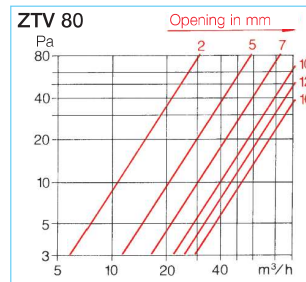


ZTV



Special features – Operation
 Innovative thermostatic supply air valve for automatic temperature controlled replacement air. Efficiently combines energy savings and permanent ventilation. Permanent control of supply air flow volume with adjustable core for any type of room. Suitable for natural (thermal) and mechanical ventilation as supply air element.

Advantages

- Fully automatic, demand-regulated air flow control.
- Maintenance free, no running cost.
- Individual air flow volume adjustment by rotating the valve plate.
- Good sound insulation due to the attenuator built into the valve plate.
- Attractive, functional design.
- Wide intake ring reduces wall discolouration.
- Quick and easy installation.

Design

The Helios supply air thermostat valves are made of impact resistant, white polymer. Aerodynamically shaped and an attractive design. Insulated coating on inner side of the valve plate to prevent condensation.

Installation

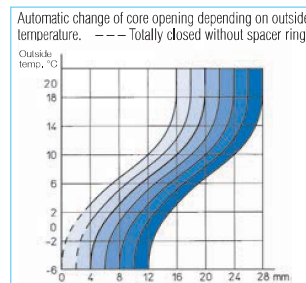
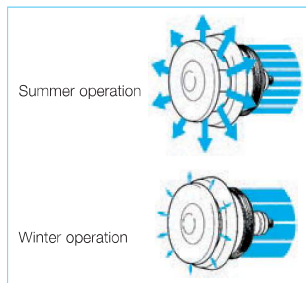
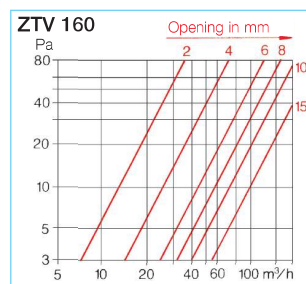
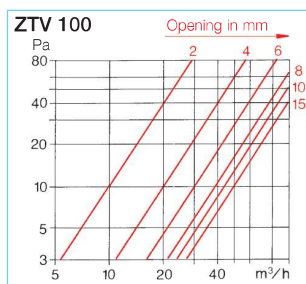
ZTV valves can be easily installed in existing supply air openings. They are fixed to ducting by push fit (with rubber gasket) or by three concealed fixing holes in the frame supplied with fixing screws.

Function

The thermostat operates automatically within a temperature range of $-6\text{ }^{\circ}\text{C}$ to $+20\text{ }^{\circ}\text{C}$. Within this range air flow volumes between 0 and $30\text{ m}^3/\text{h}$ are achieved conforming to DIN guidelines. See performance diagrams on the right. In its standard setting the valve closes completely at outside temperature of approx. $-4\text{ }^{\circ}\text{C}$. A minimum supply air rate is allowed by the 4 mm wide distance clip. The initial setting of the valve can be changed manually by rotating the centre core. One full rotation equals to a variance of 4 mm gap (see blue marked areas in diagram).

Number of units

The number of supply air elements necessary is to be defined according to DIN 1946, T,6 depending on the apartment size and wind force (see chart on the right).



Number of units with mechanical demand-based ventilation

| Apartment size m ² | Number of ZLA / ZLE | | Fans |
|--------------------------------|------------------------------|--------------------|-------------|
| | Extract air (8 Pa)* | Supply air (4 Pa)* | Number/Unit |
| Hotel room 25 m ² | 2 | – | 1 |
| Apartment 25 m ² | 2 (3)** | – | 1 |
| Flat | I 50 m ² | 2 | 3 – 4 |
| | II > 50, < 80 m ² | 3 | 4 |
| | III > 80 m ² | 4 | 5 |
| House up to 120 m ² | 4 | 5 | 3 |

* according to DIN 1946, T,6 tab. 10

** if a kitchenette is also to be extracted

Ordering data

| Type | ZTV 80 | ZTV 100 | ZTV 160 |
|-------------------------|--------|---------|---------|
| Ref. no. | 0078 | 0073 | 0074 |
| Dim. in mm | | | |
| Ø A = Duct nominal size | 80 | 100 | 160 |
| Ø B | 77 | 95 | 156 |
| Ø C | 147 | 147 | 207 |
| D | 77 | 77 | 77 |
| E | 49 | 49 | 50 |
| Weight approx. g | 230 | 240 | 370 |

Dim. in mm see table

