



## Electric Roof Mount A/C Everest 136e

# Parallel roof mount Air-Conditioning and ventilation system

MCC's newest family member Everest 136e completes the portfolio of compact and super efficient roof mount A/C systems designed to meet all OEM bus requirements.

The family offers very adaptable and flexible heating, ventilation and air conditioning solutions for best in class passenger comfort in transit, intercity buses and coaches.

The aluminum electric scroll compressors integrated into the unit which offers reduced weight, variable speed control. The wide modulation range allows efficient power management without having to cycle the compressor, leading to optimal energy use.

Noise, vibration and harshness (NVH) reduction was achieved by selecting a low NVH compressor, with special mount design and minimized compressor cycling.

This unique simply designed integrated cooled inverter drives the compressor with fewer components resulting in greater reliability.

Option to integrate with the vehicle management system (VMS) to allow for power management control between the electric vehicle management and air conditioning management has the everest 136e well above its class.

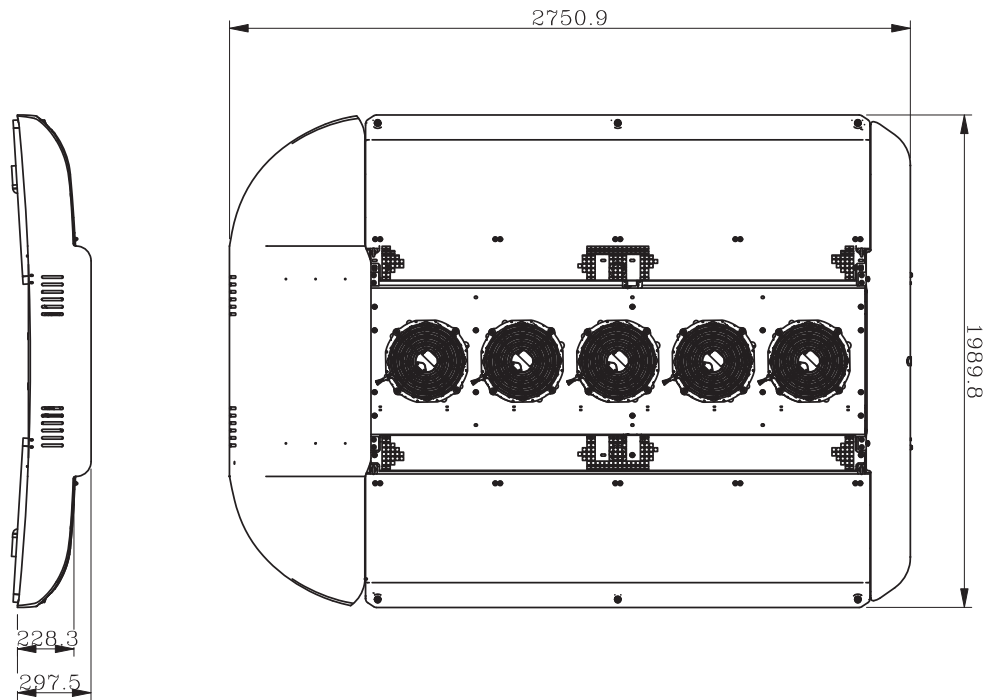


### Features

- Self contained, fully sealed, factory charged and tested
- Variable speed aluminum hermetic compressor with integral power drive
- Long life brushless fan motors
- Optimized for R134a refrigerant
  
- Optional VFD control
- Optional VMS integration
  
- MCHX coil application

### Benefits

- Sealed system means no leaking hoses, seals, or fittings
- Constant capacity at idle lowers time to pre-cool bus interior, light weight, long life and saving space
- Unmatched life cycle cost
- Best suited for high ambient and operates at lower pressure
- Proven variable speed compression technology optimizes capacity control as well as power consumption and maximizes efficiency over the life of the system
- Less refrigerants charge, environmental friendly



## Technical Data

Cooling capacity @ max <sup>[1]</sup>	109000 Btu/hr (32kW)
Cooling capacity @ ARI <sup>[2]</sup>	82000 Btu/hr (24 kW)
Glycol Heating @ 7 gpm (100F Δ T)	130000 Btu/hr (38 kW) / Electric Heating 54500 Btu/hr (16 kW)
Evaporator air capacity	3900 CFM (6600 m <sup>3</sup> /hr)
Length	108" (2751 mm)
Width	78" (1990 mm)
Height	11.7" (298 mm) max (at the compressor enclosure)
Weight	660 lbs (270 kg)
Refrigerant	R134a
Low voltage power consumption	100 A @ 26 VDC
High voltage power consumption <sup>[3]</sup>	12 kW (max)
OPTION: Refrigerant to glycol chiller	12000 Btu/hr (3.5 kW)

[1] Max conditions 95°F (35°C)/104°F (40°C)/50% RH  
 [2] ARI conditions: 95°F (35°C) / 80°F (27°C) / 50% RH  
 [3] Nominal w/o electric heat

