



Dyhydromatics Your Partner For High Pressure Homogenizers ShearJet PL300PH

ShearJet® PL300 / ShearJet® PL300PH **Pneumatic High Shear Homogenizers**





The ShearJet PL300 series is offered in two versions: ShearJet PL300 and ShearJet PL300PH in pharma grade standard

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Optional features: • Jacketed Reaction Chamber®

1 and or 2 Liter stainless steel reservoir

· Analog gauge

· Sanitary flush diaphragm pressure transducer and display

Gaskets and O-rings in Viton, Teflon, Kalrez, Buna, EPDM, and EPR, optional tools & spares

FAT/SAT and its execution

· IQ-OQ documentation and its on-site execution

50 ml to 2 liters and more 70 ml 1 - 23 Kpsi (69 - 1586 bar)

Stroke:

ShearJet PL300

Output: 350 - 400 ml/min at 23 Kpsi (subject to Reaction Chamber® type) Power: Pneumatic air motor (15hp compressor, 120psi, 57scfm, and or air

tanks required)

17" x 32.3" x 16.7" (43,2 x 82,0 x 42,4 cm)

Areas of application:

Applications:

Industries:

Dimensions:

Specifications:

Sample size:

Pressure:

Nanoemulsions, nanodispersions, nanosuspensions, liposomes, de-agglomeration, encapsulation, cell rupture

Pharmaceutical, personal care, chemical, biotech and food

Features:	ShearJet PL300

Control:

· Dual gauge for air and process pressure

- Standard Features: Diamond Reaction Chamber® for longer life and wear resistant to abrasive applications
 - Multiplier pump
 - Back pressure chamber
 - 400 ml reservoir
 - Simple feed jacketed helicoil heat exchanger
 - Thermocouples with display
 - Ceramic plunger
 - **Tools & spares**

• Dual gauge for air and process

- Display with re-transmission
- Diamond Reaction Chamber® for longer life and wear resistant to abrasive applications
- Multiplier pump

ShearJet PL300PH

pressure

- Back pressure chamber
- · 400 ml reservoir
- Sanitary tube and shell heat exchanger
- Thermocouples with display infeed and post product heat exchanger
- Ceramic plunger
- USP class 6 seals, O-rings, gaskets, EP and passivation of high pressure connections
- Pressure transducer
- **Tools & spares**
- · Jacketed Reaction Chamber®
- 1 and or 2 Liter stainless steel reservoir with or without dip
- Gaskets and O-rings in Viton, Teflon, Kalrez, Buna, EPDM, and EPR, optional tools & spares FAT/SAT and its execution
- IQ-OQ documentation and its on-site execution

Advantages:

Performance:

- Our Diamond Reaction Chamber® with our specially designed micro channels achieve consistent uniform repeatable results
- Product yield up to 99 percent
- Greater wear resistance

Easy-to-clean:

- Systems low dead volume allows cleaning in a matter of minutes
- Clean in place (CIP)

Economy:

- · Save on raw material costs due to low dead volume
- Low maintenance cost due to superior system design
- · Minimal seals and connections