

EDV PACKAGING SOLUTIONS S.A.



Plastics



THE PROJECT

Install an MTA unit to guarantee the quality of products, costs reduction and a production grow in making multi-layer sheets for food applications.

THE CUSTOMER

EDV Packaging is a company leader in providing rigid barrier packaging for the food industry worldwide. EDV has been working for widely known brand owners for more than 30 years.

BRIEF REPORT

End user name: EDV PACKAGING SOLUTIONS, S.A.

Business sector: Food packaging

Place: Llinars del Vallès, Barcelona

Year: 2014

Installed equipment: 1 x PNP 160 N + 1 x AFV 300 N

Description of equipment: PHOENIX Plus, air cooled water chillers with R134A featuring screw compressors. Aquafree 300, free-cooling module.

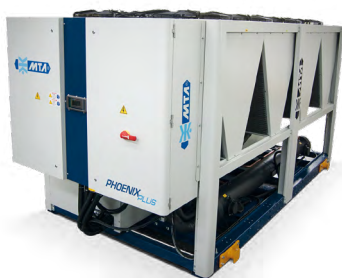
Total installed cooling capacity: 368 kW

Total installed free-cooling capacity: 368 kW



THE PROBLEM

The refrigeration circuit was made with four production lines composed by 26 extruders and 24 refrigerated pressing rolls. EDV had problems in summer season when the cooling temperature exceeded 25 °C, creating production delays and problems in making the sheets.



PHOENIX Plus chiller



Cooling, conditioning, purifying.

...to take advantage of the low ambient temperature in winter seasons and to reduce the adsorbed power of the unit, it has been installed a [...] module that works with the ambient air to cool the process water...



THE SOLUTION

MTA integrated, in the existing system, a new air-to-water chiller PNP 160 N of 368 kW to provide 15 °C water. In addition, to take advantage of the low ambient temperature in winter seasons and to reduce the adsorbed power of the unit, it has been installed an AFV 300 N Aquafree module that works with the ambient air to cool the process water just by making use of the fans. This solution keeps steady the temperature at 15 °C all year long.



THE BENEFITS

With the solution adopted, the end user has obtained benefits such as products quality warranty, energy savings up to 34% and manufacturing time reductions.



An Aquafree's range module



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