

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 x 1604 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 | 3.5-3.8 | 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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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.