



DATA SHEET 1602

ECM Mobile Evaporative Cooler

The ECM evaporative cooler is manufactured by EcoCooling in an ISO 9002 quality environment. The cooler is designed to meet all European electrical, water and other safety legislation.

- The ECM mobile evaporative cooler is designed for use internally.
- It cools air through evaporation of water and has an integrated water circulation control system.
- The unit can handle up to 7,000m³/hr of air in either cooling or ventilation mode.
- The fan can run at two speeds and can be easily adjusted.
- The cooler does not require a ducted air supply, but must be situated in a well ventilated space.

Material

The cabinet is manufactured in stainless steel.

Dimensions

Installed	1109 x 1142 x 748 mm
Delivered	1330 x 1150 x 770 mm

Weight

Dry	78kg
Full sump	168kg

Electrical Supply

Voltage	1~ 230V 50Hz
Current	
Start	6 A
Running	1.7 A
Power	
Start	1.4 kW
Running	0.4 kW
Recommended Protection	13A Fuse Upstream RCD

Air Routes

Intake Size (h x w)	
Rear	645 x 805 mm
Side	400 x 805 mm
Supply Size	595 x 595 mm
Supply Type	Double Deflection Grille

Water Requirements

Water Supply	
Water quality	Fresh potable water only
Sump volume	90l maximum
Fill Modes	Manual or Automatic
Automatic Feed	
Minimum supply rate	300 l/hr minimum
Minimum pressure	1 bar
Maximum pressure	7 bar
Connection	15 mm hose fitting
Control	Float switch operation
Drain	
Operation	Manual
Drainage options	Gravity or Pumped
Connections offered	1/2" BSP male thread
Control	Operate in cooling mode with upper drain bung removed to pump sump dry



Cooling Pads

Manufacturer	Munters
Material	CELdek® 5090
Saturation Efficiency	85-89%
Quantity	3
Dimensions	
Side	450 x 700 x 100 mm
Rear	830 x 700 x 100 mm
Surface Area	1.2 m ²

Circulation Pump

Flow Rate	30l/min (intermittent)
Power	50W
Voltage	220-240V
Pump Type	Centrifugal
Motor Type	Encapsulated shaded pole
Transmission	Magnetically coupled
Protection	Auto-reset Overload

Fan

Maximum Flowrate	7,000 m ³ /hr
Max Power	250W
Voltage	220-240V

User Control switches

- Fan power
- Fan speed
- Cooling mode

Maintenance

- End of day drain recommended
- Regular cleaning of sump

Contact the manufacturer for application specific advice

Warranty

2 years parts only




ECM Mobile Evaporative Cooler


General Overview

- All stainless steel construction
- CelDEK pads - High efficiency 85%
- Quality double deflection grill
- Easy clean
- High air flow
- Easy drain – facility for gravity or pumped drain
- Easy maintain and Repair
- Duct connection facility
- Single phase, two speed 700W motor
- Direct drive – no belts or pulleys
- Low profile – can fit through single door
- Safe – fully guarded
- Humidifier option
- Built in lifting handles
- Built in tie down points
- Strong castors, two fixed, two swivel/brake
- Electronic pump Run dry protection
- 2 year warranty
- Fully draining sloping sump
- 90L sump
- Low voltage controls
- IP65 main control box

User Control Interface

- Power On/Off
- Fan Speed
 - High
 - Low
- Cool Mode
 - Activates water system






Power cable pre-fitted to the cooler

Two-speed fan to drive airflow


Double Deflection grille at outlet allows for easy adjustments to the direction of airflow

Swivel Castors for ease of movement
Brakes should be engaged when the cooler is not being moved




Fixing eyes for safe transportation

The sump should be filled with fresh potable water only. Fill manually via the lid shown below on the right, or automatically via the hose connection highlighted in the image on the left.



Low level drain point for gravity sump drain.



High level drain point for pumped sump drain

Lifting handles at four corners for safe manual handling