



SPHEROS

Roof Hatch, electrical emergency exit hatch

## ▶ Modus City Comfort



### Hatches / Fans

#### Electrical Hatch to the Modus City Bus family

MODUS CITY COMFORT is the electric extension to the very most commonly used manual roof hatch Modus City. The electric hatch is remotely operated. The new hatch is extremely fast in opening/closing time. The Comfort series hatches are also lighter in weight than the previous electric hatches and much more robust. All Modus Comfort Series hatches are controlled by the newly developed Digital Hatch Control system DHC.

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There is an ever growing demand for electrically operated hatches. City buses of today are mainly low-floor buses, which makes it very difficult to operate the roof hatches due to the height of the vehicle.

The completely new electric mechanisms are extremely fast and robust. Opening or closing time is about 1 second. Due to new development the hatch is up to 10 % lighter in weight than the previous electric hatches. Modus Comfort series hatches are operated with a Digital Hatch Control Unit, DHC.

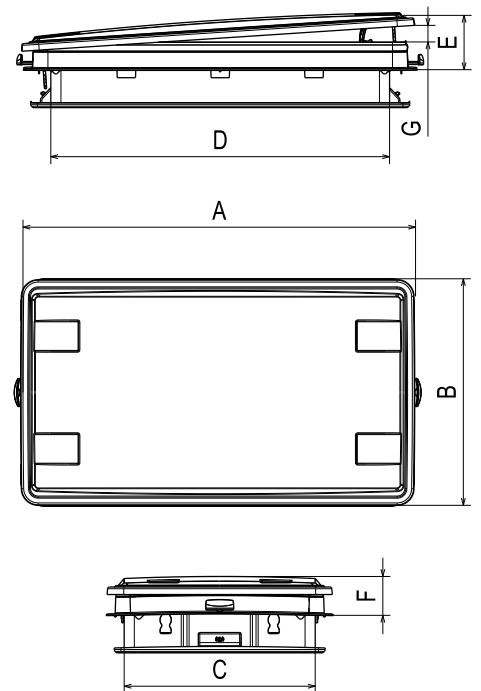
Roof Hatch ventilation consumes considerably less energy than an A/C unit. When A/C is not necessarily needed, the driver can use the roof hatches for ventilation and save energy. The driver can operate the hatches by a simple push of a button.

An electric hatch gives great comfort and control also to the driver. The driver can open or close the hatches as he wants or the hatch control can even be integrated to the A/C system through Multiplex. In Multiplex integration the windshield wipers can function as rain sensors and close the hatches automatically.

The hatches of today can be integrated as part of the total Climate Control Concept working together with the A/C unit to optimize the cooling power in the most efficient way. Full Multiplex integration is easy to carry out with today's electrical hatches due to their digital interface.

### Highlights:

- Cut-off size 530 x 970
- Ceiling R > 3000
- Ceiling T = 40 – 86 mm
- Mass basic hatch: 8,5 kg
- Mass inner trim: 1,2 kg
- UN ECE R.107 Emergency Exit
- UN ECE R.118 Flammability
- UN ECE R.10 EMC
- Fast mounting by bonding
- Maximum ventilation 50 mm
- Maintenance free
- Also available in electrical version
- Light weight
- Durable
- Economical
- Heat, cold insulation, dual shell dome



		A	B	C	D	E	F	G
Technical specifications:	Dimensions of Roof opening (mm)	Length of dome	Width of dome	Inner width	Inner length	Height (open)	Height (closed)	Opening
Modus City Comfort	530 x 970	1055	605	510	890	147	92	50