



I Application

A tank or trough for the reception of raw milk permits discharge of the milk manually, in milk churns, or by means of cistern trucks. It has a maximum capacity of 5.000 litres/hour. The maximum temperature foreseen for the milk on arrival is 25° C.

I Operating principle

The raw milk is poured onto a pre-filter in order to eliminate the largest of any solid particles. The milk is stored in a tank specially designed for this purpose which has a capacity of 150 litres. This deposit tank has probes installed to detect both maximum and minimum levels. When the minimum level is detected the machine will start working. Another filter situated in the lower part of the unit undertakes a second elimination of solid particles, this time finer ones.

The pump propels the milk through the plate interchanger which cools the fluid from 25° C (max.) to 4° C.

Before the cooling process the flow of milk is recorded by an electro-magnetic flowmeter which allows us to know the exact quantity supplied by each farmer, or total amounts on a daily, weekly or monthly basis, etc.

I Design and features

Milk reception module with filter.

Mounted on a stainless steel AISI 304 framework.

Reception tank 150 litres.

Primary filter made of perforated mesh for reception in milk churns.

Second straight filter with 0,5 mm fine mesh in stainless steel AISI 316L DN40 with EPDM gasket.

Sanitary centrifuge pump Hyginox, 3.000 r.p.m., 0,55 kW to propel product.

Butterfly valve DN40 in stainless steel AISI 316L with EPDM gasket and multi-position handle.

Level sensor probes.

Electro-magnetic flowmeter DN25.

Plate Interchanger in stainless steel AISI 316L with NBR gaskets.

Control cabinet built in stainless steel AISI 304. Includes: temperature regulator, pump control and power-trip, push-buttons and operating indicator lights.

Equipment pre-assembled and tested in our IINOXPA headquarters.



I Materials

Parts in contact with the product	AISI 316L and AISI 304
Rest of materials and control cabinet	AISI 304
Gaskets in contact with the product	EPDM and NBR
Interior surface finish (product contact)	Ra ≤ 0.8 µm
Other exterior finishes	Matte polished

I Options

Plate Interchanger calculation individually according to specific arrival temperature (25° - 35° C).
 Possibility to be connected to central CIP cleaning system.
 Pressure gauge to detect blockage of secondary filter.

I Technical specifications

Versions available	5.000 l/h
Product inlet temperature	35° maximum.
Product outlet temperature	4° C

