

## BALL PENETRATION APPARATUS (KELLY BALL)



The **C4301** Ball Penetration Device is used for determining depth of penetration of metal weight in fresh concrete. The apparatus consists of a metal ball with rounded bottom, graduated rod, handle and stirrer. The weight is placed in the concrete and the depth of penetration noted on the rod. Also furnished with the device is a 30 lb metal cylinder with hemispherical bottom and graduated handle. A frame is also included to guide the handle and serve as a reference point. Concrete can be tested as placed in the forms prior to any manipulation or in a suitable container.

MODELS	DESCRIPTION	STANDARDS
<b>C4301</b>	BALL PENETRATION APPARATUS	ASTM C-360 / AASHTO T-183

## ELECTRONIC TEMPERATURE RECORDER

The **C4961** low range temperature recorder has four selectable temperature ranges: -50 to 50 °F/°C, 0 to 100 °F/°C, 0 to 250 °F/°C, 0 to 500 °F only. Furnished with this recorder is a bead wire probe (500° F). Furnished with 7 day 0 - 100°F standard charts. The **C4962** high range temperature recorder has four selectable temperature ranges: 0 to +250 °F/°C, 0 to +500 °F/°C, 0 to +1000 °F/°C, 0 to +2000 °F only. Furnished with this recorder is a 6" high temperature basic probe (2,100°F). Both recorders provide versatility and accuracy. The systems accuracy is ±.3% of reading, ±2°C (±1.8°F). The operator can select from three recording times: 24-hour, 7 days, or 31 days. A 5" Immersion Probe (**C4963**) is also available for both recorders (1650° F). Each recorder is furnished with 60 charts (0 to -100°C/°F, 7-day), pen, AC Adapter, batteries, and a 1-point NIST traceable calibration certificate. Depending on the recording time selected, extra charts (**C4966**) are available to meet your specific need. The chart diameter is 8". The recorder is powered by an AC adapter and also features a battery back-up to ensure the accuracy for three 3 months.



C4961 & C4962



C4963

MODELS	DESCRIPTION
<b>C4961</b>	LOW RANGE RECORDER
<b>C4962</b>	HIGH RANGE RECORDER

ACCESSORIES	DESCRIPTION
<b>C4963</b>	5" IMMERSION PROBE, 5' COILED CABLE, 1650°F
<b>C4964</b>	BEAD WIRE PROBE FOR <b>C4961</b> , 500°F
<b>C4965</b>	6" HIGH TEMPERATURE BASIC PROBE FOR <b>C4962</b> , 500°F
<b>C4966</b>	EXTRA CHARTS, BOX OF 60 (SPECIFY TIME AND RANGE)

## TANK HEATER

The **C5056** is designed for efficient and economical indoor operation with curing tanks where temperature does not fall below 55°F (13°C). The temperature is controlled and adjustable by the thermostat. The 1,000 Watt, 115V/60Hz solid state controlled element will warm to a maximum of 160°F. The heater is incoloy sheathed to prevent rust and is secured to aluminum base. The base provides protection for heater components from test cylinders. Overall length: 22-1/2". The **C5058** heavy-duty circular loop tank heater is designed for large capacity curing tanks. The thermostat has a range of 0° to 100° F. The heater also features a capillary and bulb which serves as a temperature sensing device. The heater must have a minimum of 6" of solution above the heating coils in order to prevent overheating damage. A pilot light indicates when the heater is working. The heater attaches to the side of the curing tank. The **C5059** two speed Heater / Circulator features an analog controller with proportional temperature control. Suitable for use with any tank bath to create a highly accurate constant temperature circulating system at above ambient temperatures. The unit also features a low fluid indicator with a minimum immersion depth of 3" and a maximum immersion depth of 7". Dimensions 6 x 5 x 13".



C5056



C5058



C5059

MODELS	DESCRIPTION	RANGE
<b>C5056</b>	ELECTRIC TANK HEATER	0-160°F
<b>C5058</b>	CURING TANK HEATER	0-100°F
<b>C5059</b>	HEATER / CIRCULATOR	AMBIENT +5-100°C