

PANDA 1K

NS1001L

Niro Soavi presents the Panda 1K laboratory homogenizer. It is capable of handling feeds of low viscosities at pressures of up to 1000 bar g.

With a small hold up volume and a flow rate of 20 ml/min it is ideal for generating small samples



Compression Block

- Manufactured in high grade and high performances duplex stainless steel, the compression block is designed to ensure the maximum stress resistance to maximise the performances and reliability at high operating pressure
- Solid ceramic pumping piston equipped with specially designed packing that avoid the needs for lubrication water
- Suction and delivery ball valves (PVB) in ceramic, with replaceable suction valve seat in Stellite®
- High precision electronic digital pressure gauge, with built-in pulsation damper

Homogenizing Valve

- Impact head in ceramic and passage head in tungsten carbide
- Manual pressure adjustment by means of a hand-wheel
- Second homogenizing stage included
- Special cell rupture (R type) is included for use in the first stage. This valve is supplied loose and is interchangeable with the standard one

Product Inlet/Outlet

- Plastic (PP) feeding funnel with flexible rubber hose connection to the product inlet;
- Tri-Clamp® connections supplied for inline installation
- No feeding pump is needed

Power End

- Toothed belt drive
- Three phase motor
- Roller bearing drive system and maintenance-free greased lubrication system

Casing

- Made in polished stainless steel, completely removable for maintenance and cleaning
- Stainless steel supporting frame
- Adjustable anti-vibration rubber feet

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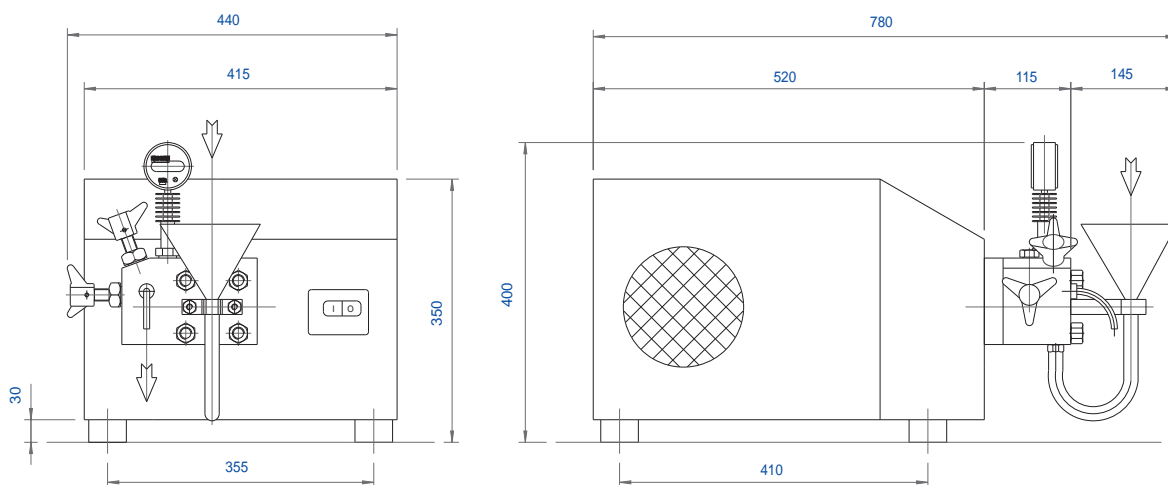
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- The Panda 1K is a small table-top laboratory unit designed for continuous operation up to 1000 bar, suitable for microsizing tests on many different fluids.
- The Panda 1k's flexibility makes it a useful tool for many different sectors, such as the food, dairy, chemical, pharmaceutical and cosmetic industries.
- For products with max viscosity 1000 cP

Main Features:

- Compact design for easy installation, use and maintenance
- Suitable for pumpable products with max 1000 cP viscosity
- Suitable for pharma applications
- Electropolished version ($Ra \leq 0,5 \mu m$) available as option
- FDA approved gaskets, cGMP validation documentation available upon request
- Suitable for CIP/SIP
- Suitable for in-line installation, with Tri-Clamp® connections to a feeding and a discharge tank
- Three-phase electricity is the only utility needed
- No need for cooling/lubrication water



*dimension in millimeters

Design Features and Performances

- Max operating pressure 1000 bar
- Flow rate of 20 l/h @ 1000 bar
- Internal volume 12 cm³
- Three-phase motor 2,2 kW 400V / 50 Hz - 460 V / 60 Hz
- Weight 85 Kg
- Dimensions mm W 460 x H 420 x L 800
- Connections in/out 1/2" Tri-Clamp®

* technical specifications are not mandatory and subject to change without notice