Dispenser- mixer
DT25

DT25 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. DT25 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 DT25 has the following characteristics:

☞ **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 if switching off the device.

☞ **separate indication for the volume and temperature**

On two separate rows are displayed preset volume and temperature.

☞ **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.

The device DT 25 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 125 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	±1l max

Water supply fixtures.

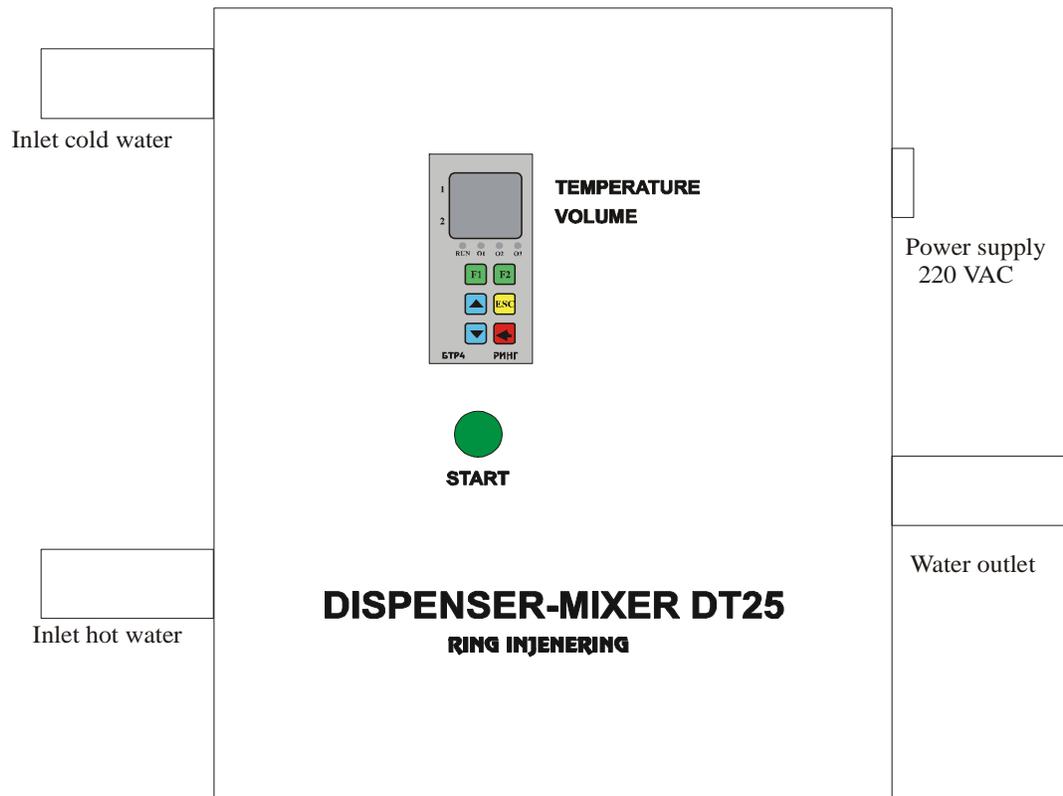|	
dimensions	½" for incoming hot and cold water and water outlet
flow	40l/min nom

Settings.

temperature	0- 99°C
volume	0- 99 l

Front panel.

indication	2 rows 4- digit 7-segment
buttons	Six buttons
LEDs	4 pc.
Start/Stop button	Separate d22mm

CONNECTING TO THE WATER AND ELECTRICITY GRID.

Water connection.

Inlet cold water

**TEMPERATURE
VOLUME**

1
2

RUN O1 O2 O3

F1 F2

▲ ESC

▼ ←

БТР4 РИНГ

START

DISPENSER-MIXER DT25

RING INJENERING

**Power supply
220 VAC**

Water outlet

Inlet hot water

Connection to the power supply.

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

OPERATING INSTRUCTIONS.

Setting.

For setting of dispensing of a known amount of water with a certain temperature following steps are performed:

1. Sets the quantity of water to be dispensed.

By using the key ⬆ and / or ⬇ is set the desired amount of liters, and then is pressed the button ↵

The set quantity is displayed on the lower display.

2. Set the temperature of the water.

Press the button ↵ , in which the lower screen displays *t°C*.

Press the button ↵ again, at which flashes the temperature setpoint.

By using the keys ⬇ and / or ⬆ is set the desired temperature, and then press the button ↵

Press **ESC**, after which the upper row indicates the temperature.

Dispensing.

Dosing process starts by pressing the START button. Dosing can be done again and again with last set assignments for temperature and quantity.

The dispenser makes first a trial run of hot and cold water to measure their temperature. First run cold water in the amount specified in the parameter **L_PR** (liters-probe). The upper display indicates the temperature of the water and the bottom - the remaining amount of the sample. After the expiration of the specified liters cold water waiting time set in parameter **t_PR** (trial time). The temperature of cold water is stored at the end of that time. The same is repeated for the hot water. Then the device calculates and appears on the display quantities of cold and hot water, which will be placed on the next stage of the dosing. If the result of the calculations prove that it can not be achieved the set temperature for the specified amount, on this step the process is terminated and flashes LED **O3** - indicate an error. If it can be obtained the set amount at the set temperature, the DT25 continues dosing process. The device releases consecutively hot and cold water in two stages, as the last one stage is used for correction (if needed) of previously calculated quantities. The top line of the display shows the product of the temperature and amount of water passing. On the bottom line of display shows the remaining liters for dosing.

At any time by pressing F1 dispenser shows currently measured temperature of the hot water, and after pressing F2 - the temperature of the cold water.

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 DT25 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 DT25 is in this mode, the **RUN** LED is not lit.

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

WARNINGS.

Install DT25 according to the recommendations in this document. If DT25 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 DT25 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 DT25 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 Engineering" for repair in case of failure of the device. Company "Ring Engineering" does not guarantee correct operation and safety at repairs done by unauthorized persons.