



VPMmini Operator's Manual



Features

- The Whip Mix VPMmini is designed for mixing all types of gypsum, plaster and investment material.
- Powerful Vacuum – The vacuum pump quickly creates a high vacuum.
- Hands Free Mixing – The powerful vacuum allows the unit to hold the Vac-U-Mixer to the unit.
- 99 Flexible Programs – Advanced electronics allow user to pre-program speed and mix time for specific materials.

Specifications

Dimensions with stand: (21.75" H x 6.25" W x 10.25" D)

Weight: 23 lbs. (10.4 kg)

Voltage: 100 – 120 Vac, 5A
200 – 240 Vac, 2.5A
50/60 Hz

Mixing Speed: 100 RPM – 500 RPM

Vacuum: \geq 24 in Hg

User Programs: 99

Mixing Time: 5 Seconds – 955 Seconds (15.9 Minutes)

Fuse Type: 5 Amp

Display Characters: 2 Lines

Operational Altitude: Sea level – 2,000 meters (6,560 feet)

Operational Temperature: 13° C – 41° C (55° F – 105° F)

Recommended Environment: Vertical position, indoors within operational parameters (see Installation for more detail)

Contents

#6585 500 mL Vac-U-Mixer
Operator's Manual – 1
Extra Vacuum Filter – 1
Column, Base, Base Cover, Hardware (with Stand)
Magnetic Program Log
Bracket & Hardware (with Wall Mount)

Optional Accessories

Part #	Description
07420	Lubriplate (2 Tubes)
15680	Spatula
29342	Wall Bracket
29343	Bench Stand
29344	300 mL Vac-U-Mixer
29345	500 mL Vac-U-Mixer
29346	875 mL Vac-U-Mixer
29348	1,200 mL Vac-U-Mixer
29352	350 g Flexible Vac-U-Mixer
29355	650 g Flexible Vac-U-Mixer
29414	Black Sponge Filter

Symbols Used



= Safety Ground



= Warning or Caution



= Important Note

Cautions



CAUTION: ALWAYS PLACE ONE HAND BELOW THE MIXING BOWL BEFORE PRESSING THE START/STOP KNOB TO RELEASE VACUUM.



CAUTION: DO NOT OVERFILL THE MIXING BOWL (PAST THE MAX FILL LINE ON THE BOWL) OR MATERIAL CAN BE DRAWN INTO THE VACUUM PUMP OR FILTER, POSSIBLY PLUGGING THE VACUUM LINE. IF THE MIXING BOWL CAN EASILY BE REMOVED DURING A MIXING CYCLE, THEN THE VACUUM IS NOT AT AN OPTIMAL LEVEL. FAILURE TO ADDRESS A WEAK VACUUM CAN EVENTUALLY CAUSE THE MIXING BOWL TO DROP TO THE COUNTERTOP.



CAUTION: IF THE MIXING BOWL WILL NOT SUPPORT ITSELF EVEN THOUGH THE DISPLAY INDICATES SUFFICIENT VACUUM IS PRESENT, IT MEANS MATERIAL IS BLOCKING THE VACUUM LINE BETWEEN THE BOWL AND THE PUMP. HAVE A QUALIFIED SERVICE PERSON CHANGE THE INLINE TRAP FILTER INSIDE THE MIXER.



CAUTION: NEVER PLACE YOUR FINGER INSIDE THE VACUUM CASTING FOR ANY REASON OR INJURY COULD RESULT. IF THE MIXING PADDLE WILL NOT ROTATE, CONTACT SERVICE PROVIDER.



CAUTION: IF THE VPMmini VACUUM MIXER IS NOT USED IN ACCORDANCE WITH THE INSTRUCTIONS AND WARNINGS IN THIS USER MANUAL, THE PROTECTION PROVIDED BY THE MIXER MAY BE IMPAIRED.



CAUTION: IF THE DETACHABLE AC POWER CABLE IS REPLACED FOR ANY REASON, THE NEW CORD MUST HAVE EQUIVALENT OR GREATER SAFETY RATINGS. THE RATINGS ARE EMBOSSED ALONG THE LENGTH OF THE CORD.

Column and Base Assembly Instructions

1. Lay the VPMmini control head on its face, with the keypad side closest to the work surface. See picture at right.
2. Secure the column to the baseplate by orienting the open side of the column with the flat edge of the baseplate, and threading 2 hex bolts, with washers, as shown below, then tightening the bolts with the hex wrench provided.



3. Secure the other end of the column (with the rectangular cutout) to the head with 4 hex bolts and washers, then tighten with the hex wrench provided.



FOR ASSISTANCE CALL 1-800-626-5651

Installation on Wall Bracket

Preparation

The only hardware supplied with the unit is one #8-32 nut and the bracket clip. See the instructions below for more information regarding hardware.

Mounting

Make sure the wall can support 23 lbs. (10.4 kg) of weight.

1. Mount the bracket to the wall using four 1/4" bolts, screws and lock washers.
2. Place the bracket clip on the back and bottom of the VPMmini with the screw hole facing down.
3. Slide the VPMmini down onto the wall mount bracket. (Make sure the place the unit is mounted can handle the weight.)
4. Install the #8-32 nut onto the threaded stud. See the illustrations below.



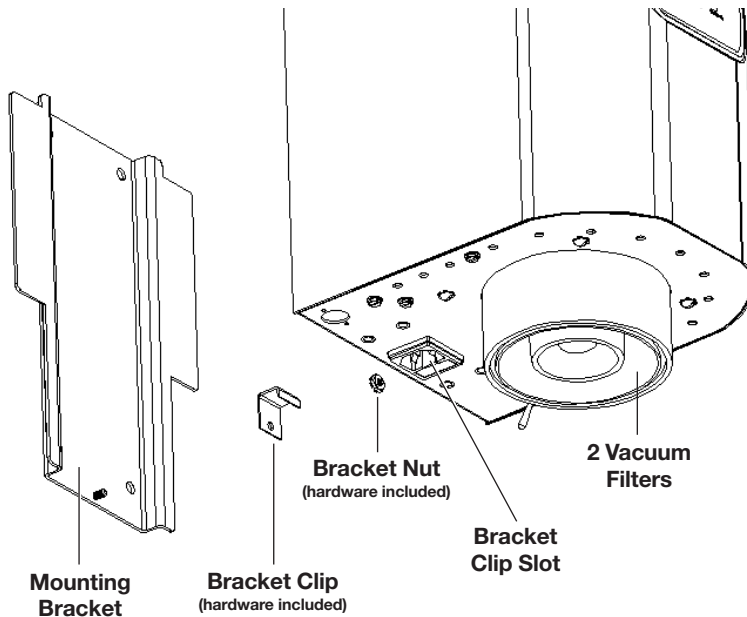
NOTE: MAKE SURE THE UNIT IS ANCHORED ON WALL STUDS, EITHER DIRECTLY OR USING A PLYWOOD BOARD.



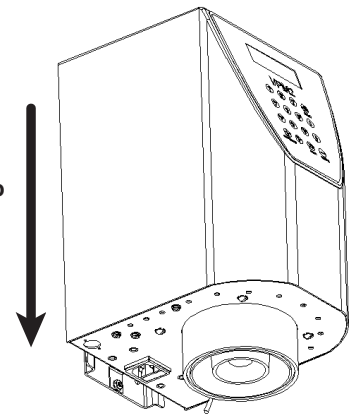
NOTE: THE DRIVE SHAFT MUST POINT DOWNWARD.



NOTE: KEEP A MINIMUM DISTANCE OF 9" (23 CM) BETWEEN THE BOTTOM OF THE MIXING RING AND THE BENCH.

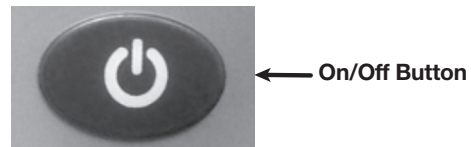


Move the unit down from top of the bracket until secure.



Operation

The vacuum mixer is ready for immediate operation after plugging the power supply cable into the back of the unit. Press the On/Off button.



Entering Programs

1. Setting the Program number

- Press the PROG button (Fig. 1).
- Turn the knob (Fig. 2) to select program number (Max.= 99).
- Press the knob (Fig. 2) to set the number.
- Program number/RPM will flash in top left of screen.

2. Setting the Mixing Time

- Press the TIME button. (Fig. 3)
- Turn the knob (Fig. 2) to select the minutes and seconds (Mins : Secs)
- Press the knob (Fig. 2) to set the number.

3. Setting the Mixing Speed (RPM) (100 – 500 RPM)

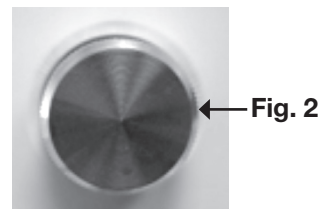
- Press the RPM button. (Fig. 4)
- Turn the knob (Fig. 2) to select the RPM
- Press the knob (Fig. 2) to set the speed (RPM).

4. Storing the Program

- Press PROG button. (Fig. 1)
- Press and hold the knob (Fig 2) to lock in the chosen program. Two short beeps will indicate the program has been stored.
- Repeat the steps above to store up to 99 programs.

Recalling a Program

- Press the PROG button.
- Select the memorized program by turning the rotating knob (Fig. 2) to the desired program number.
- Press the knob (Fig. 2) to lock in the chosen program.



Note: Programs cannot be deleted but can be edited by following the steps above.

Note: Recommended 350 to 450 RPM's for most materials, check with material manufacturer for product specifications.

Mixing

- Choose desired Program number by pressing the PROG Button (Fig. 1) and rotating the knob (Fig 2).

2. Powders must be hand mixed into the liquid(s) before vacuum mixing.

- Place mixing bowl drive nut into the mixer.



Hold the bowl and paddle up until the vacuum supports both and the paddle begins to turn.

- Press the knob (Fig. 2).
 - Vacuum will automatically start.
 - The paddle in the bowl will start turning after the vacuum reaches 40% (upper right of screen).
 - VPMmini will hold the bowl in place while mixing after the paddle has started to turn.



CAUTION: USER SHOULD HOLD THE BOWL UNTIL THE VACUUM LEVEL IS 40% TO PREVENT HAVING THE BOWL FALL.

Normal Stop

When the program has finished, there will be a beeping sound. Unit will not release vacuum automatically and drop the bowl. To release vacuum, press the knob (Fig. 2) while holding the underside of the bowl.

Forced Stop

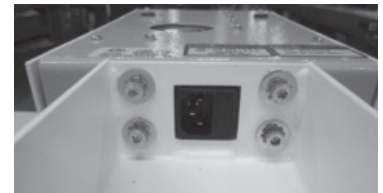
1. In an emergency, the user can stop the unit by pressing the knob (Fig. 2). The motor and pump will stop working.
2. Press a second time to release the vacuum and stop the beeping sound.



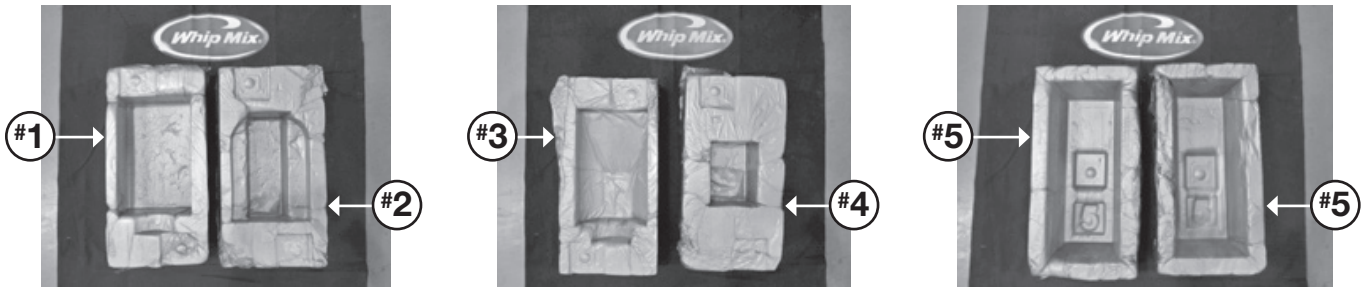
THE USER SHOULD HOLD THE BOWL WHEN STOPPING THE PROGRAM

Disassembly and Packaging Instructions

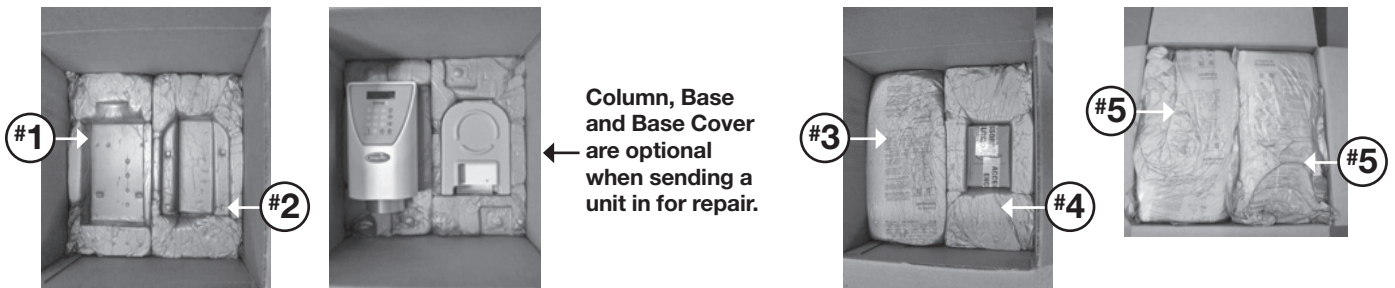
1. Using the provided hex wrench separate the column from the base by removing the two bolts located at the base of the column and the four bolts located at the top of the column as pictured to the right.



Foam cushion key:



2. Package the unit using the provided foam cushions (shown above) according to the illustrations below.



FOR ASSISTANCE CALL 1-800-626-5651

Troubleshooting

Paddle Jams – If the mixing paddle jams for any reason, switch the power to the mixer off, clear the jam, then turn the power back on to reset the fault condition, then test the mixer with an empty mixing bowl/lid to ensure normal operation. If turning the power off, then on does not reset the fault, disconnect the power cord from the unit and check the fuse located in the module where the power cord inserts.

Unit Will Not Turn On – Check the power cord to make sure the unit is plugged into a working outlet. Check the fuse in the fuseholder of the power connector. The unit is shipped with a spare fuse in the fuseholder. Note: Use only a 5 amp fast acting fuse.

Motor Will Not Start – Check for vacuum, by looking at the % vacuum indicator. If the unit does not sense enough vacuum the motor will not start. Make sure all seals are in place and are clean and free of debris. Make sure the vacuum filter is not clogged. Make sure the paddle is engaged properly. Try a different paddle and bowl. If they work, order a replacement for the size that does not work. If a loud clicking noise is heard when the paddle is supposed to begin turning call technical support.

Display Is Not Working – Check to see if the unit is on. Reset (cycle the power off then back on) the unit; if the start-up tone is played but the display is still blank call technical support.

Start Button Does Not Start the Program – Reset the unit (cycle the power off then back on) and try again. If the problem persists the button is probably bad and needs to be replaced. Call technical support.



Maintenance/Cleaning

Painted Surface – The VPMmini has been painted with special epoxy based powder coat paint. To clean the surface, use water and a clean cloth. **NEVER** use chemical cleaners on the display screen as this may cause the screen to become dry and easy to scratch.

Bowls – Keep bowls clean. Residual materials, set gypsum or investment, can create contamination issues. Replace bowls when they show signs of wear. Worn bowls can reduce reactions of phosphate investments resulting in casting inconsistency. For a list of solvents that will harm the bowls call technical support.

O-Ring Maintenance – If the O-Rings dry they may not seal properly. Apply Lubriplate* monthly to maintain the O-Rings on both the lids and VPMmini.

Vacuum Filter* – An extra filter has been supplied with the VPMmini. Replace the filter when the vacuum is clogged or the filter is soiled. Preventing the vacuum pump from becoming contaminated will extend the life of the VPMmini.

To clean filter: Rinse with water and allow to dry before replacing in VPMmini.

*Sold separately

Warranty

The VPMmini is covered by a two year parts and labor warranty.

Service

Contact Information:
800-626-5651 or 502-637-1451
361 Farmington Ave.
Louisville, KY 40209 USA

Replacement Parts

Part #	Description
29359	Inline Filter
29414	#5306 Black Sponge Filter
29415	#5307 Silencer
29416	#5308 Air Filter
29417	#5309 O-Ring
29418	#5310 Hose