Rannie 125T / Gaulin 125T
The APV 125T homogeniser is a three-plunger, reciprocating pump, fitted with a single-stage homogenising valve (two-stage optional) with manually adjustable hydraulic actuators.

The APV 125T incorporates a durable slow-speed Power End in a low and compact design, mounted on a concrete sub-frame that reduces vibrations and noise.

One point of control and direct visibility to all internal and external indicators, combined with easy access to all service areas, saves time and money by simplifying inspection and reducing maintenance to a minimum.

The more modular and flexible design of the APV 125T makes it suitable for a wide range of applications and valve types. Homogenising valves can easily be changed in order to accommodate different types of product and/or capacities on the same homogeniser.

Liquid End options include the Rannie three-piece valve housing and the Gaulin mono-block design, both available with a choice of valves, plungers, and packings according to your requirements.

Design features of Rannie, Gaulin, and the new Power End simplify routine maintenance with emphasis on reliability and sturdiness in order to reduce total costs of ownership.

### APV Homogeniser 125T

**The Liquid End Includes**
- Pressure gauge
- Pressure relief valve
- Weld-stub product connections

**The Power End Includes**
- Internal gear and self-adjusting belt tightening
- External plate heat exchanger with temperature transmitter

**The Instrumentation Includes**
- All equipment wired to stainless steel control cabinet (IP69K)
- Emergency stop

**Standard Options**
- Start/stop buttons
- 2nd stage homogenising valve with hydraulic or manual actuation
- Potentiometer-controlled electrical valves for hydraulic actuators
- Remote Kit including 4-20mA output for product pressure, controllers for automatic pressure control and oil-filter alarm switch
- Plunger lubrication control package including flow switch and solenoid valve
- Inlet pressure gauge with low pressure switch
- Aseptic cylinder design
- High-pressure outlet connections
- Pulsation dampener(s): inlet and outlet
- Micro-Gap homogenising valve for increased homogenising efficiency
- Motor starter
- Low-noise insulation of Power End and extension for Liquid End as add-on kit
- Ventilators for very hot environments
- Plungers in ceramics
- Choice of materials for cylinder block, pump valves, homogenising valves, packings, etc.
### Rannie Three-Piece Valve Housing

#### Max. Capacity/Pressure - Poppet or Ball Valves

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Cap. L/H</th>
<th>Cap. G/H</th>
<th>Press. Bar</th>
<th>Press. PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rannie 125</td>
<td>T40</td>
<td>3,000</td>
<td>793</td>
<td>1,000</td>
<td>14,500</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T45</td>
<td>4,500</td>
<td>1,057</td>
<td>800</td>
<td>11,600</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T50</td>
<td>6,000</td>
<td>1,585</td>
<td>600</td>
<td>8,700</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T60</td>
<td>9,000</td>
<td>2,377</td>
<td>400</td>
<td>5,800</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T70</td>
<td>12,000</td>
<td>3,170</td>
<td>300</td>
<td>4,350</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T80</td>
<td>16,000</td>
<td>4,226</td>
<td>250</td>
<td>3,626</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T85</td>
<td>18,000</td>
<td>4,755</td>
<td>210</td>
<td>3,045</td>
</tr>
<tr>
<td>Rannie 125</td>
<td>T90</td>
<td>21,000</td>
<td>5,548</td>
<td>200</td>
<td>2,900</td>
</tr>
</tbody>
</table>

### Gaulin Mono-Block Valve Housing

#### Max. Capacity/Pressure - Poppet or Ball Valves

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Cap. L/H</th>
<th>Cap. G/H</th>
<th>Press. Bar</th>
<th>Press. PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gaulin 125</td>
<td>T50</td>
<td>6,000</td>
<td>1,585</td>
<td>600</td>
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<td>21,000</td>
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<td>2,900</td>
</tr>
</tbody>
</table>

### Innovative APV Homogeniser

- **One Point of Operation**
  - Gauges with capillary tubes placed directly above the controls.
  - Direct visibility to points of control.
  - All internal indicators placed behind a window pane.

- **Oversized Plate Heat Exchanger**
  for low cooling water consumption

- **External Plate Heat Exchanger**
  with solenoid valve control to reduce water consumption

- **Mechanical Hydraulic Valves**
  as standard

- **Electrical Connection Box**
  to be serviced from the outside

- **Double-Sized 5 mm Absolute Filter**
  with filter service-indicator for improved life of oil

- **Optional Extension**
  for noise reduction of Liquid End

- **Concrete Sub-Frame**
  - Noise reduction
  - Vibration dampening
  - Better stability

- **Increased Modularity of Liquid End**
  - Interchangeable valve types (XFD, SEO, LW)
  - Interchangeable valve sizes

- **Easy Service Access (Key & Snap Lock Fasteners)**

- **Balanced Low Speed Crankshaft for Reduced Noise**

- **Increased Reliability/Reduced Service Requirement**
  - Internal gear-unit
  - Relief valve as standard
  - Self-adjusting belt tightening
### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (Incl. Motor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Machine</td>
<td>2450 MM / 97&quot;</td>
<td>1620 MM / 64&quot;</td>
<td>1450 MM / 57&quot;</td>
<td>4700 KGS / 10360 LBS</td>
</tr>
<tr>
<td>Incl. Extension</td>
<td>2650 MM / 105&quot;</td>
<td>1620 MM / 64&quot;</td>
<td>1450 MM / 57&quot;</td>
<td>+ 350 KGS / 772 LBS</td>
</tr>
<tr>
<td>Packed in Crate</td>
<td>2750 MM / 106&quot;</td>
<td>1750 MM / 67&quot;</td>
<td>1825 MM / 71&quot;</td>
<td>+ 380 KGS / 838 LBS</td>
</tr>
</tbody>
</table>

Cubic Measure of Crating: 8.3 M³

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**SPX FLOW TECHNOLOGY**

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