



**Milkplan**<sup>®</sup>

# MP Vertitank

Open type  
milk cooling tanks

#milkplanners



[www.milkplan.com](http://www.milkplan.com)



Present  
in over 95 countries  
worldwide

**We have a plan.** 

We have a plan  
to improve your milk quality  
so you can profit more

Why is milk cooling necessary?

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Both storage temperature and cooling time with gently smooth agitation to reach storage temperature are important factors to maintain the freshness of milk.

Milk leaves the udder at approximately 35°C. To maintain the high quality of the milk is significant and only the rapid cooling to 4 °C is the best way to prevents or minimizes chemical changes and micro-organism growth.



# MP Vertitank

MP Vertitank series are vertical open type cylindrical stainless steel tanks with smooth inner walls, round corners, perfectly polished. They ensure the excellent quality of the milk, while minimizing the energy consumption and operating costs.

Milkplan use the latest manufacturing technologies and its tanks are made of food grade materials according to the European and US standards ISO5708 / EN13732 / 3A. They are available in versions of 2 and 4 milkings and with capacities from 50lt to 2,500lt. MP Vertitank series is the ideal solution for sheep and goat units, small cows farming units and cheese dairies.



Specs

## TECHNICAL SPECIFICATIONS

1. Capacities from 50lt to 2,500lt.
2. Available in versions of 2 and 4 milkings.
3. Laser welded direct expansion evaporator.
4. Freon R449A/R452A.
5. Food grade stainless steel (AISI 304/1.4301) for both inner and outer tank.
6. Control panel with IP 65 sealing rating, digital thermometer, cooling and agitation thermostat.
7. IP55 Agitation motor 30 rpm with a gravity switch.
8. Stainless steel (AISI 304) perforated cover for the cooling unit's protection.
9. Thick thermal insulation with injected environmentally friendly polyurethane foam.

## OPTIONAL EQUIPMENT

1. Available in all voltages and frequencies operating ranges
2. Cooling units suitable for very warm climates (Tropical +43 °C).
3. Various options of stainless steel valve threads DN, SMS, IDF, TRI-CLAMP.
4. Voltage controller (installation is indicated in regions with frequent voltage fluctuations).
5. High precision weighing system ( $\pm 0.1\%$ ) with a separate LCD display 4 or 6 load cells.

# The difference is in the details

MP Vertitank's simplicity of use is ensured by a number of important technical details, such as the careful installation of the cooling unit, the slope design, the optimal agitation positioning, the easy leveling etc.

At Milkplan, we pay special attention to details. With advanced industrial know-how and customization expertise, our MP Vertitanks operate continuously and reliably in livestock and dairy units worldwide.



Fast & efficient milk cooling



## Efficient milk cooling

MP Vertitanks achieve high cooling performance with a direct expansion evaporator, welded with the most modern laser technology, and combined with a highly efficient cooling unit.

The results of extensive studies in the cooling unit and evaporator's design ensure the direct and uniform dissipation of the milk's heat, prevent the formation of ice particles even in little amounts of milk with less energy consumption. All refrigeration units operate with environmentally friendly freon R449A/R452A.



## Thermal insulation

Thick environmentally friendly polyurethane foam is used to provide low temperature preservation and energy saving.



Environmentally friendly



Sophisticated  
design

## Control panel

The electronic control panel is responsible for the milk's cooling and agitation with fully adjustable parameters. It is equipped with a temperature sensor (NTC) IP68 which is mounted in a special design stainless steel box for protection against water. The total ECP is IP55 certified.



Ease  
of use

## Milk agitation

Milkplan's motor prevents milk foaming as it agitates gently the milk at 30 rpm. It ensures the smooth transmission of cooling throughout the tank and keeps the milk a homogeneous mixture. Additionally, it has a gravity switch so that agitation stops automatically when the tank lid is lifted.



# The difference is in the details



Sophisticated design



## Lid elevation system

The specially designed stainless steel lid elevation system by Milkplan, provides extremely easy lifting and holding of the tank's lid. Its robust design offers high resistance to stress of daily use.



Ease of use



## Perforated cooling unit cover

The stainless steel protective perforated cover prevents the entry of small animals and dirt in the cooling unit of the tank, ensuring its nonstop operation. Its easy removal allows direct access to the refrigeration unit for maintenance and repair.

# Tanks that fit your needs



## Measurements

### 50lt to 300lt

Cooling tanks from 50lt to 300lt are ideal for sheep and goats farms.



MPV 300lt

### 400lt to 2500lt

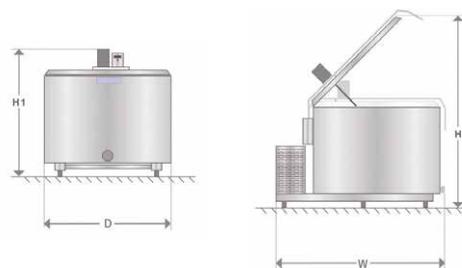
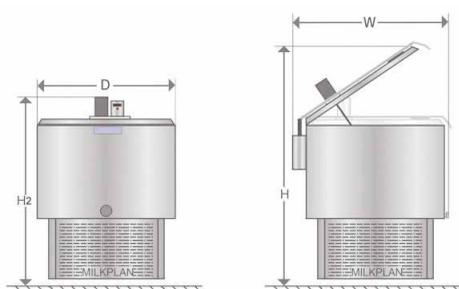
Cooling tanks from 400lt to 2500lt are ideal for small cow farms as well as big sheep and goats farms.



MPV 500lt

| Tank model | W    | D   | H2   | H    |
|------------|------|-----|------|------|
| MPV 50     | 676  | 540 | 1100 | -    |
| MPV 100    | 836  | 690 | 1158 | 1500 |
| MPV 200    | 1036 | 890 | 1314 | 1450 |
| MPV 300    | 1136 | 990 | 1240 | 1600 |

| Tank model | W    | D    | H1   | H    |
|------------|------|------|------|------|
| MPV 400    | 1570 | 1090 | 1050 | 1445 |
| MPV 500    | 1570 | 1090 | 1190 | 1580 |
| MPV 650    | 1600 | 1090 | 1345 | 1765 |
| MPV 800    | 1770 | 1290 | 1265 | 1910 |
| MPV 1000   | 2350 | 1490 | 1250 | 2090 |
| MPV 1250   | 2320 | 1490 | 1510 | 2090 |
| MPV 1500   | 2320 | 1490 | 1584 | 2200 |
| MPV 2000   | 2320 | 1840 | 1510 | 2200 |
| MPV 2500   | 2320 | 1840 | 1710 | 2390 |



# Milkplan at a glance



2 factories in Greece

30.000 sq.m.  
of privately owned facilities



Research and Development

Continuing investments in resources,  
new products and technologies



More than 140 employees

average age of 37 years



No 1 in Greece

More than 1500 milking systems,  
35.000 milk cooling tanks in farms  
and cheese-making units



Exports in more than  
95 countries

18 new added during the last 3 years



80% international sales

Continuing sales increase

Official representative



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**We have a plan.**

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