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# ЦЕНТРИФУГИ И ОБОРУДОВАНИЕ РАЗДЕЛЕНИЯ MWA Технические характеристики



# Compact Milk Pasteurizer MWA for Milk, Cream and Whey

## Overview

GEA has a long tradition in supplying highly efficient and very reliable milk separators to dairies throughout the world. Following the markets requests for complete system solutions we have developed a range of pre-assembled and pre-tested compact milk pasteurizer units with integrated skimming separator for capacities of 2000 l/h up to 35,000 l/h.

The pasteurization line is the heart of every dairy  
Besides the heat exchanger, a main component of the pasteurizer is the skimming separator which splits the milk into cream and skim milk and eliminates at the same time non-milk particles.

Our pasteurizers are used to produce a wide range of dairy products such as liquid milk (whole / standardized / skim), Rjashenka (high heated milk), cheese milk, yogurt milk, kefir milk, fresh cheese milk, whipping cream, coffee cream, cream for smetana, crème fraiche, butter making cream and others.

## Superior quality

Top quality finish

Most reliable components

Individual adaptation to customer requirements by modular options

Fully CIP-compatible

## Advantages of the compact unit

Complete solution from one source

Minimum interfaces

Precise interface definition

Pre-tested unit

Easy integration in manual or automatic environment

Minimum installation effort

Minimum commissioning requirement

## Customer benefits

Complete process solution from one source

Low energy consumption due to high heat recovery

Manufacturing standard according to ISO 9001

One single control system for separator and pasteurizer

Profitable operation with reliable process modules

## Milk pasteurizer line

The basic design of the milk pasteurizer unit provides a short term heating process with integrated milk cleaning and skimming. Cold raw milk arriving from a storage tank is led into a balance tank and pumped into the first heating section.

At a temperature of approx. 55 °C the milk is fed into the separator where it is separated into skim milk and cream. The cream concentration is adjustable from 28 to 45 percent.

In the separator the milk is cleaned from non milk particles by centrifugal force. The GEA ecocream is self-cleaning and features automatic periodic discharge of the separated solids.

Cream is delivered at approx. 55 °C to a cooler or to intermediate storage. Prior to further use, the cream has to be pasteurized separately.

After this the skim milk is heated further up to 74 °C and maintained at this temperature for 15 s in a holding tube. The pasteurizing temperature is continuously monitored and recorded. An automatic change over valve at the end of the holding tube returns insufficiently pasteurized milk to the balance tank in case the temperature falls below the limit.

Subsequently the milk is fed to the regenerative cooling sections to heat the incoming raw milk. The recovery of 92 percent of the thermal energy reduces the energy demand of the unit to a minimum. Finally the milk is cooled down to a storage temperature of 4 °C – 8 °C by ice water.

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