



## Siberian 16 & 18

# Economical compact roof mount HVAC unit

The Siberian family of compact rooftop air-conditioning system that has been developed and enhanced to meet the varied demands best suited to the global bus and coach market. Two system sizes to suit most medium bus rooftop applications. Microchannel Heat Exchangers (MCHX) and multiple motor options for performances 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 16 and 18 systems are coupled with MCC's state of the art driver operator control system. Multiple compressor options provides the complete HVAC package.



Siberian 16



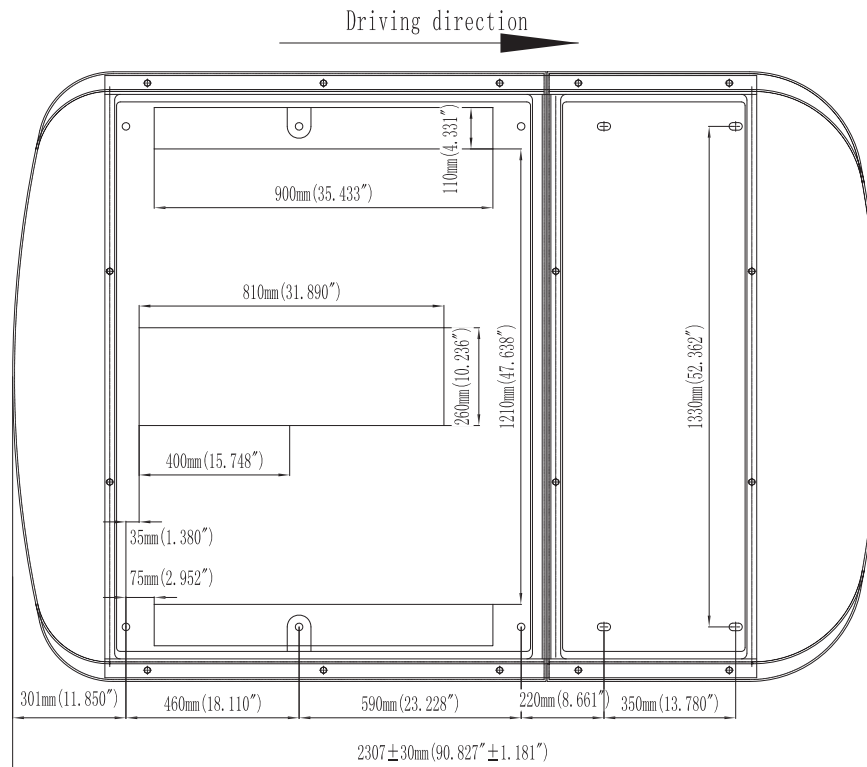
Siberian 18

### Features

- Motor options brushed and brushless
- Micro channel MCHX condenser coils
- R134a refrigerant with optimal system design
- Centre return air access
- Superior interior temperature control
- EcoTemp Lite controller
- Multiplex CAN compatible
- Easy access covers for service
- Multiple compressor options

### Benefits

- Reduced noise, less power, greater reliability
- Improved performance and lower weight
- Less refrigerant, lower cost
- Ease of access for maintenance and servicing
- Greater driver, passenger comfort and safety
- Simplified for easy operation
- Integrates into vehicle control system
- Access to motors and coils from side of vehicle
- Customer choice of compressor



## Technical Data

|                                       | Siberian 16                      | Siberian 18                  |
|---------------------------------------|----------------------------------|------------------------------|
| Cooling capacity @ max <sup>[1]</sup> | 68000 Btu/Hr (20kW)              | 82000 Btu/hr (24kW)          |
| Cooling capacity @ ARI <sup>[2]</sup> | 55000 Btu/Hr (16kW)              | 62000 Btu/hr (18 kW)         |
| Heating @ 7 gpm (100F Δ T)            | 55000 Btu/hr (16 kW)             | 55000 Btu/hr (16 kW)         |
| Length                                | 86.6" (2,200 mm)                 |                              |
| Width                                 | 64.6" (1,640 mm)                 |                              |
| Height                                | 7.5" (190 mm)                    |                              |
| Weight                                | 187 lbs (85 kg)                  | 198 lbs (90 kg)              |
| Refrigerant                           | R134a                            |                              |
| Airflow (Max)                         | 2,354 CFM (4,000 m3/h) free-blow |                              |
| Current                               | 48 A at 28 V - 96 A at 12 V      | 50 A at 28 V - 100 A at 12 V |

[1] Max conditions 95°F (35°C)/104°F (40°C)/50% RH

[2] ARI: 95°F (35°C) / 80°F (27°C) / 50% RH

