

HIGH SHEAR HOMOGENIZER

For R&D/Pre-Pilot Scale Processing

New!

HMI

- Easier to use
- Data logging
- Access levels
- Larger screen

Enclosure

- Enclosed piping for in-process viewing and operator safety
- Small footprint with casters for mobility and leveling feet



The ShearJet HP350 V2 series electric-hydraulic processor operates with a single multiplier pump which processes 100 mL sample sizes and high flow rates in distinct passes or continuous runs. This ability makes the HP350 V2 processor a viable option for R&D and pre-pilot scale applications. It is easily portable between lab suites because no utility air is required and its small foot print includes wheels.

Performance:

- Our diamond Reaction Chamber® module with our specially designed micro channels achieve consistent, uniform, repeatable results
- Long chamber life
- Integrated HMI with multi-level user interface allows the operator to monitor and program pressure, product temperature, volume processed, process duration, and alarms
- Quiet operation (under 70 decibels)
- Recirculation valve for retrieving sample with uninterrupted processing

Easy-to-clean:

- Low dead volume allows cleaning in minutes
- Multiple samples may be processed in a short time span
- Quick disconnects for hydraulic cooling and drip pan drain.

Economy:

- Save on raw material costs due to low dead volume
- Process samples in minutes
- Low maintenance cost
- Minimal seals and connections

Specifications

ShearJet	HP350 V2 [†]
Sample Size* mL	100
Pressure Kpsi (max.)	30
Pressure bar (max.)	2068
Flow Rate** mL/min	300-450

Power:	Electric-hydraulic 5 HP, 60 Hz, 230/460 VAC, 14.4/7.3 Amps; (50 Hz, 190/380 VAC, 17.4/9.1 Amps)
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Dimensions (WxDxH):	39-1/2" x 33-1/2" x 62-7/8" (1004 x 851 x 1595 mm)
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Operating time:	System can run from seconds to continuous (with external chiller - not included)
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*Dependant on options selection

**Dependant on Reaction Chamber module selection

† Based on Standard model

Features

Features	Standard	Pharma Standard	Pharma Premium
1 liter stainless steel reservoir	💧	💧	
Ceramic plunger	💧	💧	💧
Feed pump			💧
Reaction Chamber module and Back Pressure Reaction Chamber module (Diamond)	💧	💧	💧
2 RTDs	💧	💧	💧
Product heat exchanger (tube and shell)	💧	💧	
Product heat exchanger (tube and shell drainable)			💧
Flush diaphragm inline process pressure transducer	💧	💧	💧
Electropolished & Passivation		💧	💧
UPS Class VI plastics and elastomers with certifications		💧	💧
CIP bypass for heat exchanger			💧
Data recording enabling easy 21 CFR Part 11 compliance	option	option	💧
Touchscreen HMI with advanced features	💧	💧	💧
Tools & Spares	💧	💧	💧
FAT/SAT	💧	💧	💧
IQ/OQ	option	💧	💧
2 or 3 Liter reservoir	option	option	
Recirculation Valve	💧	💧	

Dyhydromatics Corporate Headquarters

63 Great Road, Suite 103
Maynard, MA 01754
Phone +1 978 461 0200 • Fax: +1 978 461 0201
Customer Service: (Option 4)
info@dyhydromatics.com
Sales: sales@dyhydromatics.com

Dyhydromatics European Head Office

Kelterstrasse 9, 75236 Kaempfelbach, Germany
Customer Service Europe:
Phone +49 7231 167 4048
Sales: info-europe@dyhydromatics.com

Dyhydromatics, India

A-7, Mangal Society, Shreenagar
Wagle Estate, Thane (W) - 400604, India
Phone +91 77381 42553
Email: info-india@dyhydromatics.com

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conservation, preservation
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portion of proceeds from
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