

ShearJet® PL300

PNEUMATIC HIGH SHEAR HOMOGENIZER

For Volumes Starting at 45 mL, in Standard and Pharmaceutical



The ShearJet PL300 series processor is offered in two versions: ShearJet PL300, and ShearJet PL300PH pharma grade with USP Class VI seals, O-rings, gaskets, and electro-polish (EP) and passivation of product contact components. The ShearJet PL300 pneumatic processor runs sample sizes from 45 mLs in distinct passes or continuous runs. By decreasing high pressure piping connections, leakage possibilities are reduced as well.

Performance:

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

Easy-to-clean:

- 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





Specifications	PL300	PL300PH
Minimum sample size:	45 mL	70 mL
Pressure:	3 - 23 Kpsi (207 - 1586 bar)	
Stroke:	6 mL	
Standard output*:	300 mL/min at 23 Kpsi	
Power:	Pneumatic air motor (15 hp [11.2 kW] compressor, 120 psi [8.27 bar], 57 scfm [96.84 m ³ /h], and/or air tanks required)	
Dimensions (WxLxH):	17" x 32.3" x 16.7" (432 x 820 x 424 mm)	

*Dependent on Reaction Chamber module size

Features	PL300	PL300PH
Dual scale gauge for air and process pressure	☹	☹
Analog process pressure gauge	☹	
Multiplier pump	☹	☹
1 liter reservoir	☹	☹
400 mL reservoir	option	option
Ceramic plunger	☹	☹
Sanitary flush diaphragm pressure transducer and digital display		☹
Diamond Reaction Chamber module for longer life and wear resistant to abrasive applications	☹	☹
Backpressure Reaction Chamber module	☹	☹
Jacketed helical heat exchanger	☹	
Heat exchanger, tube and shell		☹
USP Class VI seals, O-rings, gaskets, EP and passivation of product contact components		☹
Gaskets and O-rings in FKM, TFE	☹	☹
Tools & spares	☹	☹
FAT/SAT and its execution		☹
IQ/OQ documentation and its onsite execution		☹
Inlet and outlet thermocouples		☹

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