

Job Report

ARCTOS refrigeration for hire during modifications, renovations and to handle production peaks

ARCTOS mobile refrigeration systems

If you need refrigeration at short notice or just for a while, ARCTOS offers flexible solutions with their mobile refrigeration units.

Our mobile refrigeration units can be utilised in all branches requiring refrigeration ranging from the food industry to soil freezing or even the chemical industry.



There are almost no limits to the uses; various refrigerants are available and the 30 ft container is easy to transport.



The 30 ft container:

In a specially designed plant container, housing the chiller, air-cooled condenser, supply and return brine distributors, water pumps, brine pumps and the control panel.

ARCTOS can install mobile refrigeration units to the construction site at short notice, including transportation, installation, charging, start up and, if necessary, maintenance. Your part is merely to provide the electric power.

Subject to availability, the refrigeration unit can start within three days from order at your site.

An NH₃ absorbing unit ABSL175 can be installed later in order to absorb the refrigerant in case of a leak.

Some of the mobile refrigeration units are equipped with a titan heat plate exchanger. So it is also possible to use CaCl₂ or other aggressive fluids as heat transfer medium.

Technical data

Refrigerant	NH ₃ (R717)
Refrigerant charge	150 kg
NH ₃ evaporating temperature	from +3°C to -35°C
NH ₃ condensing temperature	from +20°C to +47°C
Cooling capacity Q ₀	depending on heat-transfer medium and temperature from 120 kW to 500 kW
Compressor manufacturer	GEA-Grasso
Compressor type	open drive screw compressor
Power consumption P _e	max. 135 kW (t _c = +47°C)
Heat transfer medium	water or ethylene glycol /propylene glycol, CaCl ₂ ; other media on request
Water / brine inlet temperature t _{S1}	dependant on heat transfer medium from +12°C to -30°C
Water / brine outlet temperature t _{S2}	dependant on heat transfer medium from +6°C to -33°C
Heat rejection	air
Air temperature (max)	+34°C
Container	30 ft special container
Container weight	12 000 kg (without charge)
Container dimensions	9.5 x 2.7 x 3.2 m (length x width x height)