

# refrigeration technology SPOL. S R.O.

## for refrigerated and deep-freeze food storage

**Modern JDK refrigeration technology** with its aggregated compressor units and new control and monitoring systems facilitates optimum ecological and energy-saving operation of large-capacity refrigerated and deep-freeze storage facilities for foodstuffs, fruits and vegetables, designed specifically for each product. The technologies meet all the exacting demands on high-quality storage in conformity with the strict standards of food hygiene that define all procedures for storage and handling of foodstuffs.

**The aggregated compressor units** may be designed with a separate condenser placed in the machine room, or in compact execution with the condenser situated on the roof of the building. The unit has a common delivery outlet, a common refrigerant and a common suction inlet.



**The compressors** are of a piston or helical semi-hermetic design from the manufacturers Copeland or Bitzer. Three or more compressors are mounted on a common frame. The oil lubrication is based on separation of oil at the delivery; the oil is separated by means of a medium-pressure separator, passed to an oil collector and back to the compressors via Trax-Oil electronic oil level controllers.

**The control switchboards** consist of a power section with safety circuit breakers of the unit, and a control section governing the unit, condenser fans and communication. The control proper is carried out by electronic controllers EWCM 900 or SLC 500, which provide communication with the TELEVIS or EWTD 600 S monitoring systems and the customer service points DM set with EWPC and EWDR regulators.

**The condensers** in the separated design are air-cooled and placed apart from the unit proper and the machine room, preferably on the roof of the building. In the case of the compact design, the air-cooled condensers are mounted on the common frame jointly with the unit.



# reference

## Dairy Bohušovice

### RACK CONDENSING UNIT

Type of Unit

- **LME-S3-SHM-6000**

Cooling Capacity

- **305,4 kW at  $t_e = -8,3\text{ °C}$ ,  $t_c = +45,5\text{ °C}$**

Power Input

- **132,6 kW at  $t_e = -8,3\text{ °C}$ ,  $t_c = +45,5\text{ °C}$**

Type of Compressors

- **screw compressors Copeland**

Used Refrigerant

- **R 404A**

Electronic controlling and monitoring

- **control switchboard**
- **programmable regulator Eliwell**
- **monitoring and controlling system Televis**

Storage Spaces

- **V1 - 4 875 m<sup>3</sup> - temperature from +4 °C to +6 °C**
- **V2 - 2 000 m<sup>3</sup> - temperature from +4 °C to +6 °C**
- **V3 - 1 836 m<sup>3</sup> - temperature from +4 °C to +6 °C**



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