Mirage Mobile Delivery Cart

Self-Contained MC3600CV (SL)

Installation, Operation & User Manual

TPC Dental
851 S. Lawson St.
City of Industry, CA 91748
Phone: 626-810-4337
Fax: 626-810-4245
Web: www.tpcdental.com

Document Version: 2.0
Last Updated: October 2025
Part Number: MC3600-MAN-001

TPC

Table of Contents

Warranty

Limited Warranty

All TPC products are warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase, unless otherwise specified. During this period, TPC will, at its discretion, repair or replace any defective component at no charge.

This warranty does not cover labor costs, shipping charges to or from the TPC facility, or damage resulting from improper installation, misuse, accidents, or mishandling during shipping. Normal wear, cosmetic imperfections, and surface stains are not considered defects and are not covered under this warranty.

Claims for damage incurred during shipment must be filed directly with the freight carrier at the time the goods are received. The responsibility for initiating such claims rests with the customer.

TPC is committed to continuous product improvement and reserves the right to make design or specification changes without prior notice.

The MC3600CV is covered by this one-year limited warranty.

TPC

Technical Specifications

Specification	Value
Air Regulator Pressure	80 PSI
Water Bottle Regulator Pressure	35-40 PSI
Handpiece Pressure (High-Speed)	30-35 PSI (for most high-speed handpieces)
Handpiece Pressure (Low-Speed)	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.

Accessories & Specifications

Accessories Included: 3600CV	**Technical Specifications:**
3-way syringe	**(2) X 550 Head 115V**
3 HP positions	**68 dB**
Wet / Dry Disc foot control	**Oil-less air compressor**
Self-contained dual air compressor	**Metal case**
HVE / SE valves	**Vacuum: 80" of water (6 Hg)**
Waste bottle	**Max PSI: 115**
Clean water bottle system	**Water bottle capacity: 720ml**
Accessories Included: 3600CV_SL	
Built In Piezo scaler kit	
Built in LED 39 Curing light	

Weight & Dimensions

Shipping Information

Dimensions: 35" H x 26" W x 20" D

Shipping Weight: MC3600CV (SL) ships on a pallet, 125 lbs.

Document Version: 2.0. **Last Updated:** October 2025

TPC

Operator's Instructions

Main Control Panel

Main Power Switch
An illuminated switch indicates power is "ON".

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 high-speed handpieces
- 40-45 PSI for most low-speed handpieces

Document Version: 2.0. **Last Updated:** October 2025

Detailed Control Instructions

A. Handpiece Pressure Gauge
Displays current air pressure to handpiece positions.

B. Scaler Frequency / Intensity Adjustment (Model MC3600CVSL only)
Turn counter-clockwise to increase. Turn clockwise to decrease the frequency/intensity of scaler HP.

C. Handpiece Pressure Adjustment
Turn counter-clockwise to increase HP pressure. Turn clockwise to decrease 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 counter-clockwise to increase water flow.

E. Water Bottle Pressure On/Off Switch
Turns on the pressure to the water bottle system.

F. Chip Air Adjustment
Adjust the amount of spray disbursed from the Handpiece.

A

B

C

D

E

F

Document Version: 2.0. **Last Updated:** October 2025

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.

Operation:

- Turn the 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

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.

Maintenance:

- Dispose of the waste according to your local laws and regulations
- Clean the bottle with warm water
- Clean any debris off the metal stem

Indicator:

- Empty = Ready for use
- Full = System will shut off automatically

Solids Collector Trap

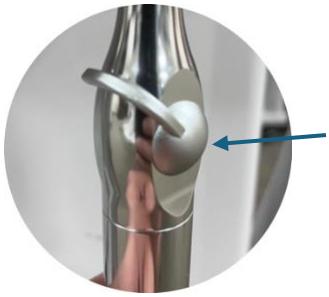
Cleaning Procedure:

1. Turn the suction "OFF"
2. Remove the solids collector cap by turning it counter-clockwise, then remove the lid
3. Inspect the O-ring on the solids collector cap.
4. Take the solids trap out and replace it with a clean solids collector screen



To use the HVE or SE valves:

Lift the valve out of its holder to activate the suction pump. **Note:** Only one valve can be used at a time, and only one valve lever can be open at a time.

Main Tank Drain Toggle

To drain the main tank, Press and hold the momentary switch. This will drain the existing air or moisture out of the tank and lines.

Document Version: 2.0. **Last Updated:** October 2025

TPC

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-SL. Do not use devices that draw more than 5 amps.

Rear Power Receptacle Fuse

MC3600 units are equipped with a 15-amp fuse located inside the power inlet port.
The required fuse type is a 5 × 20 mm, 15-amp fuse. Gently pry on the fuse housing tab to remove the holder. Replace the fuse if necessary.

Power Cord Requirements

Use only the power cord supplied with the machine. Using a smaller gauge cord may damage the equipment.
Note: If an extension cord is required, ensure it is a heavier gauge than the supplied power cord. Equipment damage may occur if improper cords are used.

Document Version: 2.0. **Last Updated:** October 2025

TPC

Model MC3600CV-SL Accessories

LED 39 Technical Specifications

1. **Power Supply:** AC 110V-220V: 50Hz/60Hz
2. **Light Source:**
    - Blue light
    - Wavelength: 420nm-480nm
3. **Working Condition:**
    - Environment temperature: 5°C-40°C
    - Relative humidity: ≤80%
4. **Dimensions:** 26 x 25 x 260mm
5. **Net Weight:** 211g
6. **Consumption Power:** ≤8W
7. **Protection Type Against Electrical Shock:** Class I
8. **Protection Against Electrical Shock:** Type B equipment
9. **Safety in the Presence of Flammable Anesthetic Mixture with Air, Oxygen or Nitrous Oxide:** Not suitable under this condition

---

A800N Technical Specifications

- Activated by unit foot control – no additional foot control needed
- Small electronic box: 2-3/8" L x 1.5" W x 1.25" H
- The easy tip system allows tips to be changed easily
- Scaler: max 10 watts, 24-28 kHz, automatic tuning
- Water consumption: 10-50 cc/min
- No external water line/power cord
- 1-year warranty (tips excluded)
- **Note:** Indicate EMS or Satelec tips on all orders

Document Version: 2.0. **Last Updated:** October 2025

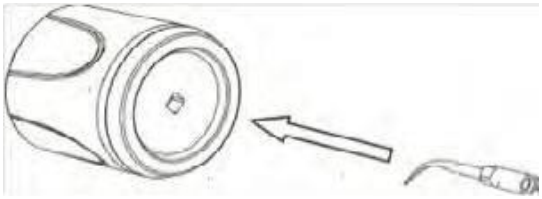
TPC

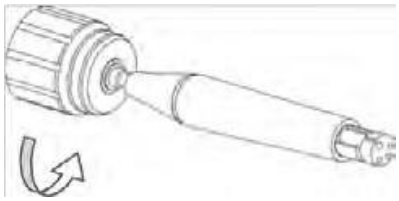
Built-In Piezo Scaler

General Use Instructions - Scaling

Attaching the Scaling Tip

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

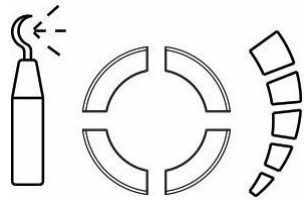




Important: To remove the scaler handpiece from the tubing, gently pull straight off. Don't turn/twist or damage to the tubing pins will occur.

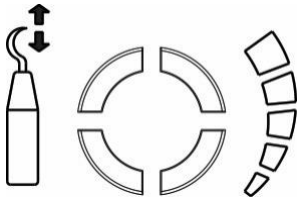
Water Adjustment for Built-In Scaler

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.



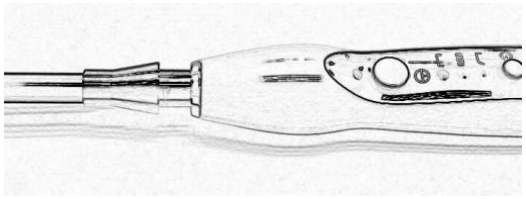
Document Version: 2.0. **Last Updated:** October 2025

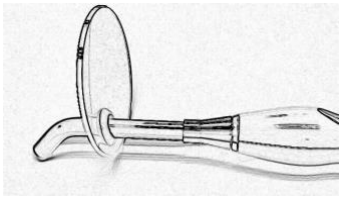
LED 39 Curing Light

General Use Instructions - Curing

Setup:

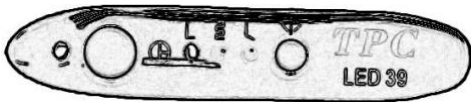
1. Insert light guide tip into light
2. Place blue light shield over light guide
3. Secure in place over the metal chuck





Operation:

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



Cure Modes

Mode	Description
Fast	Full power output
Pulse	0.5 second intermittent output
Ramp	Soft start

Document Version: 2.0. **Last Updated:** October 2025

TPC

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.

Procedure:

1. Remove handpieces from the tubing
2. Empty the water bottle, then reinstall it
3. Turn the unit on
4. Press down on the syringe and foot control until water is purged from the system
5. Turn the unit off

Disinfecting the waste Bottle (If Applicable)

1. Fill the bottle with 100 ml disinfectant solution
2. Shake vigorously and let settle for 10 minutes
3. Shake again, and then rinse twice with water

Document Version: 2.0. **Last Updated:** October 2025

TPC

Weekly Maintenance

A 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.

Step 1: Purge the Unit with Air

See the Daily Maintenance procedure above.

Step 2: Flush the System with Disinfectant Solution

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

Step 3: Purge the Unit with Air

1. Turn the unit on, wait a few moments
2. Press the drain button until all the solution is purged from the system
3. Turn the unit off

Step 4: Fill with Clean Water

1. Turn unit water bottle "OFF"
2. Remove the empty disinfectant bottle (if applicable)
3. Replace with a clean bottle and water
4. Remove handpieces from tubing and hold the handpiece, tubing and syringe over a pail
5. Turn unit on
6. Wait a few moments and then press the syringe and foot control until a continuous stream of water is running through the system

Disinfectant Solution

Formula: 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.

Document Version: 2.0. **Last Updated:** October 2025

TPC

Troubleshooting Guide

1. Handpiece Lacks Power

Probable Causes:

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 the connection with the tubing

F. Defective handpiece

G. Damaged tri-block diaphragm

2. Water Coolant Does Not Shut Off When Foot Control is Released

Probable Causes:

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

D. Pinched water relay signal air line

3. More Than One Handpiece is Operating

Probable Causes:

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

Probable Causes:

A. Purge switch is on (on applicable systems)

B. Water pressure is too high

C. Handpiece holder is out of adjustment

D. Improper adjustment of water relay

5. Insufficient Water Coolant

Probable Causes:

A. Adjust coolant flow valve

B. The 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

Probable Causes:

A. Water pressure is too high

B. Air pressure is too low

C. Handpiece holder is out of adjustment

7. Syringe Air / Water Pressure is Low

Probable Causes:

A. Water pressure/air pressure is set too low - check master control regulators

B. Damaged syringe cartridges

C. Pinched syringe tubing

Contact Information

TPC Dental
www.tpcdental.com
Toll-Free: 800-560-8222

End of Manual

Document Version: 2.0. **Last Updated:** October 2025