

AIR MANAGEMENT: CONTROL STRATEGIES



Frankfurt/Main, Germany

The functional areas of an airport are usually divided into different 'control zones'. Volume flow controllers react to the air quality and adapt the volume flow rate for every zone separately and based on demand, while frequency converters control the fan speed, again based on demand. This saves valuable energy and reduces the 'air transport cost' considerably.

The control strategy of the air handling unit for the base load of an airport depends on an adjustment of the volume flow rate in relation to the air quality. With an air-water system the temperature is controlled separately by water side systems. Only for peak loads is volume flow control included in the overall control of the room temperature.

Intelligent TROX control systems ensure that all TROX air conditioning components, including the air handling unit, complement each other perfectly. Components, units and systems from a single source reduce the design and coordination effort considerably.

VARYCONTROL VAV TERMINAL UNITS



VARYCONTROL VAV terminal units such as TVR/TVT are fitted with electronic controllers. Customers have a choice of many different control components to suit each situation, be it for integration with the central BMS or to safely shut off fire compartments (power off to close). The temperature and/or quality of the room air can be individually adjusted by changing the supply air flow rate. The system only supplies the amount of air required, which saves energy.

TVR, circular
V: 10 – 1680 l/s
V: 36 – 6048 m³/h
 Δp : 20 – 1500 Pa
 \varnothing 100 – 400 mm



TVT, square, rectangular
V: 45 – 10,100 l/s
V: 162 – 36,360 m³/h
 Δp : 20 – 1000 Pa
B: 200 – 1000 mm
H: 100 – 1000 mm



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