

Rannie 110T / Gaulin 110T



The more modular and flexible design of the APV brand 110T makes it suitable for a wide range of applications and valve types. Homogenizing valves can easily be changed in order to accommodate different types of product and/or capacities on the same homogenizer.

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.

SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands.

Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets.

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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**

| MODEL | TYPE | CAP. G/H | CAP. L/H | PRESS. PSI | PRESS. BAR |
|------------|------|-------------|-------------|---------------|---------------|
| RANNIE 110 | T35 | 660 | 2,500 | 14,500 | 1,000 |
| RANNIE 110 | T40 | 924 | 3,500 | 11,600 | 800 |
| RANNIE 110 | T45 | 1,320 | 5,000 | 8,700 | 600 |
| RANNIE 110 | T54 | 1,980 | 7,500 | 5,800 | 400 |
| RANNIE 110 | T65 | 2,640 | 10,000 | 4,350 | 300 |
| RANNIE 110 | T70 | 3,168 | 12,000 | 3,625 | 250 |
| RANNIE 110 | T75 | 3,696 | 14,000 | 3,000 | 210 |
| RANNIE 110 | T85 | 4,752 | 18,000 | 2,465 | 170 |
| RANNIE 110 | T90 | 5,544 | 21,000 | 2,175 | 150 |



Rannie Three-Piece Valve Housing

**GAULIN / MONO-BLOCK VALVE HOUSING
MAX. CAPACITY/PRESSURE - POPPET OR BALL VALVES**

| MODEL | TYPE | CAP. G/H | CAP. L/H | PRESS. PSI | PRESS. BAR |
|------------|------|-------------|-------------|---------------|---------------|
| GAULIN 110 | T45 | 1,320 | 5,000 | 8,700 | 600 |
| GAULIN 110 | T54 | 1,980 | 7,500 | 5,800 | 400 |
| GAULIN 110 | T65 | 2,640 | 10,000 | 4,350 | 300 |
| GAULIN 110 | T70 | 3,168 | 12,000 | 3,625 | 250 |
| GAULIN 110 | T75 | 3,696 | 14,000 | 3,000 | 210 |
| GAULIN 110 | T85 | 4,752 | 18,000 | 2,465 | 170 |
| GAULIN 110 | T90 | 5,544 | 21,000 | 2,175 | 150 |



Gaulin Mono-Block Valve Housing

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

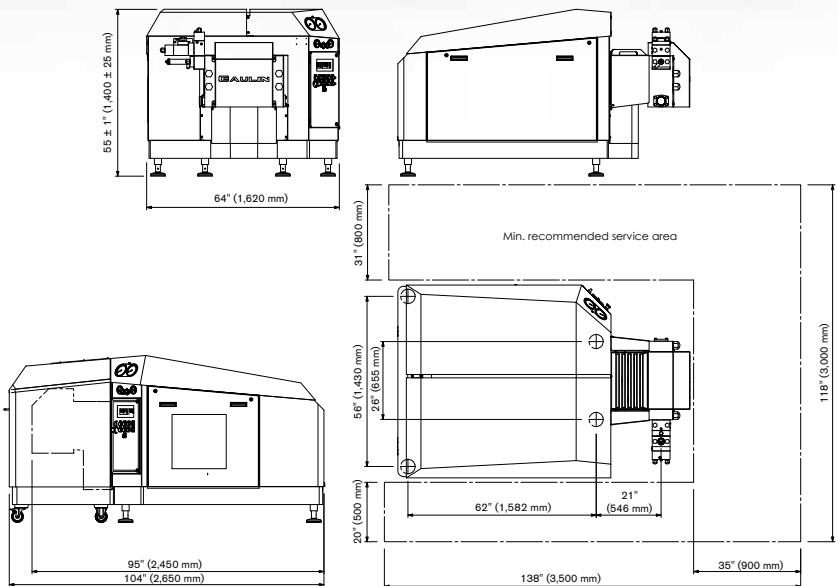
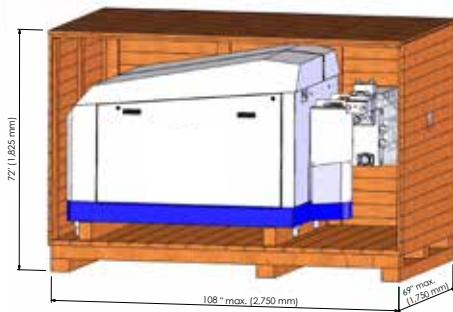
- Increased reliability/reduced service requirement
- Internal gear-unit
- Relief valve as standard
- Self-adjusting belt tightening

Rannie 110T

Gaulin 110T



Dimensions



| DIMENSIONS | LENGTH | WIDTH | HEIGHT | WEIGHT (INCL. MOTOR) |
|------------------|-----------------|----------------|----------------|----------------------|
| STANDARD MACHINE | 97" (2,450 mm) | 64" (1,620 mm) | 57" (1,450 mm) | 10,360 lb (4,700 kg) |
| INCL. EXTENSION | 105" (2,650 mm) | 64" (1,620 mm) | 57" (1,450 mm) | + 772 lb (350 kg) |
| PACKED IN CRATE | 106" (2,750 mm) | 67" (1,750 mm) | 71" (1,825 mm) | + 838 lb (380 kg) |

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



SPX FLOW 611 Sugar Creek Road Delavan, WI 53115

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

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