## HIGH SHEAR HOMOGENIZER

## For Pilot/Small Production Scale Processing

# New!

- 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 HP-1200 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 HP1200V2 is capable of operating from seconds for smaller samples or continuous for very large batches.

## **Performance:**

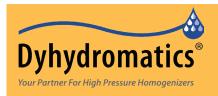
- Our diamond Reaction Chamber® module with our specially designed micro channels achieve consistent, uniform, repeatable results
- · Long chamber life
- · Greater wear resistance
- Integrated HMI with multi-level user interface allows the operator to monitor and program pressure, product temperature,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

Shear Jet	HP1200-10	HP1200-20	HP1200-30	
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	

<sup>\*</sup>Based on Standard model, and dependent on options selection • \*\*Dependent on Reaction Chamber module selection

#### **Features**

Features for non-pharmaceutical HP1200	Standard	Premium
Integrated food-grade feed pump	<b>&amp;</b>	۵
Ceramic plunger	۵	۵
CIP bypass for heat exchanger		۵
Flush diaphragm inline process pressure transducer	۵	۵
Backflush of chambers		۵
Data recording enabling easy 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	۵
Tools & Spares	۵	۵
FAT/SAT	۵	۵
IQ/OQ	option	option

## **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 FORCE BLUE is the only nonprofit organization in the world that provides "mission therapy" for former combat divers by retraining, retooling and deploying them

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.