

ORION-LØV WITH SIRIUS COMFORT

- With heating coil for waterborne heating of intake air
- Unique damper function
- Large working range
- Belimo MP Bus
- MOD Bus
- BACnet
- LON Bus
- Belimo KNX

APPLICATION



Sirius Comfort is a diffuser unit with VAV and heating functions. It is used as a volume regulator and diffuser unit in needs-driven ventilation systems. Sirius Comfort has unique characteristics, that is well-suited for variable airflows and contributes to the valve's very good induction.

Design

Sirius Comfort is built as a complete measurement and regulating unit for needs-driven control of airflows in the ventilation system. The measurement station measures pressure difference via measurement rods integrated into the unit. The unit is equipped with an LHV-D3 VAV regulator from Belimo. The controller's specifications are found in the table below. Complete technical documentation can be downloaded from www.belimo.eu. Orion-LØV has a detachable front plate with LØV perforation, and can be delivered adapted to different types of ceiling systems. Pipe connection water side is delivered as standard with Ø15 smooth pipe. They can also be ordered with 1/2" internal or external threads.

DESCRIPTION



Materials and surfaces

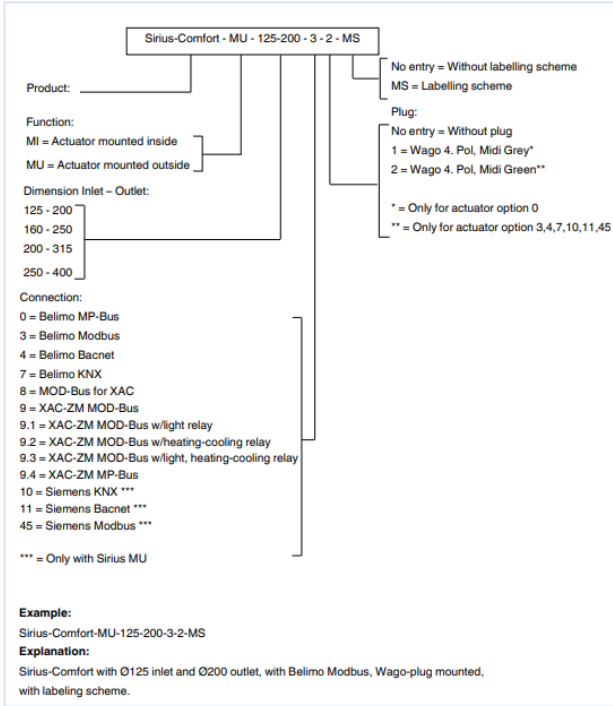
Sirius Comfort is made of galvanised steel. The measurement cross is in aluminium, hoses and nipples are in plastic. The damper has an affixed polyester cloth. The spigot has a rubber EPDM seal. Heating coil is copper and aluminium.

INSTALLATION



The valve Orion-LØV can be mounted in different types of false ceilings or in a permanent ceiling. On Sirius Comfort a suspension bracket in the back edge is used with a threaded rod or belt, see figure 4. For connecting up of the two components, the suspension bracket is used as shown in figure 7. This is placed against the side of the plenumbox and fastened with a mounting screw.

TEKNISK INFORMATION



| ØD | m³/h (open) | | | Dim. | m³/h (75Pa) | | |
|-----|-------------|----------|----------|------|-------------|----------|----------|
| | 25 dB(A) | 30 dB(A) | 35 dB(A) | | 25 dB(A) | 30 dB(A) | 35 dB(A) |
| 125 | 140 | 180 | 223 | 125 | 137 | 176 | 216 |
| 160 | 238 | 288 | 358 | 160 | 194 | 261 | 230 |
| 200 | 320 | 385 | 446 | 200 | 281 | 371 | 446 |
| 250 | 446 | 540 | 655 | 250 | 270 | 511 | 655 |

Sirius Comfort has a built-in VAV regulator for needs-driven control of airflows. The damper solution will choke the pressure at high flow rates and will maintain a low sound level. This may reduce the need for additional dampers and sound attenuators in a duct system. The unit is equipped with a heating coil for waterborne heating of intake air. Sirius Comfort is delivered with Belimo MP Bus, LON, Modbus or Belimo KNX for direct bus communications with building automation systems.

Measurement deviation for the area:

- 10 - 20% of nominal: $\pm 25\%$
- 20 - 40% of nominal: $< \pm 10\%$
- 40 - 100% of nominal: $< \pm 4\%$

At T-pipe situation, a distance of at least $5 \times \text{ØD}$ is recommended in order to maintain same measurement precision. The diffuser front can be supplied with integrated motion sensor or motion/temperature sensor. Motion/temperature sensor is only to be used together with X-AIRCONTROL. Product sheet for motion sensor and motion/temperature sensor can be found on our website: www.trox.no