

Munters ZLV Vario

Fresh air distributor

Conventional recirculation systems are driven with a fixed area ratio setting between the fresh air and recirculating air. This results in a significant portion of the fan capacity (up to 50%) being guided via the permanently open recirculation gap even with summer ventilation. The ZLV Vario fresh air distributor's sliding fan module makes it possible to variably adjust the recirculation gap. The advantage of this is that 100% of the fan capacity is available as fresh air capacity during summer operation. This means that the number of fresh air chimneys required can be halved through the use of the ZLV Vario fresh air distributors.

Advantages

- Flexible system for every type of stable and animal stock in diameters of Ø 650, 730, 820, 920 mm
- Fresh air distribution across a large distribution radius, also with minimal air flow rates
- All components from thermally insulated polyurethane
- Danger of ice formation also at extreme outside temperatures considerably reduced
- Winter, transitional and summer operation switch automatically (can be set centralised or de-centralised)
- Complete closing of the recirculation gap, thereby increasing maximum fresh air capacity



ZLV Vario
in transitional operation,
optimal for temperatures down to -50°C

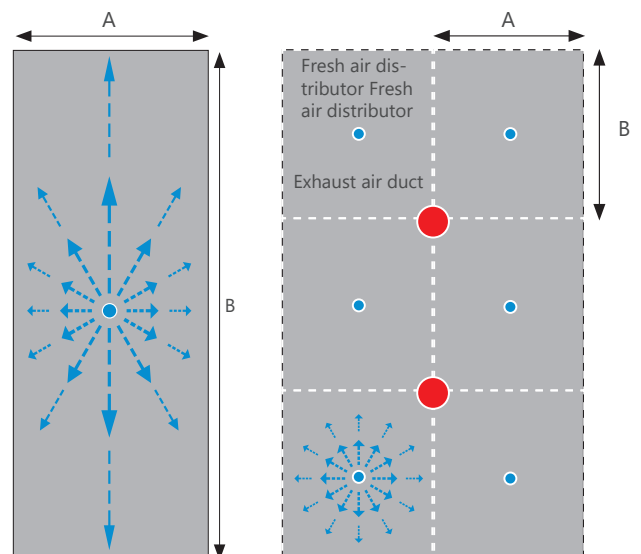
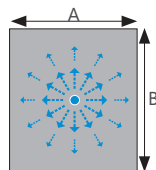
Planning and design

Planning starts with an even distribution of the fresh air distributors (ZLV). Near equal sized rectangles ensure an optimum distribution of fresh air. The fresh air distributor can be employed both in negative pressure systems and in equal pressure systems (integration of additional fan). The side ratio A:B should not exceed 1:1.5. With an air conduction unit, a ratio of 1:3 is possible.

Throwing ranges*

- Ø 650 mm up to 13 m
- Ø 730 mm up to 16 m
- Ø 820 mm up to 20 m
- Ø 920 mm up to 22 m

Design of the fresh air chimney: Rain hood with protective bird grid and top PUR nozzle, 3m air duct.



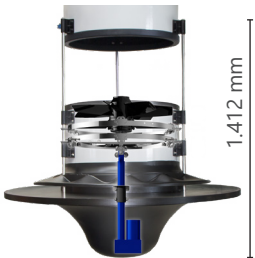
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Technical data

Internal diameter Ø	Air flow Equal pressure ventilation
650 mm	10.500 (m³/h)
730 mm	15.300 (m³/h)
820 mm	20.300 (m³/h)
920 mm	20.800 (m³/h)

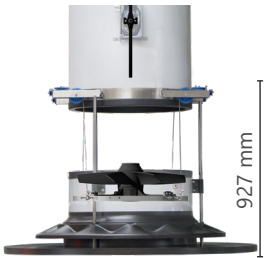
Fresh air distributor for motor drive (decentralized variant)



The ZLV Vario fresh air distributor switches to winter, transition and summer mode via a climate controller. This makes 100% of fan output available as fresh air capacity during summer operation. Thus, the number of fresh air chimneys required can be halved. ZLV Vario delivers fresh air over the roof, with each ZLV activated by a motor.

- Climate control changeover
from winter, transitional and summer mode
- The danger of ice formation under extreme outside temperatures is considerably reduced

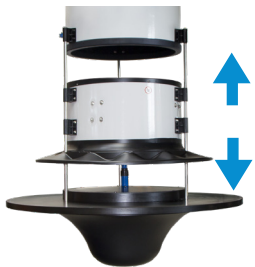
Fresh air distributor for rope drive (centralised variant)



The ZLV Vario fresh air distributor switches to winter, transition and summer mode via a climate controller. This makes 100% of the fan output available as fresh air capacity during summer operation. Thus, the number of fresh air chimneys required can be halved. ZLV Vario feeds fresh air via the roof and is activated via a central motor unit.

- Climate control changeover
from winter, transitional and summer mode
- The danger of ice formation under extreme outside temperatures is considerably reduced

The sliding fan module in the ZLV Vario



ZLV Vario's sliding fan module makes it possible to variably adjust the recirculation gap and to close it completely. This increases the maximum supply air capacity per unit and reduces the fresh air chimneys required by 50% (compared to conventional recirculation systems).

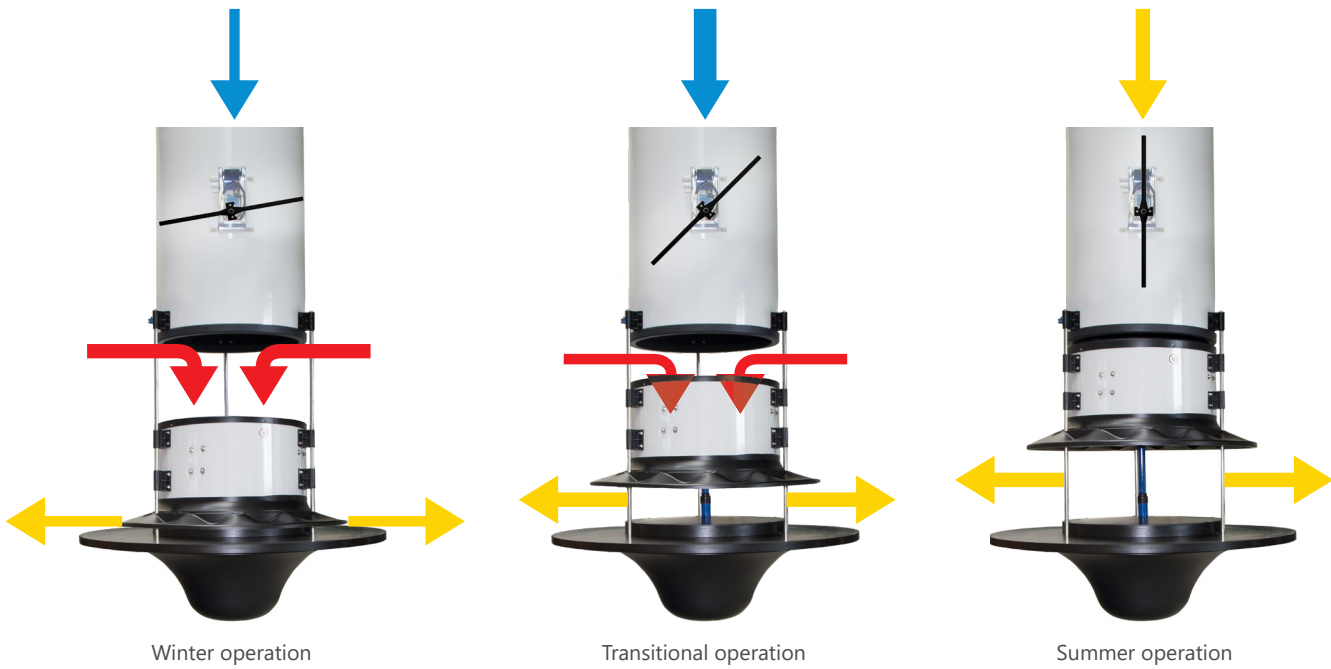
- Complete closing of the recirculation gap, thereby increasing the maximum fresh air capacity
- Climate control changeover
from winter, transitional and summer mode



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Fresh air distributor

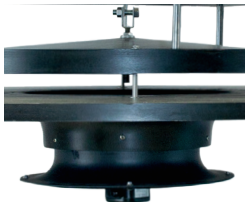
ZLV Vario operating modes



Extras + accessories



Rain hood included
Bird protective grid



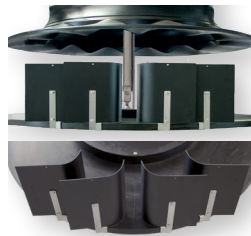
Recirculation fan



Electro cylinder with 450
stroke V4 230 V/V6 24 V



SLRK control



ZLV air conduction unit