

OIL WELL CEMENTING



4207D COMPRESSIVE STRENGTH TESTER

A Critical Tool for Oil Well Drilling and Cementing

The 4207D Compressive Strength Tester is an automatic, digitally-controlled, hydraulic press. It is designed to test the compressive strength of standard two-inch cement cubes in exact compliance with API Spec 10A. The unit is used in research and field laboratories involved in quality assurance, and strength testing of cement blends.

Engineering Excellence for Long-Term Performance

The 4207D consists the load frame assembly and a separate electronic control / hydraulic power system. The unit is of a suitable size for laboratory use as a freestanding, floor-mounted instrument.

The separation of these two primary components enables installation of the load frame in a safe location away from laboratory personnel. The load frame is equipped with a polycarbonate safety shield and door safety interlock. The 4207D is also equipped with an over-temperature safety circuit for the hydraulic oil.

Operational Simplicity

The 4207D Compressive Strength Tester is simple to operate with all of the operational controls conveniently located on the electronic control unit. For easier control plus automatic data logging, the 4207D is compatible with Chandler Engineering 5270 Control & Data Acquisition System.

FEATURES

- ✓ Control Cabinet is Remote from Load Frame
- ✓ Precise, Digital Control of Loading Rate and Pressure Release Valves
- ✓ Programmable for Multi-Slope Load Rates
- ✓ Safety Shield with Door Safety Interlock
- ✓ Over Temperature Safety Circuit
- ✓ Automatic System Shut-Down
- ✓ Compatible with Chandler 5270 Control and Data Acquisition Software



4207D COMPRESSIVE STRENGTH TESTER

Chandler Engineering also manufactures the slurry mixers and pressurized curing chambers used in the preparation of the standard two-inch cement cubes tested by the 4207D.

SPECIFICATIONS

Max Load

50,000 lbf / 222 kN

Max Loading Rate

40,000 lbf/min. / 178 kN/min

Max Load Dwell

3 min @ 50,000 lbf / 222 kN initial oil temperature below 75°F / 24°C

Hydraulic Fluid

SAE 10W30 Synthetic Oil

Operating Temperature

40 to 120°F / 4 to 49°C

Data Acquisition

Chandler Engineering 5270 Data Acquisition and Control Software for a stand-alone computer (optional)

Utilities**Power**

200-240 VAC, 50/60 Hz, 900 W

Physical Dimensions**Net Dimensions (w x d x h)**

Load Frame: 18 in. x 22 in. x 48 in.
46 x 56 x 122 cm

Net Weight

Load Frame: 360 lb / 164 kg
Control Cabinet: 570 lb / 260 kg

Shipping Dimensions

Load Frame: 48 x 24 x 28 in
122 x 61 x 71 cm

Control Unit 54 x 28 x 30 in
138 x 71 x 76 cm

Manufacturer's specifications subject to change without notice.

