

HIGH SHEAR HOMOGENIZER

For R&D/Pre-Pilot 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 HP350 V2 series electric-hydraulic processor operates with a single multiplier pump which processes 80 mL sample sizes and high flow rates in distinct passes or continuous runs. This ability makes the HP350 V2 model a viable option for R&D and pre-pilot scale applications. It is easily portable between lab suites because no utility air is required and its small foot print includes wheels.

Performance:

- Our diamond Reaction Chamber® module with our 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
- Quiet operation (under 70 decibels)
- Data acquisition via USB or Ethernet

Easy-to-clean:

- Low dead volume allows cleaning in minutes
- Multiple samples may be processed in a short time span
- Quick disconnects for hydraulic cooling and drip pan drain.

Economy:

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

Specifications

Shear Jet	HP350-30 V2 [†]
Sample Size* mL	80
Pressure Kpsi (max.)	30
Pressure bar (max.)	2068
Flow Rate** mL/min	300-450

Power: Electric-hydraulic 5 HP, 60 Hz, 230/460 VAC,
12.4/6.2 Amps; (50 Hz, 190/380 VAC, 15.2/7.6 Amps
on request)

Dimensions (WxDxH): 38.5 x 32.8 x 62.8

Operating time: System can run from seconds to hours

*Dependant on options selection

**Dependant on Reaction Chamber module selection

† Based on Standard model

Features

Features for HP350 V2	Standard	Pharma Standard	Pharma Premium
1 liter stainless steel reservoir	💧	💧	💧
Ceramic plunger	💧	💧	💧
Feed pump			💧
Reaction Chamber module and Back Pressure Reaction Chamber module (Diamond)	💧	💧	💧
2 RTDs	💧	💧	💧
Product heat exchanger (tube and shell)	💧	💧	
Product heat exchanger (tube and shell drainable)			💧
Flush diaphragm inline process pressure transducer	💧	💧	💧
Electropolished & Passivation		💧	💧
UPS Class VI plastics and elastomers with certifications		💧	💧
CIP bypass for heat exchanger			💧
Data recording enabling easy 21 CFR Part 11 compliance	option	option	💧
Touchscreen HMI with advanced features	💧	💧	💧
Tools & Spares	💧	💧	💧
FAT/SAT	💧	💧	💧
IQ/OQ	option	💧	💧
2 or 3 Liter reservoir	option	option	option

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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.