

Compressed Air Driven Laboratory Mixer

TECHNICAL DATA SHEET

General Description

Model L2/Air
Capabilities An efficient, lightweight machine powered by an intrinsically safe air motor suitable for use in Flameproof areas. Suitable for Mixing, Emulsifying, Blending, Homogenising, Disintegrating, Particle size reduction, De-agglomeration, Gelling, Solubilising, Reaction acceleration

Construction

Wetted surfaces 316L Stainless steel
Bench Stand Assemblies Manually operated bench stand, stainless steel
 Accepts any L4 or L5 Series mixing assemblies. Special Sealed Unit assemblies available.
Stators GPDH, SQHS, EMSC, AFLH (2 frame arm standard assembly)
Bush material Bronze Alloy or PTFE (standard) others available on request

Motor specification

Power rating 0.25 kW stainless steel air motor
Drive speed Infinitely variable speed via regulator
 Nominal maximum speed 9600 rpm
Supply Requires 97 psi (6.3 Bar) compressed air.
 Consumes 5.3 litres/sec at full speed.

Optional Extras

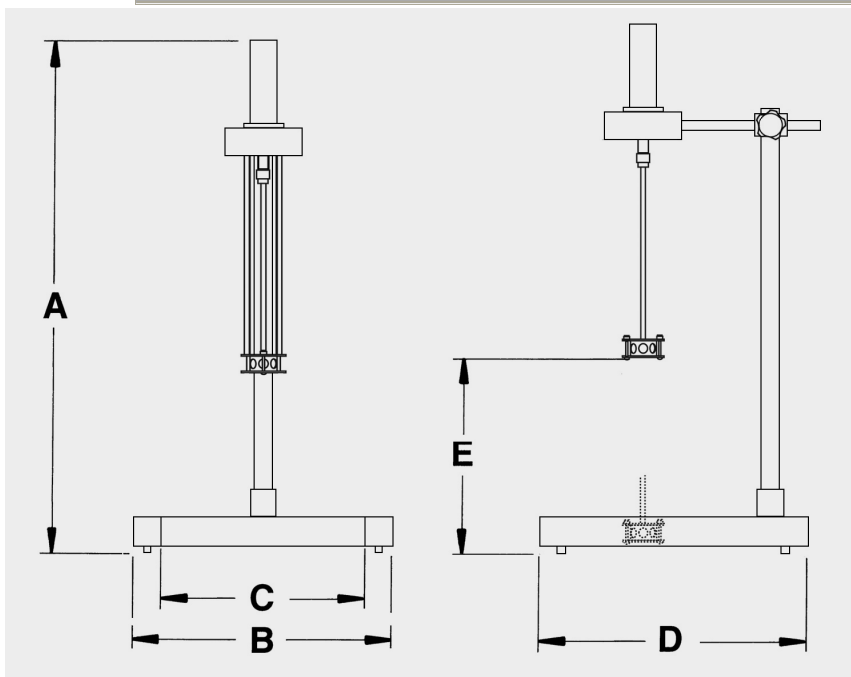
Air regulator & gauge
 Water filter & lubricator

Operating specification

Maximum pressure Atmospheric (standard)
Vessel volume 1ml to 12 litres (water)
Rotor blades 4
Net weight 3.8 kg (mixer net weight)

Operating data

Rotor diameter 30 mm
Shear rate[‡] 42,957 s⁻¹



kW	RPM	A	B	C	D	E
0.375	3000	910	360	280	370	300

Note: The stand is manually adjustable and dimensions A and E are based on the highest setting on the stand, measured to the top of the motor.

[‡] Shear rates will be dependant on product and installation. Nominal shear rates quoted as a guide. All dimensions shown are in mm. The dimensions shown are approximate only and certified diagrams should be used for installation purposes. Silverson Machines reserves the right to change dimensions and specifications without notice.

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Advantages

Scale-Up
 Accuracy in forecasting the performance of large machines under full-scale working conditions.

Workheads
 Over 40 interchangeable mixing assemblies and workheads available including Pumphead, In-Line and Duplex assemblies

Performance
 Unsurpassed speed and efficiency in every day laboratory work. Consistent and repeatable results every time. Ideal for small scale production.

Cleaning
 A short run in water, detergent or an appropriate solvent between successive operations is normally sufficient. For more thorough cleaning, dismantling is easy and downtime is minimal.

