

Milkplan



MILK COOLING

MILKPLAN

We nurture ethical livestock farming: Sustainable, efficient, profitable.

Milkplan manufactures with conscience as its primary material. Our products serve their user, protect them, and stand the test of time. Tailored to the principles of human ergonomics, and featuring automation for optimal functionality and performance, Milkplan's tools exist to improve the farmer's life and conditions on their farm. Just the way they know, just the way they need them.



Since our founding in 1997 until today, one principle defines us: At Milkplan, we care about livestock farmers prospering in their homeland. We envision families living close to nature, farm animals being healthy and happy, our food being of better quality, and the population being fed sufficiently.

We recognize the value of traditional knowledge and bring it up to date. For us, human care is a priority, which we pursue by investing in detail and modern technology. We understand the daily challenges, and that is why we offer automated systems to the market that enable the farmer working with us to grow. Knowing what support means, we make sure to be by your side all year round. Our goal is to contribute to the creation of a strong new generation of livestock farmers by building sustainable and profitable practices.

Since the day our company was founded, our ethos has been consistently defined by reliability and adaptability. This is how we manufacture modern milk cooling and livestock equipment that serves the life of the farmer.

With respect for people, animals, and the environment, we nurture the ever-growing farming.

NURTURING

EVER-GROWING FARMING



With advanced industrial know-how and a certified production process, Milkplan provides integrated solutions for the farm that aims to profit, grow, and prosper.

For us, livestock farming is a field of action that must evolve, just like its people and its animals—the valuable capital of every livestock unit that yields a high-quality final product. Our years of experience ensure we have the ability to understand challenges and recognize the prerequisites for farm prosperity.

Our equipment is an ally for sustainability in durable livestock farming. Robust construction, ergonomic layout, smart features, flexibility, and a network of people

who provide answers and solutions 24/7 across Greece. With care and support for the farmer, this is our guarantee for livestock farming as it should and deserves to be.

Investing in our products eases daily work, reduces time required for tasks, lowers operating costs, guarantees herd safety, and offers order, organization, and peace of mind to the farm's operations.

With a new identity and a non-negotiable mission, Milkplan nurtures sustainable livestock farming with products and services that serve as the foundation for the sustainable development of Greek livestock farming.

**WITH ETHOS, CONSCIENCE, AND RESPECT
FOR THE PRINCIPLES OF LIVESTOCK FARMING,
WE MANUFACTURE PRODUCTS
THAT FORM THE FOUNDATION OF PROSPERITY
AND ANIMAL WELFARE**

Mahmoud Al Hadad, Owner Representative for Business Development, Emirates International Group
for Food and Agriculture LLC, U.A.E

**MILKPLAN IS THE
BEST CHOICE WE HAVE
EVER MADE.
HONESTY FROM START TO FINISH**

Milkplan's milk cooling tanks are a foundation of quality for the livestock unit. Designed with hygiene as the core focus for the collection and cooling of safe milk, our tanks feature a carefully engineered finish that protects the farmer and aesthetically upgrades the product, while safeguarding the capital of the dairy production unit, in accordance with international safety standards.

Milk cooling requires meticulousness and consistency. We produce equipment from robust and premium quality raw materials that guarantee modern operation and high performance. By incorporating leading welding technology, we ensure products with maximum resistance to internal pressures, tested with a crash test at 60 bar.

The insulation, made of high-density, environmentally friendly polyurethane foam and installed throughout the space between the inner tank (vat) and the outer casing, delivers efficiency in time and cost savings. Coupled with Milkplan's peripheral equipment, only a few minutes are needed to maintain the temperature of already cooled milk, requiring minimal energy consumption.

Functional characteristics, such as automatic stirring, accurate volume measurement, complete tank cleaning, and stable performance of the cooling unit, result in a robust and efficient cooling product for tanks ranging from 50 to 24,000 liters.

(EXPERTISE)

(EFFICIENCY)

(QUALITY)

WE PRODUCE EQUIPMENT
FROM ROBUST AND PREMIUM QUALITY
RAW MATERIALS, WHICH GUARANTEES
HIGH PERFORMANCE.
THIS IS HOW WE BUILD THE LIVESTOCK
FARMING OF TODAY

(FOCUS)

(CARE)

(RELIABILITY)

As a manufacturer of milk cooling products, Milkplan aims to assist and improve the production of the livestock farm in order to establish its growth. Our products are on a mission to care for, facilitate, and enhance the daily routine of the farmer and their staff.

For small-scale dairy production units, choosing the right equipment is a prerequisite for a sustainable investment. Whenever and wherever needed, Milkplan's people are by the farmer's side every day, every hour, 24/7 to resolve any problem or failure on the farm as quickly as possible.

We invest in Research and Development (R&D), meticulously inspect electrical and technological material, and do not compromise quality for cost. We build reliable machinery with long-term durability, and in our mission to become the best we can be, we seek technological solutions in partnership with the leading firms in industry and robotics worldwide.



Open Type Cooling Tanks

MP Vertitank

MP Vertitank Closed

Closed Type Cooling Tanks

MP Powertank

MP Powertank Robotic

MP Powertank Oval

MP Silo

MILK COOLING

Energy Saving

MP EcoHeat

Plate Heat Exchanger

MP Ice Bank

Milk Transportation Tank

MP Milk Transfer

MP CoolMilk Transfer



Washing Systems

MPP Standard

MPP Touch Control

MP Vertitank

Available in 13 models, ranging from 50L up to 2,500L.

For 2 or 4 milkings

Refrigerant compliant with the F-gas directive (EU) 2024/573

Direct expansion evaporator welded with the most modern laser technology

Sloped bottom for complete draining, in accordance with ISO 5708 EN13732

Thermal insulation with two-component polyurethane foam: 45mm on the sides, 90mm on the bottom of the tank

Stainless steel measuring dipstick and conversion table to liters or gallons

Electronic control panel for cooling and stirring, certified for IP55 ingress protection, with electronic circuits protected against the ingress of water or water vapor

Easy-to-read 3-digit display

Temperature sensor (NTC) with IP68 ingress protection and resistance up to 110°C

Milk outlet DN, SMS, or Triclamp



The MP Vertitank open-type milk cooling tank offers fast and stable cooling, ensuring the maximum preservation of milk quality. Thanks to its careful design and high-quality construction materials, it guarantees long-term operation and energy savings. The MP Vertitank is available in various capacities and adapts to the needs of every dairy production or milk processing unit.

MP Vertitank Closed

Available in sizes ranging from 500L up to 3,000L.

For 2 or 4 milking units (or milkings)

Refrigerant compliant with the F-gas directive (EU) 2024/573

Direct expansion exchanger welded with the most modern laser technology

Sloped bottom for complete draining, in accordance with ISO 5708 EN13732

Thermal insulation with two-component polyurethane foam: 45mm on the sides, 90mm on the bottom of the tank

Stainless steel measuring dipstick and conversion table to liters or gallons

Electronic control panel for cooling and stirring, certified for IP55 ingress protection, with electronic circuits protected against the ingress of water or water vapor

Easy-to-read 3-digit display

Temperature sensor (NTC) with IP68 ingress protection and resistance up to 110° C

Milk outlet DN, SMS, or Triclamp

MP Standard washing system

Manhole



The MP Vertitank Closed series cooling tanks offer a smart combination of the layout and advantages of the MP Vertitank series and the MP Powertank series. The MP Vertitank Closed maintains the vertical tank form but includes a manhole, along with an MP Standard cooling and washing control system mounted on the front side of the tank body.

MP Powertank

Available in sizes ranging from 1,500L up to 14,000L.

- For 2, 4, or 6 milkings (or milking units), and can be equipped with 1, 2, or 4 cooling units that offer powerful cooling and reliability
- AISI 304 stainless steel with excellent thermal insulation using polyurethane foam
- Stainless steel ladder with anti-slip steps
- Manhole with a special design to prevent water retention and a milk inlet port. Features a vertical and rotating lid opening for space-saving convenience
- Temperature sensor, with a port for a second backup sensor
- Refrigerant compliant with the F-gas directive (EU) 2024/573

The MP Powertank tanks are horizontal cooling tanks, representing the ideal solution for milk cooling in medium- to large-scale livestock and dairy production units. They are available in 12 different capacities, covering a wide range of storage and cooling needs.



MP Powertank Oval

Available in sizes ranging from 10,000L up to 24,000L

- For 2, 4, or 6 milkings, and can be equipped with 1, 2, or 4 cooling units that offer powerful cooling and reliability
- AISI 304 stainless steel with excellent thermal insulation using polyurethane foam
- Stainless steel ladder with anti-slip steps
- Manhole with a special design to prevent water retention and a milk inlet port. Features a vertical and rotating lid opening for space-saving convenience
- A temperature sensor with a port for a second backup sensor
- Self-cleaning valve
- Electronic volume measurement system
- Refrigerant compliant with the F-gas directive (EU) 2024/573

The MP Powertank Oval elliptical stainless steel milk cooling tanks are the ideal solution for units with low-height buildings. Thanks to their larger cooling exchange surface, they ensure effective and fast temperature management, safeguarding the required milk quality at every stage.



MP Powertank Robotic

Available in sizes ranging from 3,000L up to 20,000L

- Oval tank body designed to achieve optimal cooling
- Multiple interfaces between the cooling jacket and the robotic system facilitate continuous data exchange, ensuring the uninterrupted operation of the tank
- MPP Touch washing system with a full cooling and washing control version, specially designed for connection to robotic milking systems
- UPS for power recovery in case of an outage
- Remote operation system for remote monitoring
- Mobile alert system
- Pneumatic tank valve
- Stainless steel self-cleaning outlet valve
- "T" neck connection with robot (3-way robot valve not included)
- Refrigerant compliant with the F-gas directive (EU) 2024/573

The MP Powertank Robotic tank is specifically designed to connect and interact with robotic milking systems, responding to the needs of units that use automated cow milking systems.



MP Silo

Available in 2.45 m and 3 m sizes

- Made of stainless steel 18/10, DIN 1.4301 (AISI 304)
- Heat exchanger suitable for cooling with refrigerant or chilled water
- Stainless steel safety railing on the tank roof
- Insulated tank body compliant with international standards
- 1kW / 28rpm propeller-type agitator motor mounted on the tank bottom
- Installation according to the unit's requirements
- Manhole
- Stainless steel ladder compliant with international standards
- Minimal installation requirements
- Self-cleaning valve
- Water reheating system (Water heater)
- Compatible with MPP Touch and robotic farms
- Milk volume measurement with high-precision pressure sensor
- Stainless steel front compartment with or without alcove door

The MP Silo tanks are vertical tanks, designed for the cooling and preservation of large quantities of milk. Ideal for outdoor installation, they are placed on uncovered surfaces and combine large milk storage capacity with minimal space coverage, offering a practical solution for units with high-volume milk cooling needs.



MP EcoHeat

Available in 7 models with capacities ranging from 200L up to 1,000L.

- Constructed from stainless steel to prevent corrosion.
- 50mm thick thermal insulation for maximum efficiency and minimization of heat loss.
- Temperature indicator on all models.
- Optional electric heating element.
- It can be connected to 4 different cooling circuits.
- Water heating up to 70°C.

The MP EcoHeat is a reliable and highly affordable solution for providing hot water in a dairy production unit. It operates by utilizing the heat rejected by the cooling units of the milk tanks, heating the water without consuming additional electrical energy and therefore without extra cost for the producer.

The MP EcoHeat is an alternative yet effective water heating solution and is environmentally friendly.



Plate Heat Exchanger

Up to 50% energy savings during the cooling tank's operation.

The Plate Heat Exchanger (PHE) is a device that cools milk using cold water before it reaches the cooling tank. The immediate pre-cooling of the milk guarantees its high quality and simultaneously eases the workload on the cooling system of the tank.

For optimal energy efficiency, the Plate Heat Exchanger can be paired with the MP EcoHeat.



MP Ice Bank

Available in sizes ranging from 400kg up to 8,000kg.

- Total ice accumulation from 400 to 8,000kg
- Tropical version operable up to +45°C
- Total number of cooling units: N.1 or N.2 (integrated or separate).
- The ice accumulation time is between 6 and 11 hours
- Inner tank (2mm) AISI 304
- External casing made of sandwich-type panels
- Insulation with expanded polyurethane
- Stainless steel or galvanized exchangers (1/2")
- Integrated automatic air mixer
- Single or double ice quantity detection sensor
- Alarm control via integrated PLC
- Refrigerant R449
- Integrated stainless steel water pump
- Construction compliant with 2006/42 CE and PED 2014/68/UE directives

The ice storage device is the ideal choice for the immediate and most economical cooling of milk from high temperatures (85°C- 90°C). It is also the perfect solution for rapidly cooling other liquid foods that require a sudden temperature drop before storage.

The Milkplan MP Ice Bank is carefully designed to ensure the required energy storage in the form of ice while consuming the minimum possible energy. Depending on the application and user needs, the accumulated ice melts and is circulated via a pump, providing a continuous flow of chilled water at 0.5°C.



MP Milk Transfer

Available in sizes from 500 L to 4,000 L

- Tank pressure equalization filter
- Complete sealing
- A stable temperature is maintained for 8-12 hours
- Milk separation into compartments (up to 3) within the tank
- Independent outlet valves for each compartment
- Connection to the CIP system
- It can be mounted on various types of vehicles
- Connection to milk transfer pump.

The MP Milk Transfer vessels are specially insulated tanks that are easy to install and allow for multiple loadings from different producers. These tanks ensure a stable temperature for a long period (8-12 hours). Thanks to their elliptical cross-section, all MP Milk Transfer models maintain a low center of gravity, enhancing vehicle balance during milk transport. All vessel types are constructed from food-grade AISI 304 (DIN 1.4301) stainless steel and feature a double wall with thermal insulation made of high-density, environmentally friendly polyurethane foam, ensuring a stable temperature.



MP CoolMilk Transfer

Available in sizes ranging from 500L up to 2,000L

- Stirring system
- Milk outlet
- Cooling unit
- Effective washing and disinfection
- Milk pump
- Refrigerant compliant with the F-gas directive (EU) 2024/573

The MP CoolMilk Transfer vessels are specially cooled, insulated stainless steel tanks that are easily installed on various types of vehicles and allow for multiple loadings from different producers. Constructed with double-walled insulation made of high-density polyurethane foam and a full-flow heat exchanger at the bottom to support direct expansion operation, the MP CoolMilk Transfer ensures minimal energy losses, while simultaneously guaranteeing the immediate heat dissipation from the milk without the formation of ice particles. Thanks to the elliptical cross-section of the tanks, all MP CoolMilk Transfer models maintain a low center of gravity, resulting in vehicle balance during milk transport. The cooling operation can be achieved either with electricity/generator or with cold water. In the cold water cooling version, the water temperature is set at 1°C. This is an ideal solution for areas where cold water is abundant in the environment, as its use entails significant energy savings. With the special design of the full-flow heat exchanger throughout the interior and in the tank ends, the same cooling time is achieved as would be required with the use of a cooling unit.



MPP Touch Control

Control of up to 4 independent cooling units

- Dixell electronic operational control display
- PLC for tank washing and cooling control
- Water dispersal system with special rotating paddles/blades
- Powerful water pump that ensures the correct washing of the system
- Construction from AISI 304 (DIN 1.4301)
- Independent peristaltic pumps
- Audible alarm in case of failure

Control system for cooling and stirring operations, featuring simultaneous full washing and disinfection functionality in five stages.



MPP Touch Control

- User-friendly / Ease of Use and Durability
- Remote monitoring and control (mobile, tablet, PC)
- New 7" high-response touchscreen with a protective film
- Full system of 80+ alarms
- USB port for easy software updates and data export
- Construction from AISI 304 (DIN 1.4301) stainless steel
- Adjustable washing cycle parameters
- Flow meter for measuring washing water volume
- Measurement and logging of water temperature and conductivity
- The powerful water pump ensures uninterrupted recirculation and continuous water flow, as well as correct spray pressure

Full cooling and washing control system, specially designed for automated operation, connection to peripheral systems, remote control by the user, and integration with robotic milking systems.



Milkplan	18	Milk Cooling
Almost 30 years after our founding, we now operate two factories in Greece, employ more than 200 people, and export to over 100 countries. As a well-established business, we proceed methodically, with a clear awareness of the realities of the livestock industry, focused on the present and with a vision to impact people's lives.	Our investments in Research and Development (R&D) for new products and technologies, in collaboration with pioneers in robotics worldwide, ensure that our equipment meets the contemporary demands and challenges of today's livestock farming.	With more than 1,500 milking systems and 35,000 milk cooling tanks in farms and cheese-making units worldwide, we have been categorized in the league of specialized companies in the international market and are a considerable force in the livestock sector, both in Greece and abroad.
(OUR GLOBAL FOOTPRINT)	(OUR TECHNOLOGY)	(WORLDWIDE STANDING)

MILKPLAN
BY THE FARMER’S SIDE
EVERY STEP OF THE WAY

(OUR ACHIEVEMENTS)	(OUR ADAPTABILITY)	(OUR COMMITMENT)
With an export network spanning 100+ countries and a portfolio of partners both within and outside Greece, we have earned the recognition of the people in our sector. Our people, the equipment, and the robustness of Milkplan products justify every farmer's choice to invest with us.	We stay informed, adopt, and adapt modern technology to the principles of livestock farming. The method of manufacturing our equipment, the materials and the technology that distinguish it, the capability for customization, and the research process we adopt are proof of the flexibility that sets us apart from the competition.	In this alliance, with conscience toward the farmer and the animal, we co-create with ethos and know-how the modern livestock farming that nurtures and defines our common future.

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Milkplan

Nurturing ever-growing farming