



# HEATING MANTLE

## Heating Mantle

### General Description :

Heating Mantles, "JSGW", made of Knitted Glass Yarn, heaters are fitted beneath it, which provides uniform heating of flasks upto 400°C. The mantles are fitted in a nicely painted sheet metal case, filled with Glass Wool insulations, provided with an energy regulator, indicator and a cord.

### Technical Specifications :



Cat. No.	Capacity ml.	Watts
1196/1	50	60
1196/2	100	60
1196/3	250	150
1196/4	500	200
1196/5	1000	300
1196/6	2000	450
1196/7	3000	450
1196/8	5000	600
1196/9	10000	2x600
1196/10	20000	3x600
1196/11	50000	6x600

**SPARE MANTLES WITH HEATERS ALSO AVAILABLE.**

### Safety Instructions :

- The operator has to make sure that the heating mantle is stable. Eg. On a flat surface.
- These heating mantles should not be operated unattended.
- Continuous duty might lead to excess temperature if there is no temperature control. Under these conditions the heating mantle will be damaged or destroyed. The temperatures stated on the type plate are the maximum operating temperature of the heating element. The operator has make sure that the maximum operating temperature is resistant to the respective maximum operating temperature. Any prescriptions or specifications issued by the procedures of glassware and media must be observed.
- The temperature which can be attained does depend, however, on the individual operating conditions. Thermal conductivity and if applicable, the throughput of the media to be heated determine the final temperature, if no temperature regulation is being used.
- For safety reasons heating mantles should be operated with appropriate temperature controllers and / or temperature limiters.

### Important Cautions

- Do not use any heating mantle without flask.
- Heating mantles are to be operated in accordance with individual national regulations or the specifications of the professional associations concerned in each case.
- These heating mantles are not moisture protected, and must therefore be protected against humidity and damp, in the particular against aggressive media, a few drops of which could be sufficient to destroy the heat conductors. A heating mantle which has become wet may only be used again once it has been thoroughly dried out for half an hour (for preference in a drying cabinet).
- In the event of the heating mantle being wet through, for example due to a vessel breaking or due to overflow, the device is to be disconnected from the mains by pulling out the plug.
- Do not touch the heating surface when they are switched on.
- This also applies to heating mantles when dry and ready for operation.
- Do not touch the surface of the heating element while energized or hot.
- The upper edge of the heating mantle can also take high temperatures and must therefore not be touched during operation. Do not use metal instruments near the heating element surface of the mantle. Do not use the heating mantle with mantle with metal flasks or container.
- Do not install the heating mantles in hazardous areas. They are not explosion protected and accordingly may not be used for heating processes in which there may be a risk due to explosive media or explosive gas air mixtures.
- Connection to the electrical supply is to be made via a standard 2 pin plug with protection contact. Any change of plug or fixed connection to an electricity supply must be made by a competent electrician
- You can use a soft moistened cotton cloth to clean only the outer surface of the heating mantle.

### Symbols of the instrument :

Cation : Hot surface.



### Please Note :-

The energy regulator dial is marked 0-100. This marking does not indicate temperature. It indicated control level that is at position '0' minimum power is allowed to flow and at position '100' maximum power.

Please keep your heating mantle in dry place and ensure that there is no spillage of the solvents on to the surface or the heating yarn. In case of a spillage stop the operation of the unit by externally switching off the power to the unit and keep the unit to dry. Operate the unit again only when it is completely dry.

All heating mantles are heated up before delivered. The discolouration of the glass fabric is due to technical reasons and does not constitute any diminution in quality.

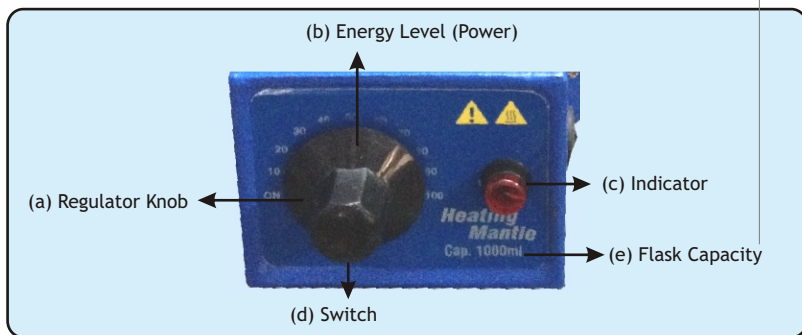
In case the unit does not work please disconnect the unit from the power source remove the fuse and check. If the fuse is blown; always replace with fuse of same rating for continued safety .

In case the problem is not solved please take the unit to your reseller for repairs.

### Setting:-

After connecting the mains plug, the heating mantle can be switched on using the Energy Regulator switch located on the front panel. The desired heating capacity is achieved by the energy regulator switch settings according to the following scheme : Operating Instructions. Use Flask of corresponding capacity as indicated on the heating mantle.

### Energy Regulator Positions :



### Operating Instructions :

1. Put the Flask with solvent onto the mantle. Make sure that the flask makes good contact with the yarn. (E)
2. Ensure that the power knob is at OFF position. (D)
3. Connect the heating mantle to power source.
4. Switch on the energy regulator by rotating its knob. (a)
5. Red indication glows which shows that the heating has started. (C)
6. Fix the knob position at maximum i.e. 100. (B) When the desired temperature is attained, reverse the regulator Knob and red light indicator (c) will go OFF.
7. Leave the regulator knob (a) at this position. This will maintain the desired temperature.
8. After use keep the unit in safe place disconnected from power.

### Maintenance & Repair :

According to the safety regulations the operator has to verify regularly the safety and functioning of the heating mantle \*just as other electronic devices, Repair must be done at the factory or by authorized companies.

## HEATING TAP

Heating Tape made of Knitted Glass Yarn sleeve, heater is fitted in the sleeve, can be used for heating upto 400°C .

1196/24	135/125 cm	20 mm	125
1196/25	260/250 cm	20 mm	250
1196/26	510/500 cm	20 mm	500
1196/27	510/500 cm	40 mm	1000
1196/30	Temp. Control Unit with energy regulator, wire cord and multi socket of 5 amp and 15 amp.		



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## JAIN SCIENTIFIC GLASS WORKS

14, HSIIDC, Industrial Estate, Jagadhari Road, Ambala Cantt. 133 001 (INDIA)

Tele : 91-171-2698184, 2698185

E-mail : [info@jsgw.com](mailto:info@jsgw.com) / Web : [www.jsgw.com](http://www.jsgw.com)