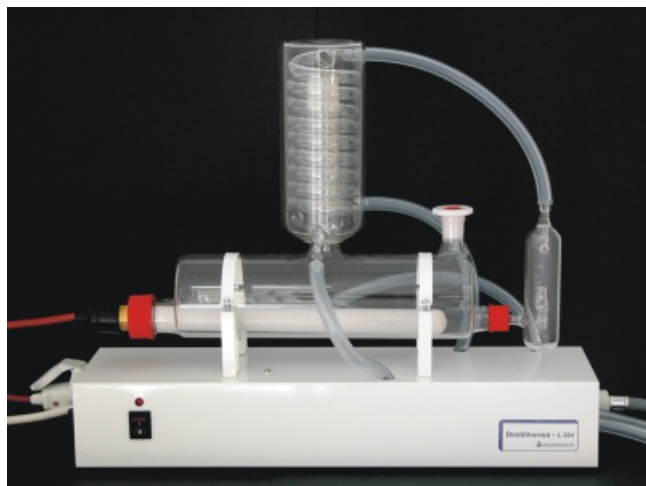




Distribuito da OPTIKA Srl



Destilnorma L304 **EN**

instructions manual

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General specifications

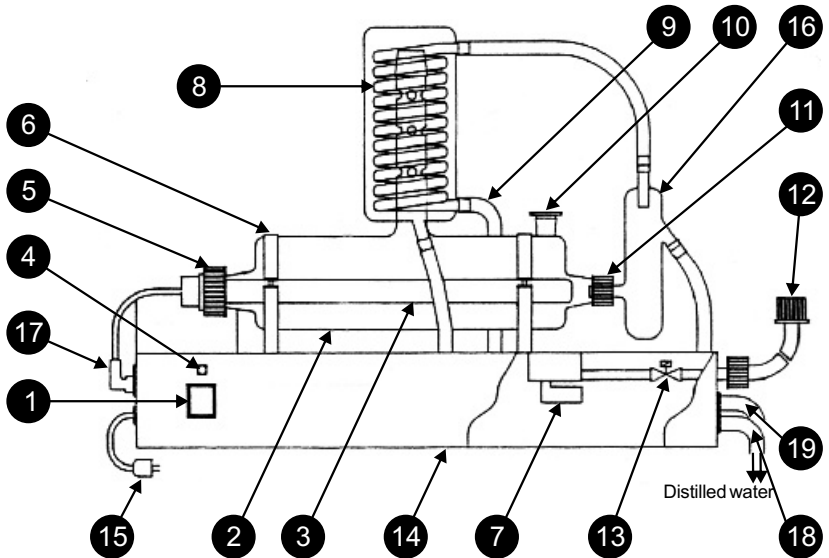
This L304 distillation apparatus can produce an output rate per hour of 4 litres of excellent quality distilled water.

All glass elements are made of borosilicate 3.3, except for the resistance sleeve which is made of quartz.

It operates on a bench, at an environment temperature of 25°C, relative humidity between 45% and 70% and at a normal atmospheric pressure and is equipped with the necessary mechanisms that shut off the system should the water and/or the power supply fails.

The water still L304 meets, in its conception and manufacture, the basic demands of: Directive 73/23/CEE – Directive of Low Tension, modified by Directive 93/68/CEE – and Directive 89/336/CEE – Directive of Electromagnetic Compatibility, modified by Directives 91/263/CEE, 92/31/CEE and 93/68/CEE.

Description



n°	Description	Ref.
1	Switch on/off	70 007
2	Tank	90 650 08
3	Resistance in quartz sleeve	92 000 00
4	Power warning signal	70 019
5	Resistance fix. seal and GL45 thread cap	70 003
6	Clamps	70 004
7	Pressure switch	70 020
8	Cooling coil	90 650 07
9	Water circulation tubes	70 018

n°	Description	Ref.
10	Tank cover cap	70 022
11	Levelling tube fix. seal and GL25 thread cap	70 023
12	Water admission tube	70 012
13	Water valve	70 013
14	Metallic structure	70 016
15	Electric plug	70 005
16	Levelling tube	90 650 06
17	Resistance power socket	
18	Distilled water outlet	
19	Cooling water outlet	

Assembly instructions

Notes:

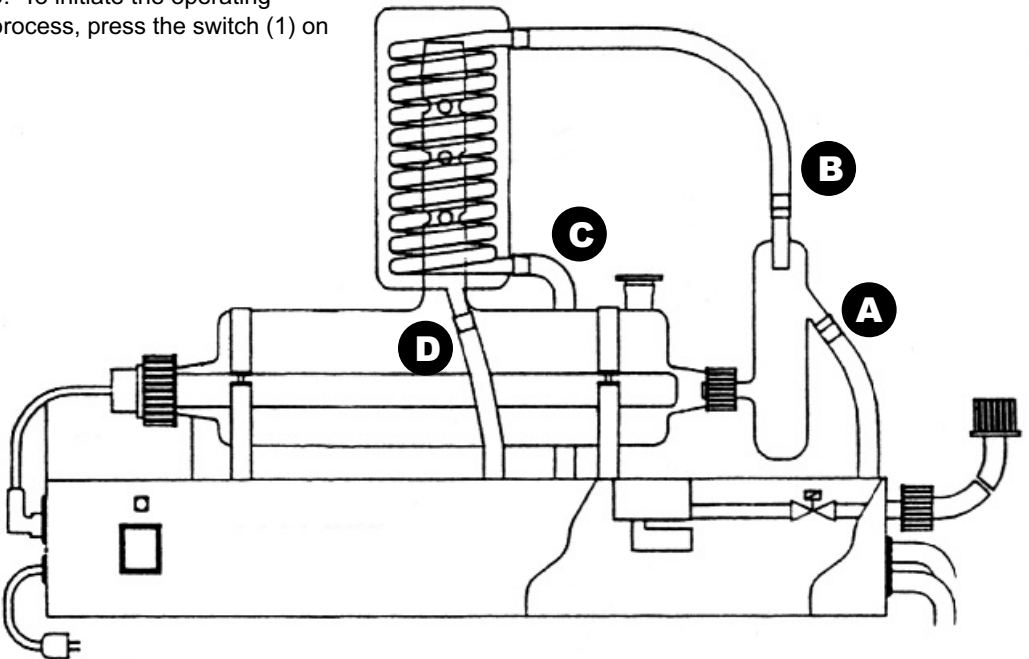
The package contains:

- 1 distiller assembled with the tank; 1 cooling coil;
- 1 resistance; 1 levelling tube

The distiller has four connection hoses: A, B, C and D.

To make the appropriate connections, proceed as follows:

1. Adapt the cooling coil (8) to the tank (2)
2. Adapt the levelling tube (16) to the tank, assuring that the fixation caps are well tighten
3. Connect the hoses A,B, C and D, according to the scheme
4. Insert the resistance (3) in the tank (2)
5. Connect the resistance to the electric socket (17)
6. Set the cooling water outlet tube (19) to a drain pipe or to a water recycling system
7. Set the distilled water outlet tube (18) to an appropriate recipient
8. Adapt the water admission tube (12)
9. To initiate the operating process, press the switch (1) on



Operating instructions

After correctly assembled, in accordance to the given instructions, you simply need to press on the switch (1) to turn the apparatus on.

Open the water tap and adjust the water flow so that the power warning signal (4) lights up.

Heavy water pressure should be avoided once it can provoke some leakage through the upper aperture of the levelling tube (16).

After a few minutes the resistance will warm up and become reddish, starting the distilling process.

Meanwhile adjust the water flow inlet so that the distilled water runs out tepid, yet keeping the power warning signal always lit. The resistance must always be submerged. The water level must be adjusted until resistance is fully alight and distillation process is started.

The distilled water exits through the tube (18) and shall flow freely. The distiller temperature can be controlled by the increase or decrease of the cooling water consumption that should flow freely by the cooling water outlet tube which end should be placed in a lower level.

Cleaning procedures

Depending on the composition of the used water, this apparatus should be periodically cleaned; therefore, the glass components should be disassembled and washed up with a lime remover solution.

In case of persistent residues, one can use hydrochloric acid, taking the due precautions, for it is a corrosive product.

Safety test

Check the operability of the safety elements after a few minutes of activity. Cut off the water inlet and check whether the power warning signal (4) goes off. Consequently, the resistance shall also turn off. To reinstate the activity turn on the water cock.

Cautions

This apparatus has been conceived for professional use; therefore do not leave it at children's reach without supervision.

During the assembling and disassembling be careful while handling the glass components in order to avoid breakage hazard and personal injuries.

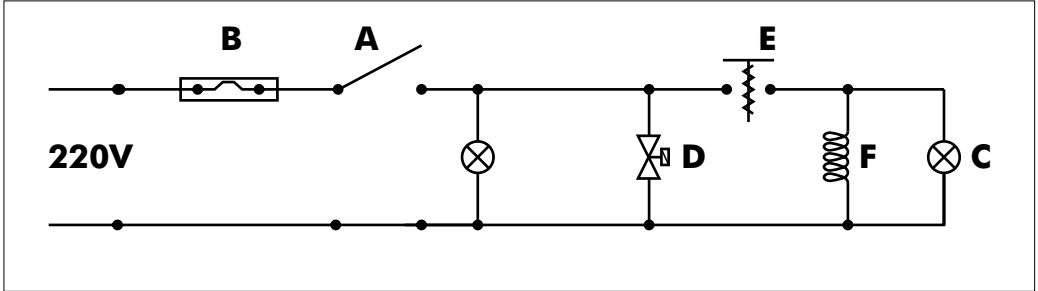
During the cleaning procedures all the due precautions should be taken according to the used cleaning solution.

Never disassemble the apparatus while it is still warm.

Any changes to the electrical circuit and/or replacement of components performed by non authorised technicians may cause a decrease on the safety reliability of the apparatus; therefore the manufacturer will not assume any obligation or liability.

The spare components should be requested according the code numbers as stated in the apparatus description.

Technical specifications



Electrical characteristics:

220 / 240V ~

50-60Hz

2,6 kW

Description

A Switch on/off

B Fusel 16A

C Power warning signal

Description

D Electro valve

E Pressure switch

F Resistance

Class

Litres / hour 3-4 L/h - distilled water

Quality of the distilled water

pH 5,50 - 6,60

Conductivity 1 - 5 μ S/cm

Pyrogen free Yes - accord. to decree 74/90

Temperature 25°C to 30°C

Required conditions

Power 2,6 kW

Electric data 220 / 240V ~ 50-60Hz 16A

Water pressure 1,5 Kg/cm²

Cold water 1,0 L/min.

General data

Dimensions (W. x L. x H.) 600x175x460 mm

Weight (approx.) 7,9 Kg

Notes:

Guarantee conditions

The water distillers L307 are subject to guarantee within a period of 24 (twenty four) months after the purchase date, on the following conditions:

1. The present guarantee applies only to system failures caused by manufacture faults or defective components.
2. The guarantee is not applicable to failures caused by equipment misuse, incorrect installation or use of components non homologated by the manufacturer;
3. All the elements that, by being submitted to their usual performance, are subject to normal deterioration, such as fuses, lamps, plastic parts, switches and enamels, are not covered by the guarantee;
4. All the transport costs for repairing services will be charged to the customer;
5. The customer will be responsible for any damages or misplacements that may occur during transportation for repairing services;
6. The guarantee shall only be considered in force and valid in the presence of the certificate, here below, duly filled in, together with a copy of the invoice testifying the purchase.



Guarantee Certificate

date ____/____/____

Buyer _____

Address _____

Town/Country _____

Zip code _____

Seller _____

Serial n° _____



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