

# Cell Heater LCM-8716-H Manual



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## Description of the Cell Heater LCM-8716-H

The Cell Heater LCM-8916-H consists of a container which accepts the cell delivered with the Conductivity Meter For Liquids LCM-8716. The air gap between container and cell is small, no liquid contact media is required.

On the rear side, one plug is for powering the unit with mains and a second connector for connecting the precise “100 Ohm RTD” thermometer coming with the Cell Heater LCM-8916-H.

On the front side, a Temperature Controller is used for indicating the actual temperature and for regulating the heating power. A switch labeled “HEATER ON” turns on the heating. By setting this switch to the off-position, the Temperature Controller can be used as a simple thermometer.

All the operating parameters of the Temperature Controller are factory preset for best regulating properties.

## Operating the Cell Heater LCM-8716-H

The setpoint temperature can be viewed by pressing “\*” at least three seconds on the Temperature Controller.

By pressing both “\*” and “▲” the setpoint temperature can be increased and by pressing both “\*” and “▼” the setpoint temperature can be decreased.

The maximum heating rate is around 4 °C/min. Please allow ½ to 1 hour of heating up time from 20 °C to 90 °C. This “slow heating” provides a perfectly homogeneous temperature in all the cell.

**CAUTION: Hot Oil can cause severe burnings. Use this heater only on a secure bench. No loose cables must hang around and unauthorized persons must be kept off.**

## Advanced settings

The Temperature Controller allows the setting of a multitude of parameters. Normally, the factory preset values shouldn't be changed; one single faulty setting may result in a Heater out of action. A detailed description can be found in the

“CAL3200 AUTOTUNE TEMPERATURE CONTROLLER OPERATING MANUAL” coming with the Cell Heater LCM-8716-H.