

4. Consistent heating and mixing.
5. Silicone surface for anti - skid.
6. Knob for electronic variable speed control.
7. Knob for regulating variable power.

Technical specification:-

Model No. (230 VAC/50Hz)	Model No. (115 VAC/60Hz)	Wattage (W)
410.AG.01	410.AG.02	185

- Heating plate material : Silicone & aluminium
- Number of stirring positions : 5
- Speed range : 0 to 1200 RPM
- Maximum stirring bar length : can use up to 30mm bar
- Temperature range : Ambient to 120°C
- Temperature constancy in medium : 2 ±1K
- Stirring quantity max. per stirring position (H2O) : 0.41
- Stirring position distance : 90 mm
- Dimension of Hotplate Body : 554 x 127 x 75 mm
- Weight of Body : 2.5 kg approx.
- Permissible ambient temperature : 5 to 40°C
- Permissible relative moisture : 80%
- IP Class : 10

Maintenance & repair:-

According to the safety regulations the operator has to verify regularly the safety and functioning of the Multi Position Stirrer (just as other electronic devices, Repair must be done at the factory or by authorized companies.)

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ISO 9001:2008 Certified Co.

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GLASSCO

Multi Position Stirrer

USER MANUAL

410.AG



Congratulations on your purchase of a Glassco Multi Position Stirrer Hot Plate.

General Description:-

Multi Position Stirrer equipments are laboratories device. The device is suitable for simultaneous mixing of substances. The built in stir makes it possible to mix 5 stirring positions at the same time and with equal intensity. The mixing intensity depends on the motor speed and the size of magnetic stirrer bar. The model 410.AG.01 & 410.AG.02 are also suitable for controlling temperature.

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Safety Information:- This product has been designed for safe operation when used as detailed in accordance with the Manufacturer's instructions.

General Remarks:-

- The operator has to make sure that the MPS (Multi Position Stirrer) is stable.
- Put only Glass beaker or conical flask on the silicone coated surface plate.
- Always replace the fuse from the same type & current.
- Never rotate the Heat & Stir knob out of their ranges to avoid damages.
- These equipments should not be operated unattended.
- Do not lift unit by the top.
- Don't spill any liquids in to the equipments.

➤ Important Safety Instruction:-

- Only staff who have been trained accordingly, know the appliance and are authorized to carry out work in this field should use this appliance.
- Never turn on the Heat & Stir knob without load.
- Keep the top plate dry.
- Do not touch the heating surface when they are switched on.
- Do not install the equipments in hazardous area. They are not explosion protected and accordingly may not be used for heating & stir processes in which there may be a risk due to explosive media or explosive gas air mixtures.
- To avoid electrical shock, completely cut off power to the unit by disconnecting the power cord from the unit or unplug from the wall outlet. Disconnect unit from the power supply prior to maintenance and servicing.
- To avoid electric shock always use a properly grounded electrical outlet of correct voltage and current handling capacity.
- If the power cable is replaced, it must be by one of the same type.
- Never heat up any medium with ignition point higher than 100°C.
- Please make sure that the mains cable does not contact the heating plate.
- You can use a soft moistened cotton cloth to clean the outer surface of the equipments.
- Don't use in the presence of pressurized or sealed containers. Fire or explosion may result, causing severe injury or death.

Symbols On The Instruments:-



Caution:- For continued safety replace only with fuse of same rating.



Caution:- Hot surface

Unpacking & Contents:-

Please unpack the equipments carefully and check for any damages. It is important that any damages which may have arisen during transport are ascertained when unpacking. If applicable a fact report must be sent immediately.

Please check the contents of your carton against the relevant Product .

Item No.	Description	Qty
1.	Multi Position Stirrer	1
2.	User manual	1
3.	Stir bar	5
4.	Power cable	1



Installation:-

Electrical Safety And Installation

This equipment is designed to be used safely under the following conditions:-

- Indoor use.
- Mains supply voltage fluctuations up to $\pm 10\%$ of the nominal voltage. This equipment must be earthed / grounded to a fixed earth / grounded mains socket outlet. The mains supply is to be earthed / grounded in accordance with current legislation. See Technical Specification for recommended fuse ratings.
- Ensure only the correct rated mains input fuses are fitted. (Where applicable ensure the correct Mains cord and moulded IEC plug and lead set fuse if fitted).
- Check the voltage on the product data label on this product unit and those of any accompanying electrical accessory. Ensure the rating conforms to your local supply.
- Do not install this product or accessories on a surface which may become flooded.

Operating Instructions :-

1. Place the unit on the level table.
2. The device is switched ON/OFF by means of the appliance switch located on the left side of unit.
3. Put the beaker or conical flask with liquid on the silicone coated surface.
4. Put the stirring bar inside the Beaker or Flask for stirring option.
5. Ensure both the heat & stir knob are OFF position.
6. Connect the equipment to the power source.
7. Set the required temperature and the stir speed with the heat and stir knob by rotating.
8. Green indication glows which shows that the heating has started. And the Red indication glows which shows that the stirring has stated.
9. When the heat & stir process is complete, switch the heat and stir speed by knobs to their off positions.

Features:-

1. Maximum heating plate temperature up to 120°C.
2. Maximum Stirring speed up to 1200 RPM.
3. Simultaneously operating stirrers.