The OFITE Dynamic High-Temperature High-Pressure (HTHP) filter press measures filtration properties under varying dynamic downhole conditions. A motor-driven shaft fitted with propellers turns at varying speeds inside a standard 500 mL HTHP cell. RPM settings from 1 to 1600 RPM impart laminar or turbulent flow to the fluid inside the cell. By varying the shaft length, the shear stress may be increased or decreased. Power is driven to the stirring shaft by a timing belt that is easily accessible for quick adjustment and removal. Other features include a variable-speed motor controlled through an SCR controller. RPM is indicated on a digital tachometer. The test procedure is exactly the same as that in the standard HTHP filtration test. The only difference is the fluid circulates inside the cell while filtrate is being collected. Since the filter medium is conventional disk material, the results are comparable with those of other laboratories or for comparing historical trends.

Features Include:
- Variable-speed electric motor, ½ HP permanent magnet DC
- Auxiliary pipe connection for the cell top cap. Plug may be removed to add additional fluid additives.
- Safety-calibrated rupture disk guards against overpressure
- Motor and stirring shaft RPM operate at a one-to-one ratio
- Adjustable thermostat from 100° to 500°F
- Optional filter permeabilities available

Size: 12" × 15.5" × 36" (31 × 39 × 91 cm)
Weight: 95 lb (43.1 kg)

Crated Size: 31" × 21" × 40" (79 × 53 × 102 cm)
Crated Weight: 184 lb (83.5 kg)

#170-50 Dynamic HTHP Filter Press

Optional:
#143-07 CONCOA/AIRCO Repair Kit
#170-50-SP Spare Parts for One Year for #170-50
#170-52 Carrying Case
#170-58 Shaft Extension, ½"
#170-59 Shaft Extension, 1"
#170-60 Shaft Extension, 1½"
#170-73 Cell Cap, Extra Long for Filter Paper, 316 Stainless Steel, 2,500 PSI