HPHT Filter Press
Model 175CT

Description

HPHT Filter Press, Model 175CT simulates filtration against a permeable formation at high temperatures and pressures. Each 175 ml HPHT Filter Press consists of the following components and operating supplies:

- Stainless steel cell with CellTell™ Positive Pressure Indicator
- Aluminum heating jacket
- Pressurization System (Nitrogen or CO_2)
- Back Pressure Receiver, 15 ml
- Graduated cylinder

Application

Measuring filtration and cake-building properties is fundamental to treatment and control of drilling fluids. Studying filtrate characteristics, oil, water, or emulsion content, is also essential.

For a drilling fluid, the quantity, type and size of solid particles, emulsified water, and properties of the liquid phase affect the filtration characteristics. Temperature and pressure may influence the interactions of these various components. Therefore, filtration tests are often performed at ambient and high temperatures, providing data for comparison.

Advantages

- Wide range of customizing configurations for your specific needs
- HPHT safety features that help protect from hazards
- Heavy-duty components and materials that withstand HPHT conditions
- Pilot light on heating jacket that signals when temperature reaches thermostat setting
- Single or double opening cells that accept various filter media choices, such as API standard filter paper, ceramic discs of various porosities, and screens of various mesh sizes
- Choice of 115 volt AC or 230 volt AC heating jacket
- Pressurization alternatives, such as CO_2 cartridges, nitrogen, or in-house source

HPHT Filter Press, Model 175CT, CO_2 Pressurized
Maximum Pressure: 1800 psig
Backpressure: 750 psig
Maximum Temperature: 350° F

Safety Features

Each HPHT Filter Press cell is furnished with a CellTell™ Positive Pressure Indicator. This new safety feature gives feedback about the pressure status of any HPHT cell. CellTell™ Positive Pressure Indicator is unaffected by temperature and resistant to motion caused by vibration and rotation.

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Specifications

Maximum Working Pressure	Cell: 1800 psig (12.4 MPa)
	Backpressure: 750 psig (5.17 MPa)
Maximum Temperature	350°F (177°C)
Sample Cell Volume	175 ml
Receiver Volume	15 ml
Filtering Area	3.5 in^2 (22.6 cm^2)
Heating Capacity	400 watts
Power Requirement	115/230 VAC, Frequency 50/60 Hz

Ordering Information

HPHT Filter Presses are available in various configuration as shown in the following tables.

HPHT Filter Press 115 Volts				
	CO_2 Pressurization		**Nitrogen Pressurization**	
HPHT Filter Press Assembly	No. 101571371	No. 101571372	No. 101565554	No. 101565556
Cell Configuration	175 ml, dual opening[b] No. 209585	175 ml, single opening No. 209584	175 ml, dual opening[b] No. 209585	175 ml, single opening No. 209584
Cap & Screen Configuration	1 Cap No. 209536 w/Detachable Screen, 325 Mesh/ 60 Mesh Backup, 1 Cap No. 209568	Cap No. 209532 60 Mesh Screen[a] No. 207232	1 Cap No. 209536 w/Detachable 325 Mesh Screen, 1 Cap No. 209568	Cap No. 209532 60 Mesh Screen[a] No. 207232
Pressurization	CO_2 Assembly No. 209471		Dual Nitrogen Assembly No. 209545	
Backpressure Receiver	15 ml, CO_2, No. 209503		15 ml, Nitrogen, No. 209502	
Heating Jacket	115 Volts, 400 Watts, No. 209492			

Note: Items listed for each assembly part number are included.
[a] Screen is installed in the cap.
[b] Both ends are open.

Phone: 281-871-4482 Web: www.fann.com Email:fannmail@fann.com
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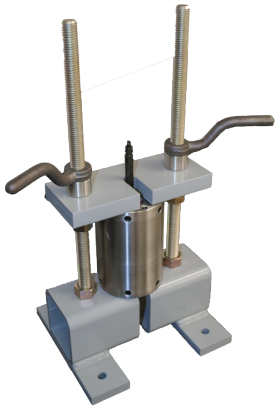
HPHT Filter Press 230 Volts				
	CO_2 Pressurization		Nitrogen Pressurization	
HPHT Filter Press Assembly	No. 101571373	No. 101571374	No. 101565558	No. 101565560
Cell Configuration	175 ml, dual opening[b] No. 209585	175 ml, single opening No. 209584	175 ml, dual opening[b] No. 209585	175 ml, single opening No. 209584
Cap & Screen Configuration	1 Cap No. 209536 w/Detachable Screen, 325 Mesh/ 60 Mesh Backup, 1 Cap No. 209568	Cap No. 209532 60 Mesh Screen[a] No. 207232	1 Cap No. 209536 w/Detachable 325 Mesh Screen, 1 Cap No. 209568	Cap No. 209532 60 Mesh Screen[a] No. 207232
Pressurization	CO_2 Assembly, No. 209471		Dual Nitrogen Assembly, No. 209545	
Backpressure Receiver	15 ml, CO_2, No. 209503		15 ml, Nitrogen, No. 209502	
Heating Jacket	230 Volts, 400 Watts, No. 209506			

Note: Items listed for each assembly part number are included.
[a] Screen is installed in the cap.
[b] Both ends are open.

Recommended Safety Equipment

Fann Filter Press Cell Clamps are available as a separate purchase.

- P/N 232207 — Filter Press Cell Clamp for 175 ml cell
- P/N 232208 — Filter Press Cell Clamp for 500 ml cell



Filter Press Cell Clamp,175ml

Optional Equipment

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

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

Fann Instrument Company offers a complete line of equipment, materials, and supplies for analyzing various drilling fluids and oil well cements in accordance with API Specifications and API Recommended Practices.

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