GEA Lab homogenizers

Table-top and pilot plant machines for your lab
Lab homogenizers: a complete range for any needs

Laboratory machines enable us to verify the homogenization effects and optimize the use of pressure.

From the initial concept, through pilot trials and final analysis: this is the right way to fine tune the perfect product’s formulation and the best homogenizing condition. The complete range of GEA laboratory homogenizers helps to refine the most appropriate recipes, with minimum development time and maximum outcome security.

Test results from laboratory homogenizers trials are reliable when scaling up to larger GEA homogenizer for industrial productions.
Lab homogenizers are ideal for the treatment of nanoparticles, nanodispersions, nanoemulsions and cell disruption in pharma, biotech and chemical industries but can also be used successfully for processing milk and dairy products, fruit juices and beverage or liquid food products for small production.

Suitable for any applications

Table-top homogenizers for laboratory tests and small scale production

The Lab Homogenizer PandaPLUS and the Lab Homogenizer TwinPANDA are small and compact machines that offer the possibility of performing tests with small amounts of sample with a guarantee of achieving equal quality results compared to industrial homogenizers. These homogenizers, suitable for variable speed drive, are designed to ensure the maximum stress resistance to maximize the performances and reliability at high operating pressure.
Pilot plant homogenizers: the high pressure units ideal for continuous operation

These pilot plant high pressure homogenizer are designed for continuous operation up to 1500 bar and limited productions easy plug & play installation, simple operation and quick maintenance.

<table>
<thead>
<tr>
<th>Models</th>
<th>Max pressure</th>
<th>Flow rate</th>
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<tbody>
<tr>
<td>Lab Homogenizer PandaPLUS 1000</td>
<td>1000 bar</td>
<td>20 l/h</td>
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<tr>
<td>Lab Homogenizer PandaPLUS 2000</td>
<td>2000 bar</td>
<td>9 l/h</td>
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<tr>
<td>Lab Homogenizer TwinPANDA 400</td>
<td>400 bar</td>
<td>55 l/h</td>
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<tr>
<td>Lab Homogenizer TwinPANDA 600</td>
<td>600 bar</td>
<td>30 l/h</td>
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<tr>
<td>Lab Homogenizer Pony 2600</td>
<td>1200 bar</td>
<td>80 l/h</td>
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<tr>
<td>Lab Homogenizer Pony 2600</td>
<td>1500 bar</td>
<td>35 l/h</td>
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<tr>
<td>Lab Homogenizer Panther 3600</td>
<td>1200 bar</td>
<td>120 l/h</td>
</tr>
<tr>
<td>Lab Homogenizer Panther 3600</td>
<td>1500 bar</td>
<td>50 l/h</td>
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</tbody>
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The Lab Homogenizer Pony 2006 and the Lab Homogenizer Panther 3006 models are standalone fully equipped laboratory units for food & beverage, pharmaceutical, biotechnology, cosmetic, chemical testing or small scale production, featuring the performances of the industrial scale homogenizers.
Main features:

- Guaranteed scalability of results
- High reliability of performance over time and limited maintenance
- Improved performance thanks to Re+VALVE in reversible ceramic or tungsten carbide
- High resistance and conformity for use with abrasive products
- 2nd stage homogenizing valve

Main options:

- Pressure display and controls
- Pressure gauges and transducers
- Electrical power board
- Basic or extended spare part package
- Water and air solenoid valves
GEA is a global technology company with multi-billion euro sales operations in more than 50 countries. Founded in 1881 the company is one of the largest providers of innovative equipment and process technology. GEA is listed in the STOXX® Europe 600 Index. In addition, the company is included in selected MSCI Global Sustainability Indexes.