

## Type Retrofit kits



### FOR VARIABLE VOLUME FLOWS OR $V_{\text{MIN}}/V_{\text{MAX}}$ SWITCHING IN ROOM AIR CONDITIONING SYSTEMS

Actuators and installation accessories for mechanical self-powered CAV controllers Type EN, RN, or VFC, and flow adjustment dampers Type VFR

- Parts kits for easy retrofit
- Potentiometer or mechanical stops
- Supply voltage 24 V AC/DC or 230 V AC
- Control input signal: Signal voltage 0 – 10 V for modulating actuators
- Control input signal: 1-wire control or 2-wire control (3-point) for min/max switching
- Positive lock connection with CAV controller or flow adjustment damper

Optional accessories for Types RN and EN

- Auxiliary switch with adjustable switching points, for example for capturing the end positions



## APPLICATION

### Application

Parts kits for the retrofit of mechanical self-powered volume flow controllers or flow adjustment dampers with actuators.



CAV controllers Type EN or RN, as well as for VFC

- Min/Max switching of volume flow setpoint values
- Variable adjustment of volume flow rate setpoints



Flow adjustment dampers Type VFR

- Min/Max change of the damper blade position



## DESCRIPTION

### Parts and characteristics

- Damper blade can take various positions
- Mechanical stops or potentiometers (only for Types VFC and VFR) to set the volume flow rates
- Supply voltage 24 V AC/DC or 230 V AC
- Switching between setpoint values or signal voltage range 0 – 10 V DC

## TECHNICAL INFORMATION

Order code, Produktbeziehungen

---

ORDER CODE

# NR-VAV-E01



## **1** Type

**NR-VAV** Retrofit kit

## **2** Variant

For Types EN and RN

- B50** Retrofit actuator for min/max switching, identical to attachment B50
- B60** Retrofit actuator for min/max switching, identical to attachment B60
- B70** Retrofit actuator for variable adjustment, identical to attachment B70
- S2** Retrofit auxiliary switch, identical to attachment B\*2
- ENMAT** Retrofit installation accessories for EN
- RNMAT** Retrofit installation accessories for RN

For Types VFC and VFR

- E01** Retrofit actuator for min/max switching, identical to attachment E01
- E02** Retrofit actuator for min/max switching, identical to attachment E02
- E03** Retrofit actuator for variable adjustment, identical to attachment E03
- M01** Retrofit actuator for min/max switching, identical to attachment M01
- M02** Retrofit actuator for min/max switching, identical to attachment M02

## Variants

---

### VARIANTS

#### Actuators for volume flow controllers Type RN or EN

Part number	Construction	Supply voltage	Type	Identical to attachment
NR-VAV-B50	Min/Max switching, mechanical stops	24 V AC/DC	LM24A-F	B50
NR-VAV-B60	Min/Max switching, mechanical stops	230 V AC	LM230A-F	B60
NR-VAV-B70	Variable adjustment, mechanical stops	24 V AC/DC	LM24A-SR-F	B70
NR-VAV-S2	Auxiliary switch		S2A	Included with B*2
NR-VAV-RNMAT	Installation accessories for RN			
NR-VAV-ENMAT	Installation accessories for EN			

Installation accessories for CAV controllers Type EN or RN are to be ordered separately

#### Actuators for volume flow controllers Type VFC and for flow adjustment dampers Type VFR

Part number	Construction	Supply voltage	Type	Identical to attachment
NR-VAV-E01	Min/Max switching, potentiometer	24 V AC/DC	224-024-02-001	E01
NR-VAV-E02	Min/Max switching, potentiometer	230 V AC	224-230-02-002	E02
NR-VAV-E03	Variable adjustment, potentiometer	24 V AC/DC	224C-024-02-003	E03
NR-VAV-M01	Min/Max switching, mechanical stops	24 V AC/DC	CM24-F	M01
NR-VAV-M02	Min/Max switching, mechanical stops	230 V AC	CM230-F	M02

Actuator for switching between setpoint values (B\*05, B6\*, B7\*) for Type RN or EN







Auxiliary switch (B\*2) S2A



Actuator with potentiometers (E0\*) for Types VFC and VFR







Actuator with mechanical stops (M0\*) for Type VFC or VFR





## TROX GmbH

---



Heinrich-Trox-Platz  
D-47504 Neukirchen-Vluyn  
Tel.: +49 (0)2845 202-0  
Fax: +49 (0)2845 202-265

## Online-Services

---

[Order-Status \(My TROX NET\)](#)

---

[TROX Academy](#)

---

[Catalogue Download](#)

---

[Your contact partner](#)

---

[Online fault report](#)

---

[BIM](#)

---

## Service-Hotlines

---

Sales Germany  
and technical consulting  
+49 (0)2845 202-0

[Contact](#)

Technical service  
+49 (0)2845 202-400

[Contact](#)