

Door Air Curtains

Cassette- UniLine

KAMPMAN
Genau mein Klima.

Fit into any ceiling grid

Do your plans include a suspended ceiling? Then opt for Cassette-UniLine. They are hidden in the suspended ceiling and fit into a 600 mm or 625 mm ceiling grid.

When it needs to be compact ...

... the simple connection is included: the unit and casing are a compact unit; the connections for electricity and water are lead out through the side of the unit. As a result, it can be installed close to the ceiling.



1|3



Features



Details



Control



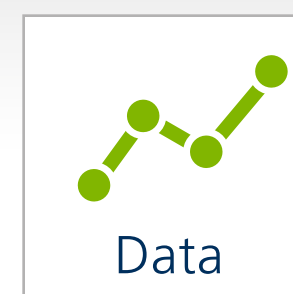
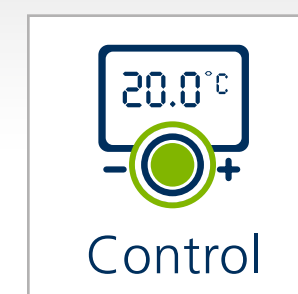
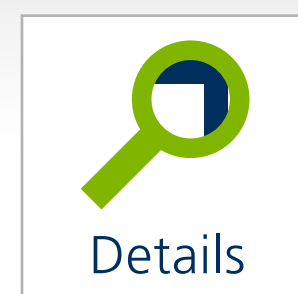
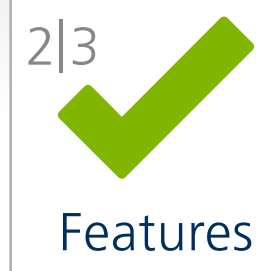
Data

Energy saving and silent

Silent AutoMotion allows high air discharge velocities at low air volumes. The operation in a low mode results in reduced sound emissions. The UniLine features an energy efficient drive concept through the use of EC technology.

Step this way!

One step – and your customers are in a pleasant sales environment. Open doors reduce our reluctance to enter a shop – and besides, UniLine air screening reduces energy losses.

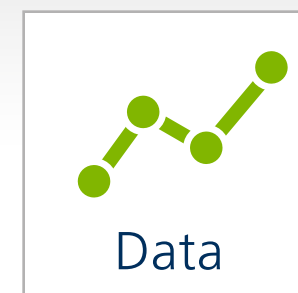
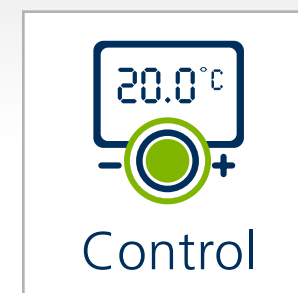
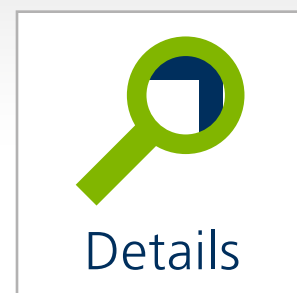
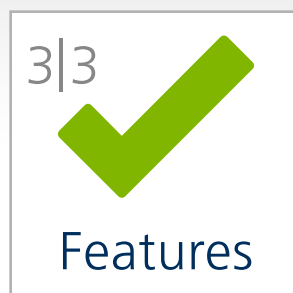


Small shops and large malls

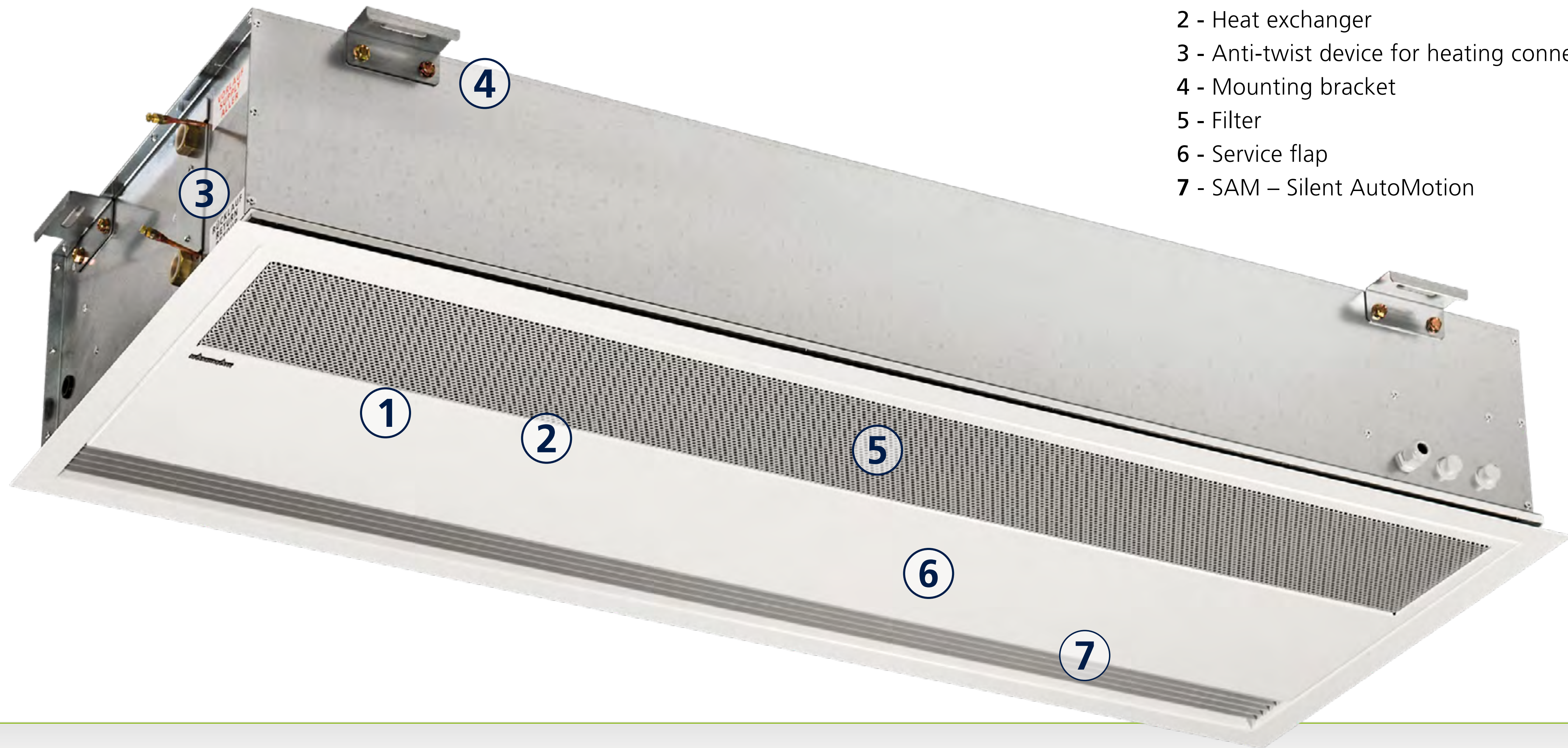
Cassette-UniLine effectively screen doors from cold air – with a height of up to 3 metres, individual or on a broad-scale.

Maintenancefriendly

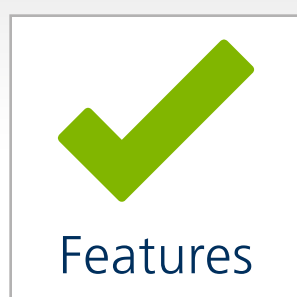
Make your in-house facilities manager your friend: virtually the entire underside of the unit acts as a service flap. The large filter and interior of the unit can be accessed in just a few simple steps.



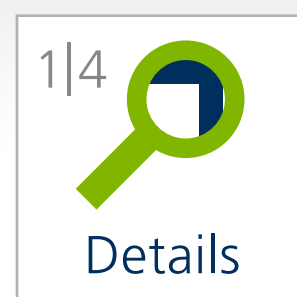
Cassette-UniLine at a glance



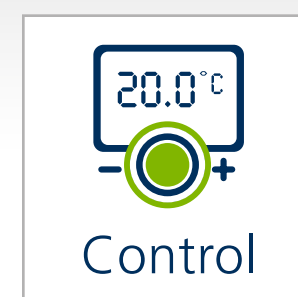
- 1 - Radial fans
- 2 - Heat exchanger
- 3 - Anti-twist device for heating connection
- 4 - Mounting bracket
- 5 - Filter
- 6 - Service flap
- 7 - SAM – Silent AutoMotion



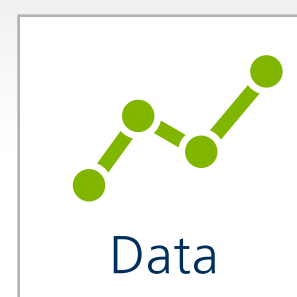
Features



Details

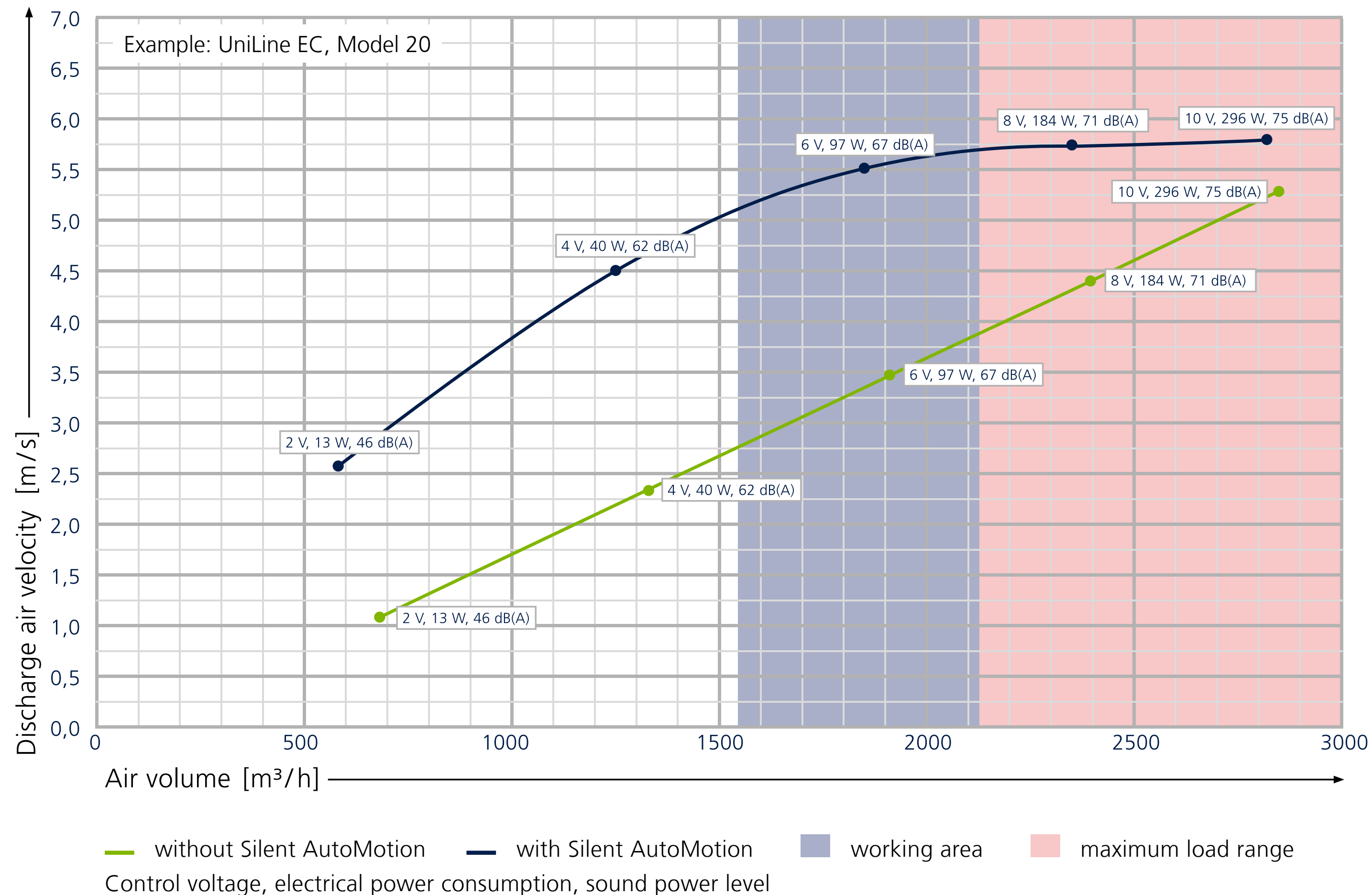


Control



Data

SAM – Silent AutoMotion



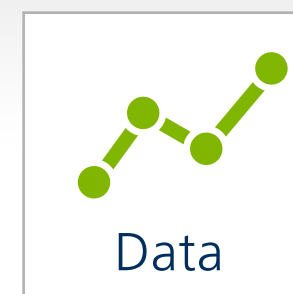
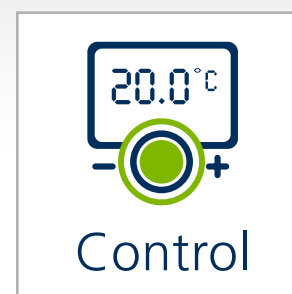
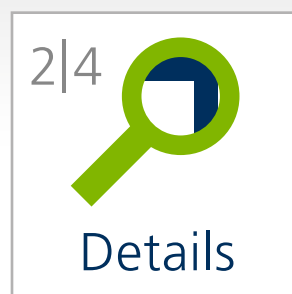
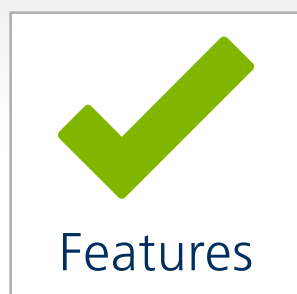
UniLine door air curtains are equipped ex works with SAM-function. This creates higher air outlet speeds with lower air volumes by reducing the outlet cross-section. The flap fully opens at maximum air volume. Open entrances can now be efficiently screened with minimal power consumption and low sound power levels.

The diagram shows the air outlet velocity above the air volume without Silent AutoMotion (green curve) and with Silent AutoMotion (blue curve), as well as the working range (highlighted in blue) and the maximum load range (highlighted in red).

The maximum air outlet velocity for efficient screening is reached in the working range between 5 and 7 V. Unlike the conventional air outlet without SAM-function at 10 V actuation (296 V electrical power consumption, 75 dB (A)), the air outlet velocity with the new air outlet with SAM-function is achieved at 6 V (97 V electrical power consumption, 67 dB (A) sound power).

This leads to a reduced sound power level of approx. 8 dB(A) and a 67% saving of electrical energy at the same penetration depth providing the local conditions permit the heat output to be reduced.

With more exacting requirements (e.g. with extremely adverse conditions), the heat output required can be adapted by increasing the air volume in the maximum load range.



Anti-twist device for heating connection

- ▶ prevents damage to the convector when screwing in the valves
- ▶ optional: valves (accessories)



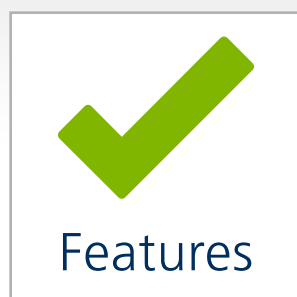
Filter

- ▶ easy filter replacement
- ▶ without the use of any tools



Mounting bracket

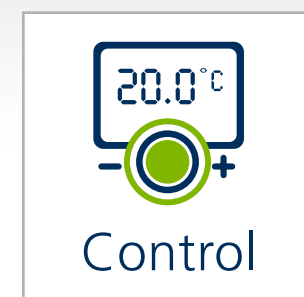
- ▶ for safe and quick mounting



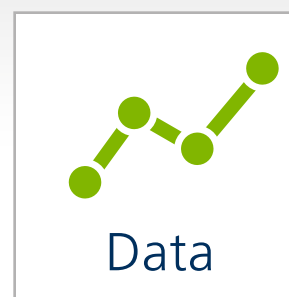
Features



Details



Control



Data

Radial fan

- ▶ high-performance radial fans for high air volumes
- ▶ wired ready for connection: switchable between 5 stages (AC) or continuously variable (EC)



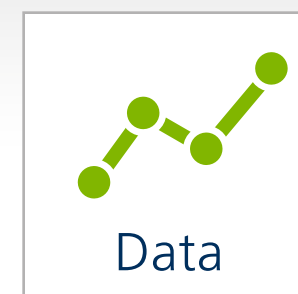
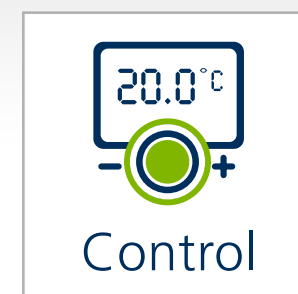
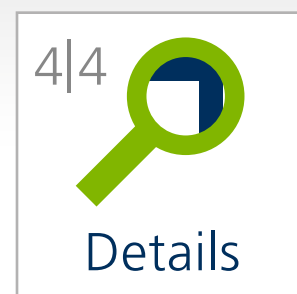
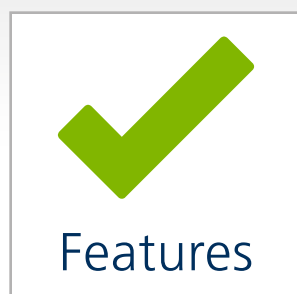
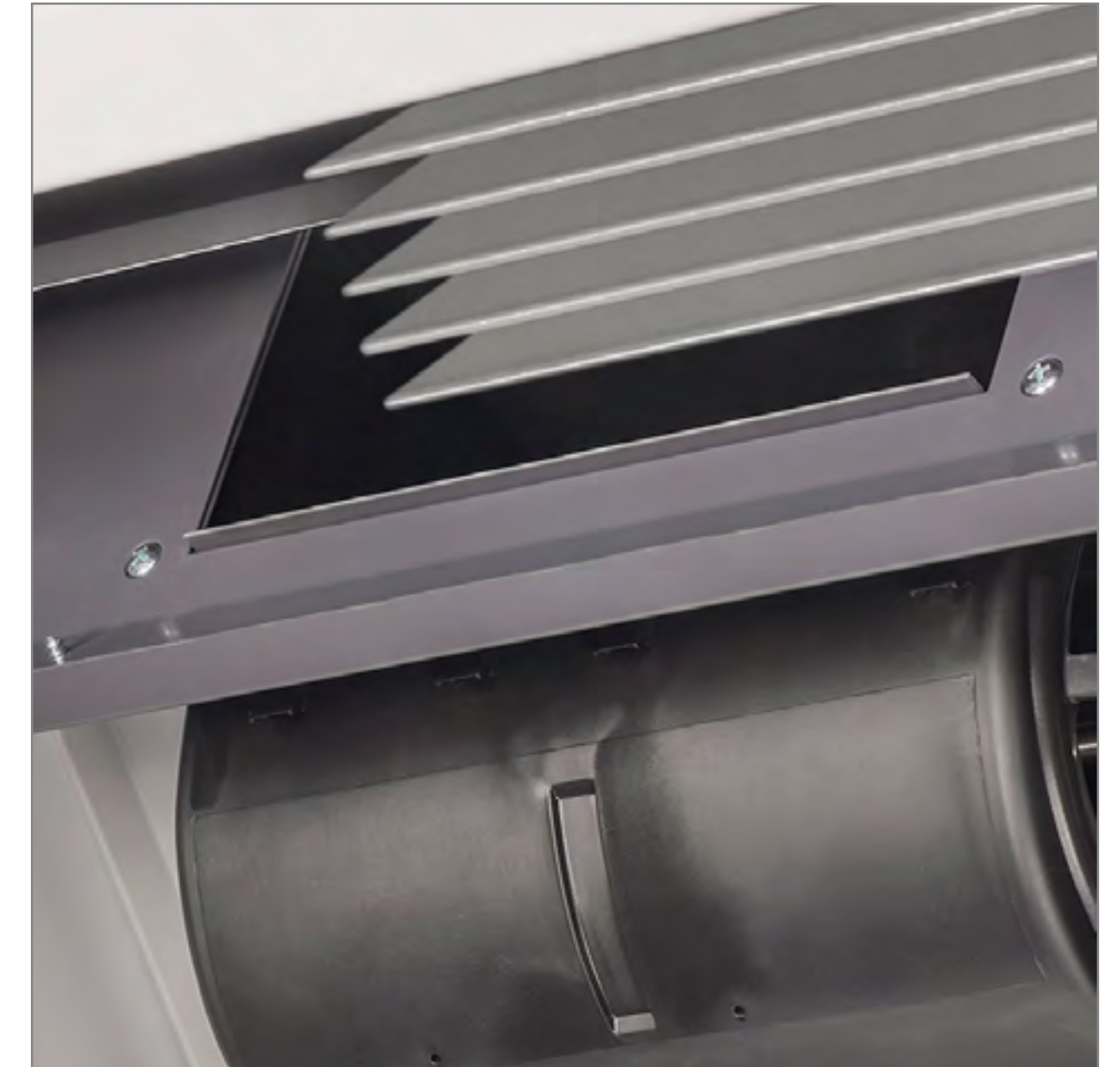
Service flap

- ▶ easy and quick to fold down
- ▶ rapid access for maintenance work

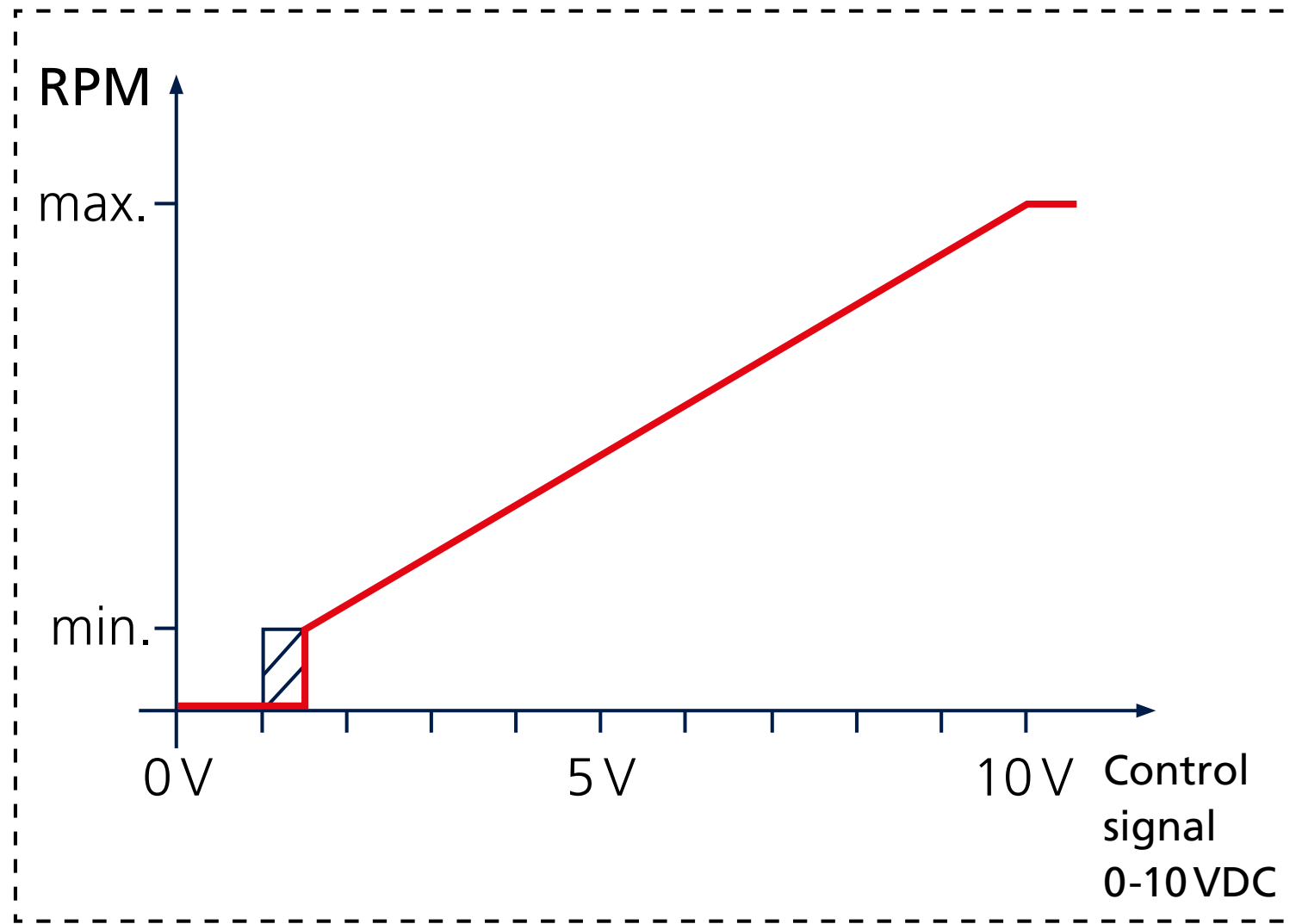


Outlet air rectifier

- ▶ provides for a commutated, low-turbulence air outlet
- ▶ with Silent AutoMotion technology for efficient screening at low operating states



Control options



0 – 1.5 V = device OFF

1.5 – 10 V = fan speed min... 100 %

Control via BMS-system

Units available with BMS interface or local controller

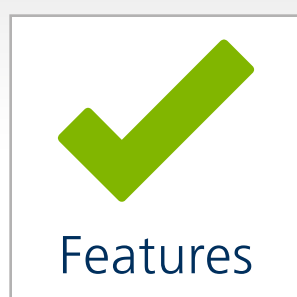
BMS-Interface/ electromechanical (-00)

- ▶ power supply: 230V/50 Hz via factory fitted transformer
- ▶ fan speed control 0–100 % via 0–10 VDC BMS contact valve control, direct by BMS

Combined controller



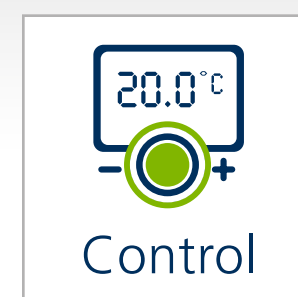
- ▶ fan speed control 0-100 %
- ▶ operation mode switch standby, winter and summer
- ▶ control input door contact for automatic speed-up and device release
- ▶ optional: room temperature mode (standby mode) in absence operation



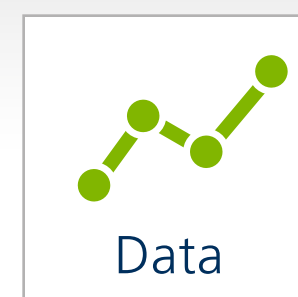
Features



Details



Control



Data

Performance data

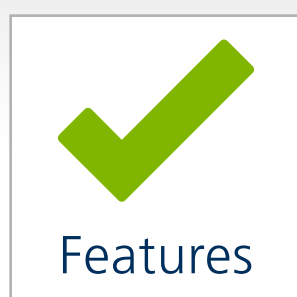
Model	Max. discharge height ¹⁾	Max. door width	Air flow volume ²⁾	Heat output ³⁾	Sound pressure level ⁴⁾
	[m]	[m]	[m ³ /h]	[kW]	[dB(A)]
UniLine with AC motor					
10	2,3–3,0	1,0	600–1390	6,7–10,2	38–59
15	2,3–3,0	1,5	930–2130	9,6–17,4	39–60
20	2,3–3,0	2,0	1210–2820	13,1–24,2	41–61
25	2,3–3,0	2,5	1660–4000	18,0–33,9	42–62
UniLine with EC motor					
10	2,3–3,0	1,0	290–1410	3,4–10,3	27–56
15	2,3–3,0	1,5	410–2540	5,3–19,5	31–57
20	2,3–3,0	2,0	580–2820	7,6–24,1	30–59
25	2,3–3,0	2,5	710–3980	9,6–33,7	33–60

¹⁾ at good to average pressure ratios/requirements/conditions

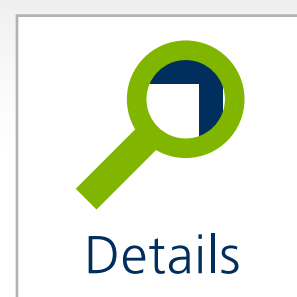
²⁾ switchable in 5 stages or continuously variable

³⁾ at LPHW 75/65 °C, EAT = 20 °C

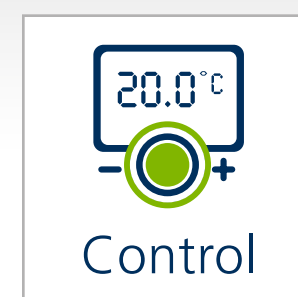
⁴⁾ the sound pressure levels were calculated based on an expected room insulation of 16 dB(A). This corresponds to a distance of 3 m, a room volume of 2000 m³ and a reverberation time of 1.0 s (in accordance with VDI 2081).



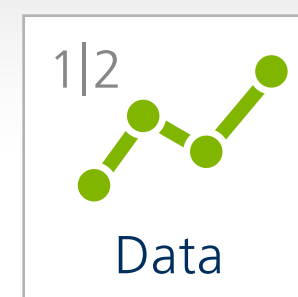
Features



Details

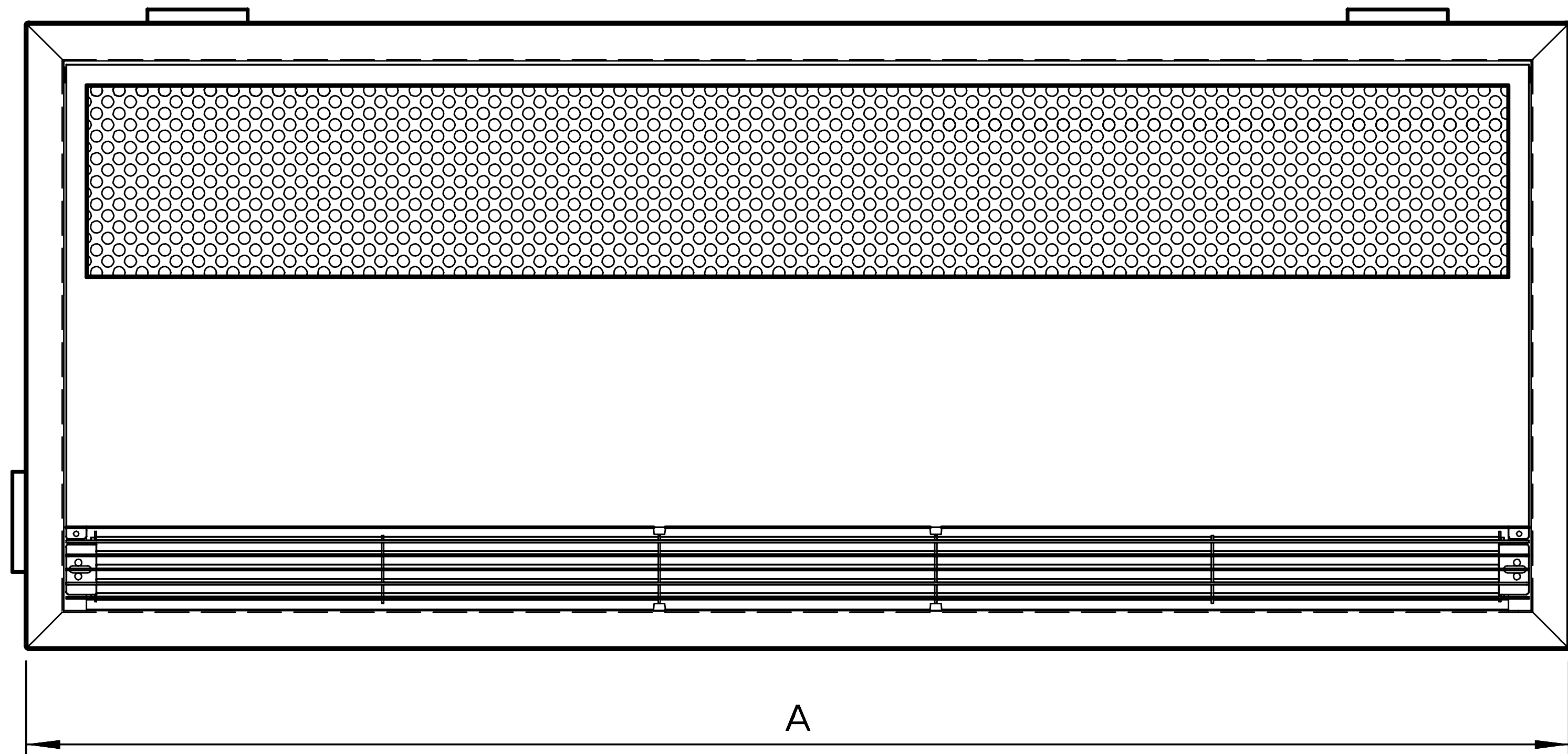


Control

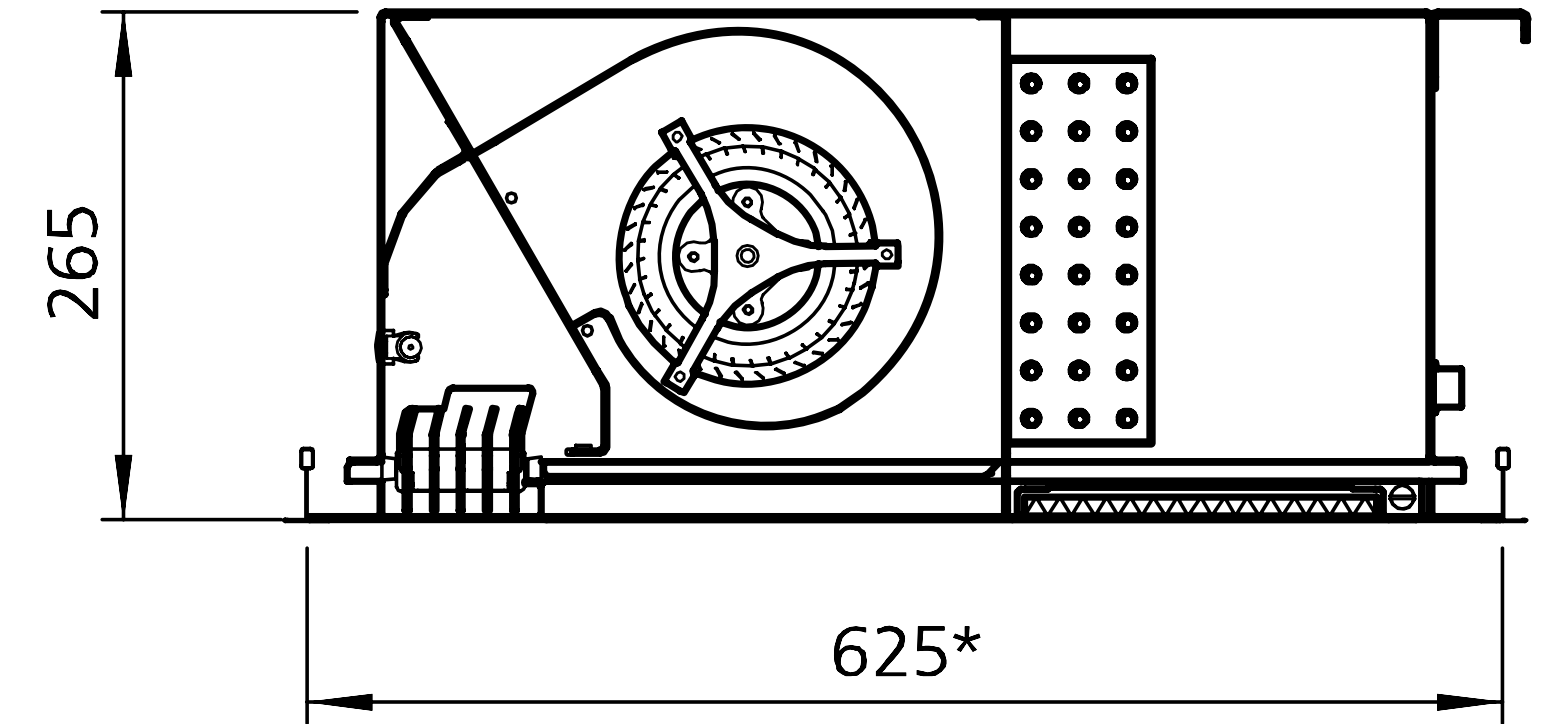


Data

Dimensions



View from below



Cross section

Model	A [mm]
10	1035
15	1535
20	2035
25	2535

* also available for 600 mm ceiling grid



Features



Details



Control



Data

Benefits for you!

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- ▶ design support
- ▶ system solutions
- ▶ detailed discussions
- ▶ After Sales Service

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