

Siberian 16 / 18

Compact Roof Mount HVAC Unit

The Siberian is an economical inline compact roof mount air-conditioning system that has been developed to meet the varied demands for the global bus and coach markets. Two system sizes to suit most medium bus roof mount applications. Microchannel Heat Exchangers (MCHX) and multiple motor options for performance improvements, reduced weight, and enhanced reliability,

provides the customers with options to suit all conditions and applications for this size system. For the maximum passenger and driver comfort, the Siberian systems are coupled with BCC's state of the art driver operator control system. Multiple compressor options provide the complete HVAC package. Combined with BCC's electronics it provides easy operation.

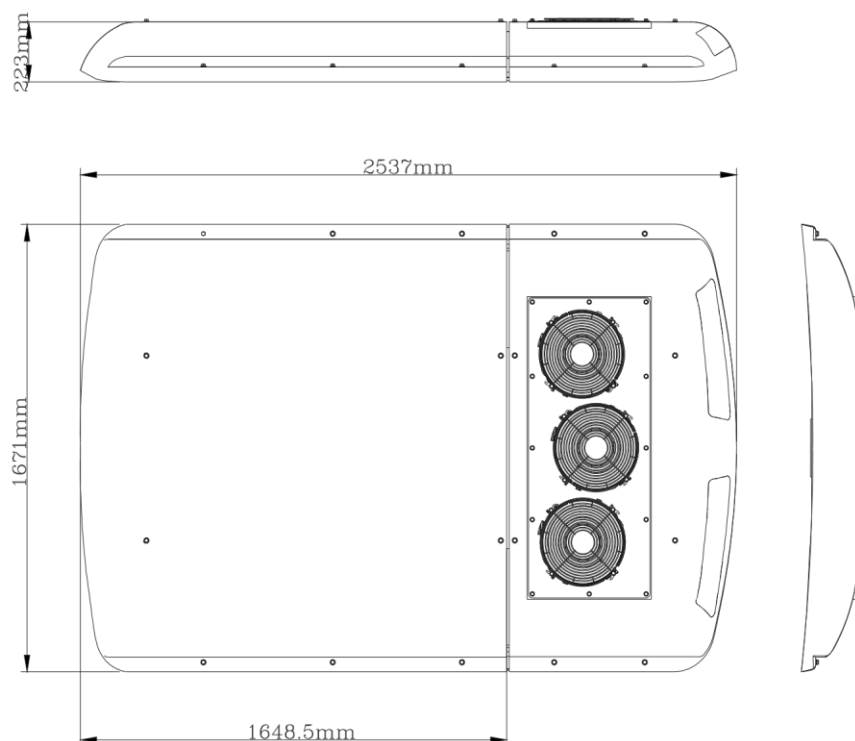


Features

- Long-Life Standard Brushless Motors
- Micro channel MCHX condenser coils
- R134a refrigerant with optimal system design
- Centre return air access
- Ecotemp Lite controller
- 2 cooling capacity variants
- Multiplex CAN compatible
- Multiple compressor options
- Air filter, filter drier, TXV accessible from return air opening

Benefits

- Reduced noise, less power, greater reliability, 40,000h service life
- Improved performance and lower weight
- Less refrigerant, lower cost
- Ease of access for maintenance and servicing
- Simplified for easy operation
- Can be used for different sized vehicles and climate zones
- Integrates into vehicle control system
- Customer choice of compressor
- Saves time for seasonal maintenance or other service



Technical Data

	Siberian 16	Siberian 18
Cooling capacity @ MAX ^[1]	20 kW (68,243 BTU; 17,196 Kcal/h)	24 kW (81,891 BTU; 20,636 Kcal/h)
Cooling capacity ARI ^[2]	16 kW (54,594 BTU; 13,757 Kcal/h)	18 kW (61,419 BTU; 15,477 Kcal/h)
Heating @ 7 gpm (100°F Δ T)	16 kW (54,594 BTU; 13,757 Kcal/h)	16 kW (54,594 BTU; 13,757 Kcal/h)
Length x Width x Height	2,200 mm x 1,640 mm x 190 mm	2,200 mm x 1,640 mm x 190 mm
Weight	85 kg	90 kg
Refrigerant	R134a	R134a
Airflow (Max)	4,400 m³/h (2,600 CFM)	4,400 m³/h (2,600 CFM)
Number of Blowers	4	4
Number of Fans	2	3
Current Draw 24v	48 A	50 A
Current Draw 12v	96 A	100 A

[1] Maximum cooling condition (MAX) ti 40 °C/ ta 35 °C/ 50%

[2] Nominal cooling condition (ARI) ti 27 °C/ ta 35°C/ 50%



Bus Climate Control

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