

# Rannie 110T / Gaulin 110T

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

The APV 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 more modular and flexible design of the APV 110T 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

### THE LIQUID END INCLUDES

- Pressure gauge
- Pressure relief valve
- Weld-stub product connections

### THE POWER END INCLUDES

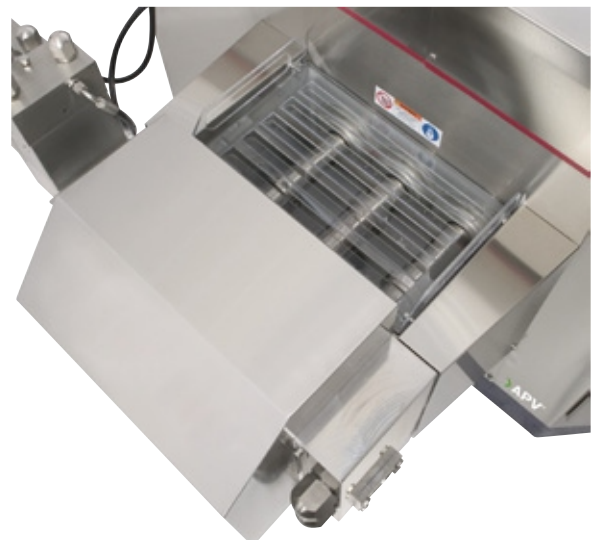
- Internal gear and self-adjusting belt tightening
- External plate heat exchanger with temperature transmitter

### THE INSTRUMENTATION INCLUDES

- All equipment wired to stainless steel control cabinet (IP69K)
- Emergency stop

### STANDARD OPTIONS

- Start/stop buttons
- 2<sup>nd</sup> 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.

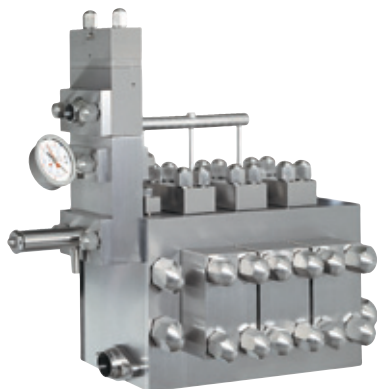


RANNIE / THREE-PIECE VALVE HOUSING MAX. CAPACITY/PRESSURE - POPPET OR BALL VALVES					
MODEL	TYPE	CAP. L/H	CAP. G/H	PRESS. BAR	PRESS PSI
RANNIE 110	T35	2,500	660	1,000	14,500
RANNIE 110	T40	3,500	924	800	11,600
RANNIE 110	T45	5,000	1,320	600	8,700
RANNIE 110	T54	7,500	1,980	400	5,800
RANNIE 110	T65	10,000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



RANNIE THREE-PIECE VALVE HOUSING

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



GAULIN MONO-BLOCK VALVE HOUSING

## 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.

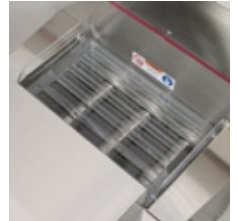


Oversized plate heat exchanger for low cooling water consumption



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 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

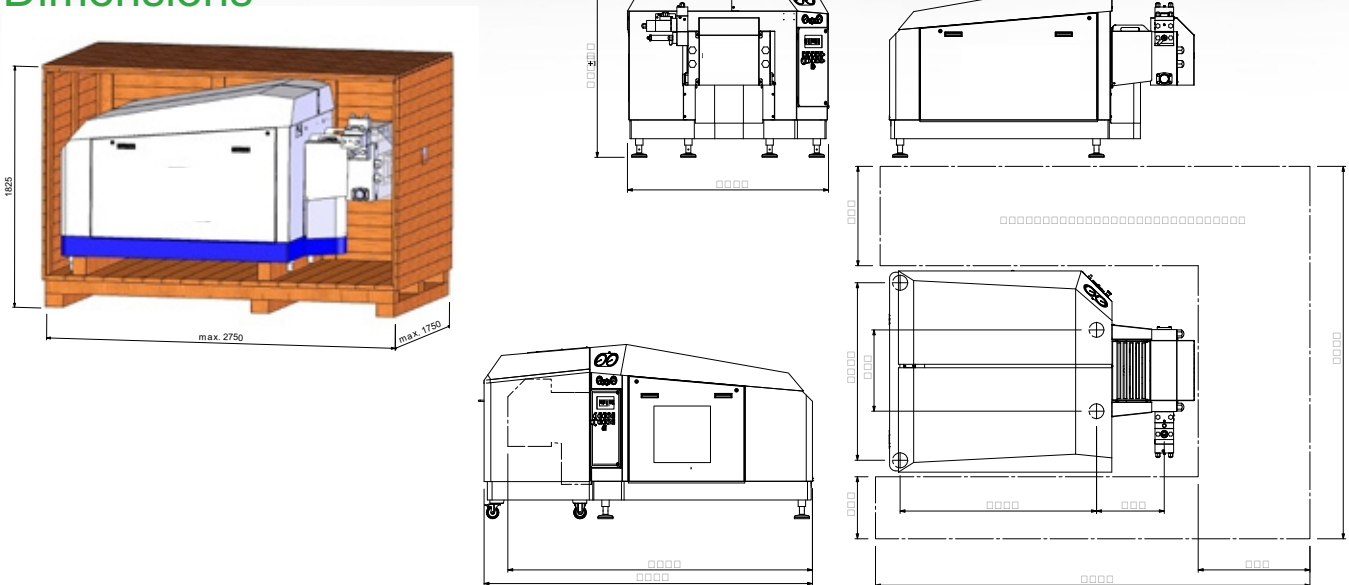
Increased reliability/reduced service requirement

- 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	2450 MM / 97"	1620 MM / 64"	1450 MM / 57"	4700 KGS / 10360 LBS
INCL. EXTENSION	2650 MM / 105"	1620 MM / 64"	1450 MM / 57"	+ 350 KGS / 772 LBS
PACKED IN CRATE	2750 MM / 106"	1750 MM / 67"	1825 MM / 71"	+ 380 KGS / 838 LBS

CUBIC MEASURE OF CRATING: 8,3 M3



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