CASE STORY

THE CUSTOMER
Mayekawa, a Japanese multinational, founded in Tokyo in 1924, specializes in eco-friendly thermal solutions for industrial refrigeration and HVAC.

THE CHALLENGE
Build a large-capacity chiller to provide sustainable laboratory air conditioning for a business complex in São Paulo, Brazil.

THE SOLUTION
Mayekawa, in collaboration with SWEP, designed and installed a 100 TR (ton of refrigeration) propane chiller.

THE HEAT EXCHANGERS
Two SWEP DP300 models from the L-series brazed plate heat exchanger range.

THE RESULTS
Sustainable, efficient, high-capacity cooling with a low-GWP, natural refrigerant.

Mayekawa and SWEP build a high-capacity propane chiller for sustainable AC

SWEP
A DOVER COMPANY

Focus on sustainable refrigeration
Mayekawa is focused on sustainable, environmentally-friendly solutions to refrigeration and HVAC challenges. All of the company's thermal solutions are built around natural refrigerants: ammonia, carbon dioxide, water, hydrocarbons, and air. Mayekawa's commitment to this approach supports sustainable development, while helping to reduce ozone depletion, and prevent global warming.
With this in mind, when the company was asked to build a new air conditioning system for a laboratory in São Paulo, Brazil, they opted to install a 100TR-capacity propane chiller that provides high levels of sustainable, efficient cooling.

SWEP DP300 brazed plate heat exchanger.

The role of SWEP BPHEs
SWEP's brazed plate heat exchangers provide the perfect evaporator solution for Mayekawa's propane chiller. This project employed two SWEP DP300 models from the L-series range of BPHEs. The DP300 is a highly effective, versatile, True Dual evaporator that is perfect for chiller applications. Equipped with patented SWEP AsyMatrix™ technology, the evaporator's asymmetric channel configuration smartly combines maximum heat transfer on the refrigerant side with minimum pressure drop on the secondary side.

Why choose SWEP?
Compared with conventional heat exchangers, SWEP BPHES feature increased energy efficiency and better use of structural material, making them a more sustainable solution in suitable applications, including chillers and domestic gas boilers. With a shared mindset of providing more efficient, sustainable solutions for multiple markets, SWEP and Mayekawa were the perfect match for this project.

More about Mayekawa
Mayekawa is a Japanese multinational with nearly 100 years of expertise in the industrial refrigeration and gas compression sectors. Since beginning its operations in Brazil in 1968, the company has expanded globally and is now present on every continent, with 15 branches across Brazil to ensure fast and high-quality service.

Driven by a commitment to safety, quality, and product preservation, Mayekawa delivers efficient and reliable technological solutions to its customers. Constantly pursuing innovation, the company focuses on energy efficiency and the promotion of sustainable development.

Learn more about Mayekawa: www.mayekawa.com.br

Sharing their expertise
Efficient operation, high performance, a small refrigerant charge, and a focus on natural, low-GWP refrigerants make Mayekawa's propane chiller the ideal choice for any company focused on building and supporting a sustainable business model.