



Operating and cleaning instructions

First milking

If the milk cooling tank is being used for the first time after the milk has been collected, the cooling should only be switched on when the milk has reached both ends of the bottom of the tank. Then the switch should be turned to the **COOLING POSITION**. From this moment on the cooling process will be controlled automatically. If the milk production is low, less than 10% of the capacity of the tank, switch on the **COOLING UNIT** after milking.

NEVER SWITCH ON THE COOLING UNIT IF THERE IS NO MILK IN THE TANK !!

Next milking

Before milking the handtimer of the stirrer should be set at 35 minutes, this is to ensure a quick blending of warm and cold milk. Then the cooling unit will automatically switch off again. The thermostat regulates the cooling unit so that it cools the milk to the desired temperature and so that it remains at this temperature. To prevent creaming the stirrer works for 2 or 3 minutes every half hour.

After milking

Immediately after milking the working of the installation needs to be checked for the following points:

1. Switch in **COOLING POSITION**
2. Cooling unit on
3. Stirrer is working
4. Milk temperature.

IT IS ADVISIBLE TO CHECK THE TEMPERATURE OF THE MILK AN HOUR AFTER MILKING.

Emptying milk cooling tank

Put the switch on the control panel into the **CLEANING POSITION**, set the handtimer at 2-5 minutes and **OPEN THE MANHOLE LID OF THE MILK COOLING TANK**. Then the emptying of the milk cooling tank can be started. With tanks that are not equipped with automatic cleaning the selector switch should be put into the **STIRRING POSITION**. **OPEN THE MANHOLE LID OF THE MILK COOLING TANK**. After the tank has been emptied the selection switch should be put into **POSITION ZERO. THE AREATOR SHOULD ALWAYS BE ON THE TANK!**

Automatic cleaning with Mueller Matic

Fill the cleaning agent dispenser with **neomoscar® M or MF** as high as the filling remark indicates. Disconnect the outlet valve from the tank and put it into a plastic bucket with cleaning agent. Then carefully place the MUELLER-MATIC-pump with spray pipe straight onto the milk outlet. The space between the end of the spray pipe and the bottom of the tank should be 7.5 cm. Put the lid on the tank again after this has been done. Set the handtimer of the stirrer at 40 minutes and turn the switch on the control panel to the right, until the red light on the Mueller Matic control box starts to burn. The cleaning programme will now start and the milk cooling tank will be cleaned completely automatically within half an hour.

Attention: for milk cooling tanks with a capacity of 7145 l or more the above-mentioned quantities and times should be doubled because these tanks have a cleaning programme lasting one hour.

After the automatic programme has finished remove the MUELLER-MATIC-pump again and **INSPECT THE INSIDE OF THE MILK COOLING TANK**. Clean the outlet valve and disinfect it using a brush and neomoscar® M or MF. Finally the rubber cover ring should be cleaned. Now the milk cooling tank is ready for use again. The outside of the tank should be cleaned periodically with nitroklar GR. In order to prevent lime scale forming the tank needs to be cleaned with acid once every two weeks. This is done as follows: fill the cleaning agent dispenser with **NIROKLAR GR** instead of neomoscar® M or MF as high as the filling mark indicates. Follow the cleaning programme for the Mueller-Matic. For a thorough cleaning it is absolutely necessary that **WARM WATER OF 80-85°C IS USED**.

Hand cleaning

The milk cooling tank can be cleaned by hand with warm water, Teepol and a brush. During re-spraying the stirrer can be switched on by putting the selector switch into the **STIRRING POSITION**. After cleaning the switch should be put into **POSITION 0** again.

Malfunctions

In case of malfunctioning of the installation and/or if the red or orange pilot lights are burning, the following steps should be taken:

1. Put all switches into the correct position.
2. Check the fuses in the main fuse board and/or the division fuse board. In cases of doubt first turn off the main switch on the cooling unit. Then replace all 3 fuses with new ones. With 220V.1 installations 1 fuse is replaced.
3. Press the red reset buttons on the control panel and the cooling unit.
4. Switch on the main switch on the cooling unit again.
5. With milk cooling tanks with a capacity of 5000 l or more, press the reset button for oil-pressure protection on the cooling unit if it is equipped with such a button.

Call your dealer immediately if the milk cooling installation does not function after all these points have been checked.

STATE THE MALFUNCTION AS CLEARLY AND EXTENSIVELY AS POSSIBLE. DO NOT FORGET TO MENTION THE TEMPERATURE OF THE MILK, SO THAT THE RIGHT MEASURES CAN BE TAKEN IMMEDIATELY!

Generally

During the summer period in high temperatures:

1. Check if there is enough ventilation in the milk tank room.
Prevent the suction from warm air by placing a tunnel between the cooling unit and the ventilation grill.
2. If there is a failure in the cooling unit, cool the head of the compressor and the fluid tank with wet towels.

During the winter period the following precautionary measures need to be taken:

1. Close off the ventilation grill.
2. Empty the cleaning agent dispenser of the Mueller-Matic and drain all water hoses and pipes.
3. Protect the Mueller-Matic programme box from freezing.
4. If the cooling unit will not start in low temperatures, place a heating element near the compressor.

MUELLER

MILK COOLING TANKS

Your dealer