

FARMA MITSOPOULOS

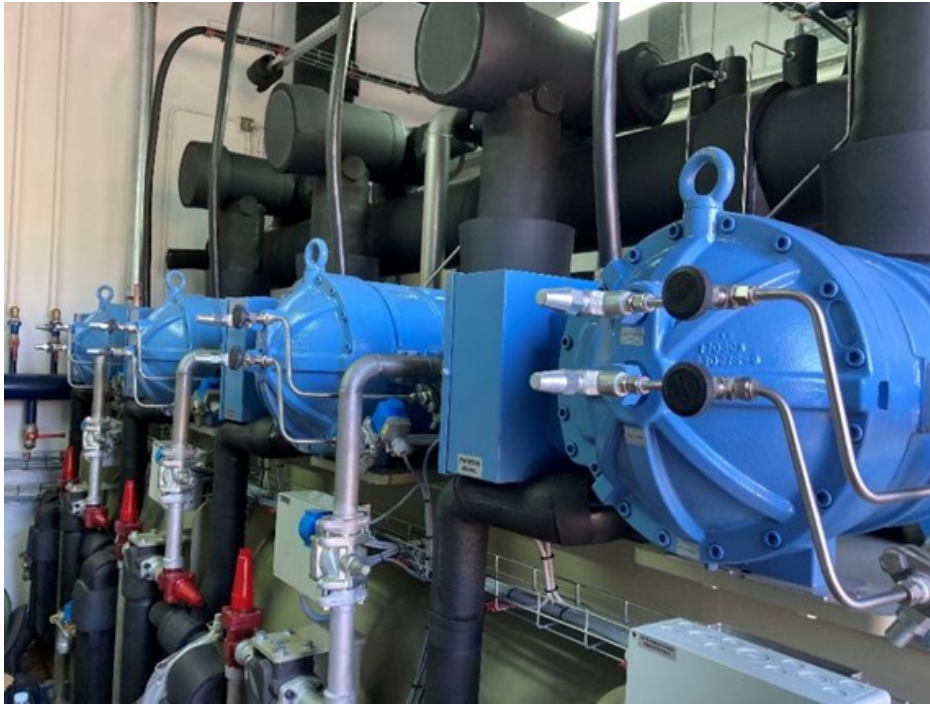


Farma Mitsopoulos is a Meat Processing Factory with High Quality Products near to ATHENS, Greece.

Project scope: Retrofitting the already existing Meat Freezing production equipment which were 3 Static Freezers and to add a new Linear Belt Inline Freezer for Gyros. The customer needed to keep the existing R449A DX for operational reasons but wanted to future-proof the new installation by preparing a conversion to R717 Ammonia with minor modifications.

Project design and Cooling Unit design have been done by Mouteveli Bros, a second generation esteemed firm for Industrial Refrigeration, located in Athens, Greece. Manufacturing of the Cooling Unit has also been done in-house at Mouteveli Bros premises. This is another signature project, indicative to what this company is capable to do.

The significant features of the unit are the extended operating envelope of the SRS two-stage compressors down to -60 °C evaporating temperature essential to quick freezing. The compact design made it possible to use an existing plant room, thus reducing investment cost. The high-efficiency three-phase oil separator in connection with precise oil temperature control by an electro-hydraulic 3-way valve and the air-cooled oil cooler ensure perfect operating conditions for the refrigeration circuit. The complete system is controled and montored by a CAREL PLC with custom-made software for process security and efficiency. Last but not least the future conversion of the unit to Ammonia can be done within shortest time and very minor changes.



ΠΑΤΡΩΝΑΣ

4 x SRS1210SS semi-hermetic two-stage compressors with displacement of 398 m3/h each ensure pulling down the produce to desired core temperature of -45 C within shortest time for highest quality.



PROJECT DESCRIPTION

Compressor Package

Plate Freezer

SRMTec : 4 x SRS1210SS

Refrigerant: R449A / R717

Technical Data, Total

Capacity Q: max. 4 x 58 kW

Te: -50°

Tc: +40°

Energy consumption: 4 x 57 kW

COP_{total}: 1

Commissioning: Aug 2020

SRMTec offers a range of refrigeration technology equipment focused on natural refrigerants like NH₃, CO₂ and Hydrocarbons like Propane, Isobutane etc. for all kind of applications in every aspect of modern life. The compressors are the development of Svenska Rotor Maskiner, the pioneer of screw compressor engineering since 1908.

SRM EU is the Organization for European and American customer support and sales of industrial refrigeration solutions. We cooperate closely with our agents and distributors to be a reliable local partner for our customers.

Learn more at srmtecgrou.com/products/SRM16L

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