

Enviro-Magic

– green industrial air conditioning
that's out of this world, but doesn't cost the earth

Cooling large industrial buildings presents unique challenges. Seeley International's latest cooling innovation, the Breezair Enviro-Magic, answers all of those challenges!

Made of lightweight, durable polymer, the Enviro-Magic features inverter drive technology so it delivers powerful, energy-efficient cooling at just a fraction of the conventional cost of power. Also, it features all of the exciting innovative functions that you've come to expect from Seeley International's Breezair products – such as advanced humidity monitoring and control, as well as its water management system, that by comparison, delivers incredible water savings.

Inverter drive to enable efficient variable speed control, minimising power usage and increasing efficiency, at a fraction of the conventional cost of power.

Thermostatic control to automatically adjust building temperature and prevent running the cooler when not necessary, reducing energy and water consumption.

Light weight polymer and stainless steel construction to eliminate corrosion and increase cooler life.

Water salinity management to minimise water usage and extend Chillcel life.

Clean and Dry function, Pad Flushing function and natural Chlorinator to keep water healthy and extend life of evaporative media.

Automated watermiser drain function.



High performance Chillcel evaporative medium, improving long term operating efficiency of the cooler.

Efficiency

The Breezair Enviro-Magic is like no other evaporative cooler. Designed using computer modelling to optimise efficiency and performance, it delivers up to 7500l/sec @ 100Pa duct pressure, and uses our state-of-the-art inverter motors.

In a world-first approach, the Breezair Enviro-Magic uses high-efficiency axial fan modules in conjunction with venturis and turning vanes to reduce cooler power consumption and minimise noise. Fan modules are inclined to improve airflow through the cooler.

The inverter motor technology delivers greatly increased operating efficiency, particularly at lower speeds, which means remarkably reduced seasonal running costs.

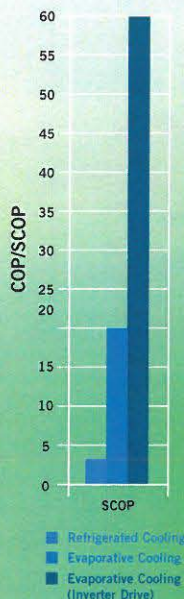
Huge Energy Savings due to optimisation of inverter motor technology

The Coefficient of Performance (COP) value is an effective method of comparing the operating efficiency of different cooling systems.

$$\text{COP} = \frac{\text{Cooling Output kW}}{\text{Input Power kW}}$$

Seasonal COP or SCOP takes into account the actual operating performance of a cooler in real climatic conditions, over a season.

Breezair's inverter drive technology increases the operating efficiency of evaporative coolers when the system is running on low speeds, due to reduced motor losses, thus delivering amazing increases in SCOP values.



Convenience

Because it's lighter than other industrial coolers, the Enviro-Magic is easier (therefore cheaper) to install. That also means it can go where others can't – it's perfect for roof structures that are unable to support the weight of large metal commercial coolers.

Its modular design means the Breezair Enviro-Magic can be easily disassembled for handling and quickly reassembled by installers, if necessary. And, its lower centre of gravity makes it much easier to lift and manipulate on a roof.

Designed to look good

The ultra-low-profile styling means the Breezair Enviro-Magic can seamlessly integrate with any roofline. This is perfect where the building zoning regulations require roof mounted equipment and services to be located behind parapet walls.

Control features

The Breezair Enviro-Magic control features include:

- ≡ Control of multiple coolers from the one station
- ≡ Seven-day programming
- ≡ Humidity and Temperature Control
- ≡ PLC / Building Management System compatible
- ≡ Fault indication diagnostics
- ≡ External damper and exhaust fan control

The Enviro-Magic is designed to operate on a wide range of power supply voltages and frequencies, so as to operate in all global markets.

Durability

The polymer and stainless steel construction eliminates corrosion, guaranteeing much longer product life. Also, product maintenance is reduced through features such as salinity monitoring, advanced humidity monitoring and control, water chlorination and advanced motor drive technology.

Regulatory compliance

The Enviro-Magic product is designed to meet CE and UL approval requirements.

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