

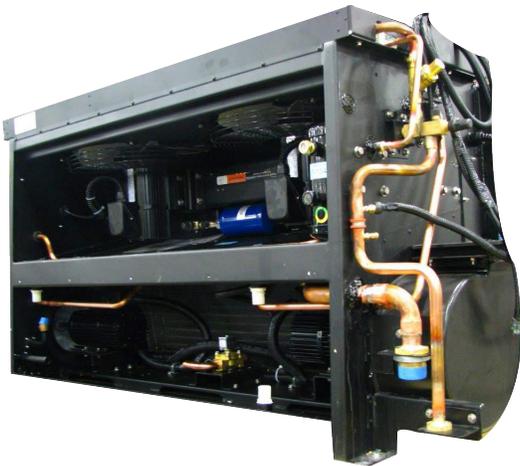


## Rearmount Air Conditioning System **Eco RM 35**

# Capacity, Reliability, and Serviceability

MCC Eco RM 35 unit, selected as preferred equipment by leading bus manufacturers, delivers significantly higher operating capacity and efficiency, less maintenance, longer

system life, and reduced engine loads and fuel consumption. Meets or exceeds all industry recognized specifications in both the heating and cooling modes.

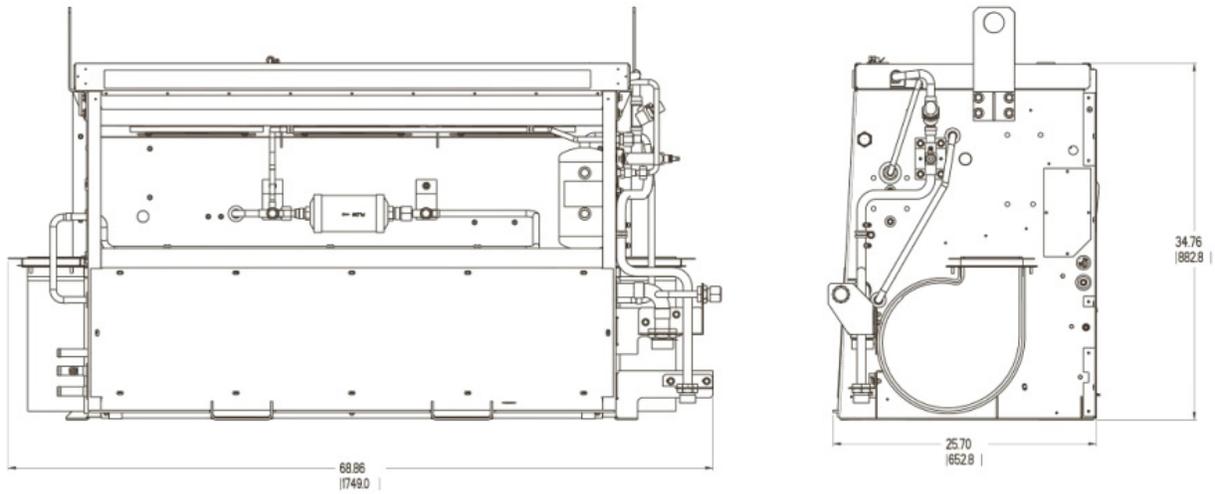


### Features

- Heavy duty fan motors
- Aluminium microchannel condenser
- Optimized for R134a refrigerant
- Solid-state electronic controls
- Aluminum frame
- Six-cylinder 41-CID (672 cm<sup>3</sup>) 05G compressor with housing-mounted clutch

### Benefits

- Lower life cycle costs
- Reduces weight, improves performance
- Best suited for high ambient and operates at lower pressure
- Longer service life
- Rugged and lightweight
- Exclusive 05G six-cylinder compressors with standard unloading for fuel saving



## Technical Data

Cooling capacity	108000 Btu/hr (32 kW) ARI <sup>[1]</sup>
Heating capacity	95000 Btu/hr (28 kW) assumes coolant flow rate at 8.0 GPM (1817 l/h) and 100°F
Weight	380 lbs (172 kg)
Refrigerant	R134a
Air flow rate	High 2400 CFM (4078 m <sup>3</sup> /h) Low 1350 CFM (2294 m <sup>3</sup> /h)
Current	105 A @ 24 V dc
Dimensions (W x D x H)	68.86" (1749.0 mm) x 25.7" (653 mm) x 34.76" (882.8 mm)

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





## Electric Rear Mount A/C **Eco RM 35e**

# HVAC with forward thinking design

Mcc's Eco RM 35e rear mount electric series HVAC system delivers significantly higher operating capacity and efficiency, considerably less maintenance, measurably longer system life and reduced engine loads and fuel consumption than other similar products. It meets or exceeds all industry recognized specifications in both the cooling and heating modes. All this

with using non-Ozone depleting standard HFC R134a. Proven under the most demanding conditions and backed by a nationwide aftermarket service network second to none, MCC Eco RM 35e systems offer the lowest life cycle cost in the industry.

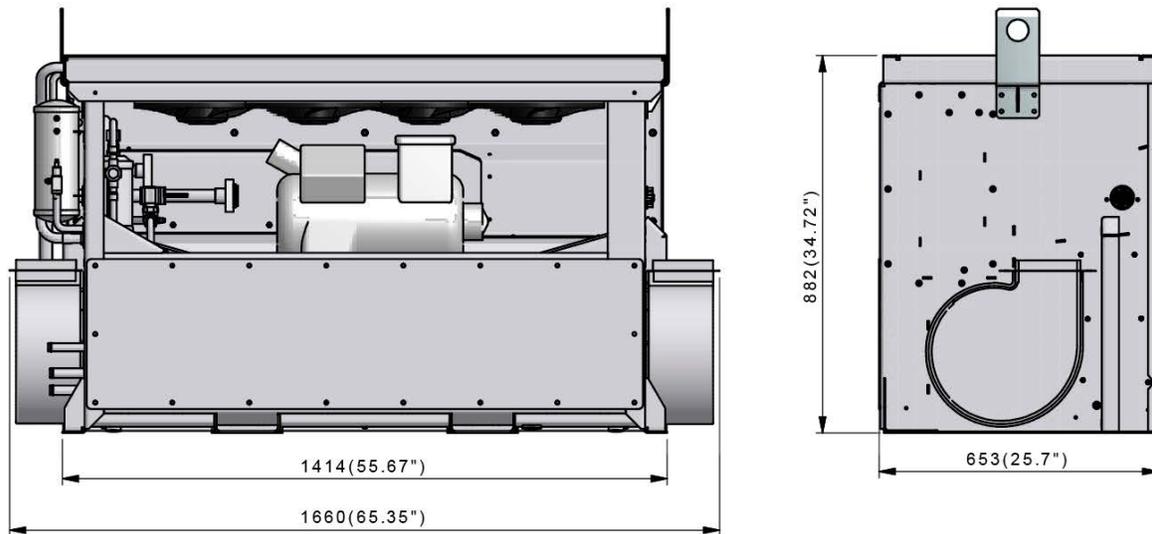


### Features

- Application-proven back variable speed semi-hermetic compressor
- One piece construction for simplified installation
- Self contained, fully sealed, factory charged and tested
- No hoses, belts or clutches to maintain
- Heavy duty brushless fan motors
- Reliable CAN enabled microprocessor-based controls
- ZERO ozone depleting, high efficiency HFC R134a
- Heavy duty aluminum micro-channel condenser
- Heavy duty aluminum fin/copper tube evaporator and heater coils
- Four-speed condenser fan motors (brushless)
- Three-speed evaporator fan motors (brushless)

### Benefits

- Wide range of capacity control with optimum range efficiency
- Low production line assembly cost
- Higher reliability and lower down-time
- Lower life-cycle cost
- Versability in connection and reporting
- Reliable CAN enabled microprocessor-based controls
- Lower fuel consumption and environmental impact
- Lower life-cycle cost
- Lower fuel consumption and environmental impactt
- Better control over comfort and noise



## Technical Data

Cooling capacity(max) ARI <sup>[1]</sup>	92000 Btu/hr (27 kW)
Cooling capacity(rated) ARI <sup>[1]</sup>	85000 Btu/hr (25 kW)
Heating	119000 Btu/hr (35 kW) assumes coolant flow rate at 5.3 GPM (1200 l/h) and 150F (83°) TD
Refrigerant	R134a
Air flow rate	High 2250 CFM (3800 m <sup>3</sup> /h) Low 1550 CFM (2600 m <sup>3</sup> /h)
Voltage	400 V / 3-ph / 50 Hz (480 V / 3-ph / 60 Hz) – nominal – other voltages are available
Dimensions (W x D x H)	65.35" (1660 mm) x 25.7" (653 mm) x 34.76" (882 mm)
Weight	625 lbs (283 kg)

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



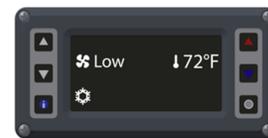


## Rear Mount Air Conditioning System **Eco RM 35.II**

# Capacity, Reliability, and Serviceability

MCC Eco RM 35.II is the latest generation Rear Mount that delivers significantly higher cooling capacity, efficiency and air flow while reducing maintenance.

The electronics have been upgraded with our latest EcoTemp controller.



**EcoTemp Controller**

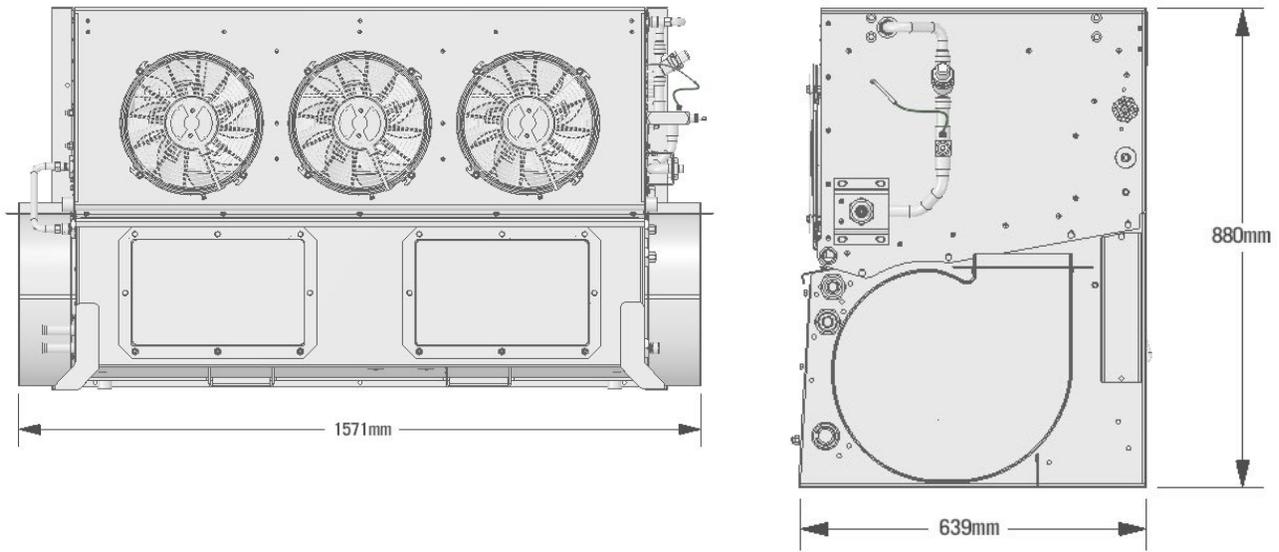
- Industry leading OLED display with wide viewing angle supports unlimited graphics and text
- Full system messages for easy diagnostics
- Programmable platform that can be easily customised to suit customer requirements
- Solid state "Smart MOSFET"
- Standard J1939 CAN Bus allows easy upgrade of control FLASH memory

### Features

- Optimized for R134a refrigerant
- Larger MCHX condenser coil
- All aluminium one piece assembly
- Aluminium and copper tube evaporator and heater coils
- Brushless condenser and evaporator motors
- Simple plumbing and easy access to service components
- Relocated condenser fans
- Brushless evaporator fans with 10" wheels
- Improved receiver dryer design
- Six-cylinder 41-CID (672 cm) 05G compressor with housing-mounted clutch

### Benefits

- Best suited for high ambient and operates at lower pressure
- Lower weight, improved performance, improved heat rejection by 5% and reduced refrigerant charge
- Reduced weight for less stress on bus
- Longer service life
- Low life cycle cost
- Reduces leak potential and improves access for repair or maintenance
- Improved airflow by 3.5%
- Less noise, increased evaporator airflow and efficiency
- Improved corrosion resistance
- Most reliable compressor in the industry



## Technical Data

Cooling capacity	109000 Btu/hr (32 kW) ARI <sup>[1]</sup>
Heating	106000 Btu/hr (31 kW) assumes coolant flow rate at 8.0 GPM (1817 l/h) Q80
Refrigerant	R134a
Air flow rate	High 2000 CFM (3398 m <sup>3</sup> /h) Low 1400 CFM (2378 m <sup>3</sup> /h)
Current	105 A @ 24 V dc
Dimensions (W x D x H)	61.8" (1571.0 mm) x 25.1" (639 mm) x 34.6" (880 mm)
Weight	401 lbs (182 kg)

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