

TPC



Mirage Mobile Delivery Cart
Operation Manual
(MC3600CV)



www.tpcdental.com

800-560-8222



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TPC Warranty



Warranty Information (All stated warranties are intended for USA market ONLY): All of our products sold are guaranteed to be free from defects in workmanship and materials for one year from date of purchase, unless otherwise stated. TPC will repair or replace any defective part at no charge. TPC will not be responsible for labor charges or shipping charges to / from the TPC facility. This guarantee does not cover normal wear or stains on surface finish. The guarantee does not cover damage resulting from improper installation, misuse or accidents incurred in shipping and handling. All claims against the freight carrier must be initiated at the time the damaged items are received. The claim is the responsibility of the customer. We are improving our products on a continuous basis. We reserve the right to make modifications without the need for prior notification. The MC3600 CV is covered by a 5 year limited warranty.

Important Information

Technical Specifications

Air Regulator Pressure: 80 PSI_[SEP]

Water Bottle Regulator Pressure: 35-40 PSI_[SEP]

Handpiece Pressure: 30-35 PSI (for most high-speed handpieces)
40-45 PSI (for most low-speed handpieces)

CAUTION: When adjusting the handpiece pressure, do not over tighten the adjustment knobs. This may result in unnecessary damage to the handpiece control block.

- Pay careful attention when unpacking the delivery cart and its accessories. Damage caused by mishandling the equipment during unpacking or installation is not covered under warranty.

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Accessories included:

- 3-way Syringe
- 2 HP positions
- Wet / Dry Foot control
- Self contained dual air compressor
- HVE / SE valves
- Waste water bottle
- Clean water bottle system

Technical Specifications:

- (2) X 550 Head 115V
- 68 db
- Oil less air compressor
- Metal Case
- Vacuum 80" of water (6hg)
- Max PSI 115
- Water bottle = 1L

Weight & Dimensions Shipping Information

35" H X 26"W X 20"D

OMC2375 Ships on a pallet 115LBS

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Operator's Instructions

A. Main Power Switch: Illuminated switch indicates power is "ON".



B. Handpiece Pressure Gauge: Indicates air pressure to the handpiece positions. Adjustment to air pressure may be done by adjusting the Drive Air control knob. Avoid exceeding the manufacturer's recommended handpiece pressure. (30 - 35 PSI for most Highspeed Handpieces)
(40 - 45 PSI for most Lowspeed Handpieces).



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Operator's Instructions



A

B

C

D

E

F

- A. Handpiece Pressure Gauge.
- B. Scaler Frequency / Intensity Adjustment. Turn counterclockwise to increase. Clockwise to decrease the frequency / intensity of scaler HP.
- C. Handpiece Pressure Adjustment: Turn counterclockwise to increase HP pressure. Turn clockwise to decrease the HP pressure. You can verify the HP pressure by looking at the handpiece pressure gauge (A).
- D. Water Flow Adjustment Knob to HP. Turn clockwise to decrease water flow. Turn counterclockwise to increase water flow.
- E. Water Flow Adjustment Knob To Scaler. Turn clockwise to decrease water flow. Turn counterclockwise to increase water flow.
- F. Water Bottle Pressure On / Off Switch. Turns on the pressure to the water bottle system.

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Operator's Instructions



Foot Control Wet Dry Toggle: When Toggled to the left the water is off. Toggle to the right will activate water to the HP block.



Clean Water Bottle

The clear water bottle located on the right side of the unit is the clean water supply to the system. Distilled water is recommended but not required. Turn Water Bottle Pressure Switch (F) on to pressurize the system. Turn switch (F) off to remove the bottle and allow the pressure to escape the system.



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Wastewater Bottle



The blue bottle located on the left side of the unit is the waste bottle. Once the bottle is full the suction system will automatically turn off. Dispose of the waste accordingly to your local laws and regulations. Clean the bottle with warm water. Clean any debris off the metal stem.



Empty

Full

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Solids Collector Trap



Turn the suction "off". Remove the solids collector cap by turning it counterclockwise, then remove the lid. Take the solids trap out and replace with a clean solid's collector screen.



Main Tank Drain Toggle

To drain the main tank move toggle switch to the "ON" position. This will drain the existing air pressure and any moisture in the system. Move toggle to "off" position once completed.

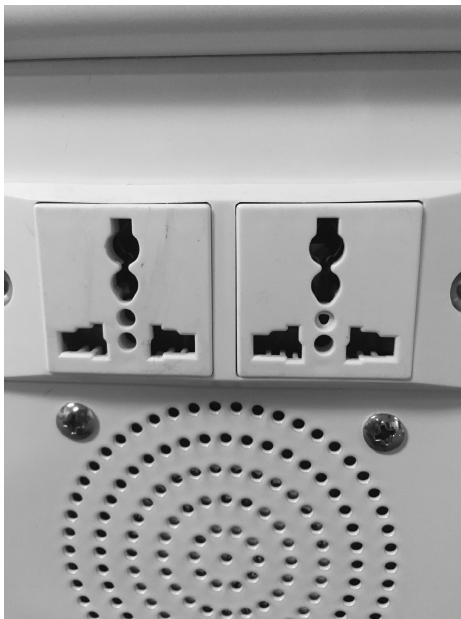


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Rear Power Receptacle

If you would like to connect a third-party device that requires power, you can use the receptacle located on the back of the MC3600CV.



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Daily Maintenance Purging Your System



Purging with air: At the end of each day the lines should be purged with air to prevent the growth of biofilm.

Remove handpieces from tubing.

Empty the water bottle, then reinstall it.

Turn the unit on press down on the syringe and foot control until water is purged from the system.

Turn unit off.

Disinfecting the bottle (if applicable): Fill the bottle with 100 ml disinfectant solution, shake vigorously and let settle for 10 minutes. Shake again, and then rinse twice with water.

Weekly Maintenance

The weekly cleaning procedure should be performed at least once a week, preferably, at the start of the week before treating patients. If the unit is stored for any length of time. It is recommended to perform the weekly maintenance routine immediately before and after storage.

- Purge the unit with air (see Daily Maintenance).
- Flush the system with disinfectant solution a. Turn unit off. Empty the water bottle (if water bottle is applicable), replacing the water with cleaning solution (see Disinfectant Solution). Remove handpieces from tubing and hold the handpiece tubing and syringe over a pail. Turn unit on, wait a few moments and then operate the flush toggle (if applicable), syringe and foot control until a continuous stream of solution is running through the system. Allow the disinfectant to remain in the unit for at least 10 to 20 minutes and then flush the system again until all the solution is used.

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- Purge the unit with air:

Turn the unit on, wait a few moments and then press the syringe and foot control until all solution is purged from the system.

Turn unit off. (If the unit is to be stored, stop here.)

Fill with clean water:

- a. Turn unit “off”. Remove the empty disinfectant bottle (if applicable). Replace with a clean bottle and water.
- b. Hold Remove handpieces from tubing and hold the handpiece tubing and syringe over a pail. Turn unit on. Wait a few moments and then press the syringe and foot control until a continuous stream of solution is running through the system.

Disinfectant Solution: Use 100 ml (9 parts tap water & 1 part 5.25% Sodium hypochlorite (household bleach) of disinfectant solution for each application per week. Always use a fresh mixture every week.

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Troubleshooting Guide



SYMPTOM

PROBABLE CAUSE

1. Handpiece Lacks Power

- A. Check regulator adjustment (80 psi).
- B. Check handpiece pressure adjustment on control block.
- C. Plugged air filter.
- D. Pinched supply tubing. Check for kinks.
- E. Bad handpiece gasket at connection with tubing.
- F. Defective handpiece.
- G. Damaged Tri Block Diaphragm

2. Water coolant does not shut off when the Foot Control is released.

- A. Verify master air regulator is set to 80 psi - water pressure to 40 psi.
- B. Foot Control is not exhausting.
- C. Defective water relay in valve.
- E. Pinched water relay signal air-line.

3. More than one handpiece is operating.

- A. Handpiece is not completely in the hanger.
- B. Improper adjustment of Pilot Valve in the hanger.
- C. Kinked or pinched signal line from the Pilot Valve.
- D. Damaged Tri Block diaphragm.

4. Water coolant is running from handpiece while in holder.

- A. Purge switch is on (on applicable systems).
- B. Water pressure is too high.
- C. Handpiece holder out of adjustment.
- D. Improper adjustment of water relay.

5. Insufficient water coolant.

- A. Adjust coolant flow valve.
- B. Water filter may be plugged.
- C. Plugged handpiece.
- D. Kinked or pinched tubing.
- E. Improper adjustment of water relay.

6. Water coolant is running continuously.

- A. Water pressure is too high.
- B. Air pressure is too low.
- C. Handpiece holder out of adjustment.

7. Syringe Air / Water pressure is low.

- A. Water pressure / air pressure are set too low check master control regulators.
- B. Damaged syringe cartridges.
- C. Pinched syringe tubing.

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Installation

1. Un-pack cabinet and place in desired location.
2. Connect main power inlet cord to receptacle.
3. Connect main power cord to back of the machine.
4. Turn “on” the main power switch to power the unit.