5.0 TECHNICAL SPECIFICATIONS

5.1 Performance graph

604001
610072

Air Operated Drum Mixer

International Pump Manufacturing
IPM
3107 142nd, Ave. E. # 106
Sumner, WA 98390
Tel: 253-863-2222
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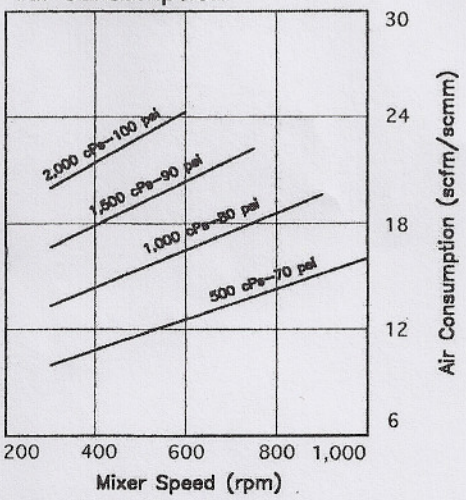
Technical Specifications

Minimum Operating Speed.....300 rpm
Maximum Continuous Operating Speed.....1,000 rpm
Maximum Intermittent Operating Speed.....1,200 rpm
Minimum Recommended Viscosity.....None
Maximum Recommended Viscosity.....2,000 cPs
Blade Circle (collapsed).....2" dia.
Air Inlet Port.....1/4 npt(f)
Air Outlet Port (muffled).....1/4 npt(f)
Wetted Parts.....Stainless Steel
Weight.....11 lbs. (5 Kg.)

Air Consumption



Choose mixer speed across bottom of chart and follow up to material viscosity. Approximate required air flow is shown at right. Required air pressure is shown beside viscosity, but will vary with material.

Higher viscosities require higher pressures

Every fluid has individual properties and characteristics. However, in general, higher viscosity fluids require more air pressure to turn the blades. A minimum air operating pressure of 40 psi is recommended for all fluids up to 500 cPs. For fluids between 500 cPs and 2,000 cPs, increase air pressure from 40 psi to 100 psi. To minimize air consumption, use the lowest air pressure possible to achieve the required mixing speed, and make small speed corrections with the throttling valve.

Mixer Operating Tips

Maintaining Particle Suspension

Initially, higher mixer speed is required to *get* particles in suspension. This typically can be done in 1/2 hour or less. Once the particles are in suspension, the mixer speed can be reduced to only that required to *maintain* suspension. To minimize air consumption, always use the lowest air pressure required to do the job, then use the throttling valve to maintain the speed.

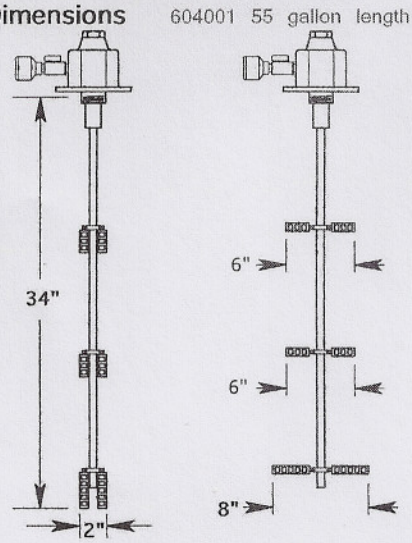
"Meter out" for controllability

IPM drum mixers are shipped with the throttling valve assembled in the "meter out" flow direction. This is the flow direction recommended to maintain effective speed control, especially at low rpm conditions.

Muffler Maintenance

Periodic cleaning of the air motor muffler ensures the lowest possible air consumption, and makes for consistent speed control. Depending on usage and the condition of shop air, clean the muffler with solvent, and blow out trapped solids.

Dimensions 604001 55 gallon length



Ar rest, blades will fit through a 2" bung opening.
While spinning, blades extend to the diameters shown.

Dimensions 610072 Tote length