

## APV Rannie High Pressure Laboratory Homogenizer, Type 8.30H

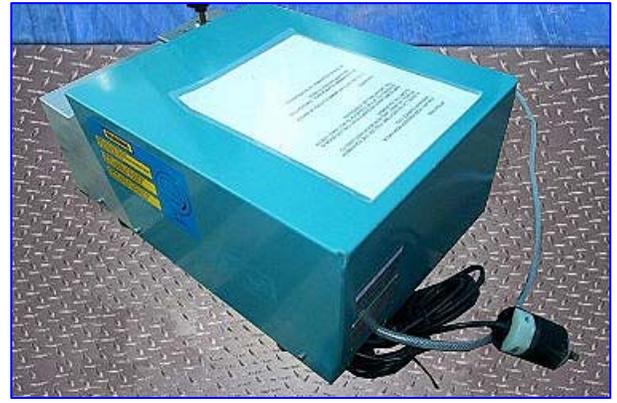
Mfg: APV Rannie

Model: 8.30H

Stock No. DBBP3517.8

Serial No. 9.98.141

1998 APV Rannie High Pressure Laboratory Homogenizer. Model: 8.30H. Single stage manual valve assembly. Working pressure: 14,500 psi. Capacity: 0.05 gpm. Minimum test sample is approximately 120 mL. System requirements: 1.0/1.2 hp, 1375/1650 rpm, 572.9/687.5 rpm (final), 220 V, 3.5 amps, 50/60 Hz, 3 phase. Ratio: 24. Inlets: (1) 3/8 in. dia. stainless steel fitting. Outlets: (1) 1/4 in. dia. pipe. Overall dimensions: 24 in. L x 20-1/2 in. W x 11 in. H. S/N: 9.98.141.





Motor type BF5	3 l	iso.cl.F	IP55	
3x220V	3,5A	50Hz	0,75kW	1375RPM
3x220V	3,5A	60Hz	0,90kW	1650RPM
Max.prefuse	24:1 gear	Max.pressure:		
3x10A		1000 BAR		
Serial no.	9.99.1211	14500 PSI		
APV Rannie AS		Copenhagen Denmark		

Rannie TYPE:		
SERIAL NO.		
MAX. PRESSURE		BAR
APV HOMOGENISERS AS, COPENHAGEN DENMARK		



# 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 ad-

vantages of a full-scale production of the product.

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



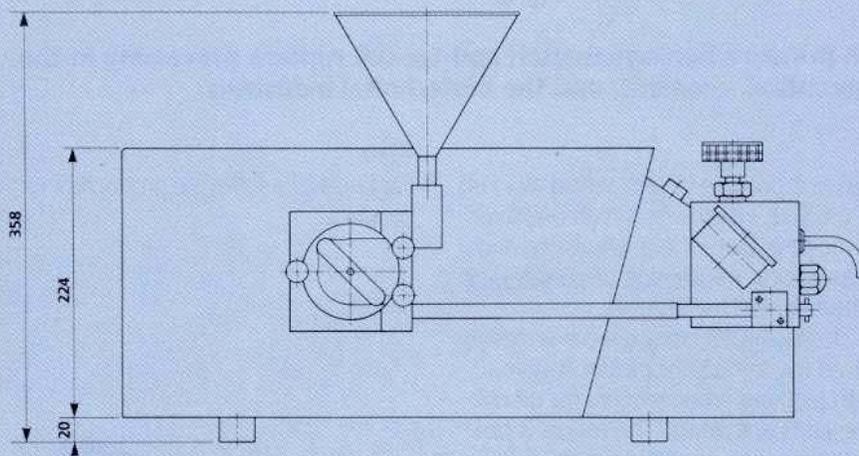
## Design

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 m<sup>3</sup>

