles it. With a massive 14.6kW cooling duty, powerful EC fan technology and low GWP refrigerant combining to deliver cool air with maximum efficiency and minimum environmental impact. As with the MCSe7.3 the MCSe14.6 doesn't require any ducting and the main unit can be sited up to 35M from the outdoor section allowing it to be sited deep within a building. Heavy duty lockable castors on both indoor and outdoor sections allow them to be easily moved into place while the strong steel case ensure it's up to daily site use and perfect for hire fleets. Fully controllable via variable fan speed and a digital thermostat the MCSe14.6 can be tailored to suit any application and is ideal for data centres, factories, storage warehouses, events and other large scale cooling jobs. 	
Vot only that, but as it's A2L rated neither does it have the flammability issues associated with other low GMP refrigerants such as R290 (Propane) either.				
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ELECTRO AIR PRODUCTS LTD

Mighty Cool -Air Handling Units

ELECTRU AIR PR		
Product Applications	Target Customers	Range USP
 Offices Marquees Hotels Kitchens Data Centres Server Rooms Portable Buildings Laboratories Hospitals Gymnasiums Schools/Colleges Shops & Restaurants Exhibitions Oil Rigs 	 Hire Companies Air Conditioner Servicing & Repairs Food Production Process Cooling Computer Repairs IT Consultants Procurement Managers Facility Management Wholesalers & Resellers 	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.
Product Image	Product Specs	Product USP
SOkW Duty	AHU30 Cooling Duty 30kW Heating Duty 60kW Supply 13A/230v/50Hz Airflow Variable Fan Speeds Dimensions (H/W/D) 1840x585x425mm	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.
Sokw Duty	AHU50 Cooling Duty 50kW Heating Duty 100kW Supply 13A/230v/50Hz Airflow Variable Fan Speeds Dimensions (H/W/D) 1840x800x425mm	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.

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Mighty Cool -Comcool Evaporative Cooler

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Product Applications	Target Customers	Features and Benefits
 Portable Buildings Night Clubs Large Factories Gymnasiums Sports Halls Schools/Colleges Shops & Restaurants Events & Exhibitions Marquees Outdoor Events 	 Hire Companies Air Conditioner Servicing & Repairs Procurement Managers Facility Management Wholesalers & Resellers 	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.

Comcool

Product Image

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

> Mains water connector

cap

point

Manual fill

Tank empty

Recessed control panel with tank purge button

Product Specs

Product USP

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.



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pump

Submersion

Filter

Cable pocket

Mighty Breeze -Industrial Cooling Fans

ELECTRO AIR PRODUCTS LTD

Mighty Breeze -Industrial Cooling Fans

Product Applications	Target Customers	Range USP
 Spot cooling Warehouses Process Cooling Event hire Factories Gymnasiums Retail Shops Suitable for most Commercial and Industrial Applications Set of pop videos 	 Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Fire & Flood Restoration Storage Companies 	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. With a variable speed control, improved efficiency the Mighty Breeze range are the best choice for any situation.

Set of pop videos

Set of pop videos			
4			
Product Image	Product Specs	Product USP	Product Description
MB30	Height 625mm Width 550mm Depth 225mm Weight 10kg	 110v or 230v Powerful sickle bladed motor Quiet operation Tough ABS body Variable speed controller Improved efficiency Max speed and variable speed settings 	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.
	Height 830mm Width 800mm Depth 280mm Weight 18kg	 Europe's no.1 man cooler 110v or 230v Powerful sickle bladed motor Quiet operation Tough ABS body Variable speed controller Improved efficiency Max speed and variable speed settings 	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.

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ELECTRO AIR PRODUCTS LTD

- Mighty Breeze Portable Fume Extraction

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Product Applications	Target Customers	Range USP	
Ideal for removing fumes from: • Welding bays • Warehouses • Tunnels • Basements • Chemical laboratories • Suitable for most Commercial and Industrial applications • Anywhere where fumes are a problem	 Powder Coaters Construction Firms Procurement Managers Facility Management Chemical Companies Wholesalers & Resellers The VF range of industrial extractor fat bodies, aluminium housed motors for dissipation and sickle bladed fans to r pressure and allow them to duct 20M. up to 14,400m3/hr and available in 110 option to suit just about any requirem plastic coated ducting is also available lengths and comes with a built in rope unit. 		r excellent heat maximise airflow and 1. With various outputs OV and 230V there's an nent. Hard wearing le in both 5M and 10M
Product Image	Product Specs		Ducting Options
VF250	 Diameter 250mm Supply 110v/16A or 24 Running Current 110v Airflow 2580m³/hr Static Pressure 294p Weight 12kG Dimensions 35cm x 	250mm diametre 5 or 10 metre lengths	
VF300	 Diameter 300mm Supply 110v/16A or 24 Running Current 110v Airflow 3600m³/hr Static Pressure 343p Weight 14kG Dimensions 44cm x 	300mm diametre 5 or 10 metre lengths	
VF600 / MB2000	 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 		600mm diametre 10 metre lengths



Ideal for extraction & fresh air supply

Customer Order Line 01527 830610 Technical Advice 01527 830616 E: sales@broughtoneap.co.uk F: 01527 527558 Duct up to 20 metres with each extractor

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Mighty Heat - Fire Flo Industrial Electric Space Heaters

ELECTRO AIR PRODUCTS LTD

Mighty Heat - Range Guide, Heat Calculator & Accessories

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	Mighty Heat - 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	
FF80	1,280 sq metres	696 sq metres	516 sq metres	391 sq metres	

Calculate Approximate Heat Requirements

- Establish the required temperature rise in °C then
- Calculate the volume of the space in cubic meters (LxWxH) then
- 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 or FF13 would be suitable

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ELECTRO AIR PRODUCTS LTD

Mighty Heat - Fire Flo Industrial Electric Space Heaters

Product Applications	Target Customers	Range USP
 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 Tomperary Puildings 	 Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	 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.

Temporary Buildings

IN THE UK

Product Image	Product Specs	Product USP
FF3	Approx Airflow Rate 423m ³ /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	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.
FF13 FF13 9kW Output	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	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.

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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ELECTRO AIR PRODUCTS LTD

Mighty Heat -Infra Red Electric Heater

Product Applications	Target Customers	RG308 - Range USP
 Offices Warehouses Schools and Halls Factories Temporary Building Building Sites 	 Hire Companies Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	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.

Product Image	Product Specs	Product USP
RG308	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	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.
RG308	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	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.
RG308	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	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.



Ideal for a host of industrial applications

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Mighty Heat - Fire Flo Commercial Electric Space Heaters

Carlos Concernantes de la Concernantes		
Product Applications	Target Customers	Range USP
 Suitable for most Industrial and Commercial Applications Dockyards and ship building Factories & Forges Mining Construction Forges Processing plants Events & Marquees Schools & Exhibition Halls Warehouses Hospitals Temporary Buildings 	 Hire Companies Builders Construction Firms Wholesalers & Resellers Procurement Managers Facility Management Customers who require heat on a budget 	 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
IFH2		The lightweight yet durable IFH2 Electric Fan Heater delivers 1.5 kW of heat, and are ideal for areas such as building sites and temporary buildings where only a 16A 110v supply is available Power 1.5kW Supply 16A 110v 50hz Settings Fan Only/1.5kW IP
Supplied with a 16A 110v mains lead as standard	1.5kW Output	Rating IPX4 Heater Dimensions 260x240x350mm Weight 4.2kg Thermostat Fitted As Standard Overtemp protection Yes Plug Type
IFH9 Vertical and a standard	9kW Output	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 mains cable Full product reference IFH03-90
IFH15 With a 5 pin 32A 400v mains lead as standard	15kW Output	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 mains cable Full product reference IFH03-150
Ideal for warehouse applicati	ons The IFH range	e Fairs lead supplied as standard
Customer Order Line 01527 Technical Advice 01527 830 E: sales@broughtoneap.co F: 01527 527558)616 Rook .uk Kidsg	unts Sales & Manufacturing ery Works, Newchapel Rd Units 24-25, Crossgate Road grove, Stoke on Trent Park Farm Industrial Estate ordshire, ST7 4SF 01782 777559 Redditch, B98 7SN 01527 830610

ELECTRO AIR PRODUCTS LTD

Mighty Heat - Fire Flo HT Industrial Electric Space Heaters

Product USP

With an incredible temperature rise

airflow and British build quality the

FFHT32 is an upgrade on the FF29

and ideal for events, warehouses,

factories and control of pests such

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

(delta T) of 75c, large volume

as bed bugs in hotels.

Product Applications	Target Customers	Range USP
 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 	 Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	 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.
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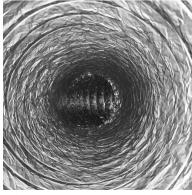
Product Image



Product Specs Approx Airflow Rate 960m³/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

Output

FFHT32 Accessories



10m insulated duct available

Remote thermostat supplied as standard



heaters are not an option.

Thermostatic probes demonstrating the impressive temperature rise

Sales & Manufacturing Units 24-25, Crossgate Road Park Farm Industrial Estate Redditch, B98 7SN 01527 830610

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Accounts Rookery Works, Newchapel Rd Kidsgrove, Stoke on Trent Staffordshire, ST7 4SF 01782 777559

Mighty Heat - Fire Flo Commercial Series Electric Space Heaters

Product Applications	Target Customers		Range USP		
 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 	 Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 		 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		Product USP	
IFH30 IFH30 • Approv 4080m • Fan Ty • Heat O Only/2 • Current • Supply • Plug T (mains d) • Mobility • Diment 614x433 • Weight		4080m ³ / • Fan Type • Heat Out Only/200 • Current 4 • Supply 6 • Plug Type (mains cab • Mobility 1 • Dimension 614x4333 • Weight 3 • Overtem	e Axial put Fan 000w/30000w 43A Nominal 3A 415v 3PH+N+E e 63A Appliance Inlet ole available separately) Portable ons (HxWxD (mm) <709mm 1kg p protection Yes	The IFH30 Industrial electric heater provides up to 30kW of clean, odourless warm air for industrial spaces such as construction sites, warehouses, workshops, factories and more. Fitted with large handles and sturdy wheels, the IFH30 is fully portable and easy to move around site. The robust steel casing offers impact resistance and protection in even the toughest of applications.	
		• Heating /	Area 240m³/hr	The IFH30 also features built in thermal protection and is supplied with two year warranty.	

IFH30 Control Panel

F: 01527 527558



Staffordshire, ST7 4SF 01782 777559

Park Farm Industrial Estate Redditch, B98 7SN 01527 830610

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ELECTRO AIR PRODUCTS LTD

Mighty Heat -Portable Workshop Heater

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Product Applications	Target Customers	Range USP
 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 	 Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers 	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. 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. 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

Product Image P	Product Specs	Technical Information	
	 2,300 M³/hr airflow 18kW of heat Fan Only/12kW/18kW settings Current 28A 3ph+N+E 32A appliance inlet 50°C DeltaT 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 Overtemp protection 	 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 	



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



Inline filter as standard



rd Inflatable, lightweight, flame retardant distributor gives 360° heating



Fully portable with locking castors

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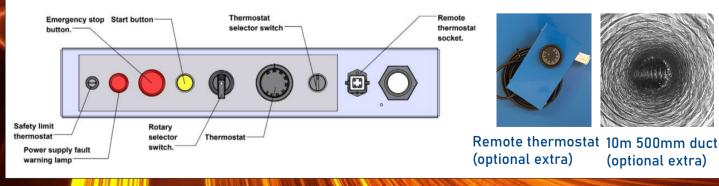
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ELECTRO AIR PRODUCTS LTD

Mighty Heat - Fire Flo Super Industrial Electric Space Heaters

Product Applications	Target Customers	Range USP
 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 	 Hire Companies Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Large Industrial Units 	• 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.

Product Image	Product Specs	Product USP	
FF42	 Airflow Rate 3956m³/hr Nominal Output 42kW Supply 400v 50hz Plug Size 63A Spigot 500mm Mobility Portable Thermostat Standard Remote Thermostat 	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.	
<image/> <text></text>	 Remote Thermostat Standard Max Ducting 20m Dimensions HxWxD (mm) 1000x700x1100 Weight 130kG(approx) Overtemp protection Yes Phase protection Yes 24v Control Circuit Phase Rotation Relay and Warning Yes Manual Reset Overheat Fail Safe 	For added convenience, the FF42 now features a phase rotation relay that won't let the unit start unless all 3 phases are in sync, as well as a warning light on the control panel to alert the user. We've also added the same manual overheat reset system used on the FFHT32 and FFVH32 which shuts the unit down if necessary. The FF42 is fitted with a powerful forward curved impeller that can deliver heat along 20m of ducting.	



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ELECTRO AIR PRODUCTS LTD

Mighty Heat - Fire Flo Super Industrial Electric Space Heaters

Product Specs and USP

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Product Applications	Target Customers	Range USP
 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 	 Hire Companies Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Large Industrial Units 	• 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.

Product Image



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Accounts Rookery Works, Newchapel Rd Kidsgrove, Stoke on Trent Staffordshire, ST7 4SF 01782 777559

ELECTRO AIR PRODUCTS LTD

Mighty Heat - Portable Electric Water Boiler

Product features

- Easy to use touch screen
- Fully programmable
- High quality pump
- Frost protection
- Overheat protection
- Automatic pressure relief valve
- Low & Over pressure protection
- 99% efficiency
- 22kW version available

A fully portable 22kW boiler that can be used for drying concrete flooring, testing underfloor heating and providing hot water and central heating. The digital control allows output to be tailored to suit the application and comes complete with pump, trolley and safety features including expansion tank, low pressure cut out and over temperature cut out.



Product Specs & Applications Product Image **WB22** Ideal applications include • Heating Maintenance Central Heating Disruptions • Under Floor Heating Installations • Events Schools Factories • Care Homes Temporary Building Product Specifications • Flow Rate 2.7 - 3.5m³/hr Water Temperature Range 20°C to 80°C • Supply 400v 50hz Plug Size 32A • Mobility Portable • Power 11/22kW Dimensions HxWxD (mm) 1100x650x47 22kW 10 litre expansion tank Output Warning Pressure Digital gauge lamp controller (1) 11 Up/down arrows Set key

WB - Range USP

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Power on

switch

Accounts

Power level

switches.

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ELECTRO AIR PRODUCTS LTD

Product features

- Easy to use touch screen
- Fully programmable
- Full modulating operation
- High quality pump
- Frost protection
- Overheat protection
- Automatic pressure relief
 valve
- Low & Over pressure protection
- 99% efficiency
- 22kW to 36kW versions available

Mighty Heat - Programmable Electric Water Boiler

WB Programmable Electric Boiler

- Say goodbye to daily site visits to adjust the temperatures of your boiler as it dries a screed floor. The new WB Programmable range of boilers can be pre programmed before leaving the depot to increase and decrease the water temperature as required, meaning all you have to do on site is plug it in and leave it to get on with the job.
- Designed with the everyday user in mind our simple to use touch screen controller can be easily set to suit the application without the need for a PHD in programming or logic. There's also password protection as we understand what happens on site, where even the most sensible of Tradesman can be overcome by curiosity.
- Once up and running the colourful LCD screen displays exactly what's happening and how far through the program it is. On top of all that there's battery backup memory that ensures the program picks up where it left off in the event of a power cut, a frost protection function, temperature probe failure warning and even a fully manual setting. As with our original WB22 these new versions have a full range of safety features for peace of mind.
- 22kW to 36kW versions available



Product Image	WB22/20 Specifications	WB36/21 Specifications
	-	WD30/21 Specifications
<complex-block></complex-block>	 Flow Rate 2.7 - 3.5m³/hr Supply 400v 50hz Water Temperature Range 20°C to 80°C Fully Portable Power 22kW Plug Size 32A Dimensions HxWxD (mm) 1100x650x470 10 litre expansion tank included as standard. Touch screen controller with floor drying program capability. Over-temperature and over-pressure protection. Relay failure protection 	 Commercial circulation pump with water flows of up to 7m3/h. (This is larger than the standard pump). Supply- 3P+N+E 63A 50Hz. 36kW machine that draws 54A. Fully Portable Dimensions HxWxD (mm) 1122x650x650 10 litre expansion tank included as standard. Touch screen controller with floor drying program capability. Over-temperature and over-pressure protection. Water temperature from 5- 80 degrees.
	Accounts Rookery Works, Newchapel Rd	Sales & Manufacturing Units 24-25, Crossgate Road

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Mighty Dry -Industrial Dehumidifiers

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Mighty Dry -Industrial Dehumidifiers

and the second se				
Product Applications	Target Customers	Mighty D	ry Range USP	
 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 affected by moisture 	 Hire Companies Builders Construction Firms Procurement Managers Facility Management Wholesalers & Resellers Fire & Flood Restoration Storage Companies DIY Handyman 	CR70 ur predece environ • Unlike r specific the 0.9M constru • the CRe you mig transpo • In a furt dehumin instead air cond regulati	550 and CRe800 build on the legacy of the hits by promising the same 'siteproof' build ssors, but with improved performance an mental expectations. nany imported models these British built u ally with daily site use in mind, so they use IM or plastic favored by mass manufactur ction coupled with the epoxy powder coat 550 and CRe800 are equipped to deal with ht find on construction sites, in hire fleets rtation of fire & flood damage restoration her move away from some of the more co difiers the CRe range doesn't use propane using the same innovative refrigerants as itioning ranges. This means the units not ons but do so without the risks associated ant such as R290/propane, offering enviro f mind.	d quality as their d consistency with modern units have been designed e 1.2MM steel as opposed to ers. This extra tough finish ensures the heavy handed handling or the regular work. ommonly available (R290) as a refrigerant, the MCe and MCSe portable only meet the latest F-gas d with an A3 rated
Product Image	Product S	pecs	Product Image	Product Specs
	 1.2MM steel construction Epoxy powd finish Dual voltage 	er coated		 1.2MM steel construction Epoxy powder coated finish Dual voltage operation

- Low GWP refrigerant
- RCD circuit protection
- 75L p/24hrs maximum extraction
- Hot gas defrost system
- Rotary compressor

Illustration of the CRe550 (front/back)

Did you know?

The CRe range uses **R454C**, a low GWP (Global Warming Potential) refrigerant that's 95% less harmful to the environment than some traditional refrigerants. Not only that, but as it's A2L rated neither does it have the flammability issues associated with other low GWP refrigerants such as R290 (Propane) either.

Illustration of the

CRe800 (front/back)

Dehumidification Tips

- Do not obstruct air inlet or outlets
- Ensure doors and windows are closed
- If possible place the dehumidifier in the centre of the room

니이네 더니무

operation

system RCD circuit

Swivel

castors

protection 45L p/24hrs

Hot gas defrost

Low GWP refrigerant

maximum extraction

MING

- 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

• ALWAYS USE EXTRA HEAT IF THE TEMPERATURE FALLS BELOW 6°C

NE

LOW GWF

- 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

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SPEAK TO AN EXPERT

WE ARE SPECIALISTS

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



UK Manufacturers of Portable HVAC Equipment

Contact Details

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