

**Components:**

- #130-20-01-1 Cover, 115 Volt
- #130-20-01-2 Cover, 230 Volt
- #130-21 Cup, Stainless Steel
- #130-25 Heating Element, 115 Volt, 150 Watt
- #130-31-001 Thermostat
- #152-38 AC Power Cord, 230 Volt
- #170-09 Insulation Board
- #170-10 Thermostat Pilot Light
- #171-32 Midget Knob
- #171-82 AC Power Cord, 115 Volt

**Components:**

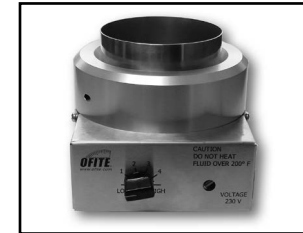
- #130-20-01-1 Cover, 115 Volt
- #130-20-01-2 Cover, 230 Volt
- #130-21 Cup, Stainless Steel
- #130-25 Heating Element, 115 Volt, 150 Watt
- #130-31-001 Thermostat, 50 - 300°F
- #152-38 AC Power Cord, 230 Volt
- #170-09 Insulation Board
- #170-10 Thermostat Pilot Light
- #171-32 Midget Knob
- #171-82 AC Power Cord, 115 Volt

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**Cup Heater with Stainless Steel Cup**  
**No. 130-20 - 115 Volt**  
**No. 130-30 - 230 Volt**

**Instruction Manual**  
Updated 4/2/2025

Ver. 4

**OFI Testing Equipment, Inc.**



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**No. 130-20 - 115 Volt**  
**No. 130-30 - 230 Volt**

**Instruction Manual**  
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### Introduction:

Cup heaters are designed for controlling temperature of a mud sample while taking readings with a rheometer or viscometer. Drilling mud has a low thermal conductivity, so the mud must be agitated in order to reach a uniform temperature within a reasonable time.

### Caution:

1. Do not leave viscometer rotor immersed for long periods in the mud as vapors will travel up into the bearings and condense, causing corrosion.
2. Do not heat fluid over 200°F.
3. Do not immerse cup heater in water when cleaning.

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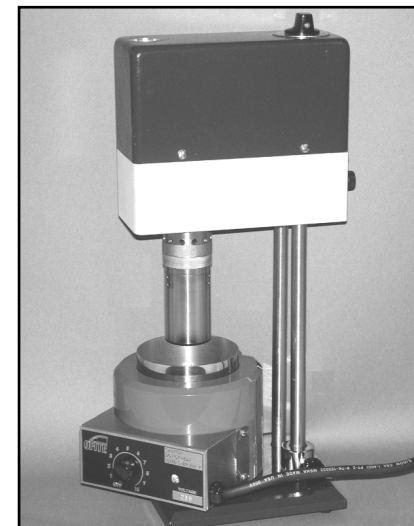
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### Procedure:

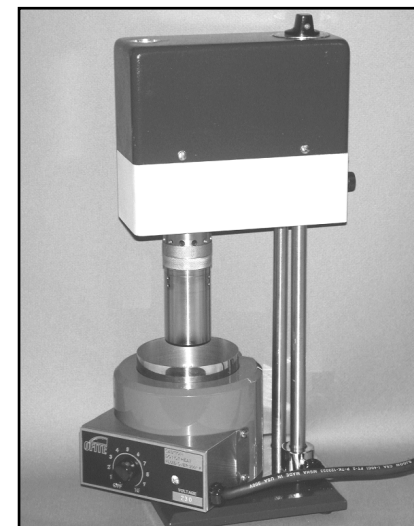
1. Plug the cord into 115 or 230 volts AC as indicated on the nameplate (#130-20 is 115 V, #130-30 is 230 V).
2. Turn the thermostat clockwise to about three-fourths of the range, which will be 185°F, and allow 15 minutes for heat-up. The pilot light will light when the well reaches the set temperature.
3. Place an OFITE #154-00 or #154-10 Thermometer in provided thermometer hole on the side of the well to read well temperature. The thermostat should be set about 50°F above desired mud temperature.
4. With the well pre-heated, place the cup of mud in the well. Stir mud frequently, checking also with a thermometer. When the mud approaches the desired temperature, cut the thermostat back about ¼ turn to avoid overheating.
5. Place entire assembly on base of OFITE Viscometer or Rheometer. The holes in the shelf of the OFITE Viscometer have been relocated to hold the cup heater at 45° to the line of the instrument for better accommodation (see picture to right).



6. Raise or lower instrument to proper depth and stir. Recheck temperature and take reading. Adjustment of temperature may be needed if instrument bob and rotor are cold.

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