



**CHANDLER**  
ENGINEERING

## Model 4207D

### **COMPRESSIVE STRENGTH TESTER**

#### **A Critical Tool for Oil Well Drilling and Cementing**

The Model 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 Model 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 Model 4207D is also equipped with an over-temperature safety circuit for the hydraulic oil.

#### **Operational Simplicity**

The Model 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 Model 4207D is compatible with Chandler Engineering Model 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
- ✓ Quiet Hydraulic Motor
- ✓ Safety Shield with Door Safety Interlock
- ✓ Over Temperature Safety Circuit
- ✓ Automatic System Shut-Down
- ✓ Compatible with Chandler Engineering Model 5270 Control & Data acquisition System

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 Model 4207D.

## Specifications

Maximum Load:	50,000 lbf / 222 kN
Maximum Loading Rate:	40,000 lbf/min. / 178 kN/min
Maximum 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 Model 5270 Data Acquisition and Control Software for a stand-alone computer (optional)

### Utilities

Power Supply 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 Information

	<i>Load Frame</i>	<i>Control Unit</i>
Dimensions	48 in. x 24 in. x 28 in. 122 x 61 x 71 cm	54 in. x 28 in. x 30 in. 138 x 71 x 76 cm

*Manufacturer's specifications subject to change without notice*



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