

# > COMFORTE CX VAV ACTUATOR AC-5

## Comforte line



### Characteristics

The actuator (or damper servomotor) is part of the Comforte VAV line and controls the damper.

The actuator is equipped with a switch to set the direction of rotation for the motor for damper control, a switch to turn the motor and angles to achieve the correct valve position.

### System design

The Comforte VAV comprises three components: a base module with integrated pressure difference sensor with automatic zero-point correction, a damper servomotor and a power supply module for connection to 230 VAC. Thanks to the modular construction, the damper servomotor and/or power supply module can be linked on both the left or the right and connected to the base module using the standard plug.

### Comforte VAV range

Name	Description
Comforte CX VAV Base Module	module with processor, memory, communication and I/O on the main circuit board
Comforte CX2 VAV Base Module	
Comforte CX VAV power supply module PS230-30 (GST/SC)	module for 24 VAC power supply to base module, actuator and any I/O modules and sensors
Roombus power supply module PS230-30-15RE (GST/terminal block)	module for: <ul style="list-style-type: none"> <li>• 24 VAC power supply to base module, I/O modules and any sensors and actuators</li> <li>• 24 VDC power supply and neutral point connection of Roombus devices</li> </ul>
Comforte CX VAV Actuator AC-5	module for opening/closing damper
Comset CX	Operating unit



You can connect the I/O modules from the Comforte to the Comforte VAV Base Module.

## General specifications Comforte VAV-line

Housing	
Material	plastic
Colour	light grey / dark grey
IEC protection class	I (basic insulation with earth cable)
IP code	IP20 (NEN-EN-IEC 60529)
Flammability	V0
Recycle code	7
Installation	on air duct using 2x M3x30 self-tapping screws in an enclosed switch box, distribution box, above a suspended ceiling or in a public space

Environment	
Permitted ambient temperature during normal operation	0 – 45 °C
Permitted temperature during transport and storage	-20 – 70 °C
Permitted relative ambient humidity	80 % at T ≤ 30 °C, decreasing linearly to 50 % at T = 40 °C (non condensing)
Maximum installation height	2000 metres above sea level
Installation category	II
Permitted ambient pollution	pollution degree 2

Legislation and standards	
EC Declaration of Conformity	<p>The Comforte VAV is in accordance with the following directives and associated standards and normative documents.</p> <p>Low voltage directive 2006/95/EC:</p> <ul style="list-style-type: none"> <li>• EN 61010-1 (2001)</li> <li>• EN 60950-1 (2006)</li> </ul> <p>EMC directive 2004/108/EC:</p> <ul style="list-style-type: none"> <li>• Emission: EN 61000-6-3 (2007)</li> <li>• Emission: EN 61000-3-2 (2006)</li> <li>• Emission: EN 61000-3-3 (1995) + A1 (2001) + A2 (2005)</li> <li>• Immunity: EN 61000-6-2 (2005)</li> <li>• WEEE directive 2012/19/EU</li> <li>• RoHS directive 2011/65/EU</li> </ul> <p>A copy of the EC Declaration of Conformity is available via the Priva Support Portal: <a href="https://support.priva.nl">https://support.priva.nl</a> (for registered partners only).</p>

I/O connections	
Type of connector (module dependent)	spring clamps or plug-in GST18 connector

Spring clamps	
Permitted cable cross section for use with spring clamps	0.5 to 2.5 mm <sup>2</sup> (single core or flexible) 0.25 to 1.5 mm <sup>2</sup> (flexible with ferrule connector to DIN 46228/1)

## Specifications

General	
Item	Comforte CX VAV Actuator AC-5
Part number	400033
Dimensions	189.1 x 158.3 x 70 (WxHxD in mm)
Weight	485 grams

<b>Motor</b>	
Supply voltage	24 VAC
Consumption during operation	1 W at nominal torque
Consumption during rest	0.4 W
Control	2 ... 10 VDC
Torque	5 nm
Turning angle	95°
Run time	150 s
Noise level	Max. 35 dB (A)

<b>Connector</b>	
Core 1	0 VAC
Core 2	24 VAC
Core 3	Actuator control 2...10V
Core 4	Not used
Core 5 (unused cable)	Feedback message on actuator state 2...10V

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