

CONTROLLERS

MC500 | MC500R | MC700i



Add value to milk In the future I want to: have more time, be a better cheese-maker and make more money.

BENEFITS

of MC controllers:

- → save time time efficiency
- → generate repeatable quality from batch
- → comprehensive process control (with documentation)
- → operator does not always have to be present process autonomy
- → little physical work
- → generate more profit in an easy way

cheese kettles and process stirring tanks.

MC500



Plevnik automation is especially possible with pasteurizers,

CONTROLLERS MADE FOR THE FUTURE...

MC500R



MC700i





Milk processing using Plevnik equipment enables automation.



The human finger. The most precise tool that is always available.

TOUCH



Flexible process monitoring according to set parameters.

SMART



Controller automatically performs the steps. Saves time.

SAVES TIME



Processing. Process recording and documenting. Reliability. Repeatability.

PAST EXPERIENCE...

Manual milk processing

can require constant human presence (reaching a constant temperature, stirring). We are constantly developing solutions to ensure the best and most efficient processing. MC controllers are the 'brain' of Plevnik devices and they help you work smarter with less effort.







SOLUTIONS FOR AUTOMATION

PLEVNÎK

PLEVNIK

MC500

Easy, modern and independent operation



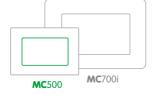
80% of actual size



MC500 and MC500R

controllers with touchscreen enable easy and adaptable operation of up to 12 thermal programs.

Easy and user-friendly operation.



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PLEVNIK

Start delay

Settings

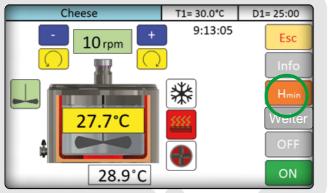
MC500 v2.6 NO: 0117

Simple and user-friendly.

Main menu

Processing

A large 5-inch colour touchscreen with an excellent overview offers an exceptional user experience.



Enables additional energy/time efficiency.

A start delay function enables overnight processing (when electricity is cheaper) and thus saves energy costs. The thermal treatment process can start automatically (delayed) early in the morning and saves the operator's time (and sleep).

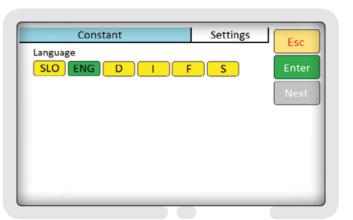
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Programs



Outstanding flexibility and clear overview.

It is possible to choose from 12 programs, which can be adjusted to suit your technological procedures.



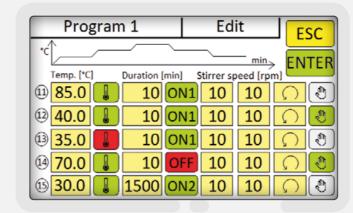
Speaks your language.

Supports 6 languages, including English.

Programs for excellent processes

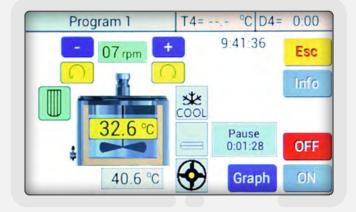
Adapt to your favourite recipe

Now there are six programs available, which are even more customizable. They provide up to 15 steps, which support not only the basic temperature, time, speed and stirring direction settings, but also the possibility to turn the temperature regulation off and to turn the "gentle" duration mode (controlled maintenance of temperature during milk fermentation) on. It is possible to set audible alerts before the following phases, before the next step is automatically executed. All 6 programs are repeatable and automated.



Control the entire thermal treatment process.

Parameters can be modified and set during operation. The six (6) programs have additional options, which accept even the most demanding recipes.



Adjust to your needs.

There are 6 programs available for setting up (stop points require confirmation) - displayed on the controller screen before you can continue with the next step. In the meantime, ingredients can be safely added, pH can be measured, stirrers can be replaced ... This makes it possible to completely adapt the process to your needs.



Heating setting module.

Enables energy consumption selection, which is especially useful for the processing of different quantities.







Remote access (WiFi) and additional program settings

Via remote access using a mobile phone, tablet or laptop, cheese-makers can manage and control milk processing even when they are not present in the dairy.

Using a smart phone, desktop or laptop, you can set the following: turning on/off, delayed start, record transfer, moving to the next process step, temperature changes and certain other parameters, such as speed and stirring direction.

EXAMPLE OF A REMOTE SCREENON A SMARTPHONE

TARGET TEMPERATURE during pasteurization, etc.

STIRRING/SPINNING DIRECTION | stirring direction control

CURRENT PRODUCT TEMPERATURE product temperature

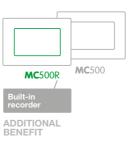
STIRRER OPTIONS stirring shovel, harps, scrape stirrer, etc.

TEMPERATURE OF WATER IN THE COAT temperature display

NEXT go to next process step

ON/OFF turn the process on/off





MC500R

Integrated recorder – a modern approach to process control

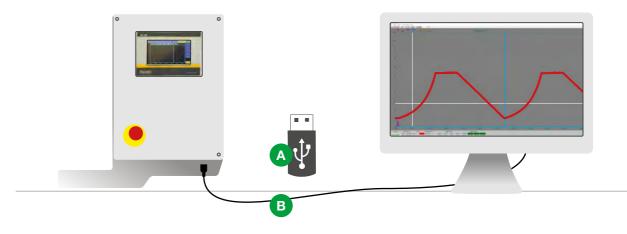


The **MC**500R controller has a built-in recorder, which automatically documents all active processes, in turn making it easier to control them as well as offering an overview of completed processes. The currently active process and the log of complete processes are displayed on the controller screen.

Fully recorded processes – documents temperature and processes. (MC500R)

In addition, full control over milk temperature as well as the valve and cover condition, etc. is possible.

Records can be easily transferred via USB (A flash drive or B cable) to the computer, where you can view and save them with the dedicated software.



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MC700i

Professional, smart, intelligent, adaptable, easy to use, ready for remote access





93% of actual size



MC700i is a completely new controller, specially designed for advanced professional user. The controller is a powerful hightech product. It combines powerful hardware with 30 years of experience and knowledge of milk processing. The integrated recorder supports the recording of all active processes and simplifies overview and saving of processes for further processing using a controller or a PC.

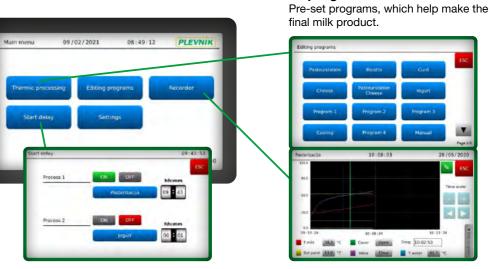
Control additional functionalities

We expect a need for more automation in the future. Additional sensors for more control and more automation. (More on page 11.)



Simple menus. Simple to use

Five virtual buttons to access all processes.



Set process delay

Set process start time - useful when the process does not require constant human presence.

All controls are at your disposal

The main commands are always displayed on the screen, making access quick and easy.



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Recording process

24 programs.

You can access past process data at any time.

Enlarged, simplified

Easy access to more

screen highlights. The process and parameter preview is displayed in a larger font.



Program adaptability and adjustability

There are 20 steps available. Each step can be augmented with various additional functionalities (dosing, speed regulation and others).

STEP - basic automation element

Having complete control that enables you to precisely determine the automation measures is important in regard to quality and time, as well as energy efficiency, during processing.



advanced step settings. Each step can be set up in greater detail. 15.0 🖸 9 🖸 5 Stirring Stirring Setting holding time speed speed temperature temperature temperature heating/ (0-100)(minutes) cooling holding Step number Stirring Step **Advanced Temperature** Stirring activity regulation direction direction settings temperature (on/off) (on/ heating/ holding

cooling

Using the controller

Professional level of process step control while producing various final products:



CHEESE MAKING

An expert in the processing of milk into dairy products, Plevnik guarantees that by using the MC700i smart controller, you can execute any of your processes with maximum automation.





FERMENTED PRODUCTS

Pasteurization and fermentation are the most important processes enabling long-lasting final products. The MC700i makes quality control of processes simple and you can easily upgrade it with your imagination, even with multiple batches per day.

P / PH **PASTEURIZERS**



FOOD PROCESSING

Unlimited stirring possibilities in the Plevnik PST stirring tank (process stirring tank) - any type of food can be processed at the most professional level with complete control over the processes, produce highquality products always in the same way.

PST PROCESS STIRRING **TANK**



Process recording

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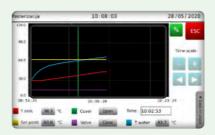
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0 0 Follow your process with the recording function and built-in recorder.



Quantity sensor*

The pressure sensor measures the volume in the vessel and provides information for



Precise heating regulation*

The water heating speed is regulated by the controller, so that the thermal treatment is gentle all the way to the final product - the MC700i regulates the temperature difference between the milk and the heating water in the vessel's coat (for example 20 °C).



WiFi assistance*

Automatic updates during idle times, remote assistance and support, etc.



pH sensor*

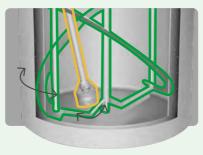
The pH meter is a universal sensor for detecting the pH value of the processed product. More cheese mass, same product quality - repeatability (start by cutting the cheese coagulum into cheese grains).

Automatic dosage option*

Calculating the dose and applying the dose at a certain time is yet another automation function ensuring reliable and repeatable processes and products.



Up to 2 stirrers to control the speed of



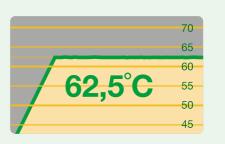
Stirring control*

rotation, direction and even pulsation.



Holding and maintaining temperature

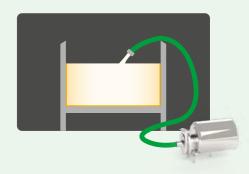
Automatically maintain the target temperature for a certain time required by the process step.



content inlets and outlets Smart calculation according to recipe settings.

Managing vessel

Connecting the volume sensor and other sensors for achieving identical results.



Remote access*

Remote access enables you to optimize the operator's presence during the process.



The MC700i can be incorporated into main control centres

Our devices are ready to be connected with certain other system controllers.

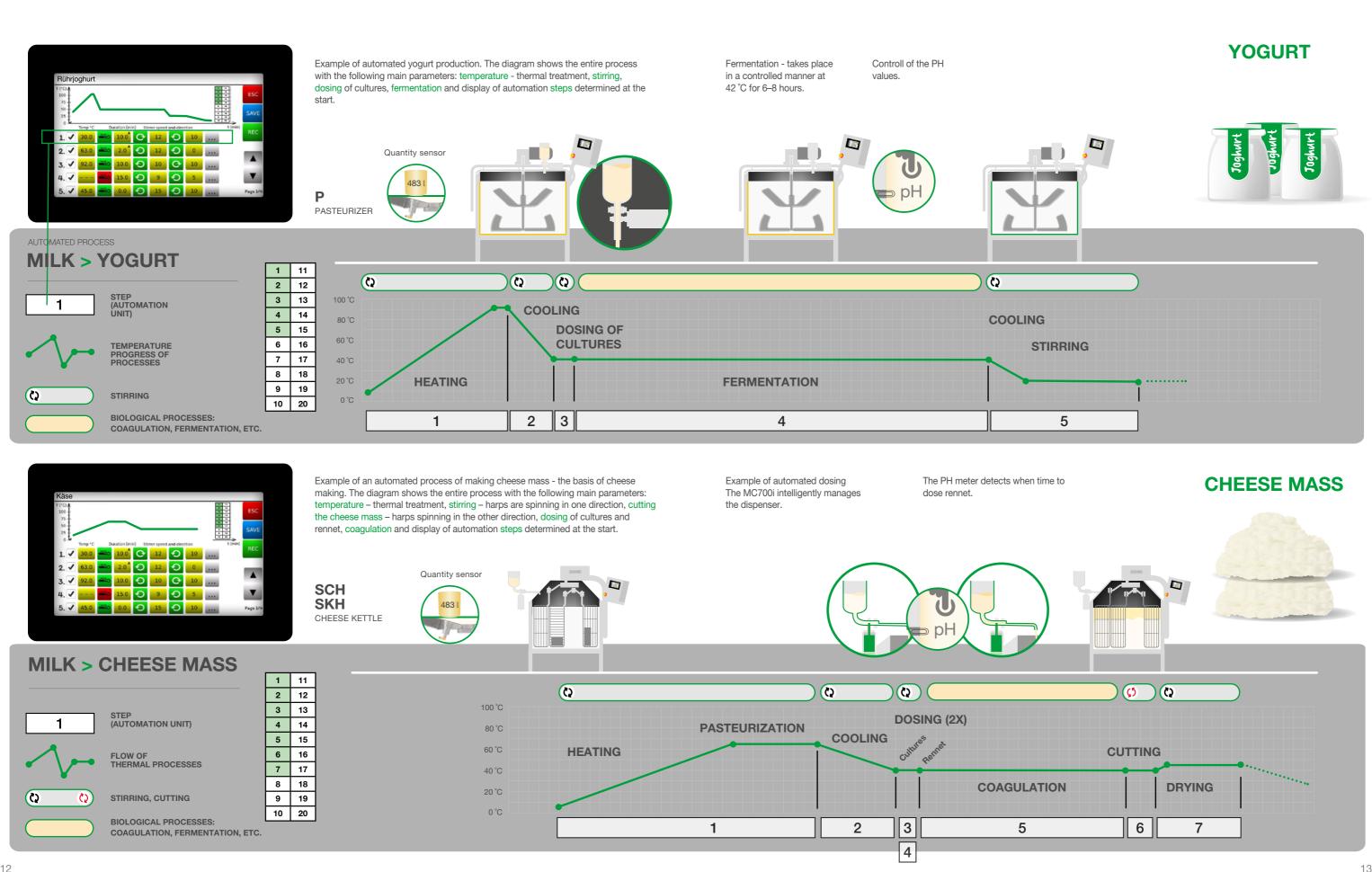


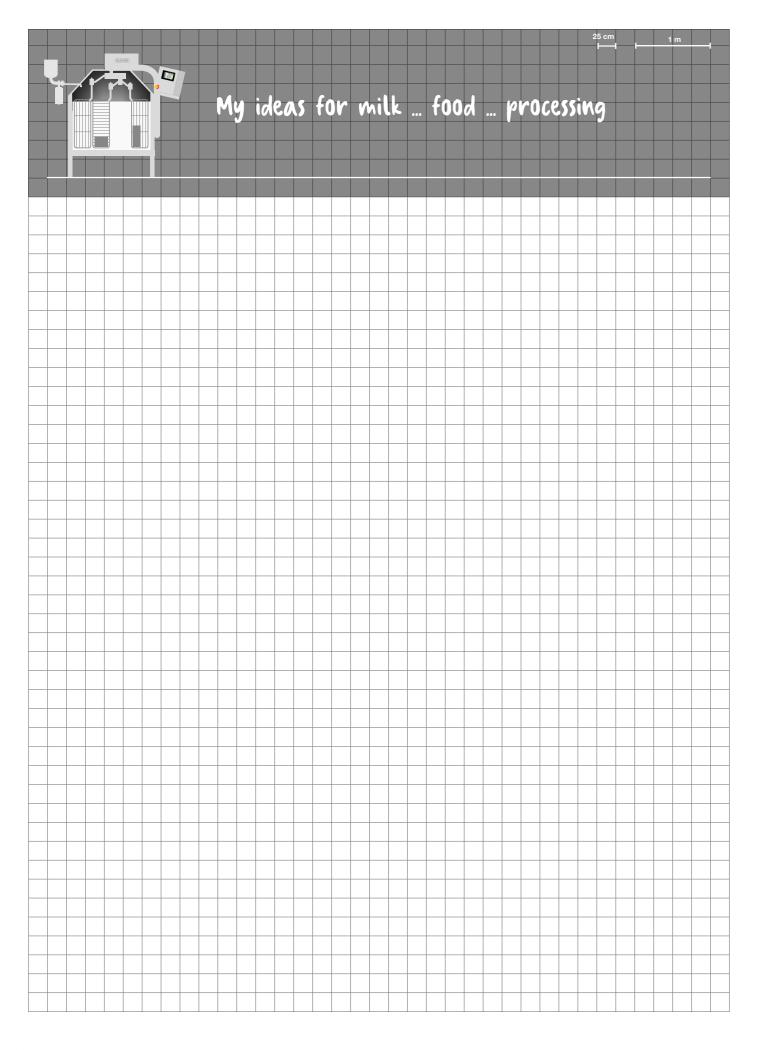


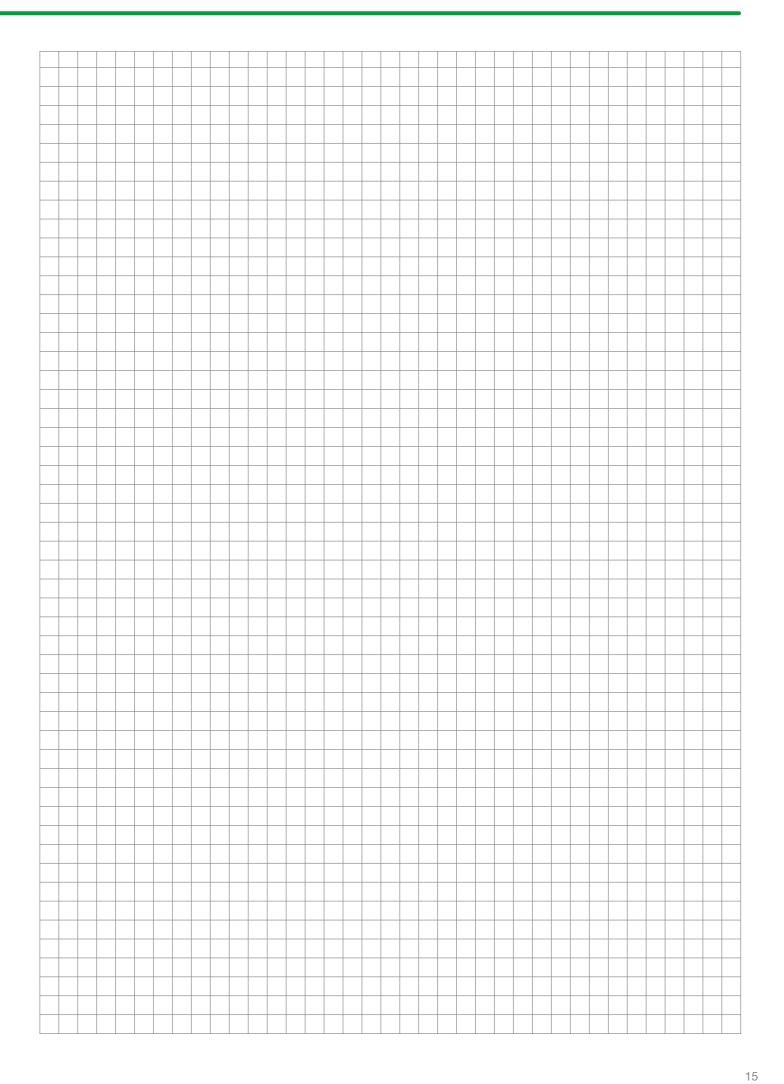
* Additional equipment

Processing of 200–500 I of milk using automation (MC700i)











Compete dairy solutions.

Plevnik products in the service of the user.

All Plevnik devices are user- and environmentally friendly, as well as energy-efficient. They are designed and manufactured for long-term use.



More information











Consulting

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Planning

Production

Assembly and start-up

In the process of constant improvements, we reserve the right to make technical and design modifications without prior notice.



Representative:

The milk processing equipment specialists.

Together we have created more than 3,500 successful cheese-making stories.

PLEVNIK, d.o.o.

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