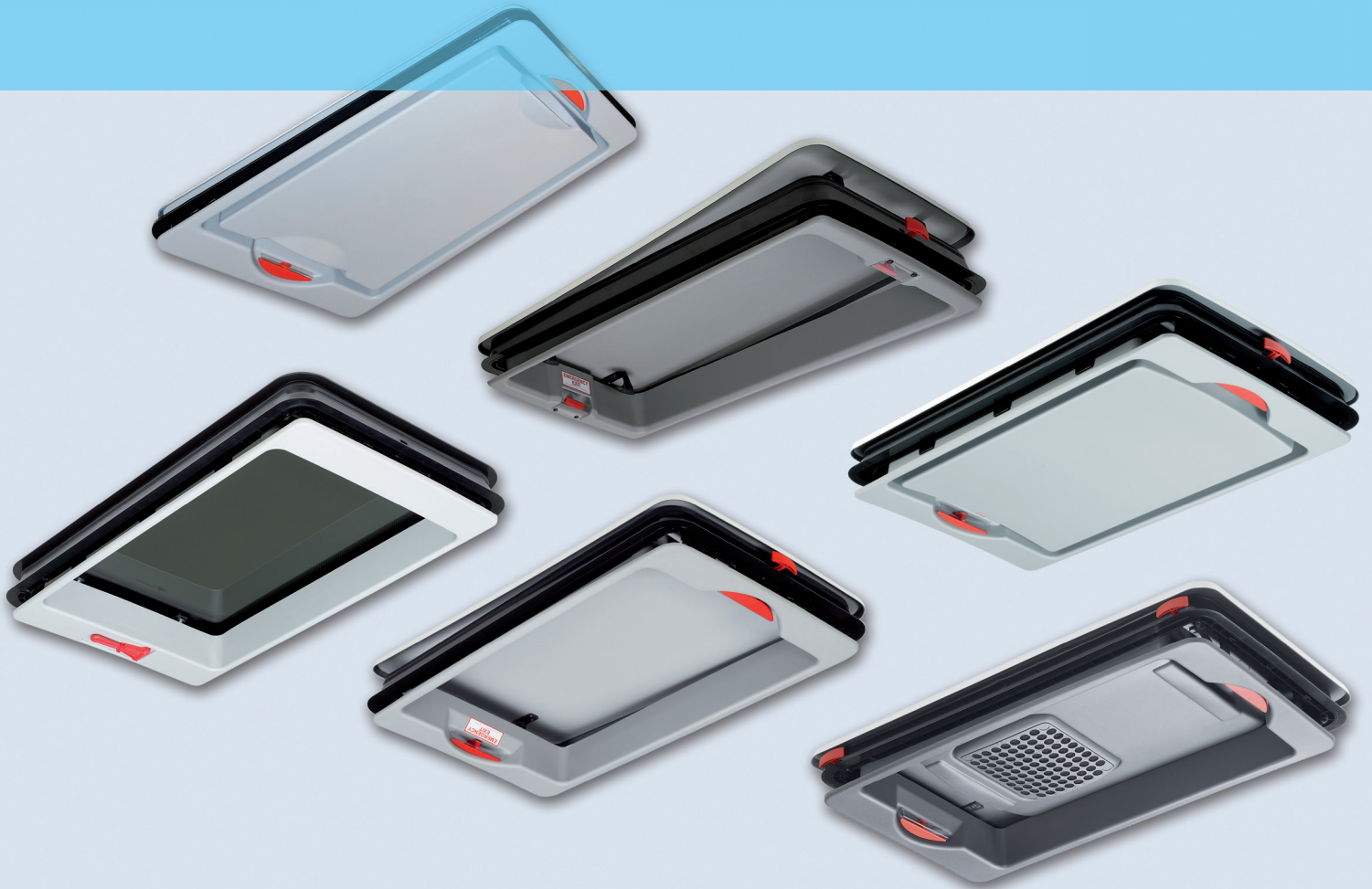


Emergency escape ventilation hatch

MODUS Line



A modular system for every requirement

Those seeking simple, reliable and economic solutions for roof hatches will find them in our Modus series. Manually or electrically driven, with a frame and cover made of glass or plastic or features like a powerful exhaust ventilator, which ensures a constant and quick air exchange at the highest level.

Whether City, Coach, Comfort or the new, simple-to-install Cool with its integral fan (200 m³/h): the Modus series easily provides an instant source of fresh air. Modus likewise complies with all the requirements of ECE R107.05.

HIGHLIGHTS



Low Life-Cycle Cost

- Maintenance free
- UV and weather proof materials
- No operation costs for ventilator hatch



Environmentally friendly

- No energy needed for standard ventilation
- Swift cooling when parallel with A/C and exhaust fan
- Optimized ventilation according to outside temperature



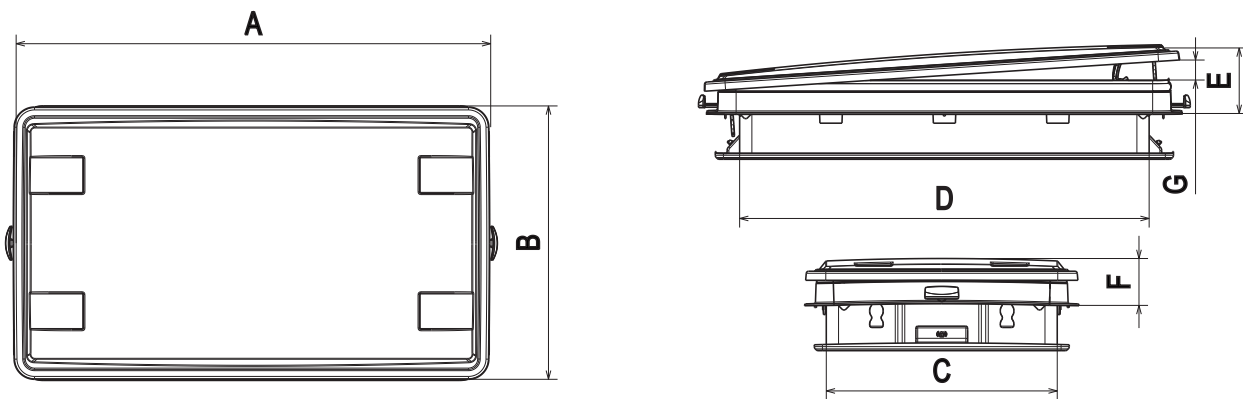
Comfort

- Ventilator boosts air exchange of the vehicle
- Manual or electrically operating remote control
- Standard on-off switches can be used



Options

- Dedicated driver unit option
- Integrated digital control unit
- Electric version has optional override



TECHNICAL DATA

	Modus Clear Modus Clear Comfort	Modus City Modus City Comfort	Modus Coach Modus Coach Comfort	Modus Cool Modus Cool Comfort
Cut-off (mm)	970 x 530	970 x 530	970 x 530	970 x 530
Dome (A x B, mm)	1042 x 599	1050 x 598 1055 x 598	1055 x 605	1080 x 600
Interior opening (C x D, mm)	504 x 802	510 x 890	510 x 1015 510 x 890	510 x 810
Height open / closed (E / F, mm)	132 / 72	142 / 92	132 / 92 147 / 92	160 / 115
Ventilation opening (G, mm)	60 60	20 50	40 50	40 50
Weight hatch (kg)	8.7 10.2	7.0 8.5	8.4 9.8	9.3 10.7
Weight inner trim (kg)	1.2	1.2	1.2	1.2 T=50
Hatch operation voltage (V)	- 24			- 24
Ventilator voltage (V)				12 / 24
Ventilator air displacement (m³)				> 200
Fuse hatch operation (A)	1.6 7.5			10 5
Fuse ventilator (A)				- Digital hatch control DHC, not integrated
Glazing Material Approval	UN ECE R43.01	-	-	-
Emergency Exit Approval	UN ECE R107.05	UN ECE R107.05	UN ECE R107.05	UN ECE R107.05
Flammability Approval	UN ECE R118.02	UN ECE R118.02	UN ECE R118.02	UN ECE R118.02
EMC Approval Hatch	- UN ECE R10.05	- UN ECE R10.05	- UN ECE R10.05	- UN ECE R10.05
EMC Approval Ventilator	-	-	-	UN ECE R10.05
CCAP	CCAP-GZ-5101:2020	CCAP-GZ-5101:2020	CCAP-GZ-5101:2020	CCAP-GZ-5101:2020

*) An average bus with an air volume of 75 m³ equipped with 2 Modus Cool hatches with an integrated ventilator at a capacity of 200 m³/h / unit exchanges the air in the bus in less than every 10 minutes. This meets even highest demands, e.g. German VDV 236 regulation (conditions may vary depending on the fresh air intake).