APV brand Homogenizer

The APV brand 110T homogenizer is a three-plunger, reciprocating pump, fitted with a single-stage homogenizing valve (two-stage optional) with manually adjustable hydraulic actuators.

The APV brand 110T 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 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 homogenizing 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 homogenizing valve for increased homogenizing 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, homogenizing 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>G/H CAP.</th>
<th>L/H CAP.</th>
<th>PRESS. PSI</th>
<th>PRESS. BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rannie 110</td>
<td>T35</td>
<td>660</td>
<td>2,500</td>
<td>14,500</td>
<td>1,000</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T40</td>
<td>924</td>
<td>3,500</td>
<td>11,600</td>
<td>800</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T45</td>
<td>1,320</td>
<td>5,000</td>
<td>8,700</td>
<td>600</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T54</td>
<td>1,980</td>
<td>7,500</td>
<td>5,800</td>
<td>400</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T65</td>
<td>2,640</td>
<td>10,000</td>
<td>4,350</td>
<td>300</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T70</td>
<td>3,168</td>
<td>12,000</td>
<td>3,625</td>
<td>250</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T75</td>
<td>3,696</td>
<td>14,000</td>
<td>3,000</td>
<td>210</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T85</td>
<td>4,752</td>
<td>18,000</td>
<td>2,465</td>
<td>170</td>
</tr>
<tr>
<td>Rannie 110</td>
<td>T90</td>
<td>5,544</td>
<td>21,000</td>
<td>2,175</td>
<td>150</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>G/H CAP.</th>
<th>L/H CAP.</th>
<th>PRESS. PSI</th>
<th>PRESS. BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gaulin 110</td>
<td>T45</td>
<td>1,320</td>
<td>5,000</td>
<td>8,700</td>
<td>600</td>
</tr>
<tr>
<td>Gaulin 110</td>
<td>T54</td>
<td>1,860</td>
<td>7,500</td>
<td>5,800</td>
<td>400</td>
</tr>
<tr>
<td>Gaulin 110</td>
<td>T65</td>
<td>2,640</td>
<td>10,000</td>
<td>4,350</td>
<td>300</td>
</tr>
<tr>
<td>Gaulin 110</td>
<td>T70</td>
<td>3,168</td>
<td>12,000</td>
<td>3,625</td>
<td>250</td>
</tr>
<tr>
<td>Gaulin 110</td>
<td>T75</td>
<td>3,696</td>
<td>14,000</td>
<td>3,000</td>
<td>210</td>
</tr>
<tr>
<td>Gaulin 110</td>
<td>T85</td>
<td>4,752</td>
<td>18,000</td>
<td>2,465</td>
<td>170</td>
</tr>
<tr>
<td>Gaulin 110</td>
<td>T90</td>
<td>5,544</td>
<td>21,000</td>
<td>2,175</td>
<td>150</td>
</tr>
</tbody>
</table>

---

**Innovative APV brand Homogenizer**

- **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 μm 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>97” (2,450 mm)</td>
<td>64” (1,620 mm)</td>
<td>57” (1,450 mm)</td>
<td>10,360 lb (4,700 kg)</td>
</tr>
<tr>
<td>Incl. Extension</td>
<td>105” (2,650 mm)</td>
<td>64” (1,620 mm)</td>
<td>57” (1,450 mm)</td>
<td>+ 772 lb (350 kg)</td>
</tr>
<tr>
<td>Packed in Crate</td>
<td>106” (2,750 mm)</td>
<td>67” (1,750 mm)</td>
<td>71” (1,825 mm)</td>
<td>+ 838 lb (380 kg)</td>
</tr>
</tbody>
</table>

Cubic Measure of Crating: 8.3 m³

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit [www.spxflow.com](http://www.spxflow.com).

SPX FLOW, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit [www.spxflow.com](http://www.spxflow.com).

The green "*" and "**" are trademarks of SPX FLOW, Inc.

**SPX FLOW** 611 Sugar Creek Road Delavan, WI 53115

P: (262) 728-1900 or (800) 252-5200   E: answers.us@spxflow.com

Issued 02/2017  3001-05-07-2012-US   Copyright © 2017 SPX FLOW, Inc.