

Milk reception unit



I Application

Milk reception equipment for dairies or milk processing plants. This equipment discharges the milk, deaerates it and measures the total volume transferred to the next stage of the process.

I Operating principle

Milk, especially at low temperatures, absorbs a considerable quantity of air in the form of bubbles (up to 4%). The milk arrives to the processing plant already filtered, then it is tangentially introduced to a small tank. At this stage the milk is deaerated. And a centrifugal pump transfers milk to the next stage.

I Design and features

It is a hygienic compact skid-mounted system.

Milk is transferred from the milk tanker to a tank of 100 litres. The tank is provided with a deaerating valve and minimum/maximum level sensors.

A centrifugal pump transfers milk from the tank to the next stage passing it through a Y filter and an electromagnetic flowmeter.

The control panel assembled on the same skid frame controls the centrifugal pump, flowmeter and minimum/maximum level sensors.

Three models are available for various flow parameters.

The unit is designed for CIP cleaning.

I Materials

Metal parts in contact with the product	AISI-316 L
Other metal parts and control panel	AISI-304
Tank and pipes external surface finish	sand blasted
Tank and pipes internal surface finish	mat polished
Gaskets in contact with the product	EPDM (FDA)
Pump mechanical seal	C/StSt/EPDM
Deaerating valve	in AISI 316L with a natural rubber ball

I Options

Valves without C-TOP,

actuator and solenoid valve switches in the control panel.

Non-automated manual valves.

Connections: DIN, SMS, RJT...

Centrifugal pump frequency converter in the control panel.

Operator interface.

Various sizes of screens for the filter.

Analogic level control.



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I Technical specifications

Tank volume - 100litres.

Magnetic flowmeter with the control integrated to the control panel.

StSt tank vibratory level sensors.

Clamp connections.

Butterfly and seat valve at the tank inlet.

The valves are actuated by the single-acting actuator and C-TOP control unit with 1 solenoid valve and 1 switch.

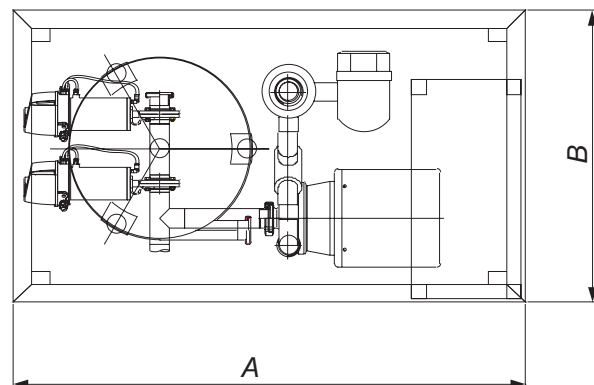
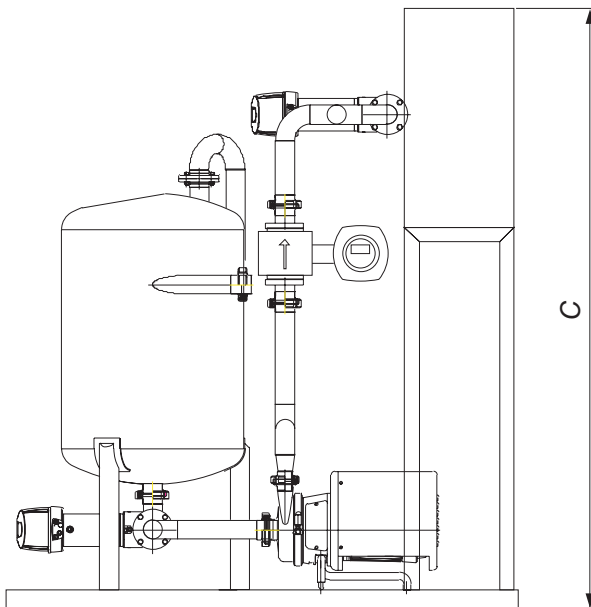
Pneumatic actuators of 6-8 bar.

Y filter with Clamp connection and 0,5mm circular openings.

Deaerating valve.

Baseplate with silent blocks.

PLC control.



	Capacity range	Pump size and power	pipng Ø	General dimensions (mm)
ED20	7.000 - 15.000 l/h	S20 - 2,2 kW	2" (DN50)	1400 x 800 x 1800
ED26	15.000 - 40.000 l/h	S20 - 2,2 kW	2 ½" (DN65)	1400 x 850 x 1800
ED38	40.000 - 80.000 l/h	S20 - 2,2 kW	3" (DN80)	1450 x 900 x 1800

