



AIR
CONDITIONING



AIR CONDITIONING

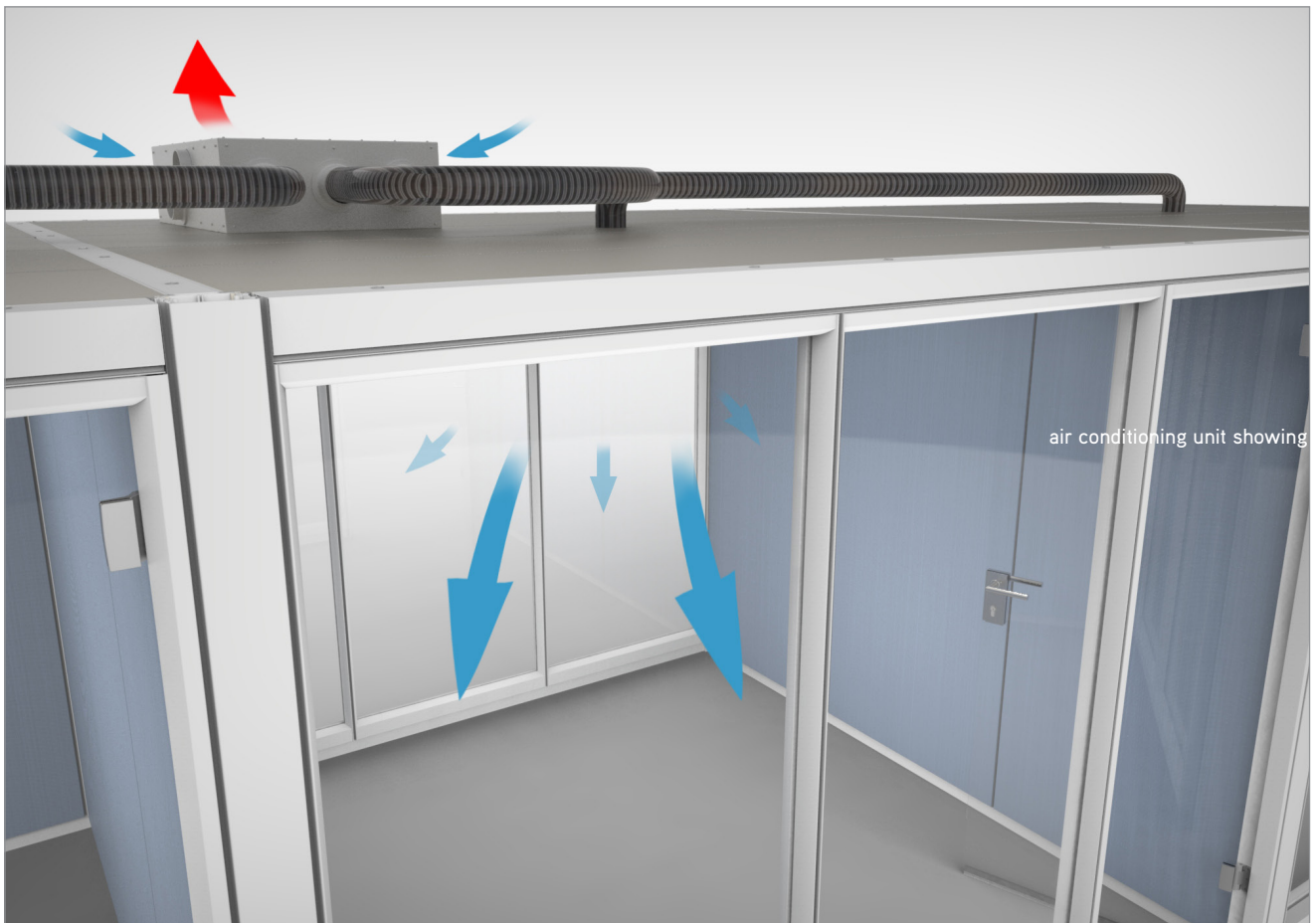


The Qb triple pod with a air conditioning unit fitted.

Cool with the times.

A newly-developed Air Conditioning Unit can be fitted to a pod without the need for an external outdoor unit, giving the freedom to use an air conditioning unit within a building that already has its own fixed conditioning system. With the use of flexible ducting, every corner of the pod can be access giving a cool breeze throughout. Accompanying the AC unit is a user controlled touch pad. allowing access to; Temperature, three speed fan, Humidity and Fresh air intake.





Key Features.

- Self- contained refrigeration system, using recirculated forced air for cooling and atmospheric rejected air.
- Fresh air make up 8 / 12 (l/s) litres per second or 25 cubic feet per minute (cfm). Added to the system internally.
- Compressor type 2kW reciprocating.
- Refrigerant type R134a.
- Power source 230v \pm 10v. Single phase. 50Hz.
- Power fusing protection 13amps.
- Typical power draw at full load 6amps.
- Power input 1.4Kw - Approx. 18 pence per hour subject to local rate
- Min / Max ambient operating range + 15 / + 35°C
- Internal space operating range + 15 / + 25°C
- Condenser and evaporator fans (2 on each cycle), 133mm backward curved EC blowers. AC power to DC infinite control speed.
- Protection devices – High pressure, low pressure, over-current, low voltage, high water level, frost protection, limited starting control & sub-fusing.
- Gross operational weight 70kg.
- Unit dimensions – pre cover l x w x h – 850mm x 850mm x 250mm.
- Dual air delivery ducts with single central air return.
- Remote wireless thermostatic control.
- Washable return air filter – Average every 6 months
- Multi-directional air supply grilles.
- Adjustable air speed internal to pod.
- Projected nominal noise level (internal) at return air grille 45db.
- Projected nominal noise level (external) at air-conditioner 65db



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Specification

The HC2. PANEL unit is a self-contained – plug & play - packaged air-conditioning unit, of a nominal 2kW cooling duty (Heating is not currently available in this model and can be subject to requirements). It is designed for specific use in office POD type applications, for roof mounting on a suitably designed platform. A vertical version could be offered subject to requirements. Other than a 13amp standard UK / European plug in power supply, no other attended services are required.

Condensate water generated from the cooling action, is evaporated to atmosphere by utilising the refrigeration system heat compression cycle. The water (condensate), is contained in the refrigeration compartment of the unit, where water is collected into a stainless steel tray and copper gas pipes immersed in the water thus evaporate it.

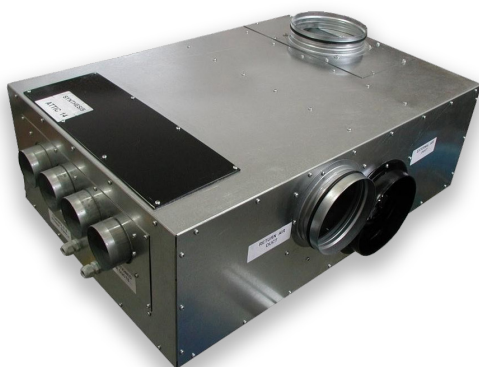
Pod air is passed through the evaporator section, where it is cooled and recycled on a continuous loop from pod to machine and controlled by a thermostatic set-point. Rejected heat is passed through the condenser section of the refrigeration system, where the heat absorbed from the pod is rejected to external atmosphere.



Air Conditioning used in a triple pod



Air Conditioning used in a single pod



Technical Specification

<i>Volts</i>	<i>220-240V / 50 HZ</i>
<i>BTU Cooling</i>	<i>11.000</i>
<i>Amps Cooling</i>	<i>5.0 (220 V)</i>
<i>EER (Cooling)</i>	<i>10.0 BTU/W</i>
<i>Ventilation CFM-HIGH</i>	<i>480</i>
<i>Ventilation CFM-MED</i>	<i>300</i>
<i>Ventilation CFM-LOW</i>	<i>160</i>

Electrical consumption ancillary 'Condensation Free' Kit: 280w