

THERMOCUP, OFI
Part No. 130-38 115 volt model
Part No. 130-38-1 230 volt model

Thermocups and cup heaters are designed for controlling the temperature of a mud sample while taking readings with a rheometer or viscometer. Normal heat-up time is 15 minutes and the pilot light turns on when the well reaches the set temperature. Drilling fluid has a low thermal conductivity, so it must be agitated in order to reach a uniform temperature within a reasonable length of time. For safety considerations the fluid should never be heated above 200°F (93°C). The rotor and bob should not be immersed for long periods in the fluid as vapors will rise up into the bearings and condense causing corrosion. The holes in the shelf of the OFI Viscometers have been positioned to hold the heated cups at a 45° angle to the line of the instrument for better accommodation of thermometers and power cables.

For regulated temperatures up to 200°F (93°C)

Size: 4.0 x 2.75 x 3.75 inch (10.2 x 7.0 x 9.5 cm)

Weight: 2 lbs 11 oz (1.2 kg)

Components:

- #130-26 Heating Element, 115 Volt, 150 Watt
- #130-27 Pilot Light, Red
- #130-31 Thermostat, 50 - 300°F
- #130-39 Thermostat Cover
- #135-18 Socket Set Screw
- #154-00 Thermometer, Metal, 5", 0 - 220°F
- #171-32 Knob, Midget
- #171-82 Power Cord, with Male Plug, 8 foot, 115 Volt

Procedure:

1. Plug the cord into the proper voltage outlet (115 or 230volts AC), and place a stem thermometer in the hole on the side of the heating well.
2. Turn the thermostat clockwise to about three-fourths of the total range. This will be approximately 100° F (38° C), and allow 15 minutes for the fluid to heat up. The pilot light will light when the well reaches the set temperature.
3. After the thermocup has pre-heated, place the test fluid in the well. Stir the fluid frequently and also check the fluid temperature with the thermometer. When the fluid approaches the desired test temperature, turn the thermostat back 1/4 turn to avoid overheating.
4. Place the assembly on the base of the Viscometer. Raise the shelf or lower the instrument to the proper depth as indicated by the scribed line on the rotor sleeve. Re-check the temperature and record the viscometer dial readings. A temperature adjustment may be necessary if the instrument bob and rotor are cold.

Note: The holes in the shelf of the OFI Viscometer have been relocated to hold the cup at a 45° angle to the line of the instrument to give clearance for a 5 inch metal stem thermometer.

Caution: Never heat the fluid over 200° F (93° C).

For more information, please contact us:

[ExpotechUSA](#)
[10700 Rockley Road](#)
[Houston, Texas 77099](#)
[USA](#)

[281-496-0900 \[voice\]](#)

[281-496-0400 \[fax\]](#)

E-mail: sales@expotechusa.com

Website: www.ExpotechUSA.com