HARRY TAYLOR
Celebrating 95 Years

INDUSTRIAL HEATING SERVICES

EVAPORATIVE COOLING SOLUTIONS

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 and integrated electronically commutated fan with speed control to drive air flow.
- The cooler can handle 13,500m3/hr or 18,000m3/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^3/hr) Side Flow (13,500m^3/hr)

Top Flow (18,000m^3/hr)

Small external evaporative coolers

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Technical specifications:

Large external

	Down Flow	Side Flow	Top Flow
Size (H x W x D)	1300mm x 1250mm x 1250mm	1300mm x 1368mm x 1250mm	1400mm x 1250mm x 1300mm
Weight	Dry: 147kg Wet: 232kg	Dry: 148kg Wet: 233kg	Dry: 150kg Wet: 195kg
Cabinet	Injection moulded from polypropylene, UV stabilised and corrosion free		
Electrical Requirement	3~ 400V 50Hz, 6.25A (soft start). External isolator fitted		
Water Requirement	Water supply minimum 1 bar max 7 bar. Minimum supply 500l/hr		
Warranty	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
Size (H x W x D)	950mm x 1150mm x 1150mm	950mm x 1290mm x 1150mm	1092mm x 1150mm x 1150mm
Weight	Wet: 120kg	Wet: 115kg	Wet: 115kg
Cabinet	Injection moulded from polypropylene, UV stabilised and corrosion free		
Electrical Requirement	240v 50Hz. 12A start 8A running. External isolator fitted		
Water Requirement	Water supply minimum 1 bar max 7 bar. Minimum supply 500L/hr		
Warranty	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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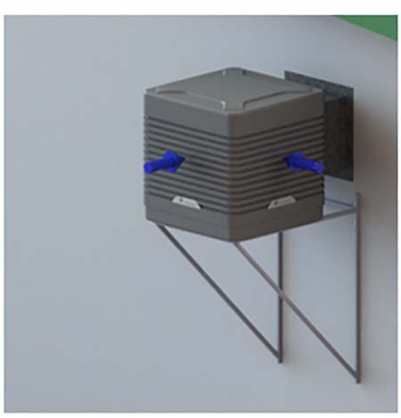
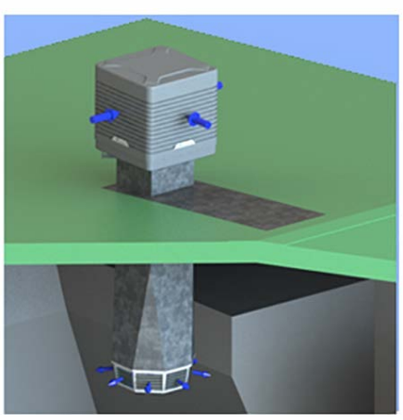
Installation examples:

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

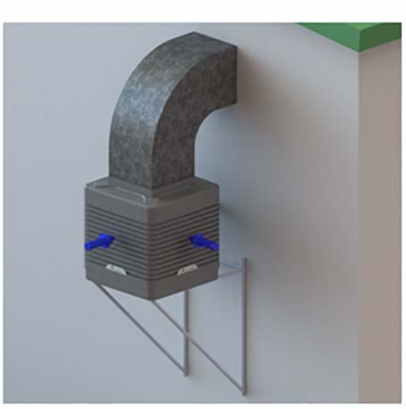
Down flow configuration



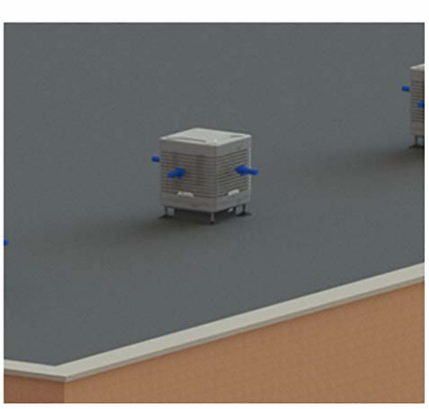
Side flow configuration



Down flow configuration with 8-way plenum



Top flow configuration



Down flow congifuration
Roof mounted units

CARBON TRUST
Making business sense of climate change

Harry Taylor Southern office:
Kitsons works, Aylesbury Road,
Bromley, Kent, BR2 OQZ, UK

Southern office tel: 020 8464 0915
southernoffice@harrytaylor.co.uk

Harry Taylor Northern office:
Guide Bridge Mill, South street,
Bromley, Kent, BR2 OQZ, UK

Northern office: 0161 308 4550
northernoffice@harrytaylor.co.uk

Harry Taylor
www.harrytaylor.co.uk