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**Climate Wizard CW-P15**





## Next generation, indirect evaporative air conditioning CW-P15

Climate Wizard is the global leader in delivering hyper-efficient cooling technology that covers an exceptionally large range of flexible configurations in a wide range of industry applications.

The latest Climate Wizard model provides new installation advantages, to optimise rooftop footprint and provide more install options.

### HYPER-EFFICIENT BENEFITS

- Vastly reduce cooling costs (retrofit or new install)
- Improve the IAQ (Indoor Air Quality) with 100% outside air
- No moisture added
- Cooling performance increases when air temperature rises
- Climate Wizard's cooling performance can rival that of refrigerated systems, using up to 80% less energy

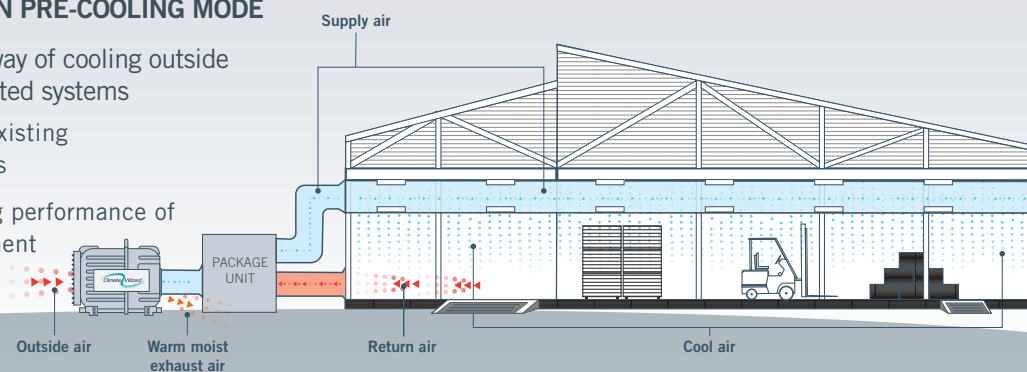
### NEW FEATURES

- UV-Proof Polymer shell & structure for withstanding extreme weather conditions: light, compact & stylish
- Integrated air filtration system with washable pleated panel filters or optional disposable type.
- Easy-lift crane lifting points
- Double fan allows more flexibility and better control
- Single phase electrical supply
- Can be installed side-by-side on either side, all maintainable components can be accessed front or back

### OPTION TO INSTALL IN PRE-COOLING MODE

A super cost effective way of cooling outside air required by refrigerated systems

- Extend the life of existing refrigerated systems
- Improve the cooling performance of refrigerated equipment





## McDonald's Store Pimpama, Queensland

### McDonald's Pimpama benefits from energy-efficient solution that also delivers fresh air to the store

The McDonald's franchisee at Pimpama was looking for an energy-efficient solution for their store operating 24/7. The design brief stated that the ambient design temperatures at Pimpama could reach 33.5°C dry bulb/ 26°C wet bulb, with roof temperatures exceeding 45°C dry bulb, as the client required consistent cooling for a pleasant indoor environment.

The Climate Wizard technology offered a superior energy efficiency ratio over standard refrigerated cooling systems. It also allowed for conditioned fresh air to be delivered directly to staff work stations and to public areas.

Two Climate Wizard model CW-P15 air conditioners were installed; one servicing the kitchen work stations while the other servicing the burger bar & front of house area. Comfortable temperatures were maintained with fresh air supplied directly to the required areas.

Climate Wizard works in conjunction with the refrigerated cooling systems, reducing the heat load from fresh

air while not adding any moisture to the conditioned air. This meant reduced operational costs to the McDonald's franchisee coupled with the ability to maintain comfortable environment inside the store for its customers and its staff.

With such a positive feedback, more McDonald's franchisees will be considering upgrading their cooling systems to include Climate Wizard.

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#### TYPICAL PROJECT BENEFITS COULD INCLUDE:

- Dramatic reduction in energy consumption
- Fast payback on installation
- Retrofit or new installation
- Engineered to humid climates
- Low maintenance cost and long life equipment



## HOW IT WORKS

Climate Wizard indirect evaporative air conditioners use a hyper-efficient counter-flow heat exchanger to produce 100% fresh, cool, outside air, with no added moisture. The core is an air-to-air heat exchanger consisting of alternating dry and wet channels.

1. Hot outside air enters the cooler and the fan drives the fresh air through the dry channels.
2. On exiting, some of the air flows into the building and the remainder is forced back through the wet channels.
3. Air passing through the wet channels is cooled by water evaporation and cools the channel surface, before being exhausted as warm, moist air.
4. The temperature of the fresh air passing through the adjacent dry channels is reduced and this cooled air is then transferred into the building without any added moisture.

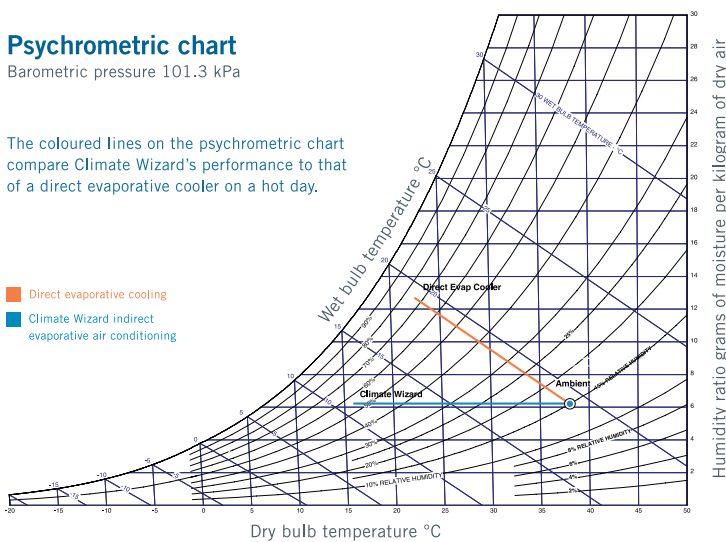


## Psychrometric chart

Barometric pressure 101.3 kPa

The coloured lines on the psychrometric chart compare Climate Wizard's performance to that of a direct evaporative cooler on a hot day.

- Direct evaporative cooling
- Climate Wizard indirect evaporative air conditioning



## CW-P15 TECHNICAL SPECIFICATIONS

- Exceptional NATA (ISO 17025) certified cooling performance
- High efficiency inverter drive fan motors
- Proven water management system
- Thermostatic automatic or manual operation
- Sound reduction outlet ducting
- Easy installation
- BMS interface as standard with analogue and digital inputs
- Touch screen MagIQtouch Controller (Optional), wall controller or switch plate

Nominal cooling capacity*	24 kW
Rated airflow	1,100 l/s at 140 Pa
Max. external static pressure	250 Pa
Max. operating temperature	55° C
Power requirement	1.9 kW
Electrical supply	1-phase, 200-240 V, 50 Hz
Water supply	20 L/min delivered at 100 kPa, 800kPa max
Supply air configuration	Side discharge
Supply fan	1x sickle-bladed, airfoil profiled impellor with directly coupled inverter motor
Exhaust fan	1x sickle-bladed, airfoil profiled impellor with directly coupled inverter motor
Water circulation pump	1 x 240 V electric pump
Water management	Low voltage catalytic chlorinator and salinity probe
Drainage	1 x 240 V electric pump
Heat exchange core	3 x Climate Wizard patented counter-flow heat exchanger cores
Air filtration	6 x G4 pleated washable filters with metal frames or optional disposable type
Water reservoir	One piece, moulded polymer, 47 L
Shipping dimensions	2050 mm (L) x 1500 mm (W) x 1420 mm (H)
Dimensions	1960 mm (L) x 1440 mm (W) x 1285 mm (H)
Weight	239 kg (shipping) - 335 kg (operating)

Note: specifications subject to change. \*Tested in accordance with ASHRAE 143 conditions of 38.0 °C db / 21.0 °C wb. Stand alone cooling capacity may be lower, depending on application.

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