

PILOT 4T

HOMOGENIZER



Compact homogenizer offers versatility to pilot or small-scale liquids production

SPX FLOW's APV® Pilot 4T homogenizer offers versatility for batch or continuous operation in a wide range of low-capacity applications. It is available for pump, single and two-stage homogenization in pilot or small-scale production.

Stand-out features include three-plunger design and integrated variable speed drive, which enables smooth operation across the industry's broadest range of flow and pressure parameters.

The Pilot 4T's compact design and proven performance are the results of many years of homogenizer design and applications experience. It is ideal for dairy, food, beverage, personal care and many other applications that can benefit from controlled low-flow rate operation. A modular component design makes it easy to configure for new products and recipes.

Its rugged construction features a liquid end made from high-grade duplex stainless steel and high-efficiency hard-wearing tungsten carbide, Stellite or ceramic homogenizing valves. The Pilot 4T is designed for CIP and SIP and features FDA, EN1935:2004 and GB4806 product contact materials as standard. 3-A certification is available for models up to 600 bar.

Control options range from manual to touchscreen PLC with an interface to plant control systems, enabling remote operation.

Benefits

- Easy integration with your process or skid
- Simple interface for manual or automated control
- Integrated variable speed drive provides smooth and flexible operation over a range of flow rates
- Three-plunger design enhances flow stability
- Modular design scales from lab to continuous production
- Direct drive transmission reduces maintenance
- Integrated controls eases installation and reduces cost
- IE4 motor as standard reduces energy consumption

Standard Options

- Homogenizer or pump
- Single or two-stage
- Manual or automatic control (inbuilt PLC or terminals for external PLC)
- Allen Bradley or Siemens PLC with touchscreen
- Aseptic design
- High-pressure discharge connection
- Inlet pressure gauge
- Second-stage pressure gauge
- Choice of materials for pump and homogenizing valves
- Plunger lubrication control package
- Pedestal stand

Special Options

- Discharge relief valve
- Documentation packages for material traceability, certification, and cGMP support
- Skid mounted with tank, pump and heat exchanger

PILOT 4T CAPACITIES

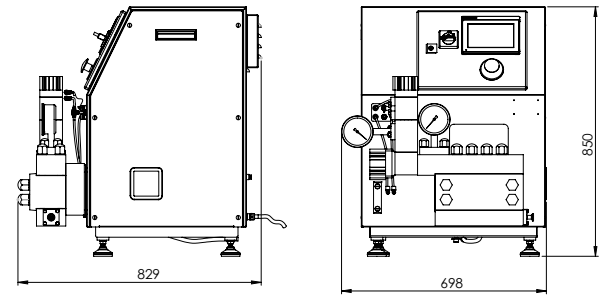
TYPE	METRIC UNITS		US UNITS	
	CAPACITY RANGE PRESSURE		CAPACITY RANGE PRESSURE	
	l/h	bar	gal/hr	psi
4T 12.38	20 - 100	1,000	5.2 - 26.5	14,500
4T 13.38	20 - 135	600	5.2 - 35.7	8,700
4T 18.38	50 - 300	400	13.2 - 79.3	5,800
4T 24.38	90 - 600	210	23.8 - 158.5	3,000

TECHNICAL SUMMARY	
Gross Weight	395 kg 870 lb
Net Weight	275 kg 610 lb
No. of Plungers	3
Connections	20 mm 3/4" Tri-clamp or 12 mm 1/2" Tri-clamp
Lubrication Water Flow Rate	80 (30*) l/h 21 (8*) gal/hr
Cooling Water Flow Rate	N/A
Power	4 kW 5.4 HP IE4

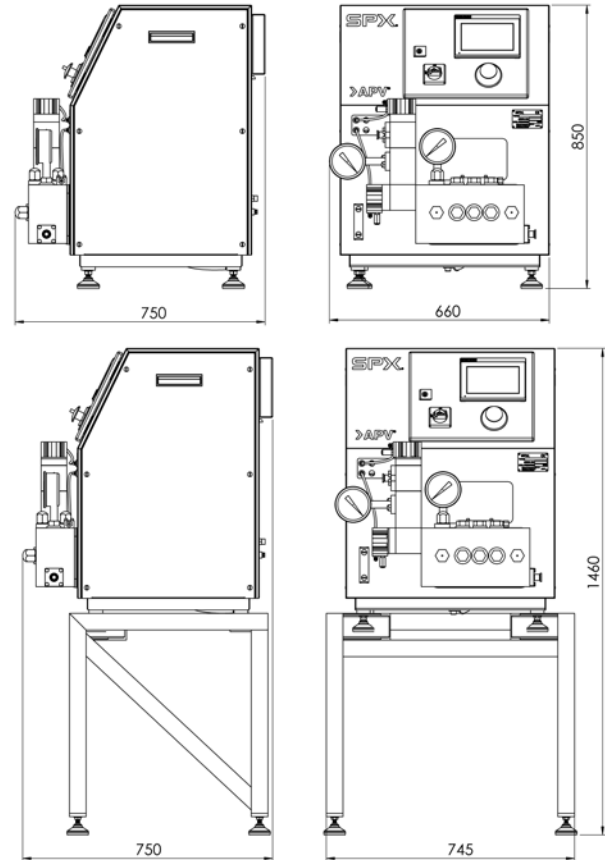
* with Serial Lubrication Option

DIMENSIONS (L x W x H)		
Model	12.38	13.38 18.38 24.38
Standard Machine	829 x 698 x 850 mm 33 x 27 x 34"	750 x 660 x 850 mm 30 x 26 x 34"
Mounted on Frame	829 x 761 x 1460 mm 33 x 30.5 x 58"	750 x 745 x 1460 mm 30 x 29.5 x 58"
Packed in Crate	1360 x 1050 x 1300 mm 54 x 41 x 51"	
Packed Volume	1.9 m³ 67.1 ft³	

4T 12.38



4T 13.38 | 18.38 | 24.38



Note: All images are for indication only – some options may not be supplied as standard.



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. The green “>” is a trademark of SPX FLOW, Inc.

For more information, visit www.spxflow.com/apv.