

# INTRODUCING TVE-Q

overview

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## INTRODUCING TVE-Q - A NEW VARIABLE AIR VOLUME (VAV) CONTROL UNIT DESIGNED FOR RECTANGULAR DUCT VENTILATION SYSTEMS

With the introduction of the [TVE Series](#), TROX presented for the first time a completely new measuring principle for precise detection of the differential pressure and automatic control of the volume flow rate. Now the round TVE is followed by the matching sister model [TVE-Q](#), designed for use with rectangular duct ventilation systems.

In typical air terminal units, the differential pressure is measured by means of measuring probes in the ventilation duct. Here, both the correct inflow direction and a sufficient upstream length must be observed for accurate measurement results.

**The innovation from TROX:** The differential pressure is measured directly via the damper blade. The patented measuring principle has now been transferred to the [rectangular TVE-Q variant](#). A central duct in the damper blade shaft transmits the differential pressure to the transducer, which is directly integrated into the controller casing. This enables accurate readings even at low air flow velocities < 1 m/s.

**The advantage:** by eliminating measuring probes, external hoses or sensors, an extremely compact design is achieved, which allows easy installation even in tight spaces - in the case of dynamic measurement even independent of the inflow direction. Even with static measurement, the installation position is arbitrary. Since no upstream or downstream lengths are necessary, the terminal unit can be mounted directly on a branch or on curves, for example.

**Further highlights:** The newly designed lip seal generates virtually no air-generated noise. The modular design of the TVE control units have the option of a Modbus interface for Plug and Play connection to the X-AIRCONTROL room control system and the integrated terminal strips allow connection without extra junction boxes. In addition, the one-piece housing design ensures reduced leakage, high efficiency and easy cleaning of the [TVE-Q](#), which conforms to VDI 6022 hygiene standards. For easy revision, the compact controller can be removed and reconnected - tool-free.

Each volume flow controller is parameterised to the customer's individual operating values and subjected to an individual ventilation test before shipment. The TROX TVE-Q air terminal unit is available in nominal widths of 200 to 700 mm. The patented measuring principle is based on a hose-free differential pressure measurement directly via the damper blade.

For further information on the [TVE-Q rectangular variable air volume \(VAV\) control unit](#) and a product introduction video, [click here](#).

Alternatively, for further information or any questions about TROX, please contact us by telephone on: 01842 754545 or [email us](#).

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**For more information, please contact:**

Neil Bond, Marketing Manager, TROX UK

Tel: 01842 754545 Email: [NBond@troxuk.co.uk](mailto:NBond@troxuk.co.uk)

Debbie Giggle, Lighthouse PR

Tel: 01847 831609 Email: [Lhousepr@btinternet.com](mailto:Lhousepr@btinternet.com)

**About TROX GROUP**

TROX is a global leader in the development, production and sale of components, units and systems for the ventilation and air conditioning of rooms. With 34 subsidiary companies in 28 countries on five continents, 20 production facilities, and importers and representatives, TROX is present in over 70 countries. Currently, the TROX GROUP has around 4,750 employees worldwide and generates revenues of around EUR 670 million.

**About TROX UK**

TROX UK was established in 1962 in London, UK, as the first international subsidiary of TROX GmbH, and since 1971 has been based at its manufacturing facility and offices in Caxton Way, Thetford, Norfolk, currently with approx. 150 employees, with a regional office in London. TROX UK is a manufacturer of air conditioning, ventilation and fire safety products and has the most efficient and flexible range of air distribution systems in the UK market. Working closely with architects, developers and consultants, TROX UK has supplied its products and services to many of the UK's most prestigious buildings and commercial developments.