

FOR NEW AND EXISTING INSTALLATIONS!



ADNOC HQ
| ABU-DHABI, UAE



BAHRAIN FINANCIAL HARBOUR
| MANAMA, BAHRAIN



LANDMARK HQ
| DUBAI, UAE

BARCOL-AIR: GREEN BUILDING PROJECTS



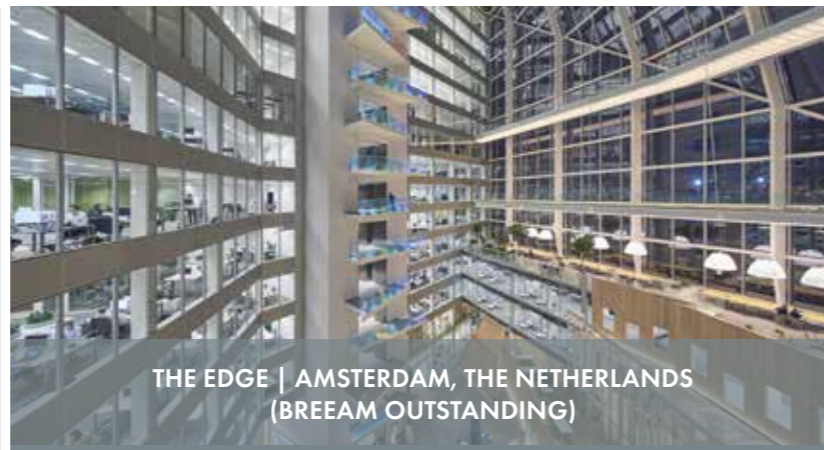
CONTACT US FOR A FREE CONSULT / PROPOSAL:

BARCOL-AIR

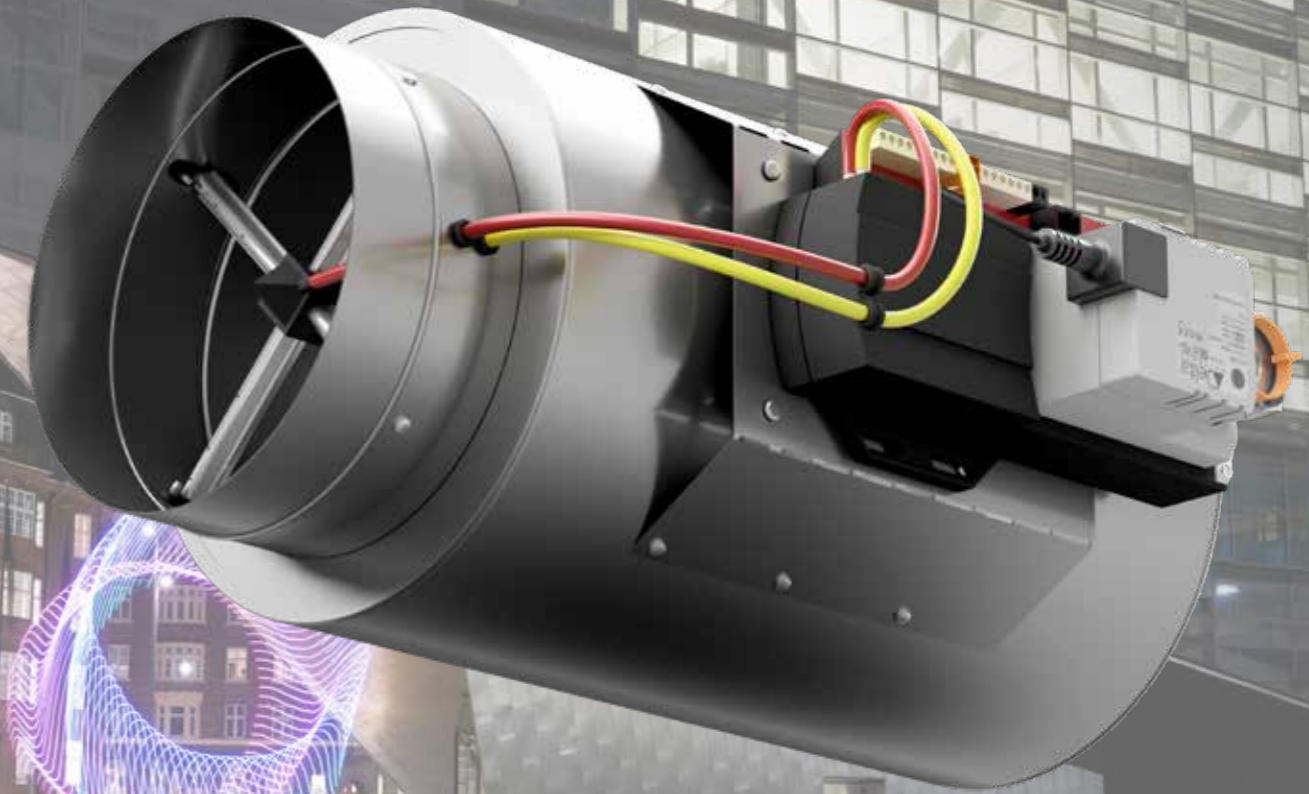
Barcol-Air: a HC Groep company

T +31 (0)299 689 300

E export@barcol-air.nl | www.barcol-air.nl



THE EDGE | AMSTERDAM, THE NETHERLANDS
(BREEAM OUTSTANDING)



AIR SIDE METERING & BILLING

OUR GREEN COMFORT SOLUTION



WWW.BARCOL-AIR.NL

METERING VAV

$$BTU = M \times C_p \times \Delta T$$



Barcol-Air VAV systems have proven to be very energy efficient in providing an optimal indoor climate.

Due to the current demand for energy optimization, Barcol-Air has developed the new M-VAV, suitable for air side metering of the thermal energy transferred to the occupied space.

Same as water side BTU meters, VAV has the accuracy of measurement for accurate BTU metering on the air side. $BTU = M \times C_p \times \Delta T$. Intelligent VAV controllers allow building owners to bill its tenants on the amount of fresh air consumed.

Air side BTU metering will bring a major innovation to the tenant billing and will encourage the occupants to further reduce the energy usage. Barcol-Air is the first in the market to offer this innovative solution.

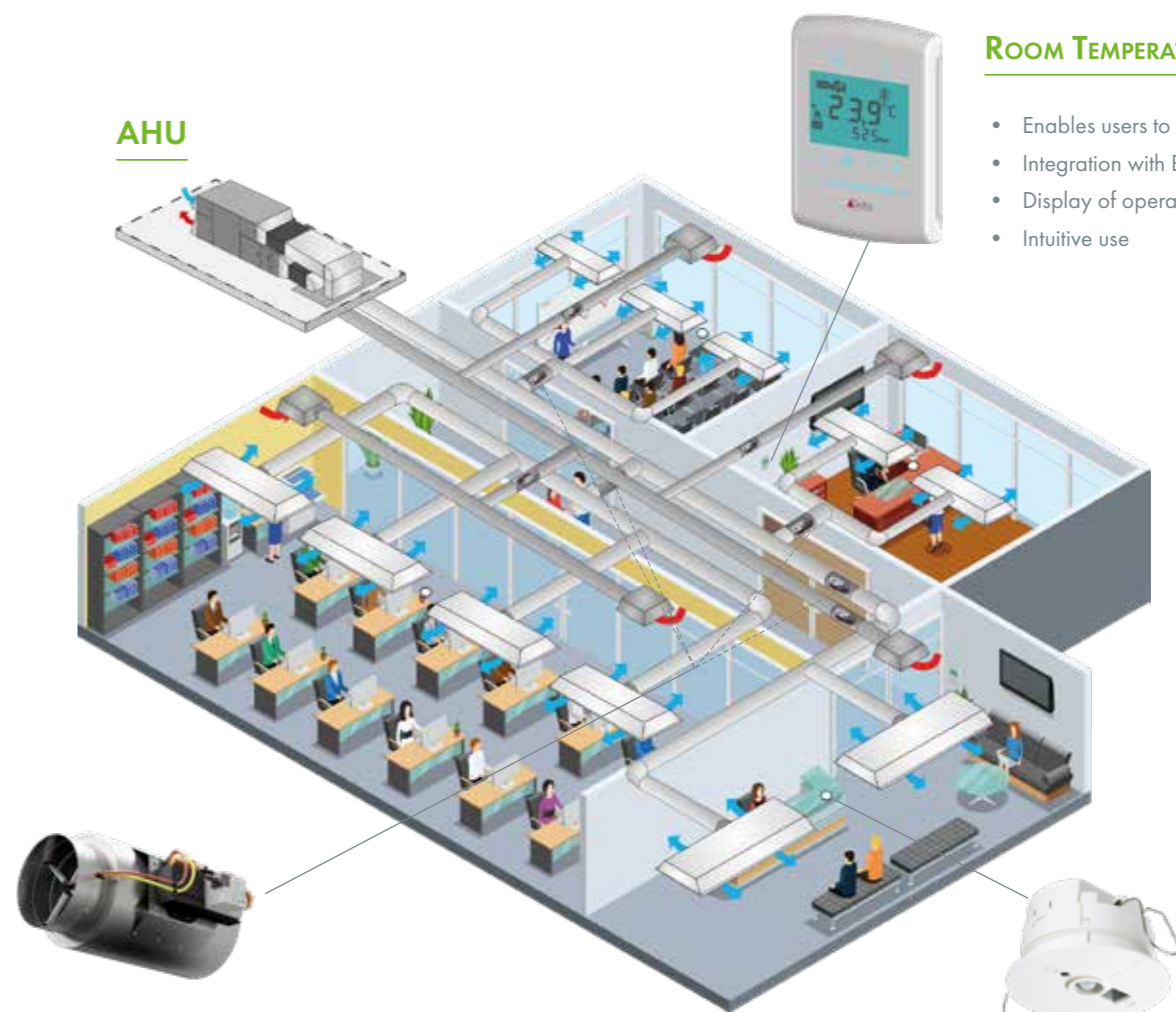
KEY IS OUR FLO-CROSS® AIR FLOW MEASURING SENSOR

- The Flo-Cross® provides a ΔP output
- Better than 2.5% accuracy
- Centre averaged signal
- Linear amplified
- Multiple test points (at least 2x12 points) equally distributed in the duct area
- ΔP to dynamic pressure (velocity)
- Key to thermal energy calculation



AIR SIDE METERING & BILLING

Building operators are facing increased utility bills due to over-usage of fresh air & waste of energy. Barcol-Air offers the solution: by measuring the fresh air thermal energy consumption by tenants and bill these customers on "actual" consumption.



AHU

ROOM TEMPERATURE SENSOR

- Enables users to change comfort settings
- Integration with BMS
- Display of operating parameters
- Intuitive use

SUPPLY AIR M-VAV

- Measuring and recording air flow to specific spaces
- Together with values measured at AHU and controls logic, the BTU's flowing to each room, floor or rented space can be calculated
- Enables building owners to bill individual tenants, according to their actual air consumption, instead of billing per m²

OCCUPANCY SENSOR

- Enables the VAV to switch on or off, when a space is (un)occupied
- Big energy saver
- Connected with BMS and controller
- Available together with Room Temperature Sensor as single product

LATEST MODERN FEEL CONTROLS

- Barcol-Air uses the latest state of the art controllers and modern feel room temperature sensors
- Combined with occupancy sensors and CO₂ sensors an intelligent package, ready for plug and play installation and connection to the existing BMS system is offered



ASHRAE **BACnet**[™]
Communication via IP

Schneider Electric