Sampler Metatron

- Version "Turn&Mix" -
1 Sampler METATRON

The sampler enables the extraction of samples during milking without vacuum loss. During the milking session at each drain of the measuring reservoir a milk quantity, proportional to the time of opening, flows through the sampler into the sample reservoir. After completion of the milking session a milk sample has been collected, which is representative for the entire milk production. Prior to extraction this milk sample must be thoroughly mixed by intake of atmospheric air. After mixing the milk is drawn away, except for a residue, the actual sample. The remaining sample quantity can, if desired, be increased by shortening the suction hose.

2 Mounting

Place the collecting tank

Loosen the knurled screw, take the hose holder off and pull the hose from the extraction connection (fig. 1).

Slide the collecting tank with holder under the knurled screw and fasten the knurled screw. Connect the hoses as shown in fig. 2.

Note: The extracting hose A must have an inclination between the extraction point and the collecting tank.

This inclination is a must to ensure a correct sample extraction from the sampler. The collecting tank must hang free.

Fig. 1  
Fig. 2
By rotating the sample reservoir four different functions can be set. The relevant positions are marked on the cover plate.

**Milking**

The tank stands at the right-hand stop. The procured sample flows into the tank.

**Mixing**

After completion of the milking cycle, the sample, collected in the tank, is mixed by admitting air (approx. 10 to 15 seconds).

**Suction**

The sample quantity, not required, is drawn away up to the lower end of the suction hose (8) in the milk line. Should the remaining quantity in the tank be too small for the required samples, shorten the suction hose (8) as desired.

**Draining**

The tank stands at the left-hand stop. The milk sample can now be taken with a sample flask, holding it under the bottom valve (9) of the tank.

**ATTENTION!**

Prior to the next milking session the device must be switched back to "MILKING".
3 Cleaning

The sampler is integrated in the rinsing circuit of the milking installation and is cleaned during the rinsing cycle. When cleaning the collecting tank, there are two possibilities:

Manual cleaning

Remove the collecting tank and disassemble.

Swivel the plate over the position “MELKEN” by slightly lifting the stop, so that the catches of the lid unhook. The sliding sealing can now be removed for cleaning. Assembly is carried out in reverse order.

Note: After cleaning of the tank lid the sealing plate must be installed with the plasticized surface up!

Cleaning by connection to the rinsing circuit of the milking installation.

Loosen the knurled screw of the sampler and pull the collecting tank off. Turn the collecting tank upward by 180°. While doing this place the holder of the collecting tank over the hoses. Slide the holder back in the guiding and secure it with the knurled screw (fig. 4).

Connect the rinsing connection with the help of the rinse hose (part of the delivery) to the Tee and the short hose end with the rinsing line (fig. 5).

Additionally, pull the rinse hose, connecting the rinsing line with the milking cluster take-up, off the rinsing line.

Push the short hose end with the Tee on the connection of the rinse line and slide the rinse hose of the milking cluster take-up on the free end of the Tee. The sampler is now connected to the rinsing circuit.

Fig. 4

Fig. 5
After rinsing

- the collecting tank must be turned back to the milking position in order to let residual water run off.
- Store the collecting tank in a clean, dry place until the next milk test. Avoid direct sun-rays.

**Note:**

- Even small water quantities such as drops, which remaining in the collecting tank after rinsing, are able to dilute the fat sample of the initial milking of the next milking session.
- The floating ring seal (6) and the area between the plate (5) and the lid (15) must be cleaned by hand as required.
- Prior to milking pull the rinse hose off the collecting tank lid and push on the rubber cap instead.
## Spare parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Part-No.</th>
<th>Designation</th>
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<tbody>
<tr>
<td>1</td>
<td>7161-2513-010</td>
<td>Sampler</td>
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<tr>
<td>2</td>
<td>7161-1244-020</td>
<td>Holder</td>
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<td>3</td>
<td>7036-2637-010</td>
<td>Short milking hose 8.5x3.75x320</td>
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<td>4</td>
<td>7161-2637-030</td>
<td>Milking hose 8.5x3.75x320</td>
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<td>7161-2627-060</td>
<td>Plate</td>
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<td>6</td>
<td>7161-2479-010</td>
<td>Seal</td>
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<td>Stop</td>
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<td>Hose 7x2</td>
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<td>0007-1945-700</td>
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<td>7161-5588-000</td>
<td>Tank</td>
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<td>7161-1731-010</td>
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<td>7047-1090-030</td>
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<td>15</td>
<td>7161-2457-020</td>
<td>Lid for sample extraction</td>
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<td>16</td>
<td>7161-2045-030</td>
<td>T-hose connection</td>
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<td>Bracket</td>
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<td>0007-3239-890</td>
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<td>Hose 8 x 3.75</td>
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<td>7009-2865-008</td>
<td>Hose 12x5.5</td>
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<td>22</td>
<td>7161-2084-130</td>
<td>Hose holder</td>
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</tbody>
</table>

**Note:** Wear part. Replace after 1500 hours operation during regular service.

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The Allrounder DemaTron 75 measures exact and helps systematically:

- Effective milking with the ICAR – approved Metatron milk meter body allows for a precise milk yield and health control
- A higher working efficiency and protection of the udder through exact determination of the removal point and automatic milking cluster removal
- Higher operating efficiency due to central switching to milking and rinsing modes
- Indication of cleaning quality ensures first-class milk production
- Well visible LED indicator that displays all important information
- Improved working comfort due to variable installation possibilities such as large operating control buttons
- In combination with the automatic DMS 21 animal identification milk quantity information is offered in the office, animal marker can be displayed in the milking parlour
- Via the DemaTron 75 key pad animals can automatically be assigned to a milking stall