



## ENG Evaporators EvaPor

### Destination

Family of systems for evaporation is EvaPor devices for sample preparation for liquid chromatography, gas chromatography, mass spectrometry, as well as a group of techniques immunofermentnogo analysis.

### Variety of equipment

Depending on the needs of the laboratory, as part of the system can be supplied with either distribution block EVP- 16, 24, 30, or unit with a tripod termoraspredelyayuschim AL- 16, 24, 30, or unit with a tripod and a temperature controller (solid state thermostat TS- 16, 24 30).

Furthermore, upon request of the customer can be manufactured as a tripod termoraspredelyayuschego chromatography vials, flasks and the beaker and 150 ml.

### Sphere of application

EvaPor evaporation system is most often used when you need to produce a concentration of large numbers of samples or the evaporation of volatile solvents quickly and without the risk of oxidation of the samples in the chemical, pharmaceutical and food industries, as well - the environment.

The system is intended for mounting 16, 24, 30 or 16 mm diameter tubes. For installation tubes of smaller diameter tubes such as "Eppendorf" and apply special heat-conduc-

ive vial adapters. Also, available on request termoraspredelyayuschego manufacturing a tripod as vials for chromatography and flask beaker and 150 ml.

### Principle of operation of evaporators EvaPor

After fitting, mounted on the distribution block, nitrogen or other inert gas is fed into the distribution unit. Unit is provided with individual taps nitrogen supply (number of ports for the tubes). This allows to save inert gas, carrying feeding it only where it is needed.

Distribution unit is also provided with a screw EVP position controller and supports the key that allows you to adjust the position relative to the surface of the distributor plate termoraspredelyayuschego tripod (an optional). In ports termoraspredelyayuschego AL tripod set the required number of tubes, then the distribution unit is lowered to the desired height, and nitrogen supply provided with the necessary speed to the appropriate tubes. With electronic temperature controller TS (available optionally) set the required temperature parameters of the heating tubes.

### Operation

**⚠ Attention! User manual includes instructions for use of the complete system, consisting of a standard distribution block EVP- 16, 24, 30, termoraspredelyayuschy tripod AL- 16, 24, 30 and TS thermostat, thermostat components solid TermoStab. Excellent management system might differ.**

### The first input

Remove the equipment from the factory packaging. Guides one must screw the tripod termoraspredelyayuschy 2. Guides on pre unscrewing retaining screws 3, you must wear without distortions distribution block EVP, lowering it to the desired height, and then fix it with locking screws 3.

### Power Distribution EVP

1. Connect the connector to the highway 4 nitrogen or compressed air. Nitrogen supply should be closed.

2. Open the nitrogen supply in the pipeline. Make sure that the gas is uniformly supplied through the appropriate distribution of the nozzle 5.

3. Adjust the nitrogen flow through the nozzle 5 with 6 taps and key 7.

4. Shut off the nitrogen.

### Solid thermostat TermoStab

1. Plug the electrical plug into an outlet.

**⚠ Attention!**  
**⚡ The socket must be equipped with ground and grounded!**

2. Turn on the device by pressing the button 8. At the same key must be lighted. Instrument screen 9 in a few seconds should be highlighted the ambient temperature, as well as illuminate the value "C", «OUT» and red arrow. Temperature for several minutes will change until it reaches 40 degrees. The instrument will maintain the temperature of 40 ° C.

Coming from the factory units have the thermostat installed at 40 degrees Celsius and the temperature control range of 20-80 degrees Celsius. If necessary, the adjustment range can be changed. Please contact our representative in your region YKGT.

**⚠ It is strictly forbidden to make changes to the settings of the device, not related to temperature regulation in the established manufacturer or an official representative of the range.**

### Work evaporator

Install the samples to be evaporating into the holes termoraspredelyayuschego tripod 2.

Lower the dispensing unit to the desired height by sliding it along the guides 1 and 3 screws securing it.

Open the nitrogen supply in the pipeline.

Open the flow of nitrogen through a nozzle with the help of cranes and the key.

Turn the thermostat, set it to the desired temperature by pressing the «MODE» and the arrow keys.

At the end of evaporation, shut off the nitrogen, unscrew the screws and lift the block 3 at a comfortable height to remove the evaporated samples.

### Benefits evaporators EvaPor

• Configuration allows maximum flexibility to choose the optimal solution

- High rate of evaporation
- Accountability process
- Reliability
- Ease of use
- Low weight, compactness
- Low inertia
- Saving nitrogen
- Affordable price

### Options

EvaPor evaporation system can be supplied with solid-state thermostat, and without it. In the second case, the diameter determined by the diameter tubes installed ports in the thermostat / tripod, which is operated EvaPor. Dispensing unit comes standard tripod termoraspredelyayuschim AL- 16, 24, 30, or unit with a tripod and a temperature controller (solid state thermostat TS- 16, 24, 30). Furthermore, upon request of the customer can be manufactured as a tripod termoraspredelyayuschego chromatography vials, flasks and the beaker and 150 ml.

### Security measures

**⚠ WARNING!**

Although the design of the device provides protection against short circuit and moisture, is strictly prohibited without the use of the instrument ground with a damaged cord, energized, more than 10 % different from 220, when moisture gets inside the housing.

In the case of moisture inside, the instrument must be disconnected from the network and allow to dry. In the case of moisture on the body - wipe dry with a clean cloth.

When the instrument is strictly forbidden to touch the body with one hand, the other - earthed parts (pipe gas and water supply, etc.).

Work with highly volatile and toxic solvents only under a fume hood!