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**SCHLISSMANN
SCHWÄBISCH HALL**



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Getränkeanalytik

INFRARED LABORATORY HEATER IR200, Art.-No.: 1700 - Instruction Manual -

1.) GENERAL INSTRUCTIONS

Before putting into operation, please read carefully the operation manual.

The operator should get especially familiar with the danger instructions and the operating conditions in order to avoid any damage to persons and material.

The devices go into extensive quality controls during the production and before delivery. For damages which arises due to inappropriate operating and/or not duly employment, we will not bear any responsibility and warranty claims.

Necessary servicing and repairing works may only be executed by service personnel of the manufacturer, authorized or especially trained personnel.

Important: In case of an eventual return of the device, it has to be cleaned and to be free of any toxic agents and residues.

2.) CONTENTS:

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3.) WARRANTY CONDITIONS:

According to the warranty conditions C. Schliessmann grants one year of warranty on the device for faultless function. Precondition for this is, that the device is operated according to the rules of this operating manual and that it is not overcharged or operated inappropriately.

4.) DAMAGES IN TRANSPORT:

Please unpack the device and look out for eventual transport damages! A transport damage has to be told immediately to the shipping agency (post, railway or forwarding agency) and a factual statement has to be done to C. Schliessmann.

5.) ADVANTAGES OF THE NEW HEATING DEVICE

- Connection by means of a SCHUKO-plug with integrated illuminating On-Off switch
- High stability because of trapezium-shape
- Optimal contact safety device because of well thought out housing construction
- No open fire/flame
- Ideal energy exploitation by optimized heating sources
- Very quick heating of liquids (also up to 1000 ml) because of the high absorption - efficiency of approx. 90% of the Infra-red radiation
- Very little time of warming - up of the burner, in 3 minutes up to 400°C
- Proper indoors operating
- High durability, maintenance-free

6.) TECHNICAL DATA

Heating power:	200 W
Max. temperature:	520 °C
Connecting value:	230 V - 50/60 Hz
Connecting power:	200 VA
Connecting rod:	approx. 1,7 m
Measurements (WxHxD):	120 x 170 x 107 mm
Weight:	1280 g

7.) SAFETY RULES

Please note the following regulations for your own security:

Choose the position/location far away from combustible walls or objects, as the heating devices can have a heating radiation from over 60 degrees. The devices should further not be exposed to aggressive vapours, e. g. from acids, caustics or solvents.

The devices may not be operated in explosion - endangered or humid spatialities.

The hereunder mentioned substances can corrode the gloss respectively the heating conductor material of the infra-red radiator and can unshorten the durability: peroxide, chlorine, fluorine, hydrofluoric acid, sodium caustic and nitrogen salts.

8.) APPLICATION POSSIBILITIES

- Analytical determination of alcohol, sugar and SO₂ in wines according to Dr. Rebelein
Here, the heating of the cooking flask takes place directly on the heating element (without support grid)!
- Heating of pistons, vessels, test-tubes in various shapes
- Sterilize and cease glowing of instruments
- Soften or melting of thermoplastic specimen
- Dampening in porcelain and metal bowls

9.) PUTTING INTO OPERATION

The device is delivered already connected with connecting rod and SCHUKO plug with lightened 2-pole main switch.

Connect the device to a plug-in toes with protective earthing (please pay attention to the voltage which should be 230 V - 50/60 Hz!), and put it on.

The objects which have to be heated have to be held near to the heating element (area of the biggest heat).

Please note: Do not shut the ventilating openings situated at the sides and bottom of the device, as there could arise the danger of over-heating of the device.

Attention!

Never touch the top of the heating element!!
Even after switching off the device the heating element will stay hot for several time.

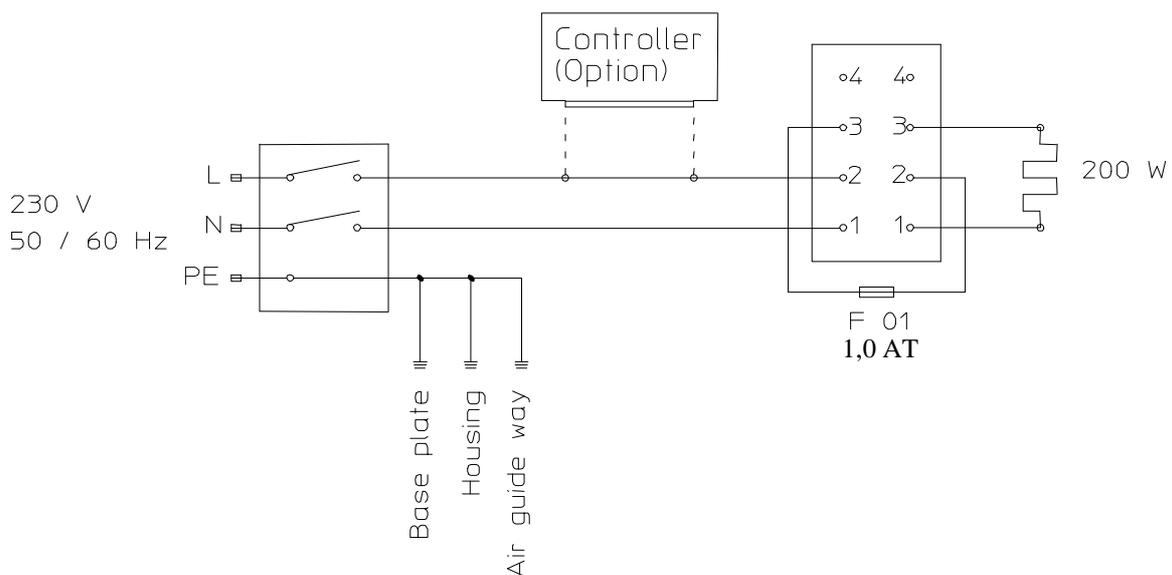
10.) SPECIAL ACCESSORIES / SPARE PARTS:

The support grid (**art. no. 1705**), which is not required for the analysis methods according to Dr. Rebelein, is available separately. Of course, it may only be attached or removed when the unit is cold. Please ensure that it is in the correct position: If it has too much play, it must be turned through 90°.

The heating element is available separately as a spare part, **art. no. 1701**.

We will be happy to replace the heating element for you or offer to check it or carry out any necessary repair work.

11.) WIRING DIAGRAM:



12.) DEVICE DRAWING:

