

HIGH SHEAR HOMOGENIZER

For Pilot/Small Production 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 and casters for mobility



The ShearJet HP1200 V2 Series electric-hydraulic processor runs sample sizes of 1L (options dependent) and up in distinct passes or continuous runs. Because the HP1200 V2 series is equipped with two multiplier pumps, it achieves near-continuous flow, subjecting formulations to identical processing conditions from start to finish. The HP1200 V2 is capable of operating from seconds for smaller samples or continuous for very large batches.

Performance:

- Our diamond Reaction Chamber® module with our specially designed micro channels achieve consistent, uniform, repeatable results
- Long chamber life
- Greater wear resistance
- Integrated HMI with multi-level user interface allows the operator to monitor and program pressure, product temperature, volume processed, process duration, and alarms. Data acquisition by USB or ethernet connection.
- UL and CE compliance
- Data acquisition via Ethernet

Easy-to-clean:

- Low dead volume allows for easy cleaning
- Clean in Place: no connection removal required

Economy:

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

Specifications

Power: Electric-hydraulic 10 HP, 60 Hz, 230/460 VAC, 25.2/12.7 Amps; (50 Hz, 190/380 VAC, 30/14.4 Amps)

Dimensions (WxLxH): 39-1/2 x 33-1/2 x 64-3/8in (1004 x 851 x 1604 mm)

Operating time: System can run from seconds to hours (with external chiller - not included)

ShearJet	HP1200 V2-10	HP1200 V2-20	HP1200 V2-30
Minimum sample size* mL	1L (options dependent)	1L (options dependent)	1L (options dependent)
Pressure Kpsi (max.)	10	20	30
Pressure bar (max.)	690	1379	2068
Flow rate** L/min	3.5-3.8	1.5-1.8	1.0-1.2

*Based on Standard model, and dependent on options selection

• **Dependent on Reaction Chamber module selection

Features

Features for non-pharmaceutical HP1200 V2	Standard	Premium
Integrated food-grade feed pump	💧	💧
Ceramic plunger	💧	💧
CIP bypass for heat exchanger		💧
Flush diaphragm inline process pressure transducer	💧	💧
Backflush of chambers		💧
Data recording enabling easy 21 CFR Part 11 compliance	option	💧
Touchscreen HMI with advanced features	💧	💧
Diamond Reaction Chamber module and Back Pressure Reaction Chamber module	💧	💧
2 RTDs	💧	
3 RTDs		💧
Product outlet temperature control		💧
Product heat exchanger (tube and shell)	💧	💧
Tools & Spares	💧	💧
FAT/SAT	💧	💧
IQ/OQ	option	option
Infeed pressure transducer	💧	💧

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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.

