

HPHT
(High-Pressure, High Temperature)
FILTER PRESS 175ml

Measurement of the filtration behavior and all-cake-building characteristics of an oil mud are fundamental to the treatment and control of a mud, as are the characteristics of the filtrate, such as the oil, water or emulsion content.

Filtration characteristics of an oil mud are affected by the quantity, type and size of solid particles and emulsified water in the mud and by properties of the liquid phase. Interactions of these various components may be influenced by temperature and pressure. Therefore, filtration tests are often performed at both ambient temperature and at high-temperature conditions to provide data for comparison purposes.



175 ML HPHT FILTER PRESS
CO₂ Pressurized

175 ml HPHT Filter Press units can be pressurized to 1800 psig on the cell and 750 psig on the back pressure receiver. Maximum operating temperature is 350°F.

SPECIFICATIONS:

Maximum Working Pressure	1800 PSIG
Maximum Temperature	350 °F
Power Requirement	115/230 VAC 50/60 Hz
Sample Cell Volume	175 ml
Receiver Volume	15ml
Heating Capacity	400 watts
Filtering Area	22.6 cm ² (3.5 in ²)

Each 175 ml HPHT Filter Press is furnished with all necessary operating supplies including:

- Pressurization System (Nitrogen or CO₂)
- Back Pressure Receiver, 15 ml No. 209502
- Cell (see configuration chart for specific cell supplied with each unit)

New Safety Feature

CELLTELL™ POSITIVE PRESSURE INDICATOR

Fann HPHT Filter Presses are furnished with the patented CellTell™ Positive Pressure Indicator. The CellTell™ Positive Pressure Indicator provides an instant indication of the pressure status of any HPHT cell. The CellTell is unaffected by temperature, and resistant to motion caused by vibration and rotation. CellTell positive pressure indicators are standard equipment on all configurations of HPHT cells assemblies and all versions of HPHT Filter Presses.

HPHT Filter Presses are available in various component configurations which allow for greater flexibility in choosing the system and options that suite each individual need. **Pressurization;** with CO₂ Cartridges, bottled Nitrogen, or an in-house (user provided) source. **Single or double opening cells;** that accept different filter media. **Filter media;** that includes the API standard Filter Paper, Ceramic Discs of several calculated porosities, and various mesh sized screens.

HPHT Filter Press 115 Volts

	CO ₂ Pressurization		Nitrogen Pressurization	
HPHT Filter Press Assembly	No. 101571372 <small>(includes items listed below)</small>	No. 101571371 <small>(includes items listed below)</small>	No. 101565556 <small>(includes items listed below)</small>	No. 101565554 <small>(includes items listed below)</small>
Cell Configuration	175 ml, single opening No. 209584	175 ml, dual opening (open both ends) No. 209585	175 ml, single opening No. 209584	175 ml, dual opening (open both ends) No. 209585
Cap & Screen Configuration	Cap No. 209532 Screen No.207232, 60 mesh (installed in cap)	1 Cap w/Detachable Screen 325 Mesh w/60 Mesh b/u No. 209536 1 Cap No. 209568	Cap No. 209532 Screen No.207232, 60 mesh (installed in cap)	1 Cap No. 209536 w/Detachable 325 Mesh Screen 1 Cap No. 209568
Pressurization	CO ₂ Assembly No. 209471		Dual Nitrogen Assembly No. 209545	
Back Pressure Receiver	15 ml, CO ₂ No. 209503		15 ml, Nitrogen No. 209502	
Heating Jacket	115 Volt, 400 Watts No. 209492			

HPHT Filter Press 230 Volts

	CO ₂ Pressurization		Nitrogen Pressurization	
HPHT Filter Press Assembly	No. 101571374 (includes items listed below)	No. 101571373 (includes items listed below)	No. 101565560 (includes items listed below)	No. 101565558 (includes items listed below)
Cell Configuration	175 ml, single opening No. 209584	175 ml, dual opening (open both ends) No. 209585	175 ml, single opening No. 209584	175 ml, dual opening (open both ends) No. 209585
Cap & Screen Configuration	Cap No. 209532 Screen No.207232, 60 mesh (installed in cap)	1 Cap No. 209536 w/Detachable 325 Mesh Screen 1 Cap No. 209568	Cap No. 209532 Screen No.207232, 60 mesh (installed in cap)	1 Cap No. 209536 w/Detachable 325 Mesh Screen 1 Cap No. 209568
Pressurization	CO ₂ Assembly No. 209471		Dual Nitrogen Assembly No. 209545	
Back Pressure Receiver	15 ml, CO ₂ No. 209503		15 ml, Nitrogen No. 209502	
Heating Jacket	230 Volt, 400 Watts			

Fann offers a complete line of replacement parts, accessories, & tools for all HPHT Filter Presses



Cell Carrying Tool, Cap Removal Tool, Valve Reseating Tool, Screens, Ceramic Discs, and Filter Paper

Fann HPHT Filter Presses are designed to meet or exceed the specifications for drilling fluids and cement testing, outlined in the following American Petroleum Institute publications:

**API Recommended Practice 10B, 13B-1, ANSI/API 13B-1/ISO 10414-1, 13B-2,
API Specification 10A, ANSI/API 10A/ISO 10426-1-2001 & 13A**

