



HC GROEP

HC BARCOL-AIR | AIR DISTRIBUTION

Products:

- VAV and CAV
- Air-Flow measuring devices
- Chilled beams
- Grilles and diffusers
- Fan Coil Units
- Controls

Product development:

- Climate laboratory
- Acoustic reverberation room

Sustainability

- Energy savings
- Light switching through thermostat
- Use of sustainable materials
- CO₂ control
- LEED / BREEAM compatible

HC Barcol-Air is part of HC Groep.

Other companies:

- Holland Conditioning: Chillers
- HC KP: Climate ceilings
- HC TN: Air handling units
- HC PS: Car parking ventilation
- HC RT: Controls
- HC TS: Staircase pressurising systems



YOUR CLIMATE, **OUR CARE**

HC Barcol-Air

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HC Barcol-Air is part of HC Groep

INDUCTION VAV - OUR GREEN COMFORT SOLUTION



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HC BARCOL-AIR | AIR DISTRIBUTION

Induction VAV: sustainable comfort solution

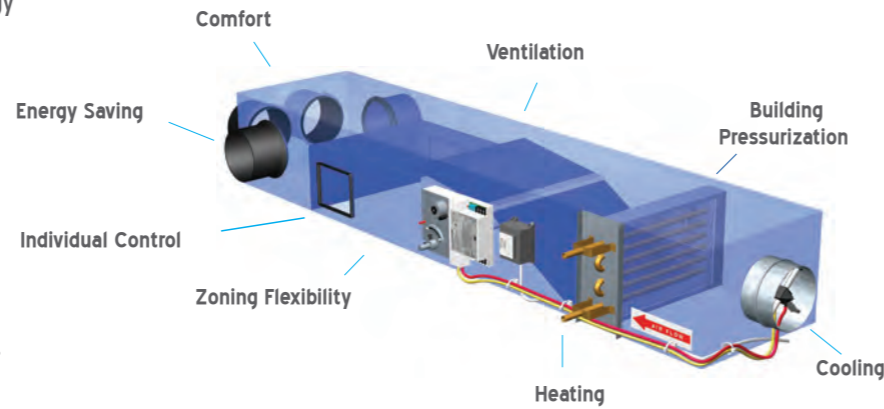
VAV systems have proven in the past to be very energy efficient in providing an optimal indoor climate.

The latest standards and requirements for energy efficiency and human thermal comfort make it more and more challenging to design new HVAC systems that comply to these standards.

Energy could be saved by reducing primary air volume to a minimum during reduced load conditions.

However with conventional VAV systems this could cause "cold air dumping" and lack of air movement in the room, resulting in occupants discomfort and a consequent decrease in productivity.

Induction VAV is the best solution to maintain proper air circulation and comfort levels reducing the primary treated air to a very minimum (20% of maximum). Without the use of an additional fan, room air will be induced and induction VAV guarantees that the required standards for comfort will always be achieved.

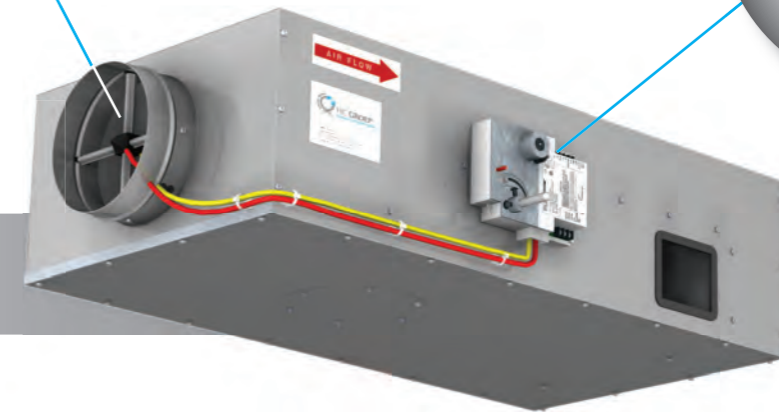


Flo-Cross® air flow sensor

- High accuracy (better than 2.5%)
- 24 test points
- Centre-averaging chamber
- Amplifying wings
- Aluminium construction with PP connections
- Low pressure drop
- One-time diameter, straight duct length required

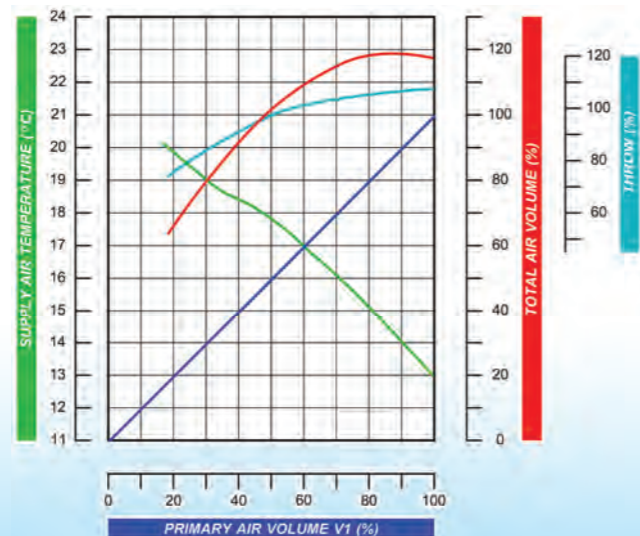
Plug & Play Controls

- Pre-fitted
- Pre-wired
- Pre-calibrated
- Pre-tested



The optimum indoor climate and energy efficient system

- Optimum in comfort
- Energy conscious
- Capacity up to 200 W/m2 without losing comfort
- Cooling, heating and ventilation done by a single VAV terminal
- Pressure independent
- Induction without use of a fan and filter
- No cold air dumping
- Compact in size
- Savings in primary ductwork
- Low noise levels
- Maintenance free
- Standard VAV controller can be used
- High accurate Flo-Cross® air flow sensor



- Factory fitted VAV, DDC and thermostat
- BACnet® or LonMark® controls to match with BMS
- Compatible with any BMS system
- Quality installation
- Factory calibrated and error-free
- Comfort control by single supplier
- Meets the delivery requirements
- VAV and controls as a single package
- Minimize the coordination by contractors
- Saves time and costs



Room thermostat

- Digital display
- Set point adjustment
- Actual temperature measurement
- Programmable override button (optional)
- Built-in CO₂ sensor (optional)
- Built-in humidity sensor (optional)



City Hospital Dubai - UAE Emaar Business Park Down Town Dubai - UAE Financial Harbour Manama - Bahrain Keira Street Wollongong - Australia NAB House Sydney - Australia NUS Singapore Qtel building West Bay Doha - Qatar Tempo Scan Tower Jakarta - Indonesia