



PROJECT REPORT A FRUITFUL COOPERATION



Sociedad Cooperativa Andaluza Costa de Huelva (Coophuelva) is a Spanish berry distribution company that has dedicated already 4 decades to the commercialization of the agricultural production of its members. What started with only strawberries, has now - through fruit diversification - led to raspberry, blueberry and avocado crops. Customers across the world appreciate these products of excellence with unique qualities.

Requirements & needs

REPLACING AN EXISTING
BAC VXC CONDENSER

ENERGY SAVINGS

EASY ACCESSIBILITY

EASE OF MAINTENANCE



BAC Solution

Polairis Condenser

(2) PLC 0282-0812E-K



The contractor - **Réfrigeración Odiel S.L.L.** - has a vision set for growth and competitiveness for the industrial sector in the province of Huelva, focussing on efficiency, performance and safety of the facilities. They requested an inspection of the conservation state of the in 1995 installed VXC evaporative condensers at the Coophuelva site. This **detailed inspection** with the BAC Inspect tool indicated that, after 26 years of loyal service, the VXC units were ready to be replaced. The recommendation was to use **(2) Polairis units** which combine all the latest innovation from the industry, making them **extremely reliable and highly energy efficient**, requiring only minimal maintenance and easy to inspect. After reviewing the technicalities and benefits the contractor decided to follow BAC's advice.



BAC Inspect



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AIRCOIL COMPANY

BAC Solution for Coopuelva

POLAIRIS Evaporative condenser



Extremely reliable

- Fan drive systems are located inside the unit, in the **dry air**, preventing condensation and eliminating corrosion issues and premature failures.
- Direct driven fans **eliminate potential mechanical failures**.
- Multiple, individually driven fans guarantee **redundancy**.
- Baltibond hybrid coating for maximum equipment life.
- **Dry operation** possible.



Energy efficient

- Evaporative condensers yield the lowest condensing temperatures and hereby **minimize the system energy consumption**.
- Up to **50% savings** with the energy efficient radial fans, compared to standard centrifugal fans.
- EC motors have superior efficiency that exceeds the IE4 requirements. Integrated electronics of EC motors allow for **variable speed control** at significantly **reduced power consumption** compared to AC motors with VFD.



Minimal maintenance and easy to inspect

- Direct driven fans require **no maintenance** at all.
- The DiamondClear™ Design offers a continuous self-cleaning operation. The **need for maintenance is minimized** by using fully sloping surfaces, a constant impact of falling spray water and high water velocities.
- The collection basin covers only a fraction of the unit footprint, which makes it subject to higher turbulences. Together with the significantly lower volume, this **reduces the chemical usage and need for cleaning**.
- **Unmatched accessibility** to the basin, drives and fans in the dry section, via the mansized access door at ground level.
- Water distribution system is **easily accessible** from outside.



A good collaboration between the customer, the contractor and the BAC Spain team, combined with frequent inspections following-up on the equipment, has ensured this production facility is ready for the next decades to come!



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AIRCOIL COMPANY**

BLUE by nature
GREEN at heart

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