

Rooftop air-conditioning systems 19.0 to 36.0 kW cooling capacity

Perfect air-conditioning in midi buses



NEW

This range of modular rooftop air-conditioning systems is designed for midi buses. The high energy-efficiency and -saving is achieved by an intelligent control of the condenser fans and the compressor. Thanks to the user-friendly maintenance concept, servicing is easier and the life and efficiency of the components are longer.

Perfect comfort in all driving conditions is obtained by maintaining a constant supply of fresh air, even at the highest driving speeds. The heating option further increases passenger comfort. Installation is very fast and easy. The housings of these air-conditioning systems can be custom-painted to match the color of the vehicle.

- Air-conditioning systems with a cooling capacity up to 36.0 kW
- Compact and aerodynamic design
- High energy efficiency and innovative concepts
- High-quality and reliable components from proven series production
- Perfect comfort due to constant fresh air supply and optional heating function
- Fast installation and low maintenance concept

Model:

Cool Top 190 RT-C, Cool Top 190 RT-CXL, Cool Top 220 RT-C
Cool Top RTC 250, Cool Top RTC 300, Cool Top RTC 360



Truck



Light Vehicles



Bus



Rail



Off-Highway



Defense



Special Vehicles

Technical data

	Cool Top 190 RT-C	Cool Top 190 RT-CXL	Cool Top 220 RT-C
Nominal cooling capacity (kW)	19.0	19.0	22.0
Cooling capacity (kW) at $T_{amb} = 35^{\circ}\text{C}$, rel. humidity = 46 %, $T_{in} = 27^{\circ}\text{C}$	15.0	15.0	18.7
Heating capacity (optional) (kW)	20.0	20.0	20.0
Refrigerant	R134a	R134a	R134a
Nominal voltage (V)	12/24	12/24	24
Max. operation temperature ($^{\circ}\text{C}$)	50	50	50
Max. current consumption at 12/24 V (A) (with forced fresh air)	94/46	94/46	-/69
Max. volume flow of evaporator blower (m^3/h) (free blowing)	3,000 (3,680)	3,000 (3,680)	4,000 (4,800)
Fresh air (%)	0 – 25	0 – 25	0 – 25
Number of axial fans/radial blowers	3/4	3/4	3/4
Dimensions L x W x H (mm)	2,150 x 1,600 x 200	2,150 x 1,780 x 200	
Nominal roof radius (mm)	6,000*	7,500*	
Compressor (cm^3)	310	470	
Weight (kg)	75	78	80

	Cool Top RTC 250	Cool Top RTC 300	Cool Top RTC 360
Nominal cooling capacity (kW)	25.0	30.0	36.0
Cooling capacity (kW) at $T_{amb} = 35^{\circ}\text{C}$, rel. humidity = 46 %, $T_{in} = 27^{\circ}\text{C}$	20.0	23.0	28.0
Heating capacity (optional) (kW)	30.0		35.0
Refrigerant	R134a		
Nominal voltage (V)	24		
Max. operation temperature ($^{\circ}\text{C}$)	50		
Max. current consumption at 24V (A) (with forced fresh air)	76 (89)	85 (97)	101 (114)
Max. volume flow of evaporator blower (m^3/h) (free blowing)	4,000 (4,800)		6,000 (7,200)
Fresh air at 120 km/h (%)	0 – 20		
Number of axial fans / radial blowers	3/4	4/4	5/6
Dimensions L x W x H (mm)	2,500 x 1,988 x 210		
Nominal roof radius (mm)	8,500 / 15,000		
Compressor (cm^3)	470		560
Weight (kg)	138	143	154

* Different roof radius can be available on demand. Automatic control available as standard for all version.

The performance values of your application can differ from the nominal values.
Those depend on different conditions such as compressor, air ducts and climatic conditions.