



JBS Swift Valinhos Store Brazil

Swift Valinhos Store Brazil relies on sustainable cooling systems from AHT and DAIKIN

After a test run at Swift Valinhos store, the parent company JBS decided to change all 28 refrigerators and freezers operated with R404a for environmentally friendly, plug-in devices with propane (R290) refrigerant from AHT.

The project was rolled out to 36 stores across Brazil in 2021. AHT installed KINLEY XL and PARIS cabinets, as well as DAIKIN VRV air conditioning systems in seven stores.

With AHT project management, all refrigeration and air conditioning systems could be provided from a single source, contributing significantly to greater energy efficiency.

The AHT cabinets were selected because of the low Global Warming Potential (GWP) of the refrigerant R290 which has a 100 year value of only 0,02*. By using propane, the AHT devices offer global best-in-class GWP. Thanks to AHT's full plug-in technology, no additional pipes or drainage had to be installed. Committed to zeroing its greenhouse emissions by 2040, JBS Swift is equipping all Swift stores with new devices that use refrigerants with low GWP. Adopting a refrigerant with low GWP is just one side of the carbon footprint equation: energy efficiency plays a very relevant role in the total warming impact of a refrigeration system. Combining the efficiency of the AHT cabinets with the new VRV air conditioning systems from DAIKIN, the Total Equivalent Warming Impact (TEWI) of the stores was massively reduced and high energy savings were achieved.

Year of Installation

2021

Installed systems

_KINLEY XL
_PARIS
_DAIKIN VRV AC

Project requirements

Replace display cabinets with R404a at 36 stores for AHT cabinets with propane refrigerant.

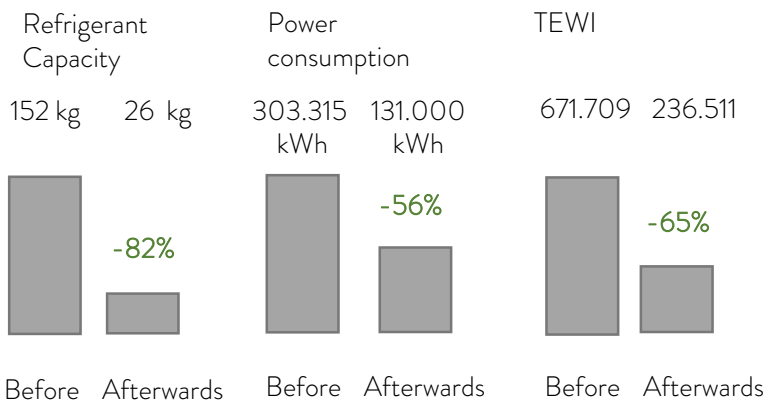
JBS plans to open 260 new stores in 2021 using the AHT solution. Installation and replacement of seven air conditioning systems by DAIKIN VRV systems.

*Source: https://hydrocarbons21.com/articles/10126/ipcc-includes_gwps_for_hydrocarbons_in_new_report

After seven years of operation, JBS Swift has decided to implement greener and more energy efficient refrigeration system in its Swift Valinhos stores.



The TEWI expresses the impact of a refrigeration system by combining its direct and indirect effect on global warming. It includes the greenhouse effect generated by the refrigerant gas, but also the CO₂ emitted to generate the amount of electricity consumed by the system over its lifetime. The comparison below shows the improvement through the new AHT refrigeration and freezer units as well as the new DAIKIN air conditioning



The new installation saves more than 435,000 tons of CO₂ per store in 10 years.

AHT has been successfully supplying JBS Swift in Brazil, Mexico and the USA with energy-efficient and green refrigeration systems since 2015. The project was carried out by AHT Brazil and the AHT headquarters in Rottenmann, Austria.

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