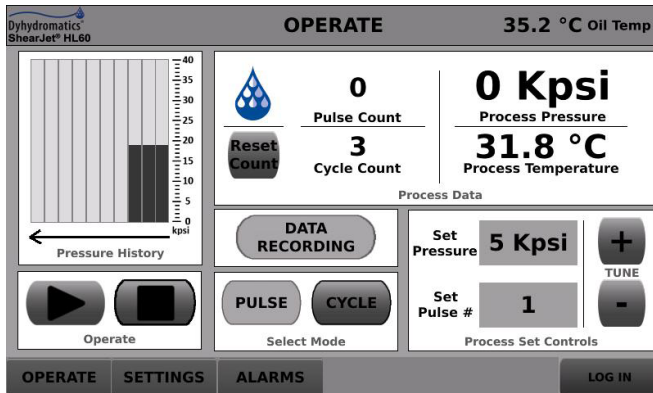


ELECTRIC HYDRAULIC HIGH SHEAR HOMOGENIZER

For Processing Samples as Low as 3 mL

New and Improved HMI!

- Increased flow rate
- Superior cooling through specially designed product heat exchanger



The ShearJet HL60 electric hydraulic processor is a unique R&D model designed to process samples as small as 3 mLs in distinct passes or continuous runs. Multiple samples may be processed in a short time span. Small dead volume (due to fewer high pressure connections) and self-priming leads to reduced waste. The HMI touchscreen display puts simplicity at your fingertips, displaying relevant information in real time.

Performance:

- Multiplier pump creates unique pressure profile
- Specially designed product heat exchanger ensures clean, superior cooling
- Proprietary fixed-geometry diamond Reaction Chamber® module with specially designed micro channels achieves superior, consistent, uniform, repeatable mean particle size reduction
- Durable, robust design allows for continuous operation
- Data acquisition via USB or Ethernet

Easy-to-clean:

- Minimum connections allow for easy cleaning

Economy:

- Save on expensive APIs
- Process samples in minutes
- Low maintenance cost
- Minimal seals and metallic connections
- Diamond chamber for longer life

Specifications

| | |
|----------------------|---|
| Minimum sample size: | 3 mL (minimum with cooling jacket 5 mL) |
| Working sample size: | 3-500 mL and up |
| Pressure: | 5-30 Kpsi (345-2068 bar) |
| Stroke: | 1 mL |
| Output*: | 64 mL/min @ 30 Kpsi (2068 bar) |
| HMI: | 7" Touch screen |
| Power: | Electric hydraulic 12A @ 220V Ask about 110V model |
| Dimensions: | 28L" x 16W" x 24H" (71,1 x 40,6 x 61,0 cm). Small foot print saves valuable laboratory space! |
| Noise level: | 68 decibels; more quiet than competitive equipment |
| Operating time: | System can run anywhere from seconds to hours |

*Dependent on Reaction Chamber module size.

Buna-N is a registered trademark of E. I. DuPont.

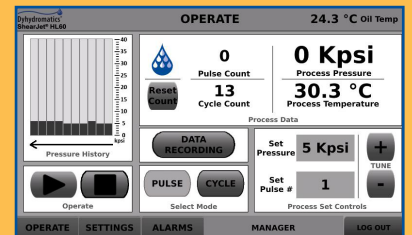
Luer-Lok" and "Luer-slip" are registered trademarks of Becton Dickinson.

Features

| Features for HL60 | Standard Model | Premium Model |
|--|----------------|---------------|
| Glass reservoir 100 mL with sanitary connection | 💧 | |
| Stainless steel reservoir 100 mL | | 💧 |
| Inlet thermocouple | | 💧 |
| Two 10 mL syringes | 💧 | 💧 |
| Luer lock connections | 💧 | 💧 |
| Ceramic plunger | 💧 | 💧 |
| Inline pressure transducer | | 💧 |
| Diamond Reaction Chamber® module for longer life and wear resistant to abrasive applications | 💧 | 💧 |
| Jacketed helical heat exchanger | 💧 | 💧 |
| Touchscreen HMI with advanced features | 💧 | 💧 |
| Tools & spares | 💧 | 💧 |
| Chiller for cooling product heat exchanger | option | option |
| Gaskets and O-rings in TFE, Kalrez®, Buna-N®, EPDM, or EPR | option | option |
| Pharma-grade product contact parts | option | option |
| FAT/SAT | option | 💧 |
| IQ/OQ | option | option |
| Onsite installation and operator training | 💧 | 💧 |

HMI

- Easier to use touchscreen
- Improved Data logging
- Export data recording via USB or FTP Client
- Access levels
- Historic data graph
- Calibration input
- Allows operator to set process duration in pulse mode. System stops automatically when completed.



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on missions of environmental conservation, preservation and restoration. We are pleased to support FORCE BLUE by donating a portion of proceeds from every new equipment sale.

