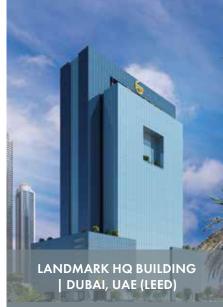
INDUCTION VAV | REFERENCE PROJECTS







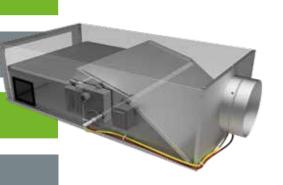




INTEGRATION TO ALL THIRD PARTY BMS

Testing & commissioning support

BIM READY & REVIT FILES AVAILABLE





BARCOL-AIR

Barcol-Air: a HC Groep company

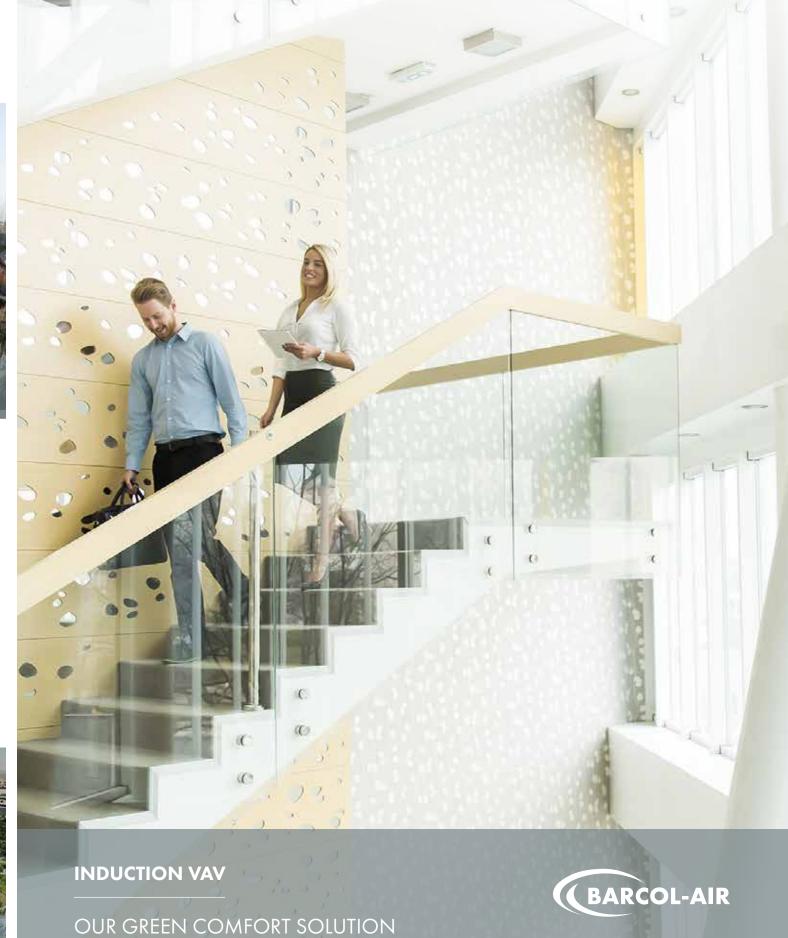
T +31 (0)299 689 300

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INDUCTION VAV SINGLE SOURCE SINGLE RESPONSIBILITY PRINCE MOHAMMED BIN FAHD UNIVERSITY | DHAHRAN, KINGDOM OF SAUDI ARABIA **nduction** VAV is the best solution to maintain proper air circulation and comfort levels, reducing the primary treated air to very minimum (20% of maximum). **arcol-Air** VAV systems have proven 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. 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. Energy could be saved by reducing primary air volumes to a minimum during reduced load conditions. Flo-Cross® air flow sensor Multiple test points (at least 2 x 12 points) equally distributed in the duct area Only 1 diameter installation space required The Flo-Cross® provides a differential pressure output signal proportional to the dynamic pressure • Better than 2,5% accuracy Centre averaged signal Pressure Independent Control

- no need for VCD's

PLUG & PLAY | INTELLIGENT CONTROL SOLUTIONS

<u>INBUILT</u>

- Printed circuit board
- Actuator
- Pressure transducer
- Communication Protocol:





FEATURES

- Fully programmable
- Open communication
- Extra on/board I-O
- Inputs for:
- Occupancy sensor
- Window contact
- Signal from BMS
- Outputs for:
- Heater (stage type, PWM or modulating)
- Lighting signal





ROOM TEMPERATURE SENSOR



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

ENERGY EFFICIENCY

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







b) Primair luchtvolume V1 (%)





