

TPC

Mirage Orthodontic Mobile Delivery Cabinet Self-Contained (OMC2375 CV-SL)





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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 and are not obliged www.tpcdental.com – Page 1 – Products: Warranty Period: Products: Warranty Period: Patient Chairs 5 year limited Delivery Units 5 year Limited Operator Lights (halogen) 1 year Seating 1 year Curing & Bleaching Systems 1 year Mobile Cabinets 1 year Imaging Products 1 year Air-Driven Handpieces 1 year Scaling Products 1 year Amalgamator 1 year Extended Manufacturer Warranty (selective models): Limited Manufacturer Warranty (selective models): H6000, H6005, H6025, H7005 Lubrication System 2 year 6 month Manufacturer Warranty (selective models): LED Curing Lights (All Models) 2 year Fiber optic systems, S333, M333, QS222, QM222, ELCA760, Advance CAM Intraoral Camera System(s) 2 year ELS736. Radiant Operator Lights 2 year

Important Information

Technical Specifications


Air Regulator Pressure: 80 PSI

Water Bottle Regulator Pressure: 35-40 PSI

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

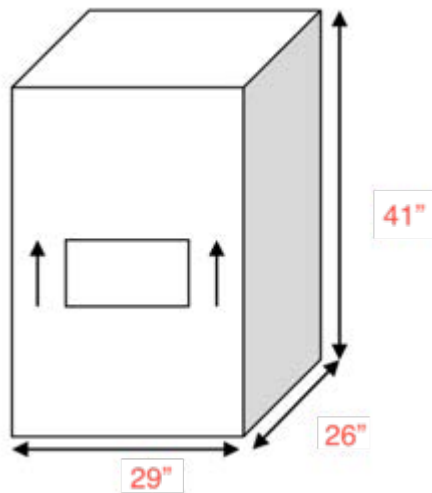
40-45 PSI (for most low-speed handpieces)

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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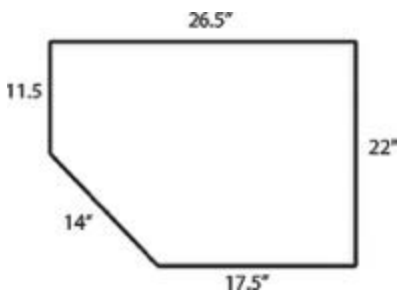
Weight & Dimensions Shipping Information



OMC2375 Ships on a pallet 225LBS



Cabinet Top Dimensions



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Operator's Instructions

- A. MASTER ON/OFF SWITCH: Turns power “on” to the cabinet motors and accessories. Shut off nightly.

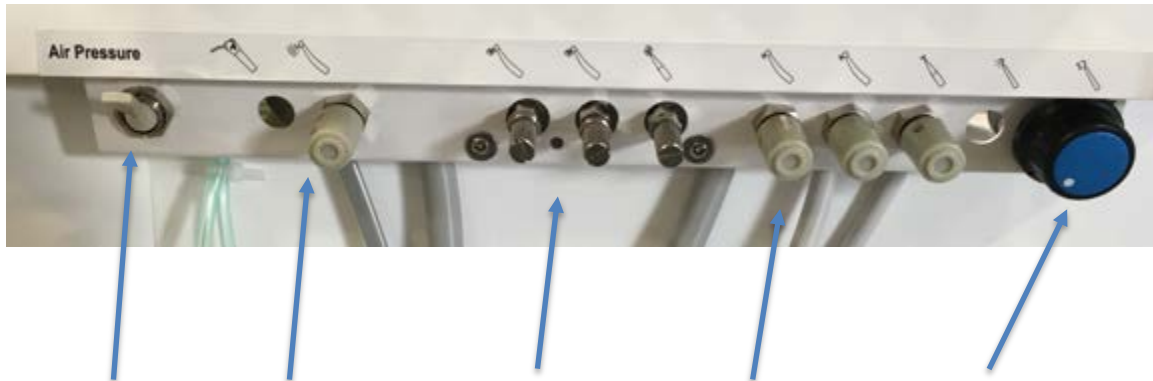


- B. HANDPIECE PRESSURE GAUGE: Indicates pressure adjusted by the Drive-Air Control Knob. Avoid exceeding the manufacturer's recommended handpiece pressure. (30 - 35 PSI for most Highspeed Handpieces)

(40 - 45 PSI for most Low speed Handpieces).

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Operator's Instructions



Tank Purge / Chip Air / Handpiece Pressure / Water Adjustment / Scaler Intensity

- A. Tank Purge: Toggle this switch to drain the remaining air pressure in the reserve tank.
- B. Chip Air: This adjustment knob controls the chip air to the HP Tubing's.
- C. Handpiece Pressure: Adjusts the Handpiece pressure to the Handpieces.
- D. Water Adjustment: Controls the water flow to each handpiece position.
- E. Scaler intensity: Turn to increase or decrease the sclaer intensity.

Foot control wet dry toggle: When toggled to the left the water is off. Toggle to the right and water is turned on to the HP block.



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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 OMC2375 CV-SL.



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OMC 2200 Monitor Bracket (Optional)

<p>1. Remove Cabinet Top by lifting it off the cabinet. This will expose the mounting holes on the inside so you can secure the mounting hardware.</p> 	<p>2. Fit the bracket assembly as shown.</p> 
<p>3. Align the mounting bolts and Nylon spacer as shown. Install the 4 nylon insert nuts on the inside of the cabinet. Do not tighten the nuts completely. This will be completed in the next step.</p> 	<p>4. Install the post into the bracket. Align the two holes in the post with the holes on the bracket clamp. Tighten the Allen screws into the post. Also tighten the Allen screws and nuts on the inside of the cabinet from step 3.</p> 
<p>5. Place the rubber pads on the bracket as shown.</p> 	<p>6. Install the clamp bracket on the post using the 4 Allen bolts.</p> 
<p>7. Verify all bolts and Allen screws are secured.</p>	<p>8. Install monitor clamp to monitor.</p>

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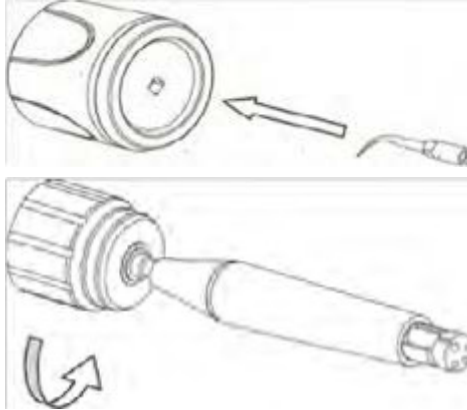
Built In Piezo Scaler

General use Instructions Scaling

Attaching the scaling tip:

The tip must be screwed and moderately tightened by means of the corresponding wrench. If tip is not secure, vibration to the tip may be decreased.

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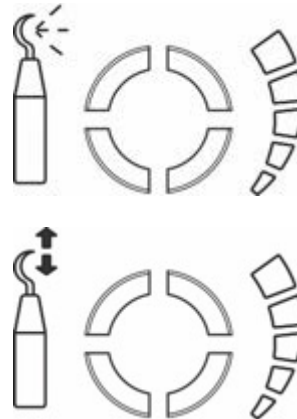
***To remove the scaler handpiece from the tubing, gently pull it straight off. Don't turn/twist or damage to tubing pins will occur.**

Optional:

Water adjustment for optional built in scaler. Turn clockwise to decrease water flow. Turn counter clockwise to increase water flow.

Optional:

Frequency adjustment knob for built in scaler. Turn Clockwise to increase frequency. Turn counter clockwise to decrease frequency.

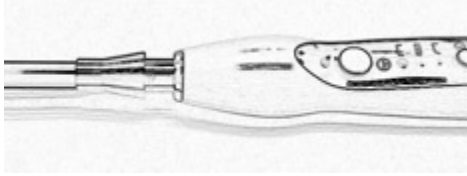


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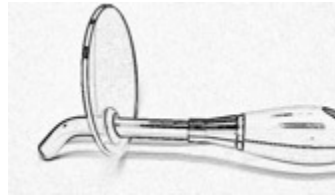
LED 39 Curing Light

General use Instructions Curing

Insert light guide tip into light.



Place Blue light shield over light guide. Secure in place over the metal chuck.



Press the "ON" button to wake the light from sleep mode. Press again to activate light.




Cure Modes:

Fast:

Pulse:

Ramp:

Full power output

 0.5 second intermittent output

 Soft start

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Clean Water / Wastewater tanks



Wastewater bottle

Clean Water bottle.

Clean Water: Used for supplying water to the delivery system. For longevity please use distilled water. This will reduce the possibility that hard water will damage any of the components.

Wastewater:

This bottle contains the waste that is captured from the suction system. You must dispose of this waste in accordance with local regulations.

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Daily Maintenance

Cleaning waste system: At the end of each day it's recommended that you clean the waste system out. To complete this process, you will need to suck clean water into the suction hoses and allow the waste tank to fill. Once the system turns off, Dump the wastewater according to your local regulations. Repeat the process as needed till the system is free from any debris.

Cleaning the suction switch:

Remove the waste container. Then clean the sensor probe and make sure there is no build up of waste on the probe shaft.



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Daily Maintenance Purging Your System

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

Remove handpieces from the tubing.

Empty the water bottle, then reinstall it (if a water bottle is applicable when using city water, turn off the water from the source).

Hold the handpiece tubing and syringe over a pail. Turn the unit on, press down on the syringe, and foot control until water is purged from the system.

Turn the 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, perform the weekly maintenance routine immediately before and after storage.

- Purge the unit with air (see Daily Maintenance).
- Flush the system with a disinfectant solution a. Turn the unit off. Empty the water bottle (if a water bottle is applicable), replacing the water with a cleaning solution (see Disinfectant Solution). Remove handpieces from the tubing and hold the handpiece tubing and syringe over a pail. Turn the 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:

Hold the handpiece tubing and syringe over a pail. 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 the unit off. (If the unit is to be stored, stop here.)

Fill with clean water:

- a. With the unit turned off, remove the empty disinfectant bottle (if applicable). Replace with a clean bottle and water.
- b. Hold Remove handpieces from the tubing and hold the handpiece tubing and syringe over a pail. Turn the 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.



Troubleshooting Guide

SYMPTOM

PROBABLE CAUSE

1. Handpiece Lacks Power

- A. Check regulator adjustment (80 psi).
- B. Check handpiece pressure adjustment on the 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 – and water pressure to 40 psi.
- B. Foot Control is not exhausting.
- C. Defective water relay in the valve.
- E. Pinched water relay signal airline.

3. More than one handpiece is operating.

- A. The handpiece is not completely in the hanger.
- B. Improper adjustment of the 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 the handpiece while in the 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 the coolant flow valve.
- B. Water filter may be plugged.
- C. Plugged handpiece.
- D. Kinked or pinched tubing.
- E. Improper adjustment of water relay.

6. The 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 is set too low check master control regulators.
- B. Damaged syringe cartridges.
- C. Pinched syringe tubing.



Installation

1. Unpack the cabinet and place it in the desired location.
2. Install the solids collector trap to the bracket located on the left side of the cabinet. Before securing the trap, you will need to connect the vacuum line to the side port of the canister.
3. Connect the 110V power cord to an outlet.
4. Open the back-access door of the cabinet and remove the water bottle from the bottle cap assembly. Fill the bottle with water, then re-install it into the bottle cap assembly.
5. Turn the master switch to the “On” position.
6. Test the air and water pressure of the Syringe and the HP tubing’s.
7. Pressure adjustments may be made on the front panel of the cabinet if the pressure is not sufficient. Check the operator’s instructions on page 6.

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Electrical Diagram

