

## INFORMATION

# MTE-RECORDING ATMOSPHERIC CONSISTOMETER

MODEL No. CMNT-002

### METHOD

The MTE Recording Atmospheric Consistometer is used for testing oil well cement slurries in accordance with the procedures listed by the American Petroleum Institute (API), Specification 10. Specifically, the apparatus is used in conjunction with the testing procedures for:

A. Thickening time measured at atmospheric pressure B. Watercontentofslurry C. Determination of rheological properties of cement slurries D. Fluid loss characteristics of cement slurries.

Messina's Model CMNT-002 is available in 120V, 240V, and 50Hz, or 60Hz configurations.

### DESCRIPTION

The MTE Recording Atmospheric Consistometer consists of a cabinet which houses the instrument, drive mechanism, water/oil bath and cooling coils, and two (2) sample containers for testing cement slurries. The Model CMNT-002 incorporates a microprocessor temperature controller/indicator which allows control of the bath temperature from ambient to 93°C (200°F). Slurry consistencies and temperature are continuously recorded on a multi-channel strip chart recorder. The unit is also equipped with adjustable alarms that signal the operator when a cement slurry has reached a pre-set consistency.

The Model CMNT-002 is equipped with a long-life driver gear/belt assembly which rotates the cement slurry containers at variable speeds from 10 to 200 rpm. The slurry containers are rotated by engaging the lock pins located on the potentiometers. Mineral oil is recommended as the heater bath fluid due to its low rate of evaporation and high flash point. Utilities required for the Model CMNT-002 are 115V, 50/60Hz, single phase, 20 amp capacity or 220-240V, 50/60Hz, single, 10 amp capacity.

A complete instruction manual, schematics, drawings and parts list are furnished with each instrument. The operator should read these instructions before attempting to operate the unit.

The units are calibrated according to the instructions outlined in API Specification 10.

#### **CERTIFICATION**

The MTE Recording Atmospheric Consistometer is certified by Messina Incorporated to be free of manufacturing defects prior to shipment. Each unit carries a Warranty for a period of one year which can be extended at the buyer's option. Shipping dimensions are 24"W X 32"D X 36"H, net weight 75 lb.

**MTE- RECORDING ATMOSPHERIC CONSISTOMETER is a Messina trademark**