

# Technician Instructions for RØ-KA 9500 Multi

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# Instructions for Technicians

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System – Cool – Washing – Service – Back Up

## Menu 5

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### System information

- Shows “System information” readout

Press “**Set Time/date →**”

- Set the time and date
- Finish by pressing “**Accept**”

Press “**Service →**”

- Automatic shift to menu 6.0
- The service technician can now enter his or her 4 digit code.
- Simple calculation of password.
- Press the field where the code will be entered.
- Above this field, a numerical sequence will be briefly displayed.
- The code is the individual numerical values, which must be added to get the value 9999.
- An example: The displayed sequence is 4503.
- The numbers that must be added are 5496,
- The password is therefore 5496.

# Menu 6

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## Technician menu

### Menu 6.1.0

Press "**System setup →**"

### Menu 6.1.1

Press "**Plant setup →**"

- Press "**Tank type**" to set tank as **Horizontal** or **Vertical**.
- Press "**Tank size**" to set tank size (2,500 - 40,000 L).
- Press "**Number of compressors**" to set the number of compressors (1 - 2).
- Press "**Heating option**" to select electrical heating (ON - OFF).

### Menu 6.1.2

Press "**Robot relays →**"

- Press in the grey box with "**ARROW←**" and "**ARROW →**" to set relay positions for relays 16 and 17 in the various function modes (Stop, cool, Washing, Partial collection and Collection).

### Menu 6.1.3

Press "**Sensor setup →**"

- Press "**Adjust flow gauge**" to adjust the flow gauge (1 - 400 pulses/L)
- Press "**Offset T1(sensor type)**" to set the desired offset (-2.0 - 2.0°C).
- The control box can use Ni100 and PT1000 sensors.
- Automatic change to correct sensor type.

### Menu 6.1.4

Press "**Monitor setup →**"

- Press "**Offset T2(sensor type)**" to set the desired offset (-2.0 - 2.0°C).
- Press "**Number of agitators**" to set required number (1 - 3).

### Menu 6.1.5

Press "**Relay 14 and 15 →**"

- Only 2 of the following 3 functions can be selected.
- Press "**Recycled water in**" to activate the function on Relay 14 or 15
- Press "**Dose 2**" to activate the function on Relay 14 or 15
- Press "**Water out 2**" to activate the function on relay 14 or 15

## Menu 6.1.6

Press **“Weight adjustment →”**

- Press **“Offset”** to set required Offset (-100 - +100 L)
- Press **“Gain”** to set the high weight value correctly (99.52 - 100.48%)
- Press **“Water→ Milk conditions”** to set this ratio (85,0 - 100,0 -%).
- Press **“Import from CSV file”**
- This will automatically move to menu 6.1.6.1
- Discovered CSV files will be output to the SD card. Scroll the list with **green Up/Down arrow** if there are many file names.
- Press on the file name and it will be copied to the field in the right-hand side.
- If the file is to be used on the control box, press **“Import data”**
- When the file is imported into the control box, **“Values stored”** will be displayed
- Press **“Tank calibration”** to display mV readout from the weight sensor.

## Menu 6.2.0

Press **“Cool →”**

- Press **“Cooling set point 1”** to adjust the desired milk temperature (2.0 - 20.0)
- Press **“Delay comp 2”** to set the desired time delay in relation to compressor 1 (0 - 4 Hours).
- Press **“Comp. 2 offset °C”** to set stop temperature in relation to the desired milk temperature (0.0 - 5.0°C).
- Press **“Comp. 1 Max single time”** to set the maximum time compressor 1 is active (0 - 60 min).
- Press **“Start level compressor 2”** to set which tank content compressor 2 should start at (0 - 50,000 L).

## Menu 6.3.0

Press **“Washing →”**

### Menu 6.3.1

Press **“General setup →”**

- Press **“Drip time”** to set required drip time (0 - 4 Min.)
- Press **“Final drip time”** to adjust the final drip time (0 - 4 min.)
- Press **“Quick wash option”** to select Quick wash (ON - OFF).
- Press **“Water out in rinse time”** to adjust the time, Water out is active at the end of rinse time (0 - 60 sec.).

## Menu 6.3.2

Press **"6-step washing →"**

- Press in the square fields to bring up the setup keyboard.
- Press for washing step 1 - 6
- Desired number of L (0 - 1,000 L)
- Desired water intake (Cold, Hot, Mix hot/cold and recycling)
- Desired time for each step (1 - 60 min)
- Desired chemical (None, Alkaline 1, Alkaline 2, Alkaline 1/Alkaline 2 and Disinfection)
- Desired chemical quantity (0 - 50 L).

## Menu 6.3.3

Press **"Alternate wash →"**

- Press in the square fields, to bring up the setup keyboard.
- Press for washing step 1 - 6
- Desired number of L (0 - 1,000 L)
- Desired water intake (Cold, Hot, Mix hot/cold and recycling)
- Desired time for each step (1 - 60 min)
- Desired Dose 1 Chemical quantity (0 - 50 dl).
- Desired Dose 3 Chemical quantity (0 - 50 dl)

## Menu 6.3.4

Press **"Wash max times →"**

- Press **"Water in - alarm time"** to set maximum water in time before alarm (0 - 60 min.).
- Press **"Water Out - alarm"** to set maximum water out time before alarm (0 - 60 min.).
- Press **"Heating - alarm time"** to set maximum warm-up time before alarm (0 - 7.5 hours.)

## Menu 6.3.5

Press **"Washing step→"**

- NB: The wash must be started before the step function can be used.
- Press **"Down Arrow"** under step to go to desired step.
- Press **"Down Arrow"** under washing functions (Water in, Rinse/wash basin and Water Out)

## Menu 6.3.6

Press **"Emergency wash times →"**

- Here is a readout of the individual times from the most recent correct wash.
- These times are used if an emergency wash is required.

## Menu 6.5.0

Press “**Service →**”

- Readout of inputs (ON/OFF) in sketch.
- Readout of relays (ON/OFF) in sketch.

## Menu 6.6.0

Press “**Backup →**”

- Press “**Backup settings**” to perform a local backup on the top board of the control box.
- Press “**Restore Settings**” to reload the values from the most recent local backup to the bottom board.



## About RØ-KA

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RØ-KA Industri has for many years accumulated valuable know-how and expertise in the production of bulk milk tanks.

The factory, which was founded in 1950, began production of the first generation of RØ-KA bulk milk tanks in 1967, and is today a well-known supplier to quality-conscious dairy farmers in many countries.

RØ-KA is renowned for high quality craftsmanship and the possibility of individual sizing of most tank dimensions.

RØ-KA exports a large number of tanks, and sales are supported by service teams in all countries. Besides standard bulk milk tanks, our product range includes silo tanks, iced-water cooling and heat recovery systems as well as refrigerated tanks for other liquids, blood for instance.

RØ-KA tanks can be connected to refrigeration units that use alternative refrigerants such as ammonia or iced water, and can be supplied with electric equipment as required.

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