



MTE - HPHT FILTER PRESS ASSEMBLY

MODEL No. CMNT-009

MTE High-Pressure, High-Temperature Filter Presses are an efficient means of evaluating the filtration properties of drilling fluids, cement slurries and/or for administering treatments of fluids to formation cores under temperature and pressure. The cells have a filtering area of 3.5 inches. Nitrogen manifolds are included for operating at higher pressures, 1350 psi on the cell and 750 psi back pressure. These units may be operated up to 500° F, however, for temperatures above 200° F, a back pressure regulator is supplied with the unit to facilitate testing of fluids above their boiling points and testing of fluids which produce a gaseous phase through reaction with formation cores. This unit is used to measure fluid loss on filter paper, 325 mesh screen, or on core specimens. Fluid loss is used to measure the extent of leakoff to the producing formation during treatment. This also allows examination of the type of filter cake created by the wall-building characteristics of the fluid. If an ion analysis is to be made of the filtrate, nitrogen should be used for the back pressure.

For temperature control on all MTE HPHT Filter Presses, the cell sits in a thermostated aluminum well for heating and filtration. The heating chamber completely encloses the filtering area, assuring filtration at the desired temperature. Power consumption of the standard size (175 ml) unit is only 400 watts at 115-V AC. Units for 110 volts AC-DC or 230-V AC operation can be furnished on special request. The 500 ml filter press requires 800 watts of electrical power and can be furnished for the same voltages.

The standard cell of these filter presses is made of stainless steel, however, cells made of aluminum bronze can be furnished. The cells have valves at top and bottom so that they can be closed in for heat-up and cool down.