ORTHODONTIC MOBILE CABINET

OMC2375 CV / CV-SL

Installation, Operation & User Manual

Self-contained Mirage orthodontic delivery cabinet with built-in air compressor, suction and six drawers · Includes operation, the built-in scaler and curing light (SL), maintenance and replacement parts



DOCUMENT

OMC2375 Cabinet Manual · Version 2.0

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How to read this manual

⚠ **WARNING** Risk of injury or damage to the equipment. Follow exactly.

ⓘ **NOTE** Information that makes the job easier or the result more reliable.

Technical support

(800) 560-8222

Monday to Friday, 8:00 AM to 5:00 PM Pacific.

SECTION 01

Models and specifications

A self-contained orthodontic delivery cabinet: a built-in oil-free compressor and suction pump, clean and waste water bottles, handpiece instrumentation and six storage drawers on locking casters.



Models

OMC2375CV

- 3-way syringe and handpiece positions
- HVE and saliva ejector valves
- Wet/dry disc foot control
- Built-in air compressor and suction pump
- Clean water and waste bottles
- Six drawers

OMC2375CV-SL adds

- Built-in piezo scaler (A800N)
- Built-in LED 39 curing light

Option

- OMC-2200 monitor bracket with post (page 9)

Specifications

Air system	Oil-free compressor with air tank; pressure switch 4–7 bar
Suction	Built-in vacuum pump; shuts off automatically when the waste bottle is full
Low voltage	24 V AC toroidal transformer, 50 W
Cooling	Two 120 mm cooling fans
Clean water bottle	1.5 L
Cabinet top	26½" × 22", angled front corner
Drawers	Six; interior about 12" W × 15¾" D
Shipping	On a pallet, 225 lb; carton about 41" H × 29" W × 26" D

GETTING STARTED

Set points and safety

Air regulator	80 PSI
Water bottle regulator	35–40 PSI
High-speed handpiece	30–35 PSI (most high-speed handpieces)
Low-speed handpiece	40–45 PSI (most low-speed handpieces)
Rear power receptacle	5 A maximum load
Power inlet fuse	15 A, 5 × 20 mm

⚠ **CAUTION** Do not over-tighten the handpiece pressure adjustment knobs. This can damage the handpiece control block.

⚠ **UNPACKING** Unpack the cabinet and its accessories carefully. Damage from mishandling during unpacking or installation is not covered by the warranty.

⚠ **EXTENSION CORDS** Extension cords are not recommended for this equipment. The supplied power cord is 18 AWG. If an extension cord must be used, it must have a smaller AWG number (heavier gauge wire) than the supplied cord. Using an extension cord with the same or a larger AWG number (lighter gauge wire) may damage the equipment and void the warranty.

Safety

⚠ **Use only the supplied power cord**
Plug the cabinet into a grounded outlet and keep liquids away from electrical parts.

⚠ **Turn the master switch off nightly**
And before any maintenance. Unplug the cabinet before opening it.

⚠ **Dispose of waste properly**
Empty the waste bottle according to local regulations.

⚠ **Use qualified service**
Only authorized technicians should service TPC equipment.

GETTING STARTED

Installation

1. **Unpack the cabinet** and move it into place. Lock the casters.
2. **Connect the vacuum line** to the side port of the solids collector canister, then mount the canister on its bracket on the left side of the cabinet.
3. **Open the rear access door** and unscrew the water bottle from the cap assembly. Fill it with distilled water and screw it back on.
4. **Plug the cabinet in** and turn the master switch on. The compressor fills the air tank.
5. **Test the air and water** at the syringe and handpiece tubing.
6. **Adjust the pressures** on the front panel if needed (page 6).

SECTION 02

Controls



Fig. 1 Master switch and handpiece pressure gauge

1 Master switch
Turns on power to the cabinet motors and accessories. Turn it off every night.

2 Handpiece pressure gauge
Shows the drive air set with knob C. Do not exceed the handpiece maker's pressure: 30–35 PSI for most high-speed and 40–45 PSI for most low-speed handpieces.

Front panel

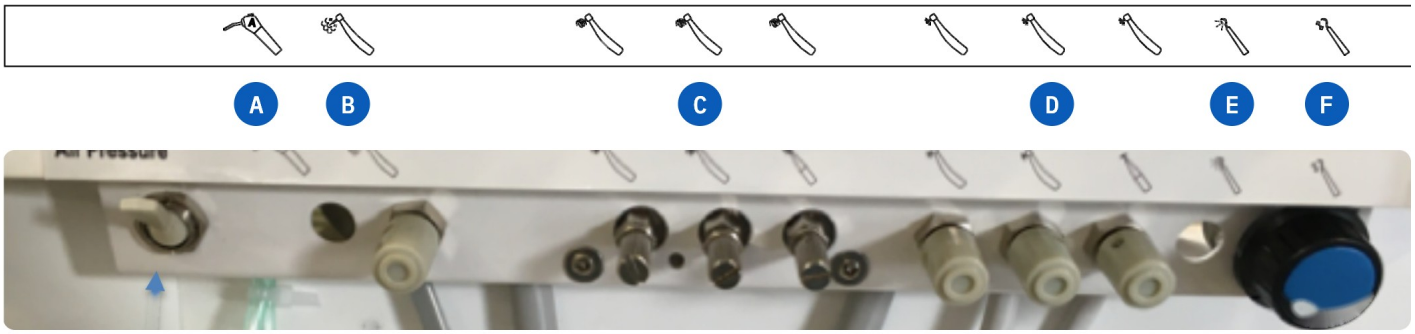


Fig. 2 Front panel controls under the instrument tray

A Tank purge
Toggle to drain the remaining air pressure and moisture from the air tank.

B Chip air
Sets the chip air to the handpiece tubing.

C Handpiece pressure
Sets the drive air to each handpiece position. Check it on the gauge.

D Handpiece water
Sets the water flow to each handpiece position.

E Scaler water (SL only)
Sets the water to the built-in scaler (page 10).

F Scaler intensity (SL only)
Sets the scaler intensity (page 10).

OPERATION

Water, waste and suction



Fig. 3 Clean water bottle (left) and waste bottle (right), behind the rear access door

Clean water bottle

Supplies water to the syringe and handpieces. Use distilled water: hard water can damage the components.

Waste bottle

Collects the waste from the suction system. When it is full, the sensor probe turns the suction off. Empty it and dispose of the waste according to local regulations.



Fig. 4 Foot control and wet/dry toggle

Foot control

- Press the disc to run the handpiece.
- Wet/dry toggle: left turns the water off, right turns water on to the handpiece block.

HVE and saliva ejector

- Lift a valve from its holder to start the suction pump.
- Return it to the holder to stop the pump.

Change the solids collector trap

1. **Turn the suction off.**
2. **Turn the canister cap counterclockwise** and lift it off.
3. **Check the cap O-ring.**
4. **Replace the trap** with a clean one (2⅛", OMC-RP-22-1) and refit the cap.

OPERATION

Rear panel and power



Fig. 5 Rear power receptacle

Rear power receptacle

Use the duplex receptacle on the back of the cabinet to power a third-party device. Do not connect devices that draw more than 5 A.

Power inlet fuse

The power inlet port holds a 15 A, 5 × 20 mm fuse. Turn the cabinet off and unplug it, gently pry the fuse holder tab to remove the holder, and replace the fuse if needed.

Power cord

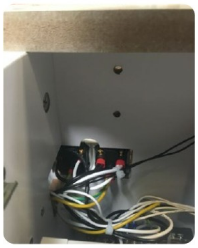
Use only the power cord supplied with the cabinet. A smaller gauge cord can damage the equipment.

⚠ **EXTENSION CORDS** Extension cords are not recommended for this equipment. The supplied power cord is 18 AWG. If an extension cord must be used, it must have a smaller AWG number (heavier gauge wire) than the supplied cord. Using an extension cord with the same or a larger AWG number (lighter gauge wire) may damage the equipment and void the warranty.

OPERATION · OPTION

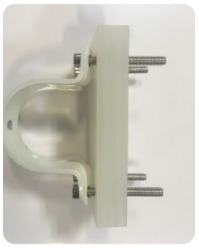
OMC-2200 monitor bracket

Optional monitor bracket with post, OMC-2200.



1 Remove the cabinet top

Lift the top off the cabinet to reach the mounting holes inside.



2 Fit the bracket assembly

Fit the bracket assembly as shown.



3 Fit bolts and spacer

Align the bolts and nylon spacer. Fit the 4 nylon insert nuts inside the cabinet; do not tighten them fully yet.



4 Install the post

Line up the two holes in the post with the bracket clamp and tighten the Allen screws. Then tighten the nuts inside the cabinet.



5 Fit the rubber pads

Place the rubber pads on the bracket.



6 Fit the clamp bracket

Install the clamp bracket on the post with the 4 Allen bolts.

7 **Check every bolt and Allen screw** is tight.

8 **Fit the monitor clamp** to the monitor.

SECTION 03 · OMC2375CV-SL

Built-in piezo scaler (A800N)

Activation	From the cabinet foot control; no extra foot control needed
Output	Up to 10 W, 24–28 kHz, automatic tuning
Water consumption	10–50 cc/min
Electronics box	2⅜" L × 1½" W × 1¼" H
Tips	Easy-change tip system. Specify EMS or Satelec tips when ordering.
Warranty	1 year (tips excluded)

Attach the tip

Screw the tip on and tighten it moderately with the tip wrench. A loose tip vibrates less.

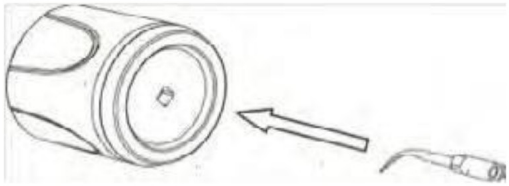


Fig. 6 Fit the tip with the wrench

Remove the handpiece

Pull the scaler handpiece straight off the tubing. Do not twist it, or the tubing pins will be damaged.

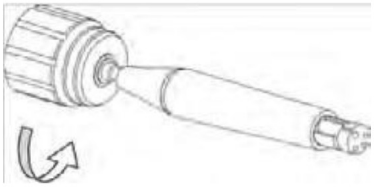


Fig. 7 Pull straight off

Water

Turn the scaler water knob (E) clockwise to decrease water, counterclockwise to increase it.

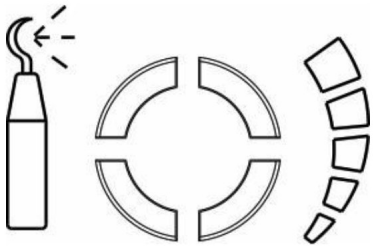


Fig. 8 Scaler water knob

Intensity

Turn the scaler intensity knob (F) clockwise to increase intensity, counterclockwise to decrease it.

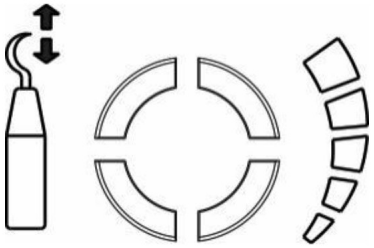


Fig. 9 Scaler intensity knob

OMC2375CV-SL

LED 39 curing light

Set up

1. **Insert the light guide** into the light.
2. **Fit the blue light shield** over the light guide.
3. **Secure it** over the metal chuck.

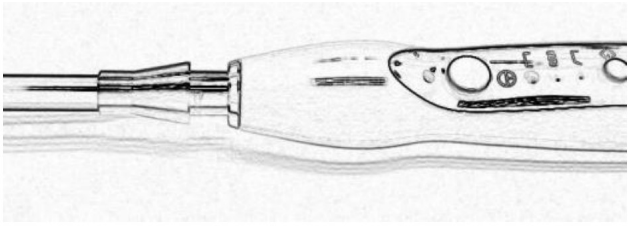


Fig. 10 Light guide and shield

Use

4. **Press ON** to wake the light from sleep mode.
5. **Press again** to start curing.

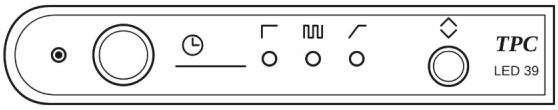
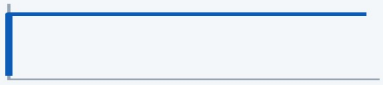


Fig. 11 Curing switch (left), program indicators (center), function button (right)

Curing programs

F FAST



Full power for the whole cure.

P PULSE



Full power in 0.5 s pulses.

R RAMP



Soft start, then full power.

Each cure runs 20 seconds. Press the function button to change programs.

Specifications

Power supply	AC 110–220 V, 50/60 Hz
Light source	Blue light, 420–480 nm
Operating conditions	5–40 °C, relative humidity 80% or less
Dimensions	26 × 25 × 260 mm
Net weight	211 g
Power consumption	8 W or less
Electrical protection	Class I, type B equipment
Flammable anesthetics	Not suitable for use with flammable anesthetic mixtures with air, oxygen or nitrous oxide

SECTION 04

Daily maintenance

Clean the waste system

At the end of each day, draw clean water through the suction hoses until the waste bottle fills and the suction turns off. Empty the bottle according to local regulations. Repeat until the system is free of debris.

Clean the waste sensor probe

Remove the waste bottle and clean the sensor probe so no waste builds up on the probe shaft.

Purge the lines with air

Purge the water lines with air every day to prevent biofilm.

1. **Remove the handpieces** from the tubing.
2. **Empty the water bottle**, then reinstall it.
3. **Hold the tubing and syringe over a pail.** Turn the cabinet on and press the syringe and foot control until the water is purged.
4. **Turn the cabinet off.**

Drain the air tank

Toggle the tank purge switch (A) to release air and moisture from the tank.

ⓘ **BOTTLE** Disinfect the water bottle: fill it with 100 mL of disinfectant solution, shake well and let it stand 10 minutes, shake again, then rinse twice with water.

CARE

Weekly maintenance

Do this at least once a week, preferably at the start of the week before treating patients. If the cabinet is stored, do it right before and right after storage.

1 · Purge with air

Follow the daily purge procedure on page 12.

3 · Purge with air

- Hold the tubing and syringe over a pail.
- Turn the cabinet on and press the syringe and foot control until all solution is purged.
- Turn the cabinet off. If it is being stored, stop here.

2 · Flush with disinfectant

1. **Turn the cabinet off.**
2. **Empty the water bottle** and fill it with disinfectant solution.
3. **Remove the handpieces** and hold the tubing and syringe over a pail.
4. **Turn the cabinet on**, wait a few moments, then run the syringe and foot control until solution flows steadily.
5. **Leave the solution** in the lines for 10 to 20 minutes.
6. **Flush again** until all the solution is used.

4 · Refill with clean water

1. **With the cabinet off**, remove the empty disinfectant bottle.
2. **Fit a clean bottle** filled with water.
3. **Remove the handpieces** and hold the tubing and syringe over a pail.
4. **Turn the cabinet on**, then run the syringe and foot control until clean water flows steadily.

ⓘ **DISINFECTANT** 100 mL per week: 9 parts tap water and 1 part 5.25% sodium hypochlorite (household bleach). Always mix a fresh batch.

SECTION 05

Troubleshooting

	PROBLEM	PROBABLE CAUSES
01	**Handpiece lacks power**	• Regulator not at 80 PSI • Handpiece pressure (C) set too low • Plugged air filter • Kinked or pinched supply tubing • Bad handpiece gasket at the tubing • Faulty handpiece • Damaged tri block diaphragm
02	**Water coolant does not stop when the foot control is released**	• Master air not at 80 PSI or water not at 40 PSI • Foot control not exhausting • Faulty water relay • Pinched water relay signal air line
03	**More than one handpiece runs**	• Handpiece not fully in its holder • Holder pilot valve out of adjustment • Kinked or pinched pilot valve signal line • Damaged tri block diaphragm
04	**Water runs from a handpiece in its holder**	• Purge switch on (where fitted) • Water pressure too high • Holder out of adjustment • Water relay out of adjustment
05	**Not enough water coolant**	• Coolant flow (D) set too low • Plugged water filter • Plugged handpiece • Kinked or pinched tubing • Water relay out of adjustment
06	**Water coolant runs all the time**	• Water pressure too high • Air pressure too low • Holder out of adjustment
07	**Syringe air or water pressure low**	• Air or water pressure set too low: check the regulators • Damaged syringe cartridges • Pinched syringe tubing

TPC technical support

Monday to Friday, 8:00 AM to 5:00 PM Pacific

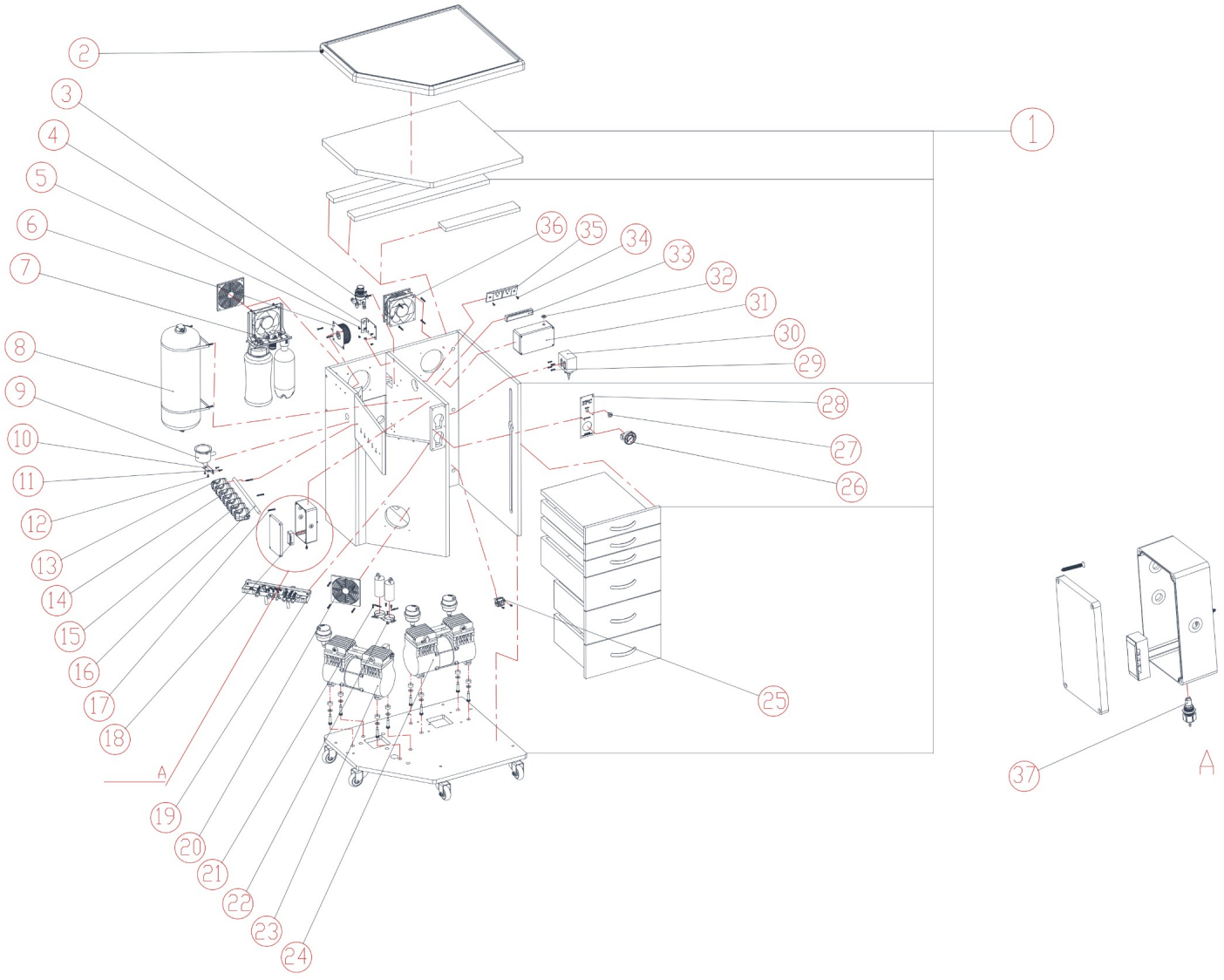
(800) 560-8222

service@tpcdental.com

REPLACEMENT PARTS

OMC2375CV exploded view

Numbers match the parts table on the next page. Detail A, right, shows the scaler activation switch (37).



How to order

Order by TPC part number: (800) 560-8222 or service@tpcdental.com, with the part number, model and serial number. Parts used on both the OMC2375CV and the MC3600 keep one part number.

REPLACEMENT PARTS

OMC2375CV parts

NO.	DESCRIPTION	QTY	PART NO.
1	Cabinet, wood, painted, with cover plate	1	OMC-CV-RP-1
2	Instrument tray (top), acrylic	1	OMC-RP-16
3	Master air valve assembly	1	OMC-RP-6
4	Reinforcement plate, stainless steel, 80 × 64 mm	1	OMC-CV-RP-4
5	Countersunk self-tapping screw, KA4 × 12, stainless	4	OMC-CV-RP-5
6	24 V transformer, toroidal, 115/230 V in, 24 V AC / 50 W out, with plate	1	3600-RP-42
7	Water bottle, 1.5 L, with straw	1	OMC-RP-1500
8	Air tank assembly (tank, straps, check valve, O-ring)	1	OMC-CV-RP-8
9	Solids collector canister, 2⅛", side port, complete kit	1	OMC-RP-21
10	Solids collector bracket, stainless steel	1	OMC-RP-21-BRT
11	Machine screw, PM4 × 10, stainless	2	OMC-CV-RP-11
12	Pan head screw, PM4 × 10, stainless	6	OMC-CV-RP-12
13	HVE / saliva ejector holder with electric push switch	2	OMC-CV-RP-13
	Electric switch for HVE and SE holder		3600-RP-32-ES
14	Holder without valve (syringe), set screw type	2	OMC-RP-14N
15	Handpiece holder with normally open hanger valve, set screw type	3	OMC-RP-12N
	Handpiece hanger valve, large		OMC-RP-13N
16	POM rod, Ø12 mm × 1 m	1	OMC-CV-RP-16
17	Countersunk machine screw, KM4 × 30, stainless	3	OMC-CV-RP-17
18	Power terminal block, 4-position, 15 A	1	3600-RP-3
19	Cabinet frame	1	OMC-CV-RP-19
20	Fan guard, white, 126 × 126 mm	3	OMC-CV-RP-20
21	Phillips screw, PA4 × 10, stainless	6	OMC-CV-RP-21
22	Capacitor clamp ring, Ø40 mm	2	3600-RP-28
23	Oil-free air compressor, 110 V / 60 Hz, 550 W	1	3600-RP-30
	Air compressor, 220 V / 50 Hz		3600-RP-30-2
24	Suction motor (vacuum pump), 110 V / 60 Hz, 550 W	1	3600-RP-30-S
	Suction motor, 220 V		OMC-2375CV-MTR1-2
25	Power inlet port, 3-pin, with fuse holder	1	3600-RP-18
26	Pressure gauge, round, 0–10 bar, with bracket	1	OMC-RP-7
27	Master switch, round rocker, lighted green	1	OMC-CV-RP-27
28	Front panel, aluminum, with TPC logo	1	OMC-CV-RP-28
29	Machine screw, KM4 × 20, stainless	4	OMC-CV-RP-29
30	Electric pressure switch, 4–7 bar	1	3600-RP-16
31	Waterproof junction box, 158 × 90 × 60 mm	2	OMC-CV-RP-31
32	Panel grommet, Ø14 mm	5	OMC-CV-RP-32
33	Power terminal block, 12-position, 15 A, with cover	1	3600-RP-8
34	Self-tapping screw, TA4 × 15, stainless	8	OMC-CV-RP-34
35	Rear receptacle, duplex, 3-prong	1	OMC-CV-RP-35
36	Cooling fan, 120 mm, 110–115 V, with guard	2	OMC-2375CV-RP101
37	Piezo scaler activation switch (SL)	1	3600-RP-10

REPLACEMENT PARTS

Other replacement parts

Instrumentation, drawers and accessories not numbered on the drawing.

Locking caster	**OMC-RP-1**
Non-locking caster	**OMC-RP-2**
Handpiece holder bar	**OMC-RP-15N**
Tri block mini control	**OMC-RP-17N**
Tri block diaphragm	**OMC-RP-18N**
Water relay block	**OMC-RP-20**
Needle valve, air / water	**OMC-RP-8**
Water bottle regulator	**OMC-RP-5**
Water bottle straw, 12"	**OMC-RP-1500-T**
Waste water sensor probe	**OMC-2375CV-RP20**
Solids collector trap, each	**OMC-RP-22-1**

Solids collector traps, box of 100	**53016-L-100**
Drawer, small	**OMC-RP-30-S2**
Drawer, large: top / middle / bottom	**OMC-RP-31-L1 / L2 / L3**
Drawer handle	**OMC-RP-30-HDL**
Glide tracks, top 4 drawers (pair)	**OMC-RP-9**
Glide tracks, bottom 2 drawers (pair)	**OMC-RP-9S**
Pull-out writing surface	**OMC-RP-30**
Replacement keys (2)	**OMC-RP-10**
Instrument label sticker	**OMC-RP-STK**
Monitor bracket with post	**OMC-2200**

REFERENCE

Warranty

Warranties apply to the USA market only.

All TPC products are guaranteed to be free from defects in workmanship and materials for one year from the date of purchase, unless otherwise stated. TPC will repair or replace any defective part at no charge.

Mobile cabinet	1 year
Built-in piezo scaler	1 year (tips excluded)
LED 39 curing light	2 years

Not covered

- Labor charges, and shipping to or from TPC
- Normal wear and stains on surface finishes
- Damage from improper installation, misuse or accidents in shipping and handling

SHIPPING DAMAGE Claims against the freight carrier must be made by the customer when the damaged items are received.

TPC improves its products continuously and may change them without notice. TPC is not obliged to modify units already made.

Contact

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