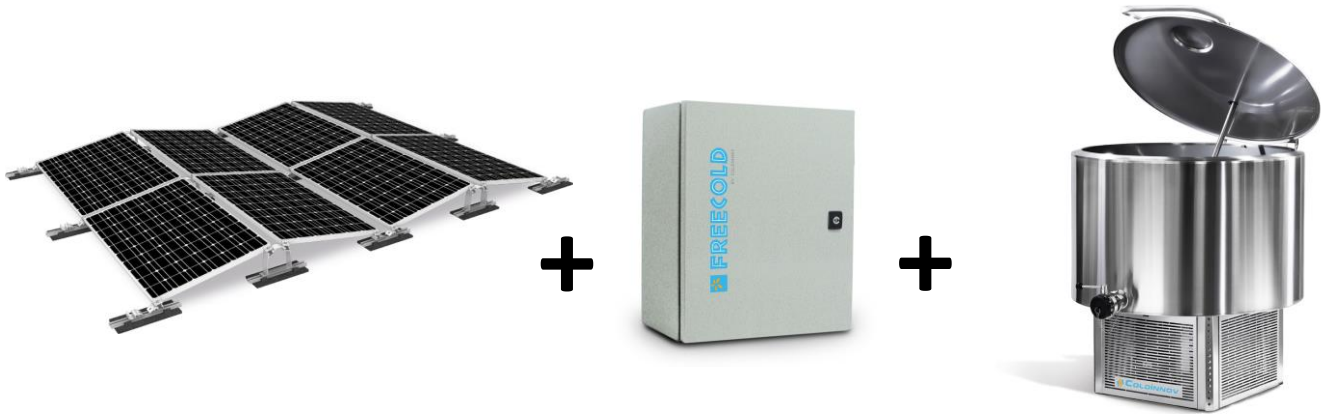


Solar milk tank : 300 liters / 2 milkings

Including solar plant, battery storage and energy management



Milk tank

The FREECOLD TAL 300 milk tank cools a 150 liters milking in 2 hours down to a temperature of 4 °C with an ambient temperature of 35 °C.

All in stainless steel, the tank, with a capacity of 330 liters, has a smooth inner wall, rounded corners and polished welds for optimum conditions of hygiene and food safety. Its walls are insulated with injected polyurethane foam to limit heat losses.

Placed under the tank, the refrigeration unit develops a power of more than 2400W. The stainless steel structure includes four adjustable feet to put level the tank in case of uneven ground. Openwork panels allow the evacuation of heat from the refrigeration group and prevent the intrusion of small animals and rodents in the refrigeration unit.

A milk stirrer - to mix and homogenize without foaming, the temperature and the fats in the tank -, a gauge to measure the volume of milk, a temperature controller and a stainless-steel draining valve - allowing a complete emptying of the tank - complete the equipment.

Smart management of energy

Coupled to photovoltaic modules, the FREECOLD cabinet guarantees a high-quality power supply and prioritizes renewable energy before enabling a second potential source, grid or generator.

Solar batteries, with a capacity from 11 to 23 kWh, make it possible to smooth out peaks and troughs as well as intermittent energy from the photovoltaic power source.

The installation is secured by DC disconnect and lightning arrester devices, and a AC differential switch. The whole installation, including the photovoltaic field is grounded.

Solar plant

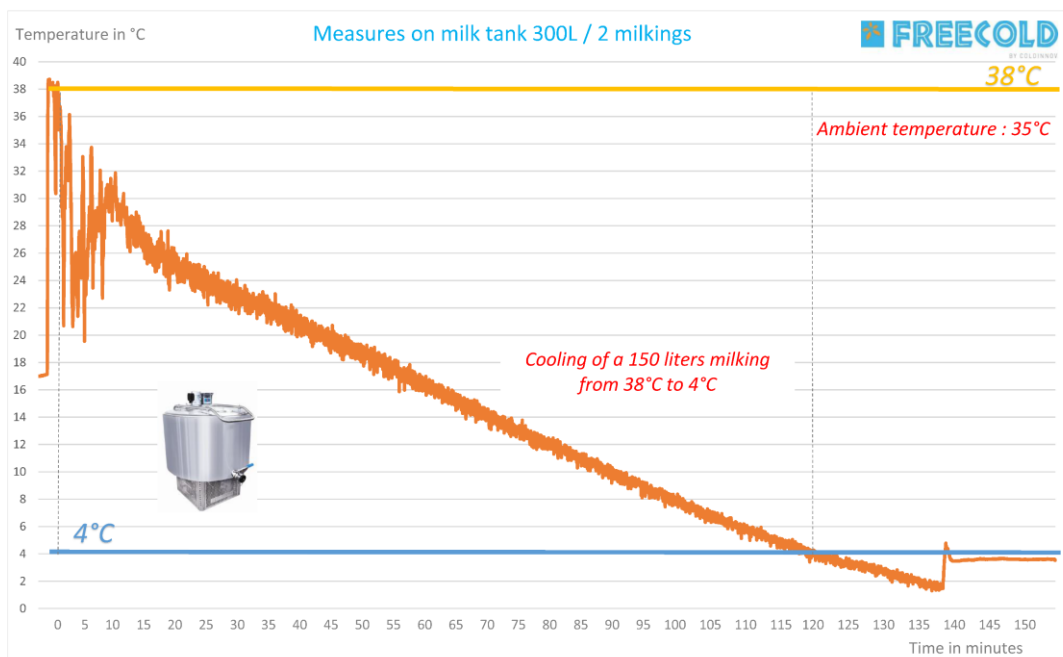
8 photovoltaic panels made in Europe come with their support to be ballasted and preinstalled wiring for easy and rapid commissioning.

The solar plant of 2.5 kW, powers directly the cold room and simultaneously recharges the battery to ensure the autonomy of the installation.

Solar milk tank 300 liters / 2 milkings

Including solar plant, battery storage and energy management

- ✓ "All stainless steel" milk cooling tank complying with EN 13732 et ISO 5708 standards
- ✓ Outside dimensions : 120 x 98 x H 125cm closed / 190cm open
- ✓ Sealed refrigeration unit - Cooling power : 2.450W - Maximum power demand: 1.700W
- ✓ Dixell XR80CX digital controller for precise control of the milk temperature
- ✓ 2.5 kW solar plant including 8 photovoltaic modules (310 Wp, 72 polycristallin 6" cells, 25-years performance warranty)
- ✓ Supports of photovoltaic modules delivered in kit; 10° angle of inclination
- ✓ Electrical security box including DC/AC surge protectors; DC disconnecter and AC 30mA/16A differential switch
- ✓ Energy storage by sealed AGM solar batteries (maintenance-free) : 11,5 kWh (240Ah-48V); Pure lead technology ; Service life of 1800 cycles @ 30% DOD
- ✓ Energy management and power sources coupling optimized in relation with available power in entry (PV, batteries, AC input) and loads (refrigeration, recharge of batteries)
- ✓ Battery recharge possible by 2nd power source (grid or generator)
- ✓ Unit packing :
 - 1 palet 120x100xH140 cm – 150 kg
 - 1 palet 200x100xH120 cm – 500 kg
 - 1 palet 100 x 80 x H80 cm – 620 kg



Note: In the case of 2 daily (morning and evening) milkings, the milking of the morning will be introduced in the tank, 1 hour minimum after the Sunrise so that the solar plant has started to charge the batteries.