

ORION-LØV WITH SIRIUS

- Unique damper function
- Extensive working range
- Belimo MP-Bus
- Modbus
- BACnet
- LONWORKS
- Belimo KNX

APPLICATION

Orion-LØV with Sirius is a diffuser unit with VAV function, and is used as volume flow controller and diff user in ventilation systems to enable air flow rates to be set as per requirements. Orion-LØV offers excellent induction, and is ideal for variable air flow rates.

Design

Orion-LØV with Sirius is a complete measuring and control unit where the air flow rates in ventilation systems can be set as required. At the measuring station, the differential pressure is measured by using measuring rods integrated in the unit. Sirius is equipped with LHV-D3 V AV controller from Belimo. Controller specifications are provided in the table below. Full technical documentation can be downloaded from www.belimo.eu. Orion-LØV features a removable front panel with LØV perforation, and is suitable for a range of ceiling systems.

DESCRIPTION

Materials and surface coating

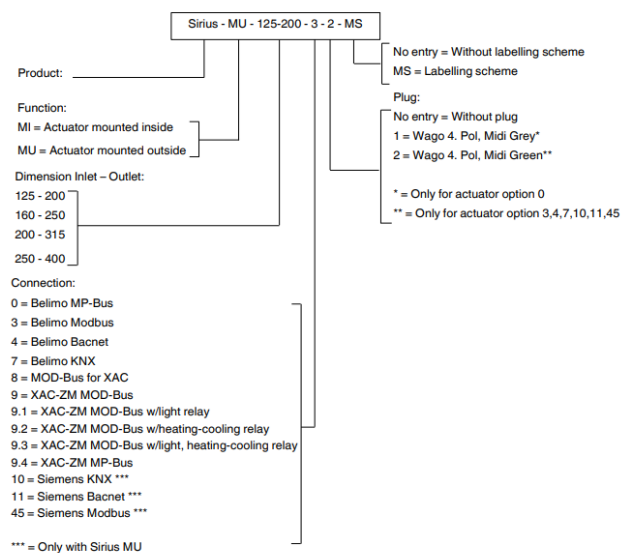
Sirius comes in a galvanised steel design. The measurement unit is in aluminum, and hoses and nipples are in plastic. The damper is equipped with polyester material, and the connection collar is fitted with EPDM rubber gasket.

INSTALLATION

The Orion-LØV diffuser can be installed in a range of modular ceiling systems as well as in fixed ceilings. Sirius is attached to the rear of the support bracket by means of threaded rod or strap (fig. 5). In order to maintain the system's measurement accuracy, it is important to install units with spacing as shown in fig. 6.

TEKNISK INFORMATION

ORDER CODE, Sirius



Example:

Sirius-MU-125-200-3-2-MS

Explanation:

Sirius with Ø125 inlet and Ø200 outlet, with Belimo Modbus, Wago-plug mounted, with labelling scheme.

QUICK SELECTION, Orion-LØV with Sirius

Sirius dim.	[åpen] m³/h		
	25dB(A)	30dB(A)	35dB(A)
125	155	184	220
160	256	310	374
200	374	446	529
250	526	626	749

Sirius dim.	(75Pa) m³/h		
	25dB(A)	30dB(A)	35dB(A)
125	144	184	220
160	234	295	374
200	367	443	529
250	342	569	734

Table 2: Quick selection, Orion-LØV with Sirius

Sirius ØD.	(m³/h)	
	Minimum	Maximum
125	26	265
160	43	434
200	70	700
250	106	1060

Orion-LØV with Sirius has a built-in VAV controller for adjustment of air flow rates according to requirements. 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. Orion-LØV with Sirius forms part of the VIP-X control system for VAV, and is also available with Winsta plug-in wiring system. Motion detector can be integrated in the diffuser front. Orion-LØV with Sirius can also be delivered with Belimo MP-Bus, LON, Modbus or Belimo KNX for direct BUS communication to SD systems.

Deviation for working range:

10 - 20% of V_{nom} : $\pm 25\%$

20 - 40% of V_{nom} : $< \pm 10\%$

40 - 100% of V_{nom} : $< \pm 4\%$

If T-pipes are used, a spacing of at least $5 \times \varnothing D$ is recommended in order to maintain the measurement accuracy. 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