

# PANTHER

## NS3006L Energy

Niro Soavi presents the NS3006L Panther laboratory pilot homogenizer. It is fully equipped and capable of handling feeds with a range of viscosities at pressures of up to 1500 bar g. It is ideal for generating samples in small / medium quantities.



### Compression Block

- Constructed from stainless steel and fitted with wear resistant components to maximise the service life at high operating pressure
- Solid ceramic pumping pistons equipped with specially designed packing for very high pressure applications
- Suction and delivery ball valves (PVB) in special alloy, highly resistant to abrasion, with replaceable valve seats in Stellite®
- High precision electronic digital pressure gauge, with built-in pulsation damper
- Spring loaded overpressure relief valve

### Homogenizing Valve

- Rupture type sharp-edge homogenizing valve in special abrasion and wear resistant material
- Manual pressure adjustment by means of a hand-wheel
- Second homogenizing stage included with flat profile homogenizing valve
- A range of different homogenizing valve types are available for both stages. The selection is dependent on the material that is to be processed.

### Feeding System

- Stainless steel feed funnel (5 l capacity) with connecting pipework to the feeding pump (inclusive of 10 Mesh filter and Tri-clamp fittings) .
- Lobe type pump driven by a separate electric motor with built in Variable Speed Drive unit to adjust the feed pressure according to the product viscosity. All product contact parts are in AISI 316.
- By-pass valve for re-circulating the product into the funnel and pressure gauge to read the inlet pressure

### Power End

- Toothed belt drive
- Three phase motor
- Crank drive with splash lubrication

### Casing

- Made in polished stainless steel, completely removable for maintenance and cleaning
- The machine is mounted on castors for easy handling

### Control Panel

- Electric Power Board in plastic box (IP55 protection) located inside the machine casing. Assembled according to IEC standards
- Start/Stop push buttons for homogenizer and feed pump,
- Emergency stop and pump speed adjustment are located on the front panel of the machine

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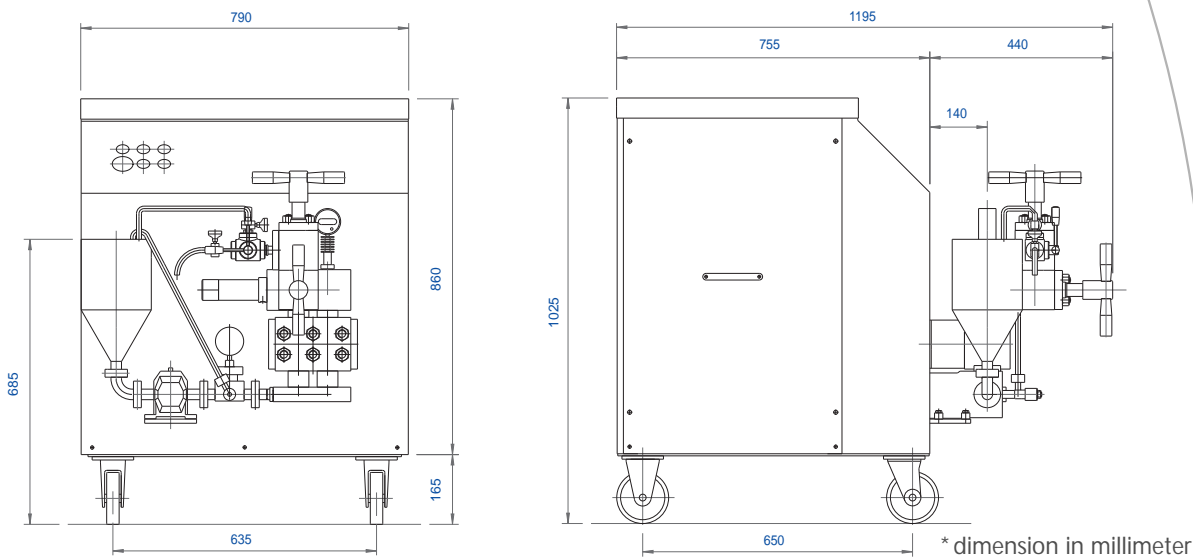
## NS3006L Energy



- The NS3006L Panther is a pilot laboratory unit designed for continuous operation up to 1500 bar, suitable for microsizing tests on many different fluids.
- The NS3006L Panther's flexibility makes it a useful tool for many different sectors, such as the food, dairy, chemical, pharmaceutical and cosmetic industries.

### Main Features:

- Compact design for easy installation, use and maintenance
- Suitable for viscous pumpable products
- Suitable for pharma applications
- Electropolished version (Ra 0,5 µm) available as option
- 3A execution, FDA approved gaskets, cGMP validation documentation available upon request
- Suitable for CIP/SIP



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

### Performances

	100 bar	150 bar	200 bar	250 bar	400 bar	600 bar	1000 bar	1200 bar	1500 bar
Max Flow Rate (l/h)							120	120	50

### Design Features and Materials

- Compression head ———— - special high grade SS alloy  
- Multi-Block VHP construction
- Pump Valves ———— - ball type (PVB) high wear resistant Stellite alloy
- Pistons ———— - Solid ceramic
- Homogenizing Valve ———— - manually actuated by handwheel  
- made of Tungsten Carbide or Ceramics
- Product line connections ———— - Tri-Clamp
- Power end ———— - rugged cast iron power frame  
- splash lubrication  
- polished stainless steel machine casing
- Feeding System ———— - Built in lobe type pump with Variable Speed Drive  
- Bypass valve and pipe-work with 5L funnel in stainless steel for re-circulation of the product  
- Inlet pressure gauge.
- Electric Features ———— - Electric Power Board in plastic box (IP55 protection)  
placed inside the machine casing and control panel on the machine front panel

### Technical Data

Number of plungers .....	3
Stroke .....	40 mm
Motor power .....	5.5 kW
Weight .....	600 kg
Water consumption.....	120÷150 l/h
Lubricating oil ISO VG 150.....	3 l