



Primal TL100

Automatic wall vent



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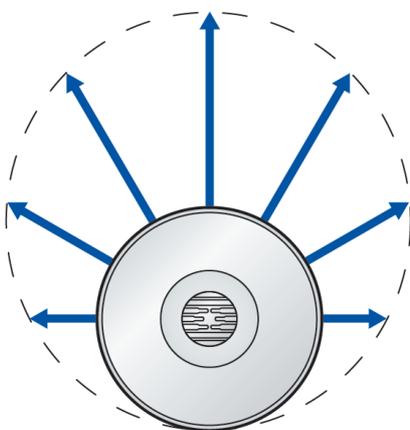
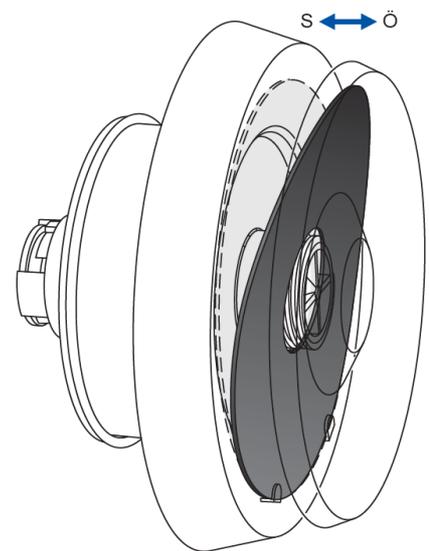
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Automatic wall vent with thermostat and air stream-operated damper

Climate-smart self-regulating supply air valve with thermostat for seasonal ventilation. In addition, there is a patented air stream-operated damper that eliminates cross draughts and heat losses in windy weather.

Air stream-operated damper

When the wind blows, negative pressure is created on the lee side of the property. This negative pressure tends to suck the warm room air out through the vent. Without an air stream-operated damper, the thermostat makes matters worse because the warm room air causes the thermostat to fully open the vent. The same thing also happens in a villa with more than one floor where thermodynamics (hot air rising) causes the room air to seek its way out through the highest vents.



Adjustable minimum flow

To ensure a minimum flow in cold weather, do not close the vent completely but leave it open 4 mm. However, the vent can always be opened or closed completely by turning the valve disc anticlockwise to increase the flow and clockwise to decrease it. The air stream-operated damper also serves as air diffuser and, as the illustration shows, creates an almost ideal condition for spreading the air and preventing cold draught. The arrows show the direction and the relative air velocity at each measuring point.



Air flow diagram

The air flow in litres per second at a pressure difference of 20 Pa and 10 Pa between the outside and the inside.

