

FOR ARTISAN GELATO

du^{series}



PASTMATIC



MULTI-MACHINE SYSTEM

IT REQUIRES 3 DIFFERENT PRODUCTION STEPS:

1. PASTEURIZATION

Pasteurization is the heat treatment of gelato mixture and has two functions: first, it reduces the bacterial load of the mixture to ensure the best hygiene. Then -through a proper warming phase- it makes the solid components of the mixture (such as sugars) melting and becoming soluble. The whole process is done preserving as much as possible the nutritional value and organoleptic quality of each ingredient.

This process, which take its name from Louis Pasteur, provides a heating of the fluid food at temperatures below 100°C and then a quick and continuous cooling to reach 4°C. As far as the gelato production concerns, there are two pasteurization processes which are the most common: "high temperature" during which the heating process achieves 85°C and "low temperature" during which the mixture reaches 65°C and keeps this temperature for thirty minutes.



2. AGEING

Ageing is the preservation of the mixtures at 4°C while they are still under stirring for hydration for a time between 6 and 72 hours. This process requires very long times and considerable energy consumption. Moreover, to be efficient and to avoid the division and stratification of fat components, this method requires the mixture to be homogenized before starting the ageing process. And for this purpose it is necessary a further machine which is called homogenizer and which is used in the industrial production.



3. BATCH-FREEZING

Batch-freezing is the last and the most important step to get the finished product. The batch freezer has the important task of monitoring and managing the changes in status of the mixture.

The mixture is inserted in the cylinder of the batch freezer where the evaporators ensure the necessary cold supply to quickly make a liquid product (gelato mixture) becomes solid (gelato) by turning water into tiny ice crystals (thanks to the power of the mixer scrapers) in order to get a perfect structure of the final product.

The key is the quickness of the freezing process -to avoid stratification- and the perfect mixing of the fluid, which is made possible by the mixer. This tool, in particular, avoids the fluid deposit on the inner walls of the cylinder and ensures the best overrun (air incorporation) to get a good consistency at the time of extraction.



Pastmatic

The base for large volume production

pastmatic®

Pastmatic is the technology which provides **pasteurization, coolin and ageing process** in one machine only taking up **very little space**.

2 models available: **Pastmatic 60** to pasteurize up to 60lt of mixture and **Pastmatic 2x60** equipped with 2 independent elliptical tanks for the production up to 120lt of gelato base. Both of them automatically run "high temperature" and "low temperature" pateurization cycles.

By Duo series, Pastmatic is completely updated:



Pastmatic 60

▪ patented elliptical tanks of the new generation

For a perfect thermal exchange. The elliptical tank -if compared to other shapes- offers the advantage to **make the mixture smoothly run along** its walls (without beating)

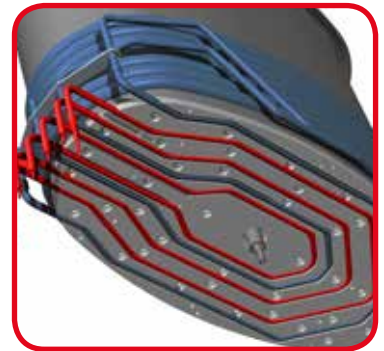
granting no standstill during stirring process and avoiding lumps making. It allows moreover to **reduce spaces** but to keep the same capacity of a round-shaped tank.



▪ new tank heating system

Designed for a careful heating management which is essential for **keeping the organoleptic properties**, the quality and the taste of food without alteration. The heating system radiates heat and makes mixture absorb it in a **smooth and not aggressive way**. Etched foil heating elements **ensure no thermal inertia** -which, instead, occurs in bain-marie heating systems- and **avoid the most delicate ingredients to burn**.

Moreover, the new system is Duo: heating and cooling...



▪ smart tank cooling system

Tank is equipped with a smart and quick cooling system on both its bottom -**side which keeps longer in contact with the mixture**- and its side walls to **avoid the "igloo" effect**. "Igloo" effect occurs when some moisture coming from the external environment gathers on the walls of the tank, turns into ice and then melts affecting the quality of the mixture. Pastmatic ensures a gentle and **high quality cooling of the mixture even for low quantity of product**.

The **new evaporator** for the cooling process grants the same performance halving however the power installed.

▪ new stirrer-pump with high mixing performances

Also the new stirrer is covered by a patent: the device has now **increased of a 20% mixing and aspiration performances**. Stirrer works as a real pump thought which the mixture is sucked in and then strongly rubbed on the bottom of the tank to turn solids in liquids thanks to an effective heat exchange getting a smooth and homogeneous base. Stirrer can be removed from the top to **prevent unhygienic and difficult-to-clean deposits on the bottom of the tank**.



Pastmatic 2x60



▪ quick and reliable cleaning process

Hygiene is essential in food processing and it's a quite critical issue as it requires time and resources. Pastmatic has been designed to make this process as easy and smooth as possible and will allow:

- **QUICK cleaning:** in a short time user can clean, disassemble and re-assemble the **few components** which are involved during pasteurization process (tank, stirrer and tap)
- **EASY cleaning:** all the components to be cleaned are **visible and immediately identifiable**, no hidden or difficult-to-reach parts.
- **DEFINITE cleaning:** once the few involved components are cleaned, the user is certain that the machine is sanitized for the next production cycle.



▪ new electronic board "Duo series"

A powerful machine is nothing without control. Thanks to the **new digital electronic board** and to the new generation probes, Pastmatic automatically and accurately controls mixing speed, temperatures and heating times, cooking and cooling process granting the mixture not to burn or to freeze during the preservation process. Everything always under control and easy to use thanks to the pre-set and free?production programs.



FEATURES

- Many operation cycles (high temperature pasteurization, low temperature pasteurization, stirring, cooling and refrigerated preservation).
- Electronic control of the pasteurization cycles.
- Anti-drop tap which totally goes inside the tank to grant the best hygiene preventing mixture leftover in the extraction channel.

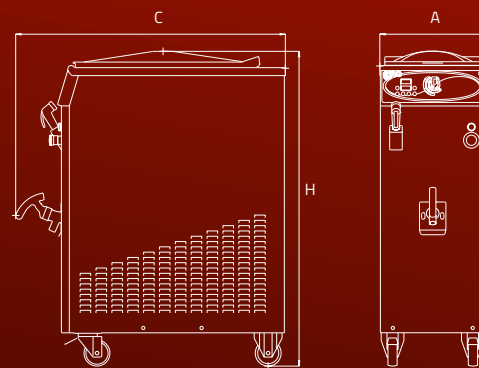
ADVANTAGES

- Easy to clean
- More homogeneous mixture
- Stirrer speed can be changed anytime
- Little space required



PASTMATIC + TRITTICO

Supported by Trittico, Pastmatic becomes a precious ally able to produce up to 120lt of dedicated base (white, yellow, dark...). User can so decide to produce 60lt of cream base to quickly produce fiordilatte, stracciatella and variegated flavours to immediately fill your showcase up.



| TECHNICAL SPECIFICATIONS | | 60 | | 2x60 | |
|----------------------------|---------------|----------|---------------|---------|---------------|
| Max. Mixture *1 | Lt/cycle | 30/60 | 30/120 | | |
| Voltage *2 | Volt Hz/Ph | 400/50/3 | 400/50/3 | | |
| Power | kW | 4,6 | 9,2 | | |
| Refrigeration condenser *3 | | Water | Air+ Water | Water | Air+ Water |
| Width (A) | cm | 40 | 40 | 80 | 80 |
| Depth (B-C) | cm | 102 (B) | 122 (C) | 102 (B) | 102 (B) |
| Height (H) | cm | 119 | 119 | 119 | 119 |
| Weight *4 | kg | 151 | --- | 255 | --- |

*1 Hourly production may change accordingly to type of mixture and finished product density.

*2 Available also in 60 Hz. *3 Water: cooled system self contained. Air+Water: incorporated water condenser and remote air cooled condenser. *4 The weight of the air cooled machines will be estimated before the shipment.

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