

ShearJet® HL60

ELECTRIC HYDRAULIC HIGH SHEAR HOMOGENIZER

FOR SMALL VOLUMES STARTING AT 3mL, AND CERTIFIED PROCESSES



Dyhydromatics®

Your Partner For High Pressure Homogenizers



The ShearJet HL60 electric hydraulic processor runs sample sizes starting at 3 mLs in distinct passes or continuous runs. Small dead volume, and no priming valve leads to reduced waste. By decreasing high pressure piping connections, leakage possibilities are reduced as well. The easy to use touch screen display puts simplicity at your fingertips, displaying relevant information in real time.

PERFORMANCE:

- Our Diamond Reaction Chamber® with our specially designed micro channels achieve consistent, uniform, repeatable results
- Product yield up to 99%
- Greater wear resistance

ECONOMY:

- Save on raw material costs due to low dead volume
- Process samples in minutes not hours
- Low maintenance cost due to superior system design
- Minimal seals and connections

EASY-TO-CLEAN:

- Low dead volume allows cleaning in minutes
- Multiple samples may be processed in a short time span

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SPECIFICATIONS

Minimum Sample size: 3 mL (minimum with cooling jacket 5 mL)
 Pressure: 5-30 Kpsi (345-2,068 bar)
 Stroke: 1 mL
 Output*: 65 mL/min @ 30 Kpsi (2068 bar)
 HMI: Touch screen
 Power: Electric hydraulic 12A @ 220V
 Dimensions: 28" x 16" x 24" (71,1 x 40,6 x 61,0 cm) Small footprint saves valuable laboratory space!
 Noise level: 68 decibels; more quiet than competitive equipment
 Operating time: System can run anywhere from seconds to hours

HMI

- Allows operator to set process duration in pulse mode. System stops automatically when completed.
- Cycle mode runs continuously until operator stops process
- Calibrate pressure set points based on reaction chamber type
- Data acquisition allows for the operator to capture pressure, temperature and process duration

*Dependent on Reaction Chamber size.

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FEATURES

Features for HL60

	Standard Model	Premium Model
Glass reservoir 100 mL with sanitary connection	●	
Stainless steel reservoir 100 mL with/without recirculation		●
Thermocouple		●
Two 10 mL syringes	●	●
Luer lock connections	●	●
Ceramic plunger	●	●
Inline pressure transducer		●
Diamond Reaction Chamber® for longer life and wear resistant to abrasive applications	●	●
Simple feed jacketed helical heat exchanger	●	●
Barbed outlet	●	●
Tools & spares	●	●
Chiller for cooling product heat exchanger	option	option
Gaskets and O-rings in Teflon, Kalrez®, Buna-N®, EPDM, or EPR	option	option
Pharma-grade product contact parts	option	option
FAT/SAT	option	●
IQ/OQ		option
Onsite installation and operator training	option	option

