Dispenser-mixer with recipes DT25R

DT25R is the device used to produce certain amount of water to a certain temperature. This is accomplished by mixing of hot and cold water in a separate vessel, installed downstream of the device. DT25R calculates how many liters of hot and cold water must be mixed together in order to perform the job. Water inlet and outlet are connected to the dispenser with established water supply installation.

Dispenser-mixer DT25R has the following characteristics:

☞ *easy choice of recipe*

With just two buttons you can select one of 30 previously stored recipes for quantity and temperature.

☞ *easy setting*

Few of key presses are sufficient to set and automatically store the desired quantity and temperature of the water. The parameters are stored even of switching off the device.

☞ *separate indication for the volume temperature and recipe*

On tree separate fields are displayed preset volume temperature and recipe.

☞ *clear indication of the dosing process*

The device has separate LEDs with labels for the status of the dosing process.

☞ *easy starting*

The start of dosing takes place by pressing a single button, which facilitates the use of the device by the staff. After dosing, the device is ready to immediately perform a new dosing.

☞ *precise execution of the assignment*

The device performs several successive mixing of hot and cold water, so as to obtain an accurate execution of the assignment.

☞ *dosage only of cold water*

By changing a parameter, the device can dispense only cold water.

The device DT25R is used in bakeries, pastry shops etc.

TECHNICAL SPECIFICATIONS.

Operating conditions.

operating temperature	0 - 50°C
protection	IP54 on the front panel
	IP40 on the rest
max inlet temperature	90°C

Storage conditions.

storage temperature	-20 - 80°C
relative humidity	0 - 95 % RH noncondensing

Dimensions.

Dimensions (w, h, l)	400mm x 380mm x 130 mm
Installation	on the wall trough 4 hole on enclosure

Power supply.

range	230 VAC +10/-15%
consumption	20 VA

Accuracy.

When measuring temperature	± 1°C max
When measuring volume	$\pm 1\% \pm 0,25$l max

Water supply fixtures.

dimensions	½" for incoming hot and cold water and water outlet
flow	40l/min nom

Settings.

temperature	0- 99°C
volume	0- 9999 l
recipes	0 - 30

Front panel.

indication	7-segment LEDS
buttons	7 buttons
LEDs	7 pc.
Start/Stop button	Separate d22mm

CONNECTING TO THE WATER AND ELECTRICITY GRID.

Water connection.

Cold water inlet

Hot water inlet

Power supply cable

Water outlet

КОЛИЧЕСТВО РЕЦЕПТА
ТЕМПЕРАТУРА
ДОЗИРАНЕ
СТУДЕНА ВОДА
ТОПЛА ВОДА
ПАУЗА
САМО СТУДЕНА
КОМУНИКАЦИЯ
ГРЕШКА
СТАРТ СТОП
ДОЗАТОР ДТ25
РИНГ ИНЖЕНЕРИНГ
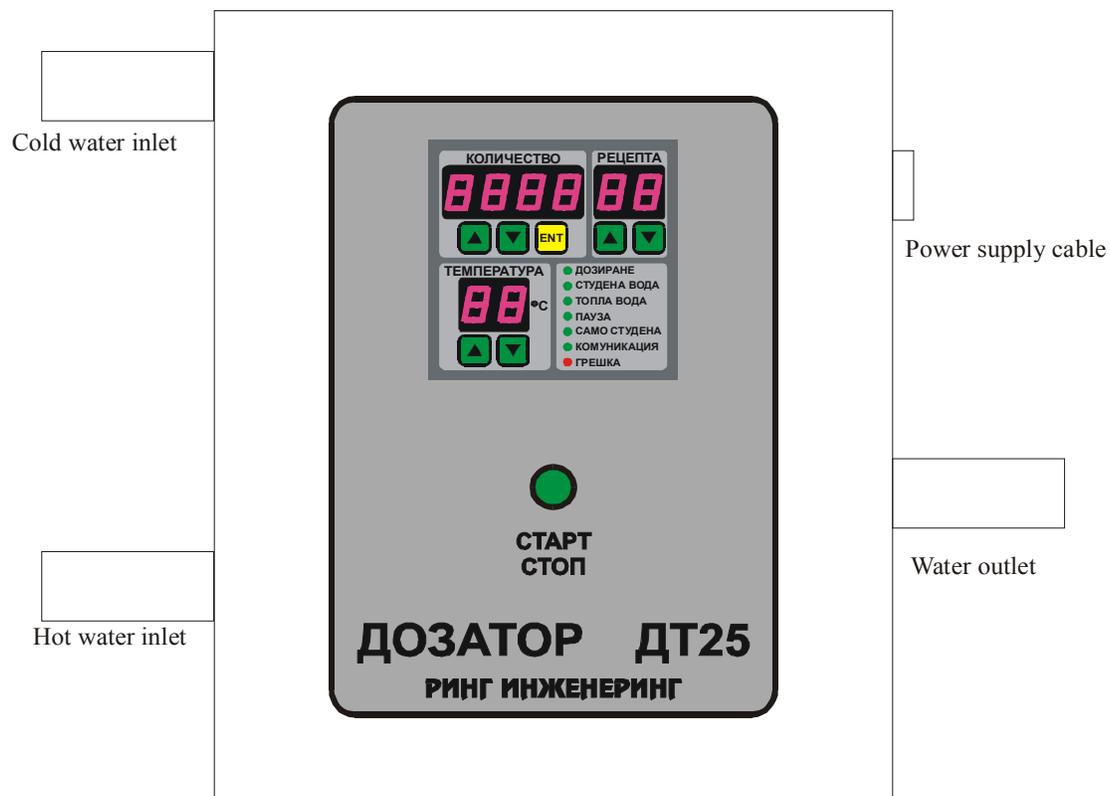
Connection to the power supply.

The dispenser is connected to the network through a single-phase power cable.

OPERATING INSTRUCTIONS.

Choosing a recipe.

With the two buttons in the recipe box, select the desired recipe number for quantity and temperature. In the *quantity* and *temperature* fields the corresponding values are displayed. The recipe thus depicted is ready for dosing.

Adjustment of quantity and temperature.

To adjust the dosing of a set amount of water at a specific temperature, the following actions are performed:

1. Setting the quantity of water to be dispensed.

On the field *volume,* by using the key ⬆and / or ⬇ set the desired amount of liters.

2. Setting the temperature of the water.

On the field *temperature,* by using the key ⬆and / or ⬇ set the desired final temperature.

Dispensing.

Dosing can be done again and again with last set assignments for temperature and quantity. The dosing process begins by pressing the **START / STOP** button. During dosing, the **DOSAGE** LED lights up continuously. The dispenser initially makes cold and hot water samples to measure their temperature. First, cold water is released in the amount specified in the **L_PR** parameter (liter-sample). Once the set liters of cold water have elapsed, the time set in the parameter **t_PR** (time-sampling) is waiting. The temperature of the cold water is measured at the end of that time. The same goes for hot water. If the set temperature is greater than the measured hot water temperature or is less than the cold water temperature, then at this step the process stops and the **ERROR** (red) LED flashes. If the set temperature is between that of hot and cold water, the dosing process continues. The amounts of cold and hot water that will be released at the next dosing stage is calculated. Cool and warm water is introduced in two stages, the final stage being used to correct (if necessary) the quantities initially calculated.

During dosing the LEDs indicates the feeding of cold or warm water or pause.

Dosage can be performed repeatedly with the last set temperature and quantity assignments.

If the **START / STOP** button is pressed again during dosing, the process is terminated (**DOSAGE** LED goes off).

At any time you can see the temperatures of cold and hot water that are measured by pressing the **ENT** and ⬆(cold water) or **ENT** and ⬇ (hot water) buttons. The arrows are from field *temperature*.

Further provides the following parameters:

L_PR – liters for initial sample. This quantity is necessary to drain any water from the water supply network, which has a different temperature from the incoming water afterwards. Here we recommend setting a number from 1 to 10.

t_PR – waiting time after release of the test liters. After this time account the temperature respectively of the hot and cold water. Time is in tenths of a second and it is necessary for the accurate measurement and calculation of required quantities remaining hot and cold water. It is recommended to be about 10 seconds.

Stud – this parameter adjusts DT25R to operate as dispenser for cold water i.e. by pressing the START button is released only set amount of liters from cold water, not mixed with warm water. This is done when this parameter is different from zero. When the DT25R is in this mode, the **ONLY COLD** LED is lit.

All these parameters are accessible from the main screen by pressing **ENT**. Then using the arrows find desired parameter, press **ENT**, with the arrows change the value of the parameter and pressing **ENT** the value is stored.

WARNINGS.

Install DT25R according to the recommendations in this document. If DT25R operates at a temperature, humidity, dust or gas environment other than those specified in the technical characteristics, it is possible to obtain electrical shock, injury or fire.

Install DT25R away from sources of static electricity. Otherwise you may receive a failure or malfunction of the device.

Unplug the power cord before installing or removing any part, module or panel connector. Otherwise, it is possible to obtain electric shock or damage to the DT25R and related equipment.

Turn off the power immediately if the device emits smoke or a burning smell. Operation of the device in such cases could lead to fire or electric shock. The same can also occur when attempting to repair by an unauthorized person.

Do not apply excessive force when connecting to the water supply network, to avoid damage the internal connections and fittings.

Refer to "Ring Injenering" for repair in case of failure of the device. Company "Ring Injenering " does not guarantee correct operation and safety at repairs done by unauthorized persons.