

Liquids to Value



PandaPLUS. The simple, scalable research tool for your lab.



Technical Specifications

PandaPLUS | 1000

- Rated flow: 20 l/h
- Max. operating pressure: 1000 bar
- Min. sample volume: 200 ml
- Dimensions: 81x54x44 cm
- Weight: 98 kg
- Sound Pressure Level: < 69 dB(A)

PandaPLUS | 2000

- Rated flow: 9 l/h
- Max. operating pressure: 2000 bar
- Min. sample volume: 15 ml
- Dimensions: 81x54x44 cm
- Weight: 98 kg
- Sound Pressure Level: < 69 dB(A)

Available options:

- Aseptic execution
- Full pharmaceutical version (cGMP certification manual)
- FDA approved gaskets
- Jacketed feed tank

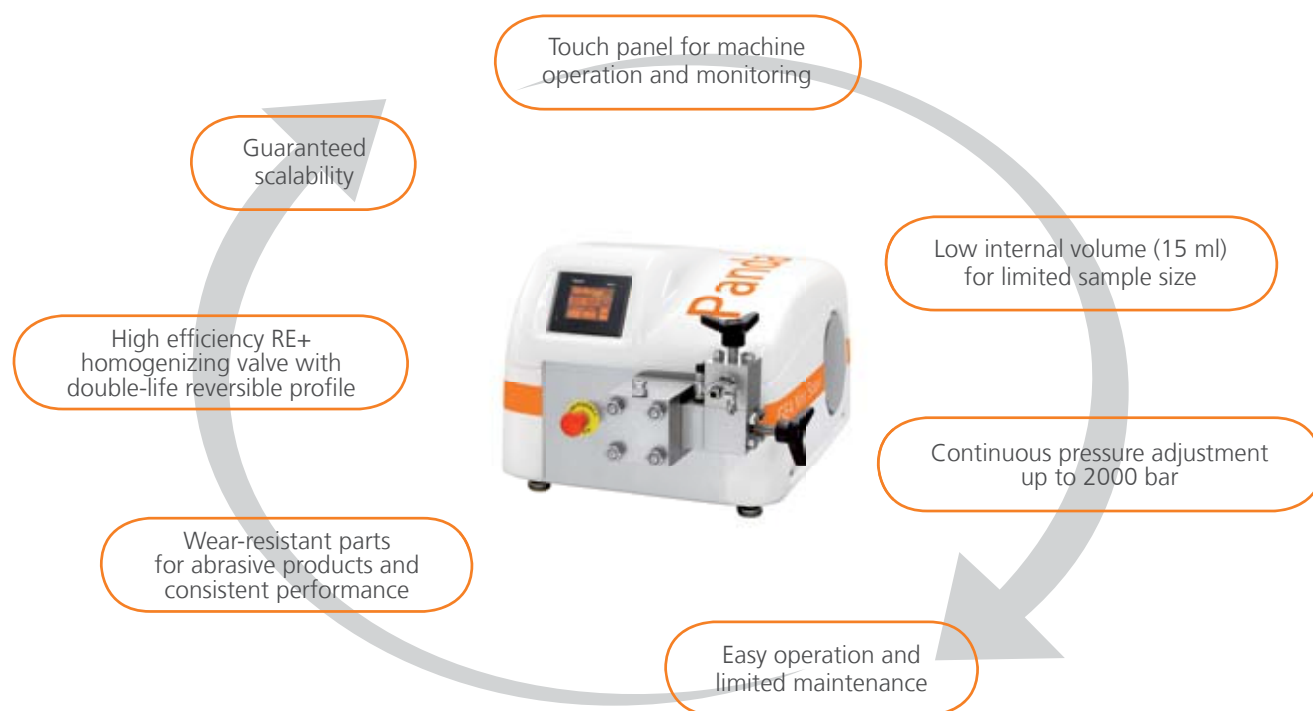
Custom features available upon request to match specific working conditions and requirements.

*Technical specifications are not mandatory and are subject to change without notice.

The Innovations

PandaPLUS: Innovative technology at your fingertips.

Based on long-term experience and tradition, the new generation PandaPLUS offers simple and reliable use of high pressure energy for new production process development and optimized product formulation. The table-top PandaPLUS is engineered for simple operation and reliable and consistent performance, for any laboratory application.



High Pressure Homogenization

GEA Niro Soavi is the global technology leader for high performance homogenizers and pumps. Choose all the advantages of our state-of-the-art solutions.

Homogenization technology uses efficient high pressure energy to break particles present in fluids to the smallest possible size, down to nanometer range. This process creates a stable emulsion or dispersion by forcing the product through a specifically engineered homogenizing valve under high density fluid-dynamic energy conditions thus improving product shelf life and performance.



Research and Development

PandaPLUS for every lab duty.

PandaPLUS is the best fit for any kind of application: food and dairy, pharma, biotech, cosmetic, and chemical, because of its native capability to test at lab size and scale-up to pilot or industrial production. The energy-efficient PandaPLUS high pressure homogenization technology provides maximum yield and effective particle size reduction. It is the state-of-the-art solution for:

- nanotechnology applications
- micro emulsion and dispersions
- cell disruption
- milk & dairy products
- fruit juices & food in general
- nutraceuticals
- specialty formulated products
- flavors and additives

PandaPLUS can operate at any pressure up to 2000 bar on minimal sample volume. Pressure is adjusted manually, while homogenizing valve size and geometry are optimized based upon CFD modeling and extensive laboratory and product experience. This translates into guaranteed scalability of results so our customers can confidently make the shift from lab testing to industrial production. PandaPLUS is available in two versions, up to 1000 bar or up to 2000 bar maximum working pressure.



Customer Satisfaction

Full automation in your lab

The new generation PandaPLUS, in its standard configuration, features a touch panel for easy control of all machine functions:

- Start/Stop
- Actual pressure readout, pressure trend diagram
- Built-in safety protection against overpressure

GEA Niro Soavi sales organization worldwide with their know-how and expertise, is available to respond to all questions and queries about homogenization issues. Please check GEA Niro Soavi website for the closest local branch.



GEA Mechanical Equipment

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