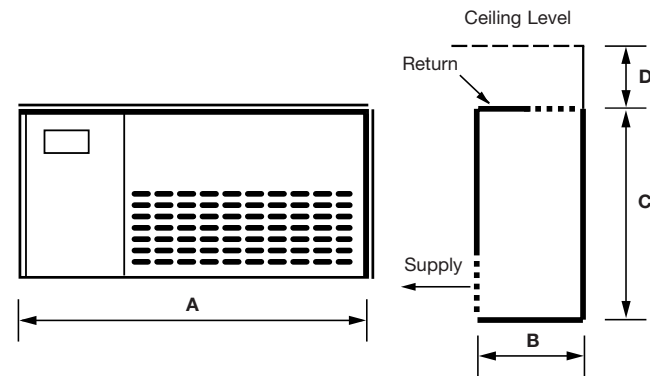


Technical Data

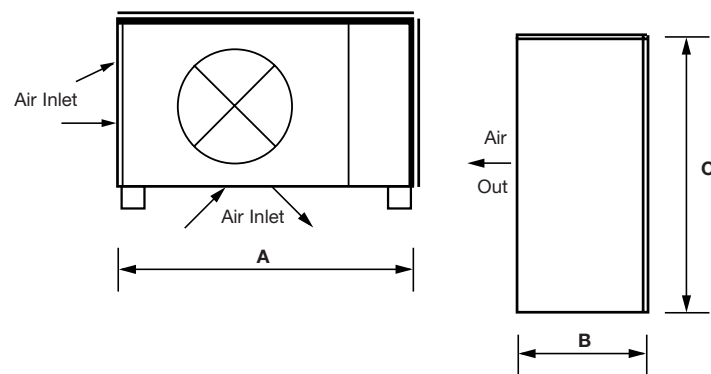
Dimensions

Air Handling Unit ('M')



| Model | Weight | | A | | B | | C | | D | |
|-------|--------|--|------|--|-----|--|-----|--|-----|--|
| | Kg | | Mm | | Mm | | Mm | | Mm | |
| M02 | 55 | | 1230 | | 295 | | 570 | | 300 | |
| M04 | 57 | | 1230 | | 295 | | 570 | | 300 | |
| M06 | 59 | | 1230 | | 295 | | 570 | | 300 | |
| M08 | 68 | | 1230 | | 295 | | 570 | | 300 | |

Condensing Unit ('C')



| Model | Weight | | A | | B | | C | |
|-------|--------|--|------|--|-----|--|-----|--|
| | Kg | | Mm | | Mm | | Mm | |
| C02 | 38 | | 764 | | 230 | | 492 | |
| C04 | 63 | | 820 | | 280 | | 590 | |
| C06 | 70 | | 850 | | 287 | | 696 | |
| C08 | 109 | | 1060 | | 345 | | 900 | |

Specification

Air Handling Unit

Cabinet

Steelwork 16g Zintec
Paint Semi Gloss powder Coated Light Grey
Mounting Wall Mounted

Evaporating Coil

Type fin and Tube
Tubes 3/8" Seamless Copper
Fins Aluminium Mechanically bonded plate type

Fan Selection

Fan Type Twin Direct Drive
Impeller Mutiblade Aluminium alloy
Motor Permanent split capacitor type

Humidifier

Steam electrode type
 Cleanable
 Eco friendly
 Variable output
 Variable flush cycle

Quality Assurance

The Mini Compact units are manufactured at a modern factory in Andover, Hampshire. The use of sophisticated equipment and automated tools enables a very high standard of manufacture to be maintained.

The units pass through a comprehensive test procedure during manufacture and on completion. Every unit is carefully packed before leaving the factory.

A stock of units can be made available for immediate delivery if required.



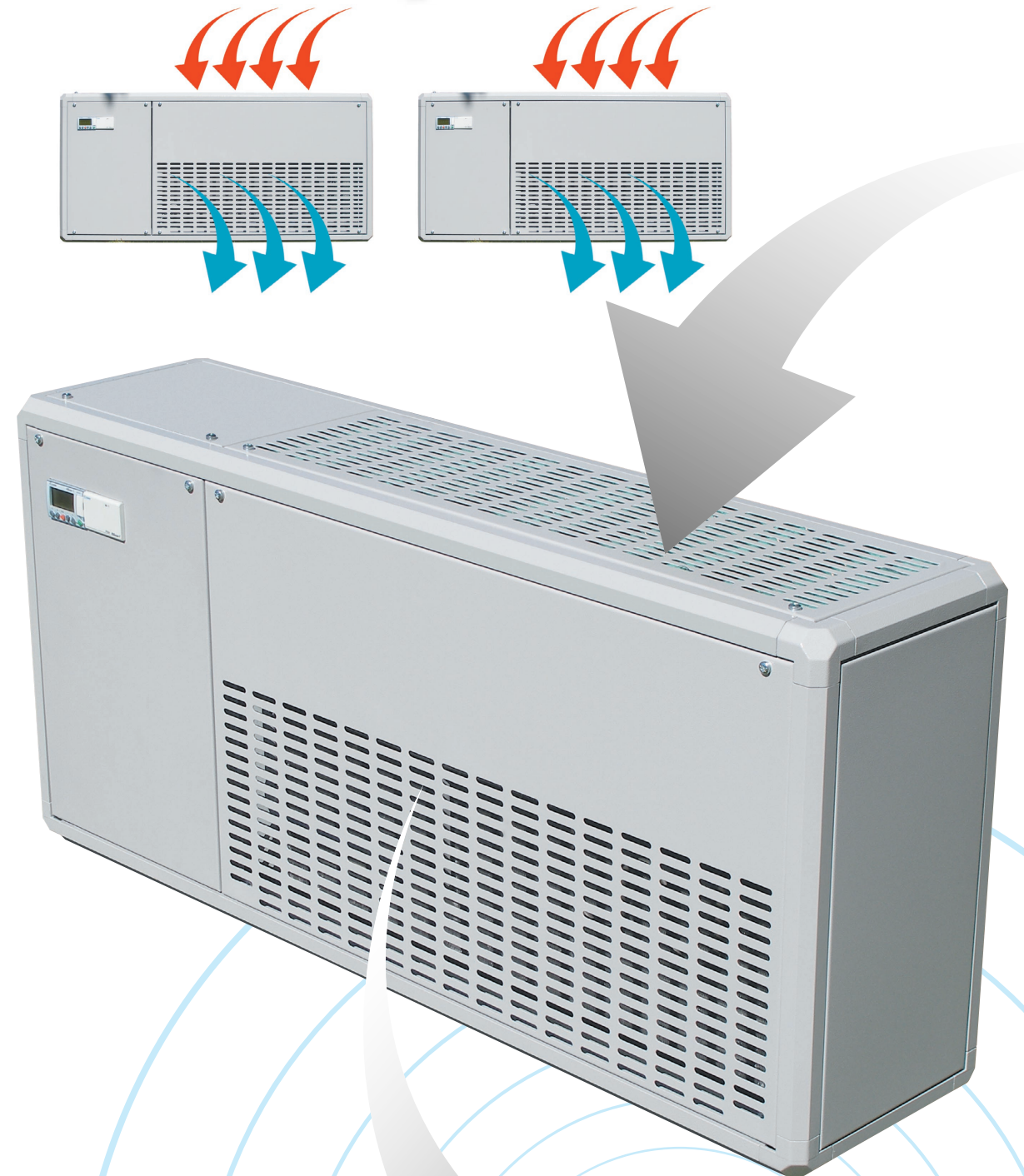
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*Please Note: Any of the above details can change without prior notice.

mini compact versatile



mini compact versatile

Mini Compact Range

- **Low Running Costs**
- **Simple Installation and maintenance**
- **Separate humidity control**
- **Eco-friendly cleanable steam cylinder**

The Mini Compact systems have been designed and developed to provide the correct environment for mini computers/servers and their operators. It is equally suited for offices with densely packed electronic equipment. The functions necessary to maintain stable environmental conditions include heating, cooling, humidification, filtration and air circulation within the room.

In addition to these, the system introduces fresh air for occupants and pressurises the room, preventing dust and untreated air from entering the environment through doors and windows.

When computers/servers operate in uncontrolled conditions, malfunctions will occur in the equipment. Overheating will lead to computer/server failure. As specialists in providing specific room environments, we know that many computers operate 24 hours per day. Therefore, only the highest quality components are incorporated within our equipment, designed and built to a specification ensuring the integrity of the room environment.

Low Running Costs

The Mini Compact air-cooled units, at high speed operate with an SHR of 0.93, eliminating unnecessary moisture removal and reducing humidifier operation with a resultant **saving in power consumption**.

Simple Installation and Maintenance

The Mini Compact systems have been designed with ease of maintenance and minimal installation time firmly in mind. The flexibility of the systems offered provides the user with a choice of equipment selections and cooling duty requirements.

Humidity Control

This is a concept of adding a dedicated humidifier within the unit and has the facility to add a proportion of fresh air. This offers the user the benefits of wet bulb control. The compact and slim equipment installed at high level releases valuable floor space and provides good air distribution to offset the heat output from the computer/servers.



LCD display - front discharge grill



Compact design

Cost Effective

There are many advantages of having multiple separate units with heating/ cooling and fresh air/filtration/ humidification. This not only allows the correct room conditions to be maintained, but when the computers system is upgraded, the air conditioning system can be upgraded at minimal costs.



Microprocessor Controller

MC2, MC4, MC6 & MC8 Air Cooled Systems

Air Handling Unit

Attractive Cabinet

The air handling unit cabinets are attractively styled and colours are selected to compliment most office arrangements. The covers have securing fasteners, for speed of access during installation and for ease of maintenance. Wall fixing is easily achieved by twin rail brackets, and discharge grille is so positioned that the air direction is optimised. The air intake grille retains a disposable prefilter, which is easily removed.

Evaporator Coil

The coil is fitted with a thermostatic expansion valve, which allows the evaporating temperature to be controlled in a wide range of external ambient temperatures.

Drip Tray

A single piece corrosion free fabricated drip tray is incorporated into the air-handling unit for long life. An external condensate pump will be required for sites where gravity drain is unavailable.

Single/Multiple Piece Heaters

A single or multiple piece heater is fitted providing economical and adequate heat output. As safety is always of prime importance the heater/s is fitted with an over heat cut-out switch.

Direct Drive Twin Fan

A twin direct drive fan has been selected to provide an even airflow and cooling distribution across the entire coil. The impeller is balanced and is driven through a bush fitted to the motor shaft ensuring a smooth running and vibration free unit.

Controls

Operation of the Mini Compact is extremely simple, the control being an ON/OFF switch illuminated. The micro controller can be adjusted from the LCD display.

Condensing Unit

The condensing unit is housed in a weatherproof casing constructed from a durable finish, with associated controls.

Head Pressure Control via a Pressure Operated fan speed controller. Head pressure control ensures efficient year round operation of the compressor. The head pressure of the units is controlled by cycling the condenser fans. The fan impeller is constructed of corrosion free plastic.

Fully Hermetic/Scroll Compressor

A fully hermetic/scroll compressor is employed ensuring reliability and quiet operation. It is mounted on rubber anti-vibration blocks and is sited outside of the condenser air stream where it is readily accessible for maintenance. The compressor is fitted with high pressure, low pressure and thermal cut outs, switches.

Humidifier

This humidifier is a steam cylinder with a break seal for ease of cleaning. This bottle has easy to separate electrodes for changeability and eco friendly disposal. The electronic controller adjusts the quantity of humidity and the flush cycle for hard water areas.

Pre-Filter

The filtration efficiency is 80% to EU4.

Temperature & Humidity Sensor

The temperature and humidifier sensor is calibrated to control relative humidity and temperature at the desired level in room. No site wiring is necessary.

| SYSTEM DESIGNATION | UNIT MODELS | AIR HANDLING UNIT AIR VOLUME | AIR ON EVAPORATOR | COOLING CAPACITY AMBIENT | | HEATING CAPACITY | AIR HANDLING UNIT FAN MOTOR | CONDENSING UNIT AIR VOLUME | CONDENSING UNIT FAN MOTORS | COMPRESSOR POWER (NORMAL) | COOLING (1ph) | COOLING (3ph) | HEATING (1ph) | 220/240V 1 Phase 50Hz | 380/415V 3 Phase 50Hz | HUMIDIFIER |
|--------------------|-------------|------------------------------|-------------------|--------------------------|--------|------------------|-----------------------------|----------------------------|----------------------------|---------------------------|---------------|---------------|---------------|-----------------------|-----------------------|------------|
| | | | | 29.4°C | 32.2°C | | | | | | | | | | | |
| MC 2 | M02 + C02 | m3/sec 0.25 | 22.2°C | 1.99 | 1.83 | 1kw | 2x50w | 0.55m ³ /S | 1x100w | 1.25kw | 6A | / | 4.4A | 16A MCB | / | 0.5kg /hr |
| | | | 23.8°C | 2.51 | 2.2 | | | | | | | | | | | |
| MC 4 | M04 + C04 | m3/sec 0.33 | 22.2°C | 4.22 | 3.96 | 1kw | 2x50w | 0.90m ³ /S | 1x100w | 2.5kw | 10A | / | 4.4A | 20A MCB | / | 1.0kg /hr |
| | | | 23.8°C | 4.39 | 4.12 | | | | | | | | | | | |
| MC 6 | M06 + C06 | m3/sec 0.45 | 22.2°C | 5.86 | 5.50 | 2kw | 2x50w | 1.06m ³ /S | 1x100w | 3.0kw | 14A | 7A | 8.7A | 25A MCB | 20A MCB | 1.5kg /hr |
| | | | 23.8°C | 6.13 | 5.68 | | | | | | | | | | | |
| MC 8 | M08 + C08 | m3/sec 0.53 | 22.2°C | 7.32 | 6.91 | 2kw | 2x 50w | 1.16m ³ /S | 1x100w | 3.75kw | 16A | 9A | 8.7A | 25A MCB | 20A MCB | 2.0kg /hr |
| | | | 23.8°C | 7.67 | 7.15 | | | | | | | | | | | |

NOTES:

- The above duties are based on a maximum pressure drop in the refrigeration suction line 0.21 bar (3psi) and for every extra 0.07 bar (1psi) above this an anticipated duty reduction of the 2% will occur.
- The MC6 system is available for high ambient conditions. Refer to our sales department for further details.
- For comparison with I.S.O recommended duties (inside 27°C DB, 19°C WB outside 35°C) multiply duties at 22.2°C 'air on' and 30°C ambient by 1.10.
- For comfort cooling applications with low noise level requirements multiply the cooling capacity by 0.8.