

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	Manually operated bench stand, cast iron base in Silverson blue
Assemblies	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 hp air motor
Drive speed	Infinitely variable speed via regulator
	Nominal maximum speed 6000 rpm
	Requires 50 psi compressed air supply.
Supply	Consumes 19 cfm (540 liters) at full speed.

Optional Extras

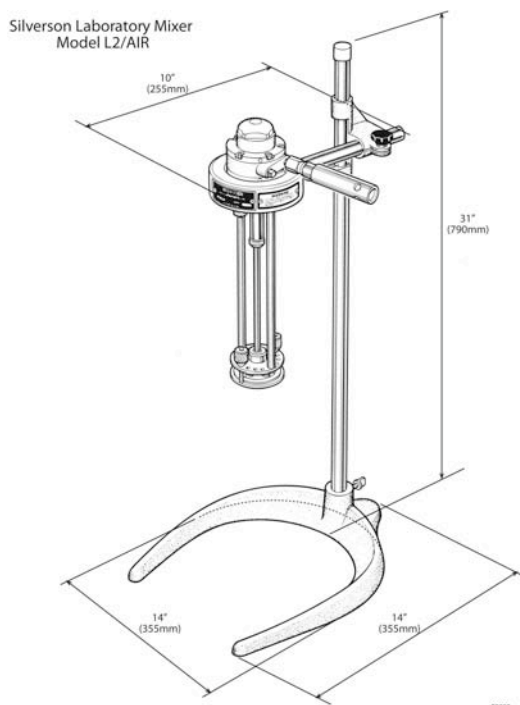
Air regulator & gauge
Water filter & lubricator
Stainless steel motor uit

Operating specification

Maximum pressure	Atmospheric (standard)
Vessel volume	1ml to 12 litres (water)
Rotor blades	4
Net weight	5.5 kg

Operating data

Rotor diameter	30 mm
Tip speed	10 m/sec
Shear rate†	42,957 s ⁻¹
Turnover rate	4.16 t/min based on 12 litre vessel, GPDH at 6000 rpm



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.



† Shear rates will be dependant on product and installation. Nominal shear rates quoted as a guide.
All dimensions shown are in inches. 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.