

## HIGH SHEAR HOMOGENIZER FOR PHARMACEUTICAL APPLICATIONS

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 with pharma grade casters and pads for mobility



The ShearJet HP1200 V2PH series electric-hydraulic processor runs sample sizes of 1L (options dependent) and up in distinct passes or continuous runs. Multiple samples may be processed in a short time span. This processor is specifically designed to meet the exacting requirements of the pharmaceutical industry by offering a Pharma and a more feature inclusive Pharma Premium version. 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 V2PH is capable of operating from seconds for smaller samples to continuous for very large batches.

### Performance:

- Our diamond Reaction Chamber® module with 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
- UL and CE compliance
- Data acquisition via Ethernet

### Easy-To-Clean:

- Low dead volume allows for easy cleaning

### 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 x1 604 mm)  
 Operating time: System can run from seconds to continuous

ShearJet	HP1200 V2-10PH	HP1200 V2-20PH	HP1200 V2-30PH
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	2.8-3.4	1.5-1.8	1.0-1.2

\*Based on Premium model, and dependent on options selection • \*\*Dependent on Reaction Chamber module selection

# Features

Features	Standard Model	Premium Model
Integrated sanitary feed pump	💧	💧
Ceramic plunger	💧	💧
CIP bypass for heat exchanger with diaphragm valves		💧
Flush diaphragm inline process pressure transducer	💧	💧
Data Recorder enabling 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)	💧	
Product heat exchanger (tube and shell, drainable)		💧
Product path EP & passivated	💧	💧
Tools & Spares	💧	💧
FAT/SAT	💧	💧
IQ/OQ	option	💧
Infeed pressure transducer	💧	💧
Self-resetting Sanitary Relief Valves	💧	💧

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