# 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 HP1200V2PH is capable of operating from seconds for smaller samples to continuous for very large batches.

#### **Performance:**

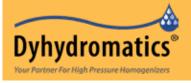
- Our diamond Reaction Chamber® module with specially designed micro channels achieve consistent, uniform, repeatable results
- · Long chamber life
- Integrated HMI with multi-level user interface allows the operator to monitor and program pressure, product temperature, volume processed, process duration,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



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All descriptions and technical data subject to change.

# **Specifications**

Power: Electric-hydraulic 10 HP, 60 Hz, 230/460 VAC, 23.2/11.6 Amps; (50 Hz, 190/380 VAC, 27.8/13.9 Amps on request)

Dimensions (WxLxH): 38.5 x 32.8 x 62.8

Operating time: System can run from seconds to continuous

Shear Jet	HP1200-10PH	HP1200-20PH	HP1200-30PH
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

<sup>\*</sup>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	۵	۵
Ceramic plunger	<b>&amp;</b>	۵
CIP bypass for heat exchanger with diaphragm valves		۵
Flush diaphragm inline process pressure transducer	۵	۵
Data Recorder enabling 21 CFR Part 11 compliance	option	۵
Touchscreen HMI with advanced features	۵	۵
Diamond Reaction Chamber module and Back Pressure Reaction Chamber module	۵	۵
2 RTDs	۵	
3 RTDs		۵
Product outlet temperature control		۵
Product heat exchanger (tube and shell)	۵	
Product heat exchanger (tube and shell, drainable)		۵
Product path EP & passivated	۵	۵
Tools & Spares	۵	۵
FAT/SAT	۵	۵
IQ/OQ	option	۵

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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.