



DRILLING FLUIDS EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our drilling fluids product line includes innovative designs such as the Model 900 Viscometer, which showcases our ability to develop new technology to meet customer and industry demands. We also offer Retorts, Aging Cells, Roller Ovens, Mud Balances, Filter Presses, and all other instruments required to evaluate drilling fluid properties according to API Recommended Practice 13B-1 and 13B-2.

As an independent manufacturer and supplier, OFITE has one priority, our customers.

Universal Heat Cup

The Universal Heat Cup is designed for controlling the temperature of a fluid sample while taking readings with a rheometer or viscometer. Normal heat-up time is 15 minutes and the pilot light turns on during heating.



Features

- Designed to work with the Model 900 Viscometer
- Can be plugged directly into the Model 900 Viscometer, eliminating the need for a second power outlet
- Allows the ORCADA software to control the temperature of the fluid sample during a test
- Can be used with other viscometers like the Model 800 Viscometer and the Hand-Crank Rheometer. (An additional power cable is sold separately)
- Stainless steel cup is easier to clean up and promotes safety
- Improved heater design results in faster heating times





Technical Specifications and Requirements

- #130-76-10 115 Volt
- #130-76-10-1 230 Volt

Specifications

- Maximum Temperature: 200°F (93°C)
- Size: 4.5" × 4.5" × 4" (11 × 11 × 10 cm)
- Weight: 3 lb (1.36 kg)

Optional

An additional power cord is necessary when using the Universal Heat Cup without a Model 900 Viscometer:

- #152-37 AC Power Cord, 115-Volt
- #152-38 AC Power Cord, 230-Volt

Components:

- #130-31 Thermostat
- #130-38-2 Red Lens for Lamp
- #130-38-3 Lamp
- #130-38-7 Stainless Steel Cup
- #171-32 Knob

Optional:

An additional power cord is necessary when using the Universal Heat Cup without a Model 900 Viscometer.

- #152-37 AC Power Cord, 115-Volt
- #152-38 AC Power Cord, 230-Volt

OFI Testing Equipment, Inc.

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Universal Heat Cup
No. 130-76-10 - 115 Volt
No. 130-76-10-1 - 230 Volt

Instruction Manual

Updated 5/25/2011
Ver. 1.0

OFI Testing Equipment, Inc.

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Universal Heat Cup
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No. 130-76-10-1 - 230 Volt

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Introduction:

The OFITE Universal Heat Cup is designed for controlling the temperature of a fluid sample while taking readings with a rheometer or viscometer. Normal heat-up time is 15 minutes and the pilot light turns on during heating. 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.

The Universal Heat Cup is designed to work with the OFITE Model 900 Viscometer. It can be plugged directly into the Viscometer, eliminating the need for a second power outlet. This also allows the ORCAD software to control the temperature of the fluid sample during a test.

It can also be used with other viscometers like the OFITE Model 800 Viscometer and the OFITE Hand-Crank Rheometer. An additional power cable is necessary (not included).

Refer to the viscometer instruction manual for details on using the viscometer.

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It can also be used with other viscometers like the OFITE Model 800 Viscometer and the OFITE Hand-Crank Rheometer. An additional power cable is necessary (not included).

Refer to the viscometer instruction manual for details on using the viscometer.

Operation:

1. Plug the power cord into a suitable power outlet (either 115 or 230 volt) or into the back of a Model 900 Viscometer.

When plugging directly into a power outlet, an additional power cord is necessary (#152-37 for 115 volt or #152-38 for 230 volt).

2. Add test fluid to the stainless steel cup and place it in the heating well.
3. Immerse the rotor in test fluid to the scribed line. Insert a thermometer or thermocouple into the fluid.
4. Place the viscometer on the stir setting.
5. Set the thermostat about 2/3 of the way to the highest setting. Wait for the temperature to stabilize. Adjust the thermostat if necessary.

If you are using the ORCAD software, turn the thermostat on the Heat Cup up to the highest setting. The software will control the temperature.

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Maintenance:

Thoroughly wash the removable stainless steel cup with soap and water after each use.

Caution:

1. Always unplug the Universal Heat Cup (or turn off the Model 900 Viscometer) when not in use.
2. Never heat fluid over 200°F (93° C).
3. Never immerse the Universal Heat Cup in water when cleaning.

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Thoroughly wash the removable stainless steel cup with soap and water after each use.

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