

**HPHT**  
(High-Pressure, High Temperature)  
***FILTER PRESS 500ml***

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.



**500 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 500°F. For operation above 400°F, the filter paper should be backed with a glass fiber filter, or a stainless steel filter.

**SPECIFICATIONS:**

Maximum Working Pressure	1800 PSIG
Maximum Temperature	500 °F
Power Requirement	115/230 VAC 50/60 Hz
Sample Cell Volume	493 ml
Receiver Volume	100 ml
Heating Capacity	800 watts
Filtering Area	22.6 cm <sup>2</sup> (3.5 in <sup>2</sup> )

**500 ml HPHT FILTER PRESS**

Each 500 ml HPHT Filter Press is furnished with all necessary operating supplies including:  
 Dual Nitrogen Manifold No. 209545  
 Back Pressure Receiver, 100 ml No. 209542  
 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 CO<sub>2</sub> 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 Assembly	Catalog No. 101565562 <small>(includes items listed below)</small>	Catalog No. 101565564 <small>(includes items listed below)</small>	Catalog No. 101565561 <small>(includes items listed below)</small>	Catalog No. 101565563 <small>(includes items listed below)</small>
Heating jacket	No. 209540 115 Volt, 800 watts	No. 209541 230 Volt, 800 watts	No. 209540 115 Volt, 800 watts	No. 209541 230 Volt, 800 watts
Pressurization	Dual Nitrogen Manifold No. 209545		Dual Nitrogen Manifold No. 209545	
Back Pressure Receiver	100 ml No. 209542		100 ml No. 209542	
Cell Configuration	500 ml, single opening No. 209586		500 ml, dual opening (open both ends) No. 209587	
Cap & Screen Configuration	Cap No. 209532 Screen No.207232, 60 mesh (installed in cap)		1 Cap No. 209536 with No. 209534 etachable Screen 325 Mesh w/60 mesh backup 1 Cap No. 206568 Pressure Indicating	



**Fann offers a complete line of replacement parts, accessories, & tools for all HPHT Filter Presses, including, Cell Carrying Tools, Cap Removal Tools, Valve Reseating Tools, 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

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