



Lower electrical consumption and improved comfort, retrofitting the air cooling system with brand new Breezair evaporative coolers

Supplier: Australair
Ecoclimatización

Design Engineer: Australair
Ecoclimatización

Gestamp is Spanish multi-national engineering company, an international group dedicated to the design, development and manufacture of metal automotive components.

The company counts over 100 production plants in 21 countries.

Project requirements

The multi-national automotive components manufacturer was looking for a way of improving thermal comfort and ventilation inside their industrial plant located in Linares, Southern Spain.

The plant consisted on three buildings of the same shape, 32 m wide x 176 m long; the total area to be cooled was then 16,896 m².

Solution

The company was not new to evaporative cooling technology. In fact, the plant had metal evaporative coolers installed for already 10 years. Australair was first contacted for maintenance and servicing of those evaporative coolers. After several assessments, they found out that they were so damaged that maintenance was not possible anymore without losing cooling effectiveness.

The management, together with the design engineer, decided then to totally replace the old units with brand new polymer made Breezair evaporative coolers.

Installation

Old evaporative coolers were wall mounted, but with easy access from the close roof for service & maintenance purposes.

The management chose TBS 580 model with axial fan & MagIQtouch controller to control the whole system. Due to the big dimensions of the building, Australair

installed 60 Breezair evaporative cooling units, both wall mounted & roof mounted.

Results

The Andalusian hot temperatures, that could overcome 40°C on Summer days, were dropped by several degrees, to obtain an internal temperature of more comfortable 24-26 °C. The old evaporative coolers were completely removed, since Breezair units were totally taking over the job.

Electrical consumption has also improved, compared to the previously installed units, saving 67% on energy and running costs.

Benefits

Industrial and commercial buildings usually have heat issues. Air conditioning might seem the obvious solution, but it is expensive to install and maintain; and requires doors and windows to be kept shut. As outside temperatures increase, buildings with inadequate ventilation become unbearably hot and stuffy.

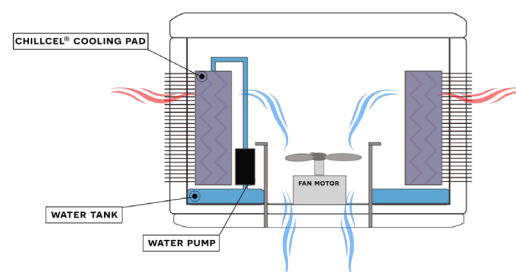
Easy to install and maintain, Breezair evaporative coolers are the best solutions when cooling large and semi-open areas. Running only with water and electricity, they use up to 87% less energy than conventional air conditioning, thus resulting in a significant saving in running costs.

Drawing 100% fresh air from outside, evaporative coolers offer a great health advantage over refrigerated air conditioning, which recirculates the same stale dry air over and over.

How it works

1. Hot outside air is pumped through water soaked pads
2. As the air blows through the pads, water is evaporated and the heat in the air is absorbed
3. A fan then pushes the cool air through a ducting system, which then lets the cool air inside the whole building

Breezair cooling units feature a patented fan: they can also be used in fan mode only (with no water), to blow fresh air through the vents.



Many possible applications with Breezair evaporative cooling



Industrial



Animal farms



Events



Retail



Warehouses



eurosales@seeleyinternational.com
uksales@seeleyinternational.com

www.seeleyinternational.com



Seeley International France
320 Avenue Berthelot
69371 Lyon Cedex 08
France
Phone: +33 (0) 472 7847 80

Seeley International Italy
Loc.Policiano 72/M
52100 Arezzo Italy
Phone: +39 (0) 575 97189

Seeley International UK
Unit 11 Byron Business Centre,
Duke Street
Hucknall Nottingham
NG15 7HP United Kingdom
Phone: +44 (0) 115 9635630

