

Dynamic HTHP Filter Press



Brand: OFI Testing Equipment, Inc.

Product Code: 170-95

Availability: Call for availability

Description

The Dynamic High Temperature High Pressure (HTHP or HPHT) filter press measures filtration volume and cake building properties under varying 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 3600 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.

Features

- The only truly dynamic filter press on the market
- Built-in cooling system allows the cell to be cooled before it is de-pressurized and removed from the jacket
- Auxiliary pipe connection for the cell top cap. Plug may be removed to add additional fluid additives.
- Safety calibrated rupture disk guards against overpressure
- Electronic temperature control (up to 500°F)
- Built-in pressure regulators
- Optional filter permeabilities available
- Radial/axial flow propeller
- Adjustable propeller to change distance above filter media

Specifications

- Maximum Cell Pressure: 5,000 PSI (34.5 MPa)
- Maximum Temperature 500°F (260°C)
- Variable Speed Motor: up to 3,600 RPM
- Digital Temperature Controller

Requirements

- Nitrogen source: at least 1,500 PSI
- Water Source (for cooling): standard tap water
- Electrical: 115 Volt at 20 Amp or 230 Volt at 10 Amp, 50/60 Hz

Components

- #120-70-1-021: Gauge, 1000 PSI
- #120-70-1-053: Hose, Stainless Steel, 24"
- #120-910-022: Gauge, 3000 PSI
- #122-077: Fuse, 10 Amp
- #141-28: Hose Kit, Air/Water/Drain
- #153-12: Graduated Cylinder, 100 mL x 1 mL
- #154-20: Thermometer with Metal Dial, 8" Stem, Dual Scale:

50° - 500°F / 0° - 250°C

- #165-14-8: Thermocouple
- #170-16: Valve Stem
- #170-19: Filter Paper, 2.5" (6.35 cm), Box of 100
- #170-20: Manifold Block
- #170-32: Needle Valve, Male
- #170-35: Adjustable Wrench
- #170-53: Ceramic Filter Disk, 50 Micron
- #170-67: Propeller, 1.5" (3.81 cm), Stainless Steel
- #170-68: Propeller, 2" (5 cm), Stainless Steel
- #170-93: Wrench for Valve Stem
- #170-95-313: Wrench for Cell Cap, Spanner
- #171-10: Back Pressure Receiver, 100 mL
- #171-190-028: Stand for Cell
- #171-190-057: O-ring for Valve Stem, Viton 90D
- #171-190-058: O-ring for Rupture Disk, Viton 90D
- #171-190-060: O-ring for Cell, Viton 90D
- #171-196-S: Test Cell Assembly
- #171-23-1: Safety Pin with Lanyard
- #171-25-1: Relief Valve, 750 PSI
- #171-25-4: Relief Valve, 2600 PSI
- #171-48-2: Thermocouple

Part Numbers

- #170-95: 115 Volt
- #170-95-1: 230 Volt