

# **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**



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|--|--|
| 1. Broughton EAP - Blowing Hot and Cold since 1979 | 16. Infra Red Quartz Electric Heater           |
| 3. Portable Cooling Guide                          | 17. Commercial Electric Space Heater (2-15kW)  |
| 5. Monoblock Portable Air Conditioners             | 18. Commercial Electric Space Heater (30kW)    |
| 6. Water Cooled Split Air Conditioners             | 19. Fire Flo High Temp Industrial Space Heater |
| 7. Fan Coil Units                                  | 20. Fire Flo Portable Workshop Heater          |
| 8. Comcool Evaporative Cooler                      | 21. Super Industrial Space Heater (42kW)       |
| 10. Industrial Cooling Fans                        | 22. Super Industrial Space Heater (80-120kW)   |
| 11. Portable Fume Extraction                       | 23. Portable Electric Water Boiler             |
| 13. Portable Heating Guide                         | 25. Dehumidifier Guide                         |
| 14. Industrial Electric Space Heater               | 26. Industrial Dehumidifier (50l)              |
| 15. Heaters Ideal For a Host of Applications       | 27. Industrial Dehumidifier (70l)              |
|  | 28. Contact Details                            |



**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 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.

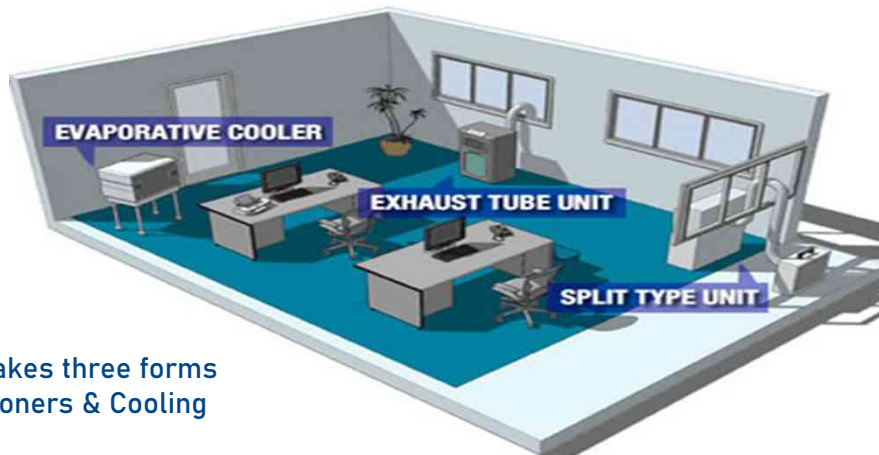


Broughton MCM27, MCM20 & Cool Home Spec Sheets

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  $\pm 46 \text{ W per m}^3$
- Portable Buildings  $\pm 57 \text{ W per m}^3$
- Tents/Marquees  $\pm 95 \text{ W per m}^3$

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  $\pm 150\text{w}$
- Laser Printer  $\pm 500\text{w}$
- Photocopier (standby)  $\pm 200\text{w}$
- Photocopier (in use)  $\pm 1000\text{w}$
- Fax Machine  $\pm 500\text{w}$
- Coffee Machine  $\pm 800\text{w}$
- TV/ Video Screen  $\pm 50\text{w}$

### 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"> <li>Offices</li> <li>Marquees</li> <li>Hotels</li> <li>Kitchens</li> <li>Data Centres</li> <li>Server Rooms</li> <li>Portable Buildings</li> <li>Laboratories</li> <li>Hospitals</li> <li>Gymnasiums</li> <li>Schools/Colleges</li> <li>Shops &amp; Restaurants</li> <li>Exhibitions &amp; Oil Rigs</li> </ul>	<ul style="list-style-type: none"> <li>Hire Companies</li> <li>Air Conditioner Servicing &amp; Repairs</li> <li>Food Production</li> <li>Process Cooling</li> <li>Computer Repairs</li> <li>IT Consultants</li> <li>Procurement Managers</li> <li>Facility Management</li> <li>Wholesalers &amp; Resellers</li> </ul>	<ul style="list-style-type: none"> <li>Massive duties: 6.5kW to 14.6kW of cooling</li> <li>EC fans: Greater efficiency, better performance and fully controllable</li> <li>Backward curved impellers: Generate much higher pressure than axial fans so can be used to push air further and through smaller diameter ducting, which is much more manageable</li> <li>Digital thermostatic control: Allowing for an easy and more accurate performance</li> <li>High performance, energy efficient cooling solutions for today's environmentally conscious market</li> </ul>



Product Image	Product Specs	Product USP
<p><b>MCe6.0</b></p>  <p><b>6.5kW Duty</b></p> <p></p>	<p>Nominal duty 6.5kW  Nominal Running Current 8A  Digital thermostatic control  Exhaust up to 10m  Cool two areas from one unit up to 1.25m per outlet  Lockable castors  Narrow 150mm duct  High efficiency EC fan technology  Evaporator Airflow (max) 1,198m³  Condenser Airflow (max) 1,200m³  Supply 13A 230v  Typical Cooled Area 150m²  Cooling Ducting 2x150mm  Exhaust Ducting 150mm  Weight 92kg  Dimensions 1086x526x774mm (Including spigot)  Operating range 21°C–35°C  IP Rating IP2X Noise 65dB</p>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>All new for this year is the digital thermostat that allows the user to set the desired temperature and sit back while 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.</li> </ul>
<p><b>MCe9.0</b></p>  <p><b>9kW Duty</b></p> <p></p>	<p>Nominal duty 9kW  Nominal Running Current 10.3A  Digital thermostatic control  Exhaust up to 10m  Cool two areas from one unit up to 1.25m per outlet  Lockable castors  Narrow 200mm duct  High efficiency EC fan technology  Evaporator Airflow (max) 1,080m³  Condenser Airflow (max) 1,800m³  Supply 13A 230v  Typical Cooled Area 220m²  Cooling Ducting 2x150mm  Exhaust Ducting 200mm  Weight 95kg  Dimensions 1192x526x774mm (Including spigot)  Operating range 15°C–35°C  IP Rating IP2X Noise 65dB</p>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>


 The MCe range uses R454C, a low GWP (Global Warming Potential) refrigerant that's 95% less harmful to the environment than some traditional refrigerants.





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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Offices</li> <li>• Marquees</li> <li>• Hotels</li> <li>• Kitchens</li> <li>• Data Centres</li> <li>• Server Rooms</li> <li>• Portable Buildings</li> <li>• Laboratories</li> <li>• Hospitals</li> <li>• Gymnasiums</li> <li>• Schools/Colleges</li> <li>• Shops &amp; Restaurants</li> <li>• Exhibitions &amp; Oil Rigs</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Air Conditioner Servicing &amp; Repairs</li> <li>• Food Production</li> <li>• Process Cooling</li> <li>• Computer Repairs</li> <li>• IT Consultants</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<ul style="list-style-type: none"> <li>• Massive duties: 6.5kW to 14.6kW of cooling</li> <li>• EC fans: Greater efficiency, better performance and fully controllable</li> <li>• Backward curved impellers: Generate much higher pressure than axial fans so can be used to push air further and through smaller diameter ducting, which is much more manageable</li> <li>• Digital thermostatic control: Allowing for an easy and more accurate performance</li> <li>• High performance, energy efficient cooling solutions for today's environmentally conscious market</li> </ul> 

Product Image	Product Specs	Product USP
<p><b>MCSe.7.3</b></p>   <p><b>7.4kW Duty</b></p>	<p>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) 1,100m³  Heat Exchanger Airflow (max) 3,100m³  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</p>	<ul style="list-style-type: none"> <li>• As a water cooled split the MCSe.7.3 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.</li> <li>• 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 MCSe.7.3 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 MCSe.7.3 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.</li> <li>• With all this in mind, the MCSe.7.3 has reset the standard for portable split air cooling equipment.</li> </ul>
<p><b>MCSe14.6</b></p>   <p><b>14.6kW Duty</b></p>	<p>Nominal duty 14.6kW  Nominal running current 22A  Digital Thermostatic control  Max Umbilical length 35m  Lockable castors  High efficiency EC fan technology  Main Unit Airflow (max) 2,210m³  Heat Exchanger Airflow (max) 6,200m³  Ideal for server rooms and data centres  Supply 32A 230v  Weight Indoor Unit 160kg (wet)  Weight Heat Exchanger 47.4g (wet)  Dimensions 1834x819x451mm  Operating range 15°C–35°C  IP Rating (Indoor/Outdoor)  IP2X/IP24 Max Water Temp 60c  Noise (Indoor/Outdoor) 65/65dB</p>	<ul style="list-style-type: none"> <li>• The most powerful water cooled split on the market, the MCSe14.6 takes everything the MCSe.7.3 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.</li> <li>• As with the MCSe.7.3 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.</li> <li>• 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.</li> </ul>



 The MCe range uses R454C, a low GWP (Global Warming Potential) refrigerant that's 95% less harmful to the environment than some traditional refrigerants.

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Offices</li> <li>• Marquees</li> <li>• Hotels</li> <li>• Kitchens</li> <li>• Data Centres</li> <li>• Server Rooms</li> <li>• Portable Buildings</li> <li>• Laboratories</li> <li>• Hospitals</li> <li>• Gymnasiums</li> <li>• Schools/Colleges</li> <li>• Shops &amp; Restaurants</li> <li>• Exhibitions</li> <li>• Oil Rigs</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Air Conditioner Servicing &amp; Repairs</li> <li>• Food Production</li> <li>• Process Cooling</li> <li>• Computer Repairs</li> <li>• IT Consultants</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<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> <p><b>MADE IN THE UK</b></p>


Product Image	Product Specs	Product USP
<p><b>AHU30</b></p>  <p><b>30kW Duty</b></p>	<p><b>Cooling Duty</b> 30kW  <b>Heating Duty</b> 60kW  <b>Supply</b> 13A/230v/50Hz  <b>Airflow</b> Variable Fan  <b>Speeds</b>  <b>Dimensions (H/W/D)</b> 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 x 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><b>AHU50</b></p>  <p><b>50kW Duty</b></p>	<p><b>Cooling Duty</b> 50kW  <b>Heating Duty</b> 100kW  <b>Supply</b> 13A/230v/50Hz  <b>Airflow</b> Variable Fan  <b>Speeds</b>  <b>Dimensions (H/W/D)</b> 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"> <li>• Portable Buildings</li> <li>• Night Clubs</li> <li>• Large Factories</li> <li>• Gymnasiums</li> <li>• Sports Halls</li> <li>• Schools/Colleges</li> <li>• Shops &amp; Restaurants</li> <li>• Events &amp; Exhibitions</li> <li>• Marquees</li> <li>• Outdoor Events</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Air Conditioner Servicing &amp; Repairs</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<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><b>MADE IN THE UK</b></p>

Product Image	Product Specs	Product USP
<p><b>Comcool</b></p> 	<p><b>Equivalent Cooling Duty</b> 20kW / 71000 BTU <b>Running Current</b> 2A <b>Airflow</b> 5200m³ <b>Dimensions</b> 1660x640x500mm <b>Supply</b> 230v 13A <b>Weight (empty)</b> 115kg <b>Tank Capacity</b> 90 litre <b>Multiple fan speeds</b> <b>Recessed controls</b> <b>Mains Cable pocket</b> <b>Locking castors</b></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>



Recessed control panel and cable pocket    Filter and submersion pump    Mains water connector, manual fill cap and tank empty point    Durable filter

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# **Mighty Breeze - Industrial Cooling Fans**



Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>Spot cooling</li> <li>Warehouses</li> <li>Process Cooling</li> <li>Event hire</li> <li>Factories</li> <li>Gymnasiums</li> <li>Retail</li> <li>Shops</li> <li>Suitable for most Commercial and Industrial Applications</li> <li>Set of pop videos</li> </ul>	<ul style="list-style-type: none"> <li>Construction Firms</li> <li>Procurement Managers</li> <li>Facility Management</li> <li>Wholesalers &amp; Resellers</li> <li>Fire &amp; Flood Restoration</li> <li>Storage Companies</li> </ul>	<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. With a variable speed control, improved efficiency the Mighty Breeze range are the best choice for any situation.</p> <p><b>MADE IN THE UK</b></p>

Product Image	Product Specs	Product USP	Product Description
<b>MB30</b> 	<b>Height</b> 625mm <b>Width</b> 550mm <b>Depth</b> 225mm <b>Weight</b> 10kg	<ul style="list-style-type: none"> <li>110v or 230v</li> <li>Powerful sickle bladed motor</li> <li>Quiet operation</li> <li>Tough ABS body</li> <li>Variable speed controller</li> <li>Improved efficiency</li> <li>Max speed and variable speed settings</li> </ul>	<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>
<b>MB50</b> 	<b>Height</b> 830mm <b>Width</b> 800mm <b>Depth</b> 280mm <b>Weight</b> 18kg	<ul style="list-style-type: none"> <li>Europe's <b>no.1</b> man cooler</li> <li>110v or 230v</li> <li>Powerful sickle bladed motor</li> <li>Quiet operation</li> <li>Tough ABS body</li> <li>Variable speed controller</li> <li>Improved efficiency</li> <li>Max speed and variable speed settings</li> </ul>	<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>



Ideal for all warehouse applications



Variable speed and powerful air delivery









MB50 and MB30 fans

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Product Applications	Target Customers	Range USP
<p>Ideal for removing fumes from:</p> <ul style="list-style-type: none"> <li>• Welding bays</li> <li>• Warehouses</li> <li>• Tunnels</li> <li>• Basements</li> <li>• Chemical laboratories</li> <li>• Suitable for most Commercial and Industrial applications</li> <li>• Anywhere where fumes are a problem</li> </ul>	<ul style="list-style-type: none"> <li>• Powder Coaters</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Chemical Companies</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<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 14,400m<sup>3</sup>/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
<b>VF250</b> 	<ul style="list-style-type: none"> <li>• Diameter 250mm</li> <li>• Supply 110v/16A or 240v/13A</li> <li>• Running Current 110v 3.4 amps / 230v 0.8 amps</li> <li>• Airflow 2580m<sup>3</sup>/hr</li> <li>• Static Pressure 294pa</li> <li>• Weight 12kG</li> <li>• Dimensions 35cm x 27cm x 29cm</li> </ul>	 250mm diameter 10 metre lengths
<b>VF300</b> 	<ul style="list-style-type: none"> <li>• Diameter 300mm</li> <li>• Supply 110v/16A or 240v/13A</li> <li>• Running Current 110v 4 amps / 230v 1.2 amps</li> <li>• Airflow 3600m<sup>3</sup>/hr</li> <li>• Static Pressure 343pa</li> <li>• Weight 14kG</li> <li>• Dimensions 44cm x 37cm x 40cm</li> </ul>	 300mm diameter 10 metre lengths
<b>VF600 / MB2000</b> 	<ul style="list-style-type: none"> <li>• Diameter 600mm</li> <li>• Supply 110v/32A or 240v/13A</li> <li>• Running Current 110v 13.4 amps / 230v 5.8 amps</li> <li>• Airflow 14400m<sup>3</sup>/hr</li> <li>• Static Pressure 480pa</li> <li>• Weight 61kG</li> <li>• Dimensions 87cm x 77cm x 55cm</li> </ul>	 600mm diameter 10 metre lengths



Ideal for extraction & fresh air supply



Powerful pressurised air delivery



Duct up to 20 metres with each fan

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# **Mighty Heat - Fire Flo Industrial Electric Space Heaters**



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

		
<b>Light Industrial/Commercial Series</b> - Designed to offer the most cost effective 3ph heating solutions available. Ideal for small industrial units and a whole host of applications.	<b>Industrial Series</b> - 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	<b>Super Industrial Series</b> - 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 - 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 m<sup>3</sup> 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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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>Suitable for most Industrial and Commercial Applications</li> <li>Dockyards and ship building</li> <li>Power stations</li> <li>Factories &amp; Warehouses</li> <li>Mining</li> <li>Construction</li> <li>Forges</li> <li>Processing plants</li> <li>Events &amp; Marquees</li> <li>Schools</li> <li>Military Installations</li> <li>Exhibition halls</li> <li>Hospitals</li> <li>Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>Hire Companies</li> <li>Builders</li> <li>Construction Firms</li> <li>Procurement Managers</li> <li>Facility Management</li> <li>Wholesalers &amp; Resellers</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>



Product Image	Product Specs	Product USP
<b>FF3</b>  <b>3kW Output</b>	<b>Approx Airflow Rate</b> 423m³/hr <b>Fan Type</b> Radial <b>Sensible Heat Capacity</b> 10,236 BTU (3kW equivalent) <b>Max Heat Capacity (kcal)</b> 2625 <b>Supply</b> 110v or 230v 50hz <b>Plug Size</b> 32A (110v) 13A(230v) <b>Sound (3m)</b> 45dB(A) <b>Spigot</b> 200mm <b>Mobility</b> Portable <b>Remote Thermostat</b> Optional <b>Dimensions HxWxD (mm)</b> 360x300x330 <b>Weight</b> 10kG <b>Overtemp protection</b> Yes <b>Max Ducting</b> 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.
<b>FF13</b>  <b>9kW Output</b>	<b>Heat Capacity</b> 30,708 BTU <b>Ampage</b> 12.2A <b>Approx Airflow Rate</b> 830m³/hr <b>Fan Type</b> FC Impellor <b>Supply</b> 3 phase 400v 50hz <b>Plug Size</b> 16A <b>Sound (3m)</b> 69dB(A) <b>Spigot</b> 250mm <b>Mobility</b> Portable <b>Remote Thermostat</b> Optional <b>Dimensions HxWxD (mm)</b> 380x300x450 <b>Weight</b> 15.4kG <b>Overtemp protection</b> Yes <b>Max Ducting</b> Single 250mm spigot – 7.5m, Twin 150mm spigot – 5m per outlet	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 7.5M of ducting or to two separate area's. A clean, odourless and fume free alternative to gas and diesel heaters.

### Available accessories for the Mighty Heat FF3 and FF13 heaters

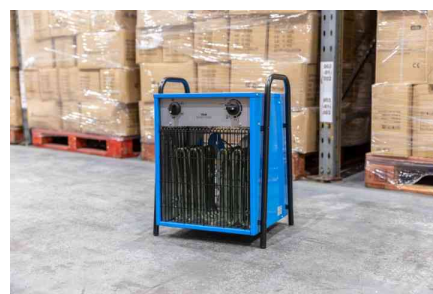
 <b>Flexible duct for FF3 (2m max)</b>	 <b>FF13 250mm single spigot (10m max)</b>	 <b>FF13 150mm twin spigot (7.5m max per outlet)</b>	 <b>Hard wired remote thermostat</b>
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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial Applications</li> <li>• Dockyards and ship building</li> <li>• Power stations</li> <li>• Factories &amp; Warehouses</li> <li>• Mining</li> <li>• Construction</li> <li>• Processing plants</li> <li>• Events &amp; Marquees</li> <li>• Exhibition halls</li> <li>• Hospitals</li> <li>• Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul>



Mighty Heat Industrial Heaters – ideal for a host of industrial applications




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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Offices</li> <li>• Warehouses</li> <li>• Schools and Halls</li> <li>• Factories</li> <li>• Temporary Building</li> <li>• Building Sites</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<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>

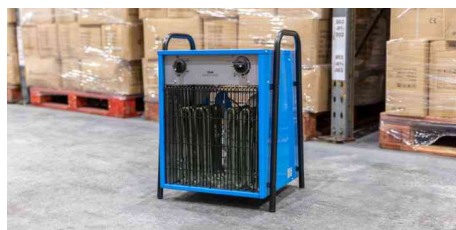
Product Image	Product Specs	Product USP
<p>RG308 240v 3kW 13 amp</p>  <p>3kW Output</p>	<p>Nominal Heat Output (kW) 3kW Heat settings Half/Full Filaments 2 x Quartz Halogen Supply 240v 50hz Plug Size 13A Mobility Portable Dimensions (Body) HxWxD (mm) 917x421x171 (420mm depth with wheels) Weight 14kG</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</p>  <p>1.6kW Output</p>	<p>Nominal Heat Output (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.</p>
<p>RG308 110v 3kW 32 amp</p>  <p>3kW Output</p>	<p>Nominal Heat Output (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>

			
Easy to use controls and fully portable	Ideal for a host of industrial applications		Immediate direct heat

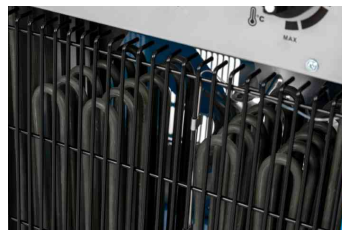
<p>Customer Order Line 01527 830610 Technical Advice 01527 395635 E: sales@broughtoneap.co.uk F: 01527 527558</p>	<p>Accounts Rookery Works, Newchapel Rd Kidsgrove, Stoke on Trent Staffordshire, ST7 4SF 01782 777559</p>	<p>Sales &amp; Manufacturing Units 24-25, Crossgate Road Park Farm Industrial Estate Redditch, B98 7SN 01527 830610</p>
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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial Applications</li> <li>• Dockyards and ship building</li> <li>• Factories &amp; Forges</li> <li>• Mining</li> <li>• Construction</li> <li>• Forges</li> <li>• Processing plants</li> <li>• Events &amp; Marquees</li> <li>• Schools &amp; Exhibition Halls</li> <li>• Warehouses</li> <li>• Hospitals</li> <li>• Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Wholesalers &amp; Resellers</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Customers who require heat on a budget</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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 &amp; variable heat outputs, including fan only for summer ventilation.</li> </ul>

Product Image	Product Specs
<p><b>IFH2</b></p>  <p>Supplied with a 16A 110v mains lead as standard</p> <p><b>1.5kW Output</b></p>	<p>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</p> <p>Power 1.5kW Supply 16A 110v 50hz Settings Fan Only/1.5kW IP Rating IPX4 Heater Dimensions 260x240x350mm Weight 4.2kg Thermostat Fitted As Standard Overtemp protection Yes Plug Type 16A 110v 3 pin mains cable</p>
<p><b>IFH9</b></p>  <p>Supplied with a 5 pin 16A 400v mains lead as standard</p> <p><b>9kW Output</b></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 mains cable</p>
<p><b>IFH15</b></p>  <p>Supplied with a 5 pin 32A 400v mains lead as standard</p> <p><b>15kW Output</b></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 mains cable</p>



Ideal for warehouse applications



Powerful heat delivery



Easy to use controls and manual temp protection


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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial Applications</li> <li>• Dockyards and ship building</li> <li>• Power stations</li> <li>• Factories &amp; Warehouses</li> <li>• Mining</li> <li>• Construction</li> <li>• Forges</li> <li>• Processing plants</li> <li>• Events &amp; Marquees</li> <li>• Schools</li> <li>• Military Installations</li> <li>• Exhibition halls</li> <li>• Hospitals</li> <li>• Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers</li> <li>• &amp; Resellers</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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 &amp; variable heat outputs, including fan only for summer ventilation.</li> </ul>

Product Image	Product Specs	Product USP
<p><b>IFH30</b></p>  <p><b>30kW Output</b></p>	<ul style="list-style-type: none"> <li>• <b>Approx Airflow Rate</b> 4080m³/hr</li> <li>• <b>Fan Type</b> Axial</li> <li>• <b>Heat Output Fan</b> Only/20000w/30000w</li> <li>• <b>Current</b> 43A Nominal</li> <li>• <b>Supply</b> 63A 415v 3PH+N+E</li> <li>• <b>Plug Type</b> 63A Appliance Inlet (mains cable available separately)</li> <li>• <b>Mobility</b> Portable</li> <li>• <b>Dimensions (HxWxD (mm))</b> 614x433x709mm</li> <li>• <b>Weight</b> 31kg</li> <li>• <b>Overtemp protection</b> Yes</li> <li>• <b>Heating Area</b> 240m³/hr</li> </ul>	<p>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.</p> <p>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.</p> <p>The IFH30 also features built in thermal protection and is supplied with two year warranty.</p>


 <p>Fan Only/20kW/30kW Settings</p>	 <p>Ideal for warehouse applications</p>	 <p>High volume airflow</p>
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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial Applications</li> <li>• Dockyards and ship building</li> <li>• Power stations</li> <li>• Factories &amp; Warehouses</li> <li>• Mining</li> <li>• Construction</li> <li>• Forges</li> <li>• Processing plants</li> <li>• Events &amp; Marquees</li> <li>• Schools</li> <li>• Military Installations</li> <li>• Exhibition halls</li> <li>• Hospitals</li> <li>• Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers</li> <li>• &amp; Resellers</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul>

Product Image	Product Specs	Product USP
<p><b>FFHT32</b></p>  <p><b>High Temp Output</b></p>	<p><b>Approx Airflow Rate</b> 1,533.6m³/hr  <b>Fan Type</b> Axial <b>Heat Output</b> Fan Only/12000w/18000w <b>Max Delta T</b> 75c <b>Current</b> 28A <b>Supply</b> 32A 415v 3PH+N+E <b>Plug Size</b> 32A <b>Spigot</b> 300mm <b>Mobility</b> Portable <b>Remote Thermostat</b> Included <b>Dimensions</b> (inc spigots and castors HxWxD (mm) 520x350x902mm <b>Weight</b> 30kg <b>Overtemp protection</b> Yes <b>Max Ducting</b> 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> <p><b>MADE IN THE UK</b></p>



10m x 300mm diameter insulated duct available



Remote thermostat supplied as standard





Remote thermostat allows for flexible operation

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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial Applications</li> <li>• Dockyards and ship building</li> <li>• Power stations</li> <li>• Factories &amp; Warehouses</li> <li>• Mining</li> <li>• Construction</li> <li>• Forges</li> <li>• Processing plants</li> <li>• Events &amp; Marquees</li> <li>• Schools</li> <li>• Military Installations</li> <li>• Exhibition halls</li> <li>• Hospitals</li> <li>• Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> </ul>	<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><b>FFVH32</b></p>  <p><b>360° Heat Coverage</b></p>	<ul style="list-style-type: none"> <li>• 2,300 M<sup>3</sup>/hr airflow</li> <li>• 18kW of heat</li> <li>• Fan Only/12kW/18kW settings</li> <li>• Current 28A</li> <li>• 3ph+N+E 32A appliance inlet</li> <li>• 50°C DeltaT</li> <li>• Fan Type Forward curved impeller</li> <li>• 300mm Ducting Adaptor</li> <li>• Dimensions (inc diffuser) HxWxD (mm) 2107 x 603 x 393mm</li> <li>• Dimensions (without diffuser) HxWxD (mm) 1347mm x 603 x 393mm</li> <li>• Weight 58kg</li> <li>• Full Overtemp protection</li> </ul>	<ul style="list-style-type: none"> <li>• Inflatable, lightweight, flame retardant distributor gives 360° heating</li> <li>• Recessed control panel with lockable cover for tamper proof controls</li> <li>• Inline filter fitted as standard</li> <li>• Fully portable with locking castors</li> <li>• Comes with both a <b>machine mounted</b> and <b>remote thermostat</b> as standard</li> </ul>  <p><b>MADE IN THE UK</b></p>

 <p>Flame retardant adjustable air distributor gives 360° heating</p>	 <p>3ph + N + E 32A appliance &amp; remote thermostat inlet</p>	 <p>Air intake filter as standard</p>	 <p>The Ideal solution for all warehouse and workshop applications</p>
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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>Suitable for most Industrial and Commercial Applications</li> <li>Dockyards and ship building</li> <li>Power stations</li> <li>Factories</li> <li>Construction</li> <li>Forges &amp; Mining</li> <li>Processing plants</li> <li>Military Installations</li> <li>Warehouses</li> <li>Marquees &amp; Events</li> <li>Exhibition halls</li> <li>Hospitals</li> <li>Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>Hire Companies</li> <li>Construction Firms</li> <li>Procurement Managers</li> <li>Facility Management</li> <li>Wholesalers &amp; Resellers</li> <li>Large Industrial Units</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>

Product Image	Product Specs	Product USP
<p><b>FF42</b></p>  <p><b>42kW Nominal Output</b></p>	<ul style="list-style-type: none"> <li>Airflow Rate 3956m³/hr</li> <li>Nominal Output 42kW</li> <li>Supply 400v 50hz</li> <li>Plug Size 63A</li> <li>Spigot 500mm</li> <li>Mobility Portable</li> <li>Thermostat Standard</li> <li>Remote Thermostat Standard</li> <li>Max Ducting 20m</li> <li>Dimensions HxWxD (mm) 921x571x1322</li> <li>Weight 111kg</li> <li>Overtemp protection Yes</li> <li>Phase protection Yes</li> <li>24v Control Circuit</li> <li>Phase Rotation Relay and Warning Yes</li> <li>Manual Reset Overheat Fail Safe</li> </ul>	<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.</p> <p>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.</p> <p>We've also added the same manual overheat reset system used on the FFHT32 and FFVH32 which shuts the unit down if necessary.</p> <p>The FF42 is fitted with a powerful forward curved impeller that can deliver heat along 20m of ducting.</p>



Easy to use controls with built in safety features as standard



Ductable to 20m in conjunction with a 500mm aluminium duct



Forklift skids and lifting eyelets



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Product Applications	Target Customers	Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial Applications</li> <li>• Dockyards and ship building</li> <li>• Power stations</li> <li>• Factories</li> <li>• Construction</li> <li>• Forges &amp; Mining</li> <li>• Processing plants</li> <li>• Military Installations</li> <li>• Warehouses</li> <li>• Marquees &amp; Events</li> <li>• Exhibition halls</li> <li>• Hospitals</li> <li>• Temporary Buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> <li>• Large Industrial Units</li> </ul>	<ul style="list-style-type: none"> <li>• The latest additions to our Mighty Heat FireFlo range are the FF80 and FF120. These high performance heaters deliver up to 120kW of clean, safe heat at up to 9000 M3/Hr and can be ducted 100M</li> <li>• Designed and built right here in the UK these category leading heaters are made to withstand the rigours associated with heavy industrial use and hire fleet applications. With powerful backward curved impellers and all steel chassis these units can supply massive quantities of fume free, dry warm air either along huge lengths of ducting, allowing them to be sited remotely, or as free-standing units in big open area's such as hangars</li> <li>• A user friendly touch screen interface gives full electronic control and allows the user to easily adjust airflow, maintain either delta T or adjust room temperature to suit the specific requirements of the application. They can also be switched between chassis mounted and remote thermostat, which comes included as standard. The onboard computer will also log incorrect shutdown procedures and highlight this to users, a useful feature for hire fleet operators</li> <li>• As with all the Mighty Heat FireFlo range both of these units feature multiple safety devices such as bimetallic thermal cut-outs to regulate the elements, an over heat reset that cuts power to the elements altogether if necessary, and a run on mechanism to dissipate heat after shut down. Housed in a heavy duty welded steel frame and panel assembly with 600MM spigots, both the FF80 and FF120 are fully manoeuvrable on locking castors with forklift pockets and lifting eyes for chains</li> </ul>

Product Image	Product Specs	Product USP
	<p><b>FF80</b></p> <ul style="list-style-type: none"> <li>• Max Heat Output 80kW</li> <li>• Max Airflow Rate 6000m³/hr</li> <li>• Max Pressure 600pa</li> <li>• Control Programmable onboard computer</li> <li>• Supply 125A 415v 3PH+N+E Plug</li> <li>• Mobility Castors/Forklift/Crane</li> <li>• Dimensions (HxWxD (mm)) 1700x803x1265mm</li> <li>• Weight 245kg</li> <li>• Overtemp protection Yes</li> </ul> <p><b>FF120</b></p> <ul style="list-style-type: none"> <li>• Max Heat Output 120kW</li> <li>• Max Airflow Rate 9000m³/hr</li> <li>• Max Pressure 600pa</li> <li>• Control Programmable onboard computer</li> <li>• Supply 200A 415v 3PH+N+E Hard Wire</li> <li>• Mobility Castors/Forklift/Crane</li> <li>• Dimensions (HxWxD (mm)) 2041x800x1269mm</li> <li>• Weight 320kg</li> <li>• Overtemp protection Yes</li> </ul>	<ul style="list-style-type: none"> <li>• 600mm inlet and outlet spigots.</li> <li>• Over temperature and Relay failure protection.</li> <li>• Powerful EC backward curved fan motor delivering up to 6000m³/h.</li> <li>• Remote thermostat.</li> <li>• Phase failure protection with automatic phase sequence correction.</li> <li>• Intuitive touch screen PLC control system including automatic and manual operation modes.</li> <li>• Clear fault detection system with on-screen warnings and diagnostics.</li> <li>• Fully controllable temperature and airflow.</li> <li>• Sturdy 160mm castors with brakes.</li> <li>• Fully welded frame.</li> <li>• Customer logo can be incorporated into the touch screen during start-up.</li> </ul>




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Product features	WB Programmable Electric Boiler
<ul style="list-style-type: none"> <li>• Easy to use touch screen</li> <li>• Fully programmable</li> <li>• Full modulating operation</li> <li>• High quality pump</li> <li>• Frost protection</li> <li>• Overheat protection</li> <li>• Automatic pressure relief valve</li> <li>• Low &amp; Over pressure protection</li> <li>• 99% efficiency</li> <li>• 22kW to 36kW versions available</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul>

Product Image	Product Specifications	Product USP
 <p>Fully programmable digital controller</p> <p><b>22kW Output</b></p> <p><b>MADE IN THE UK</b></p>	<ul style="list-style-type: none"> <li>• Flow Rate 2.7 - 3.5m³/hr</li> <li>• Supply 400v 50hz</li> <li>• Water Temperature Range 20°C to 80°C</li> <li>• Fully Portable</li> <li>• Power 22kW</li> <li>• Plug Size 32A</li> <li>• Dimensions HxWxD (mm) 1100x650x470</li> <li>• 10 litre expansion tank included as standard.</li> <li>• Touch screen controller with floor drying program capability.</li> <li>• Over-temperature and over-pressure protection.</li> <li>• Relay failure protection</li> </ul>	<ul style="list-style-type: none"> <li>• The Broughton WB22 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.</li> <li>• 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 WB 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.</li> <li>• 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.</li> <li>• Not only can the WB 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.</li> </ul>

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# **Mighty Heat - Fire Flo Industrial Electric Space Heaters**

Product Applications	Target Customers	Mighty Dry Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial applications</li> <li>• During <b>construction</b> and finishing on <b>building sites</b></li> <li>• After <b>fire or flood</b> damage</li> <li>• During the <b>storage</b> of sensitive materials and products such as documents and ingredients</li> <li>• In <b>data centres</b> or <b>Equipment rooms</b> where electrical switching equipment might be affected by moisture</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> <li>• Fire &amp; Flood Restoration</li> <li>• Storage Companies</li> <li>• DIY Handyman</li> </ul>	<ul style="list-style-type: none"> <li>• The MDe50 and MDe70 build on the legacy of the ever popular CR40 and CR70 units by promising the same 'siteproof' build quality as their predecessors, but with improved performance and consistency with modern environmental expectations.</li> <li>• Unlike many imported models these British built units have been designed specifically with daily site use in mind, so they use 1.2MM steel as opposed to the 0.9MM or plastic favoured by mass manufacturers. This extra tough construction coupled with the epoxy powder coat finish ensures</li> <li>• The MDe50 and MDe70 are equipped to deal with the heavy handed handling you might find on construction sites, in hire fleets or the regular transportation of fire &amp; flood damage restoration work.</li> <li>• Utilising the latest in low GWP (Global Warming Potential) refrigerant technology the MDe range delivers unrivalled performance whilst offering environmental responsibility and peace of mind.</li> </ul>



### Did you know?

The MDe range uses R290, a low GWP (Global Warming Potential) refrigerant that's 99% less harmful to the environment than some traditional refrigerants.



### Dehumidification Tips

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Do not obstruct air inlet or outlets</li> <li>• Ensure doors and windows are closed</li> <li>• If possible place the dehumidifier in the centre of the room</li> <li>• If more than one unit is being used space them out evenly throughout the room</li> <li>• Dehumidifiers give maximum results at around 20°C so adding extra heat can aid the dehumidification process and reduce drying times</li> </ul> | <ul style="list-style-type: none"> <li>• ALWAYS USE EXTRA HEAT IF THE TEMPERATURE FALLS BELOW 6°C</li> <li>• 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</li> <li>• 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</li> </ul> |
|---|---|



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Product Applications	Target Customers	Mighty Dry Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial applications</li> <li>• During <b>construction</b> and finishing on <b>building sites</b></li> <li>• After <b>fire or flood</b> damage</li> <li>• During the <b>storage</b> of sensitive materials and products such as documents and ingredients</li> <li>• In <b>data centres</b> or <b>Equipment rooms</b> where electrical switching equipment might be affected by moisture</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> <li>• Fire &amp; Flood Restoration</li> <li>• Storage Companies</li> <li>• DIY Handyman</li> </ul>	<ul style="list-style-type: none"> <li>• The MDe Mighty Dry dehumidifiers build on the legacy of the ever popular CR40 and CR70 units by promising the same 'siteproof' build quality as their predecessors, but with improved performance and consistency with modern environmental expectations.</li> <li>• The MDe50 and MDe70 offer superb extraction and performance and are equipped to deal with the heavy handed handling you might find on construction sites, in hire fleets or the regular transportation of fire &amp; flood damage restoration work.</li> <li>• Utilising the latest in low GWP (Global Warming Potential) refrigerant technology the MDe50 delivers unrivalled performance whilst offering environmental responsibility and peace of mind.</li> </ul>

Product Image	Product USP	Product Overview
<p><b>MDe50</b></p>   <p><b>50L Max Extraction</b></p>	<ul style="list-style-type: none"> <li>• Very large 50L maximum extraction capacity</li> <li>• Environmentally friendly low GWP refrigerant</li> <li>• Intelligent defrost with electronic humidistat and timer</li> <li>• Rugged steel case for impact resistance</li> <li>• Non marking wheels and handles for easy manoeuvring</li> <li>• Available 230v or site friendly 110V</li> <li>• Condensate collection tank</li> <li>• Extraction 50L/d(30c RH80%); 30L/d(27c RH60%)</li> <li>• Airflow 300m³/h</li> <li>• Nominal running current 1.9A (230V) 5.5A (110V)</li> <li>• Low GWP R290 refrigerant</li> <li>• Working temperature 5-36c</li> <li>• Dimensions 480x450x655mm</li> </ul>	<p>The brand new MDe50 dehumidifier delivers a huge maximum extraction of up to 50L per day. Housed in an impact resistant steel case this high performance dehumidifier is designed and built to withstand daily site use and regular transportation. Ideal for use in hire fleets, following fire or flood damage, in storage facilities or any other commercial application.</p> <p>This powerful unit can be used to help with the removal of excess moisture during building work, to reduce the threat of damp, keep condensation under control or dry out premises after a flood. Fitted with an adjustable digital humidistat and timer as standard, the performance can be adjusted to help maintain the best RH level to suit the application.</p> <p>Once removed from the air moisture is drained away into a large 7L tank that will switch off the unit once it's full, or it can be piped directly to a drain for continuous operation.</p> <p>The MDe50 is also compatible with an uplift pump for unmanned operation. Fitted with large non marking wheels and handles, the MDe50 can be easily moved into position by one person. Once finished with the units can be stacked to maximise storage.</p> <p>Utilising the latest in low GWP (Global Warming Potential) refrigerant technology the MDe50 delivers unrivalled performance whilst minimising environmental impact</p>



The MDe50 dehumidifier



Easy to use touch screen controls





7L condensate tank with condensate hose

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Product Applications	Target Customers	Mighty Dry Range USP
<ul style="list-style-type: none"> <li>• Suitable for most Industrial and Commercial applications</li> <li>• During <b>construction</b> and finishing on <b>building sites</b></li> <li>• After <b>fire or flood</b> damage</li> <li>• During the <b>storage</b> of sensitive materials and products such as documents and ingredients</li> <li>• In <b>data centres</b> or <b>Equipment rooms</b> where electrical switching equipment might be affected by moisture</li> </ul>	<ul style="list-style-type: none"> <li>• Hire Companies</li> <li>• Builders</li> <li>• Construction Firms</li> <li>• Procurement Managers</li> <li>• Facility Management</li> <li>• Wholesalers &amp; Resellers</li> <li>• Fire &amp; Flood Restoration</li> <li>• Storage Companies</li> <li>• DIY Handyman</li> </ul>	<ul style="list-style-type: none"> <li>• The MDe Mighty Dry dehumidifiers build on the legacy of the ever popular CR40 and CR70 units by promising the same 'siteproof' build quality as their predecessors, but with improved performance and consistency with modern environmental expectations.</li> <li>• The MDe50 and MDe70 offer superb extraction and performance and are equipped to deal with the heavy handed handling you might find on construction sites, in hire fleets or the regular transportation of fire &amp; flood damage restoration work.</li> <li>• Utilising the latest in low GWP (Global Warming Potential) refrigerant technology the MDe50 delivers unrivalled performance whilst offering environmental responsibility and peace of mind.</li> </ul>

Product Image	Product USP	Product Overview
<p><b>MDe70</b></p>   <p><b>70L Max Extraction</b></p>	<ul style="list-style-type: none"> <li>• Massive 70L maximum extraction capacity</li> <li>• Environmentally friendly R290 low GWP refrigerant</li> <li>• Metal case for impact resistance</li> <li>• Electronic humidistat to maintain RH level</li> <li>• 24hr electronic timer</li> <li>• Condensate pump</li> <li>• Wheels and handle for easy manoeuvrability</li> <li>• Intelligent auto defrost system</li> <li>• Extraction 70L/d(30c RH80%); 40L/d(27c RH60%)</li> <li>• Airflow 400m³/h</li> <li>• Nominal running current 5.1A</li> <li>• Working temperature 5-35c</li> <li>• Dimensions 545x460x870mm</li> </ul>	<p>The all new MDe70 delivers a phenomenal maximum extraction of 70L per day. Designed and built with regular site use, hire and transportation in mind, the MDe70's all steel construction offers good protection from knocks.</p> <p>Perfectly at home on the building site, drying a home out following flood damage or helping keep sensitive items safe in storage, this powerful dehumidifier is perfectly suited to just about any moisture control application. The digital humidistat is fitted as standard and allows the user to tailor performance to their application, while a 24hr timer enables the unit to switch on or off automatically thereby saving power.</p> <p>As with the MDe50, the MDe70 features large, non marking wheels and handles so the units can be easily moved into position for maximum effectiveness. Once finished with they can also be stacked for storage purposes.</p> <p>Unlike it's smaller brothers, the MDe70 comes fitted with a condensate pump as standard. This allows the powerful unit to be left running without the need to regularly check how full the tank is, this combined with the intelligent defrost system means you can really maximise the huge extraction capacity.</p> <p>As with the other Mighty Dry dehumidifiers, the MDe70 uses the very latest in environmentally friendly low GWP refrigerant technology.</p>



The MDe70 dehumidifier



Easy to use carry handles and touchscreen control



Easy to clean filter and condensate pump fitted as standard

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# BROUGHTON

ELECTRO AIR PRODUCTS LTD

Contact Details



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**01527 830610**

**WE ARE SPECIALISTS**

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

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UK Manufacturers of  
Portable HVAC Equipment

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