

APV Rannie Laboratory Homogenizer, Model Mini-Lab, type 8.30H, ideal for research and development, working Pressure: 0-1000 bars, capacity 10 l/hr, minimum test sample is approximately 120 ml. Unit is like new.

RANNIE High Pressure Laboratory Homogeniser

Model MINI-LAB, type 8.30H

For research and development in high pressure homogenisation and for cell rupture processing in the food, chemical, pharmaceutical, cosmetic, and the biotechnical industries

The Rannie MINI-LAB is a high pressure homogeniser, especially developed for R&D laboratories within the food, chemical, pharmaceutical, cosmetic, and the biotechnical industries.

The MINI-LAB has a very small test volume, which makes it specially suited for laboratories, where the amount of product available often is limited.

The homogenising pressure is adjustable between 0 and 1000 bar which makes it possible to test almost all kinds of product, whether it is high pressure homogenisation of e.g. emulsions and suspensions, micronising of particles, or rupture of cell membranes.

The MINI-LAB homogeniser is designed on the same principles as Rannie's high pressure homogenisers for production and pilot plants. This makes it possible to make use of the results of the tests when judging the obtainable advantages of a full-scale production of the product.

Working pressure 0-1000 bar
Capacity 10 l/h
Min. test sample app. 120 ml



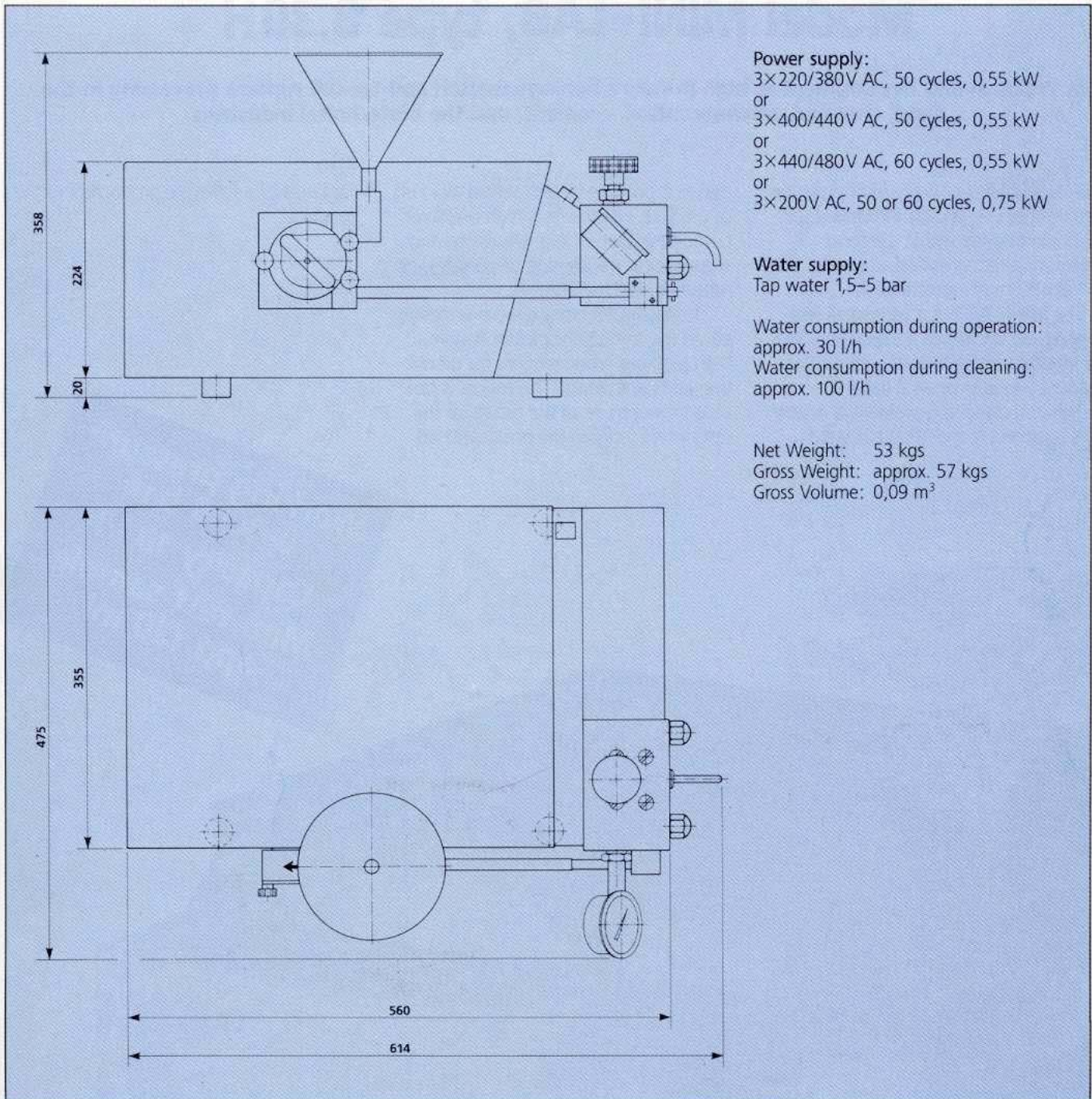
Design

Model MINI-LAB is a 2 piston laboratory high pressure homogeniser, designed for working pressures up to 1000 bar. All product contacting surfaces are of special acid-proof steel. Sanitary design for cleaning in place (C.I.P.) by re-circulation of detergent or water flushing with tap water. Valve housing with ball valves in tungsten carbide, 1-stage homogenising system with Rannie BCD homogenising valve in tungsten carbide, and diaphragm

pressure gauge 0–1600 bar. The spring-loaded homogenising valve relieves the pressure in the valve housing in case of over-load or incorrect operation. The high pressure cylinders are equipped with closed water lubrication of packings and pistons. Other lubricating liquids or steam condensate for aseptic tests can be used. The product is automatically pumped from the inlet funnel or from a separate product tank to the suction channel of

the valve housing by a peristaltic feed-pump incorporated in the drive.

Model MINI-LAB is a handy desk model in unique design, equipped with geared drive, start-stop switch and cover plate. Supplied complete with electric cable, plastic tubes for water and product connections, one set of spare parts and special tools.



Power supply:

3×220/380V AC, 50 cycles, 0,55 kW
or
3×400/440V AC, 50 cycles, 0,55 kW
or
3×440/480V AC, 60 cycles, 0,55 kW
or
3×200V AC, 50 or 60 cycles, 0,75 kW

Water supply:

Tap water 1,5–5 bar

Water consumption during operation:
approx. 30 l/h

Water consumption during cleaning:
approx. 100 l/h

Net Weight: 53 kgs

Gross Weight: approx. 57 kgs

Gross Volume: 0,09 m³

TECHNICAL SPECIFICATIONS

ORDER/SERIAL No.: 9-88-151

MUST be stated when contacting Rannie.

NOTE:

A plate showing this SERIAL NUMBER is placed on the back of the machine.

TECHNICAL DATA

CAPACITY	:	10 l/h	
MIN. TEST SAMPLE	:	Approx. 120 ml	
HOMOGENISING PRESSURE	:	Max. 1000 bar	(14500 psi)
OPERATING VOLTAGE	:	See mark on cable or motor specifications	
COOLING WATER CONSUMPTION:		During operation :	30 l/h
		During cleaning :	100 l/h
		Water pressure :	1,5-5 bar
MAX. MEASURES	:	Width	: 475 mm 19 in
		Length	: 614 mm 24.6 in
		Height	: 358 mm 14.3 in
		Net weight	: 53 kgs