

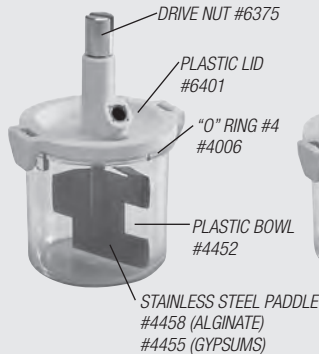


Vac-U-Mixer Use & Care

200 ML #6400



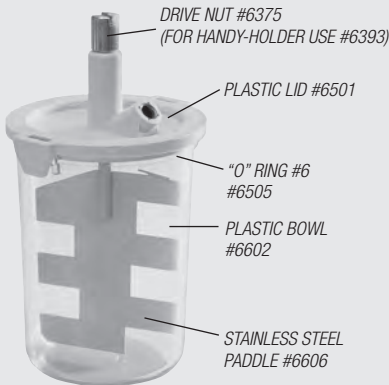
300 ML #4450



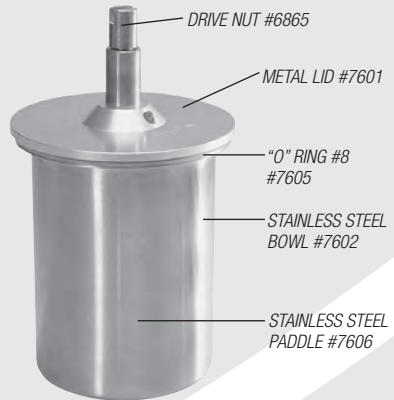
500 ML #6500



875 ML #6600



1200 ML #7600



Note: Two "O" Rings #1 (#4008) are installed on paddle shaft of all sizes except the #7600 which requires "O" Rings #2 (#5702).

Introduction

The five sizes of the VAC-U-MIXER are shown on the cover. All are designed to produce dense, smooth, bubble-free mixes of plaster, stone, investment, alginate, etc., by mixing UNDER VACUUM.

The VACUUM POWER MIXER PLUS or the COMBINATION UNIT will accept any of the five sizes. The 200 ml, 300 ml, or 500 ml sizes can be operated with the VAC-U-VESTOR and high-speed drive of the COMBINATION UNIT. Depending on the Whip Mix vacuum mixing equipment being used, the VAC-U-MIXER can be supplied with Drive Nuts to suit the individual's need (see back page).



CAUTION: DO NOT INSERT ANY OBJECT OTHER THAN AN ASSEMBLED MIXING BOWL INTO A DRIVE CHUCK AT ANY TIME.

Handy-Holder

The 500 ml and 875 ml sizes are also available with a special lid and #6393 Drive Nut assembly for hands-free mixing. The HANDY-HOLDER system can be easily adapted to your existing Whip Mix mixing equipment.

Operation (Mixing)

The VAC-U-MIXER has been thoroughly tested and is ready for use upon unpacking.

1. Before using – rinse Bowl and Lid assembly. Shake off excess water. This is most important when water and material are measured. Proportion water and material into Bowl according to the manufacturer's recommended water/powder ratio. Incorporate the mix thoroughly with hand spatula so no dry powder or large lumps should remain.
2. Place Lid on Bowl and press gently together to help seat Bowl on "O" Ring (rubber gasket) in Lid.
3. Connect vacuum by slipping metal nozzle at end of Vacuum Hose into opening on top of Lid.

4. **Mixing at Low Speed with the POWER MIXER or COMBINATION UNIT**

Holding Bowl and Lid together, insert the slotted Drive Nut into Drive Chuck for automatic start. After starting, move the Manual Switch to the "ON" position so the pump continues to run after the VAC-U-MIXER is disengaged.

Capacity			
VAC-U-MIXER	VOLUME (ml)	GYPSUM (grams)	ALGINATE (scoops)
#6400	200	25-100	1-2
#4450	300	25-150	1-3
#6500	500	50-350	2-5
#6600	875	50-650	
#7600	1200	100-1000	

Mixing at High Speed with the COMBINATION UNIT

Turn pump “ON” to establish vacuum. Insert the friction Drive Nut #4109 into the turning DriveChuck, the rubber “O” Ring on drive nut must be dry for best results.

MATERIAL	SUGGESTED MIXING TIMES (seconds)	
	@ High Speed 1700 RPM	@ Low Speed 425 RPM
Plaster, Stone, Die Material	10-15	20-30
Gypsum Investment	20-30	40-50
Phosphate Investment	30-45	60-90
Alginate	Not Suggested	12-15
Ideal spatulation time can be determined by a few experimental test runs, as this depends on the material and the consistency of mix as used by the individual operator.		

FOR ALGINATES, SKIP TO ITEM 9.

5. With motor still running, disengage VAC-U-MIXER from Drive Chuck. Vibrate mix to bottom of Bowl and break vacuum by turning switch to “OFF” position once the gauge goes to zero, then disengage Vacuum Hose from Lid. **Switch machine back to “ON” position to allow motor to run for approximately one minute to purge water vapor from pump and to re-oil.**
6. Separate Paddle from mix by vibrating as Lid and Paddle Assembly are removed.
7. Pour mix as usual, taking care that no air bubbles are trapped when pouring.
8. Rinse VAC-U-MIXER parts thoroughly at once under running water. There is no need for drying before next use.
9. For alginates, break vacuum immediately and use mix in conventional manner. **It is still important to let vacuum pump run for approximately one minute to flush water vapor and re-oil.** Allow excess material on Paddle and Bowl to set thoroughly before cleaning since the set alginate will peel away easily.

For mixing alginates, special Flat Paddles are available for the 300 ml and 500 ml sizes that facilitate the removal of material from the paddle for filling the impression tray. The paddle of the 300 ml size is Teflon coated to promote easy handling.

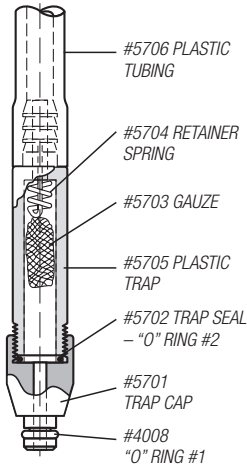
NOTE: Phosphate investments and alginates can contaminate gypsum materials, seriously affecting their working properties. Therefore, it is strongly recommended that separate mixing bowls be used for each type of material and marked to avoid this possibility.

Maintenance

Quick, sure vacuum can only be assured if there are no leaks; check fittings and connections occasionally for tightness.

Periodically, the hole in the Metal Trap Cap (at the end of the Plastic Hose) should be cleaned. When disassembling Plastic Trap, make sure "O" Ring #2 is kept in place inside Metal Trap Cap. Replace gauze as it collects dirt and moisture.

5700 Tubing and Connections



Use of Lubriplate



LUBRIPLATE (lubricating grease) has been applied to the shaft and "O" Rings of the VAC-U-MIXER before leaving our plant. This should be sufficient for several weeks. Thereafter, LUBRIPLATE should be applied lightly several times a year. This helps protect the

nylon bearing in the Lid. For this purpose, unscrew Drive Nut (see below for thread direction) on top of Paddle Shaft, grasp Paddle and pull from Lid. Wipe off Shaft and pull a piece of cloth through bearing. Apply LUBRIPLATE to "O" Rings #1 on Shaft and top of bearing in Lid. After reassembling, wipe away excess grease.

Drive Nuts

	#6375	#6865	#4109	#6393
Thread Direction	Right	Right	Left	Right
Mixing Speed	Low	Low	High	Low
USED WITH				
Combination Unit	X	X	X	X
Vac-U-Vestor			X	
Power Mixer w/Vacuum	X	X		X



"O" Rings provide the leak-proof vacuum needed. Replacement will be necessary depending upon use. LUBRIPLATE applied lightly to the "O" Ring #1 on the end of the Metal Trap Cap makes insertion and removal easier and increases the life of the "O" Ring.