

# Large & small External evaporative coolers

## Energy efficient cooling of people & buildings

- The ECPL range includes top, side or down discharge configurations of the large EcoCooler.
- It cools air through evaporation of water as part of a balanced ventilation system.
- It includes an integrated electronically commutated fan with speed control to drive air flow.
- The cooler can handle 13,500m<sup>3</sup>/hr or 18,000m<sup>3</sup>/hr of fresh air dependent on its configuration.
- All air supplied to the area being cooled must be extracted or exhausted from it.



### Configuration options:

#### Large external evaporative coolers



Down Flow (18,000m<sup>3</sup>/hr) Side Flow (13,500m<sup>3</sup>/hr)  
Top Flow (18,000m<sup>3</sup>/hr)

#### Small external evaporative coolers



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### Technical specifications:

#### Large external

	Down Flow	Side Flow	Top Flow
<b>Size (H x W x D)</b>	1300mm x 1250mm x 1250mm	1300mm x 1368mm x 1250mm	1400mm x 1250mm x 1300mm
<b>Weight</b>	Dry: 147kg Wet: 232kg	Dry: 148kg Wet: 233kg	Dry: 150kg Wet: 195kg
<b>Cabinet</b>	Injection moulded from polypropylene, UV stabilised and corrosion free		
<b>Electrical Requirement</b>	3~ 400V 50Hz, 6.25A (soft start). External isolator fitted		
<b>Water Requirement</b>	Water supply minimum 1 bar max 7 bar. Minimum supply 500l/hr		
<b>Warranty</b>	Two years parts only warranty subject to the cooler being maintained by EcoCooling approved service engineers		

#### Small external

	Down Flow (Standard)	Side Flow	Top Flow
<b>Size (H x W x D)</b>	950mm x 1150mm x 1150mm	950mm x 1290mm x 1150mm	1092mm x 1150mm x 1150mm
<b>Weight</b>	Wet: 120kg	Wet: 115kg	Wet: 115kg
<b>Cabinet</b>	Injection moulded from polypropylene, UV stabilised and corrosion free		
<b>Electrical Requirement</b>	240v 50Hz. 12A start 8A running. External isolator fitted		
<b>Water Requirement</b>	Water supply minimum 1 bar max 7 bar. Minimum supply 500L/hr		
<b>Warranty</b>	Two years parts only warranty subject to the evaporative cooler being maintained by EcoCooling approved service engineers		

### Control

A 2-speed wall control is supplied as standard with the evaporative cooler, this is normally connected to a thermostat to give automatic control. There is also a facility to connect to a timer, humidistat and fire alarm contact. An internal relay is also available to drive an external fan. The controller provides an integrated commissioning and maintenance cleaning sequence which provides a fault alarm code.

### Modes of operation



**Ventilation Mode:** In ventilation mode, the water circulation system is not in operation. The coolers supply fan is used to bring external ambient air into the building.



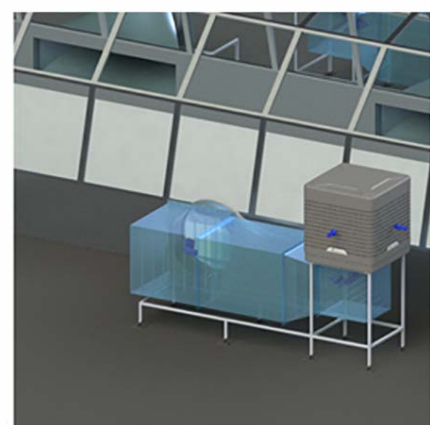
**Cooling Mode:** In cooling mode, the water circulation system is in operation and the cooling pads are wetted. The evaporation of water from the pads results in a reduction in air temperature.

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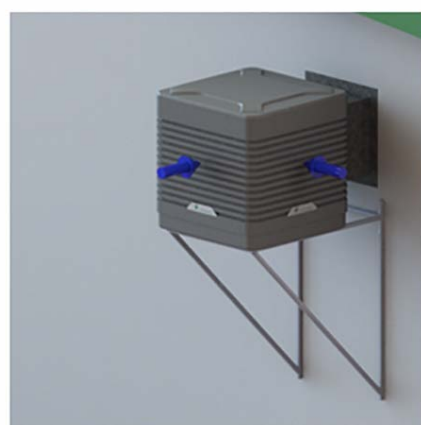
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### Installation examples:

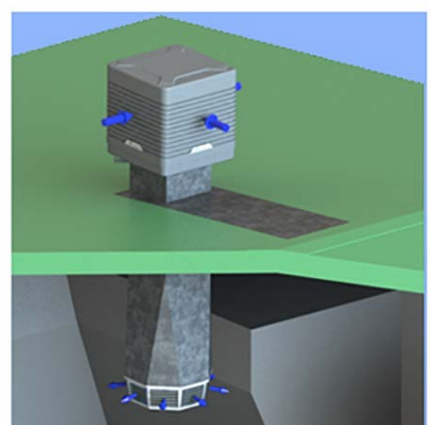
The external evaporative cooler range is ideal for industrial and commercial environments which require blanket or spot cooling.



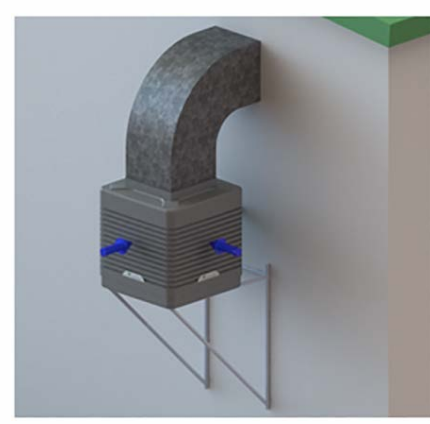
Down flow configuration



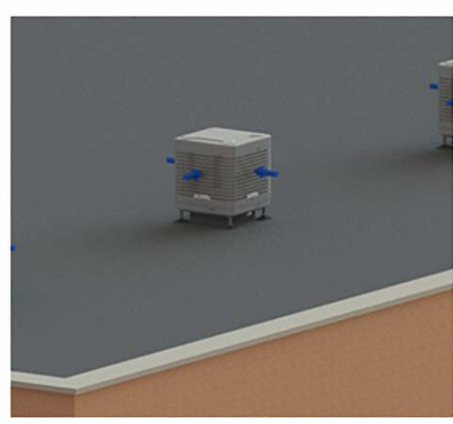
Side flow configuration



Down flow configuration with 8-way plenum



Top flow configuration



Down flow configuration  
Roof mounted units



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