PORTABLE DELIVERY SYSTEM

PC2630 / 2930

Installation, Operation & User Manual

Self-contained air dental system in a rolling transport case · Includes replacement parts, working principle diagram and troubleshooting



DOCUMENT
PC2630 / PC2930 User Manual
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NOTE Read the whole manual before using the unit for the first time, and keep it with the unit.

Markings

- **Notice** · risk of losing accessories or documents
- **Caution** · risk of injury or malfunction
- **Read the manual** carefully before use
- **Protective earth** (ground)
- **Separate collection** · dispose of as electronic waste
- **Date of manufacture**
- **I** · On
- **O** · Off

Technical support

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SECTION 01

Product overview

A fully self-contained air dental system that packs into a rolling transport case. The PC2930 adds automatic holder switches, a built-in piezo scaler and an LED curing light.



PC2630 shown

Models

Included	PC2630	PC2930
Oil-less compressor, 580 W / 7 L	✓	✓
Two handpiece positions	✓	✓
3-way syringe	✓	✓
Saliva ejector, air venturi	✓	✓
Self-contained water bottle	✓	✓
Foot control	✓	✓
Manual handpiece selector	✓	—
Automatic holder switches	—	✓
Built-in piezo scaler	—	✓
Built-in LED curing light	—	✓

Specifications

Type	**Self-contained air system**
Compressor	**Oil-less, 580 W / 7 L tank**
Vacuum	**Air venturi**
Water	**Self-contained 700 ml bottle**

Shipping carton

Dimensions	**16 × 20 × 28 in**
Weight, PC2630	**60 lb**
Weight, PC2930	**65 lb**
Warranty	**1 year limited**

GETTING STARTED

Initial setup

⚠ **CAUTION** Remove the two shipping bolts on the bottom of the unit before use, using the Allen wrench supplied. If they stay in, the unit vibrates excessively. Keep the bolts and wrench, and refit the bolts whenever you transport the unit.



Fig. 1 Shipping bolt locations, bottom of the unit

Prepare the unit

1. **Remove the two shipping bolts** from the bottom of the unit.
2. **Connect the power cord** to the power inlet on the unit's display panel.
3. **Turn the power switch on (I).** The air compressor starts.
4. **Let the tank fill.** It takes about one minute, then the compressor stops.

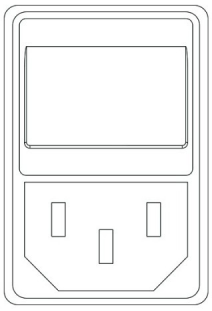


Fig. 2 Power inlet



Fig. 3 Replacement power cord, PC2630N-PC

If the compressor keeps running

- Make sure the suction switch is off.
- Make sure the saliva ejector valve is in its holder. On the PC2930, each holder has an automatic switch that turns its position on when the instrument is lifted.

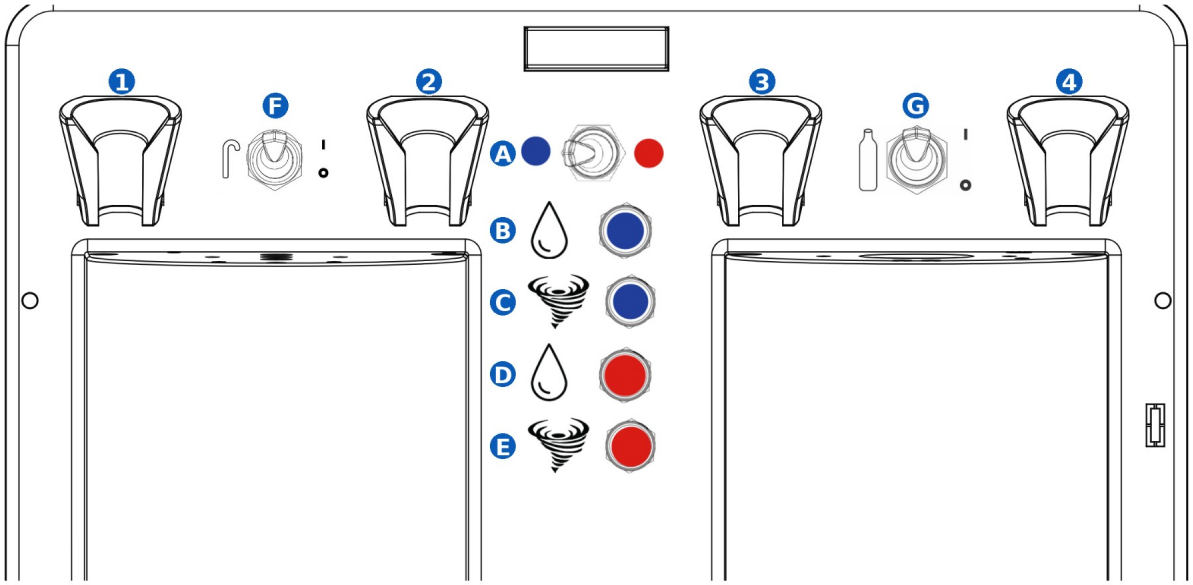
To stop using the unit, turn the power switch off (O).

⚠ **CAUTION** 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.

CONTROLS · PC2630

PC2630 control panel

Four instrument holders and a center column of controls. Numbers and letters match the descriptions below. Turn knobs B–E clockwise to decrease and counterclockwise to increase.





Instrument holders

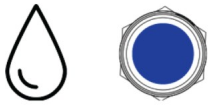
Manual holders with no switch. Choose the active handpiece with the selector (A).

1. Saliva ejector
2. Blue handpiece
3. Red handpiece
4. 3-way syringe



A Handpiece selector

Turn toward the blue or red dot to choose the active handpiece position.



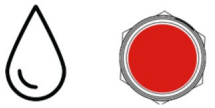
B Blue water ●

Coolant water, blue position.



C Blue air ●

Drive air, blue position.



D Red water ●

Coolant water, red position.



E Red air ●

Drive air, red position.



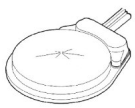
F Suction switch

On (I) starts suction; Off (O) stops it. Turn it off before removing the waste container.



G Water bottle switch

On (I) pressurizes the water bottle. Off (O) releases the pressure.



Foot control

Press to send air to the selected handpiece position. Used on both models.

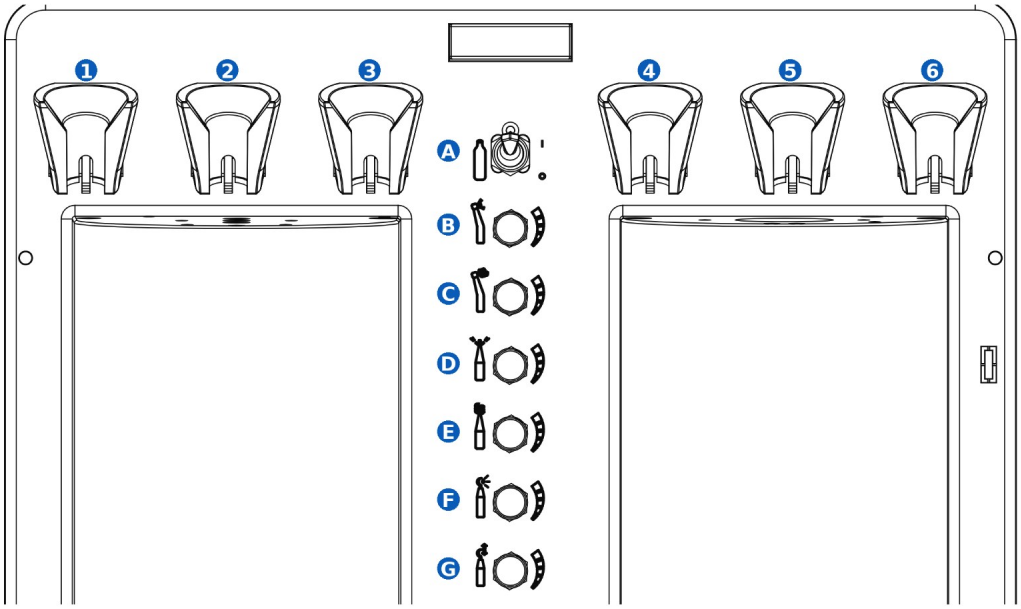
Pressure gauge

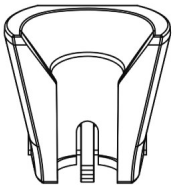
Top center of the panel. Shows the handpiece pressure.

CONTROLS · PC2930

PC2930 control panel

Six instrument holders and a center column of controls. Numbers and letters match the descriptions below. Turn knobs B–F clockwise to decrease and counterclockwise to increase.





Instrument holders

Each holder has an automatic switch. Lift an instrument to activate it; put it back to deactivate it. Use one handpiece at a time.

1. Saliva ejector
2. 3-way syringe
3. Handpiece 1
4. Handpiece 2
5. Curing light
6. Scaler



A Water bottle switch

On (I) pressurizes the water bottle. Off (O) releases the pressure.



B Handpiece 1 water

Sets the coolant water for holder 3.



C Handpiece 1 air

Sets the drive air for holder 3.



D Handpiece 2 water

Sets the coolant water for holder 4.



E Handpiece 2 air

Sets the drive air for holder 4.



F Scaler water

Sets the water flow to the scaler.



G Scaler power

Sets the scaler power.

Pressure gauge

Top center of the panel. Shows the handpiece pressure.

SECTION 03

Using the unit

Daily use

1. Turn the power switch on and let the tank fill.
2. Attach the handpiece to the handpiece tubing and press the foot control to supply air.
3. Set the drive air with that position's air knob, then set the coolant water with its water knob (blue or red, page 5).
4. Air coolant follows the drive air setting; there is no separate air coolant adjustment. If the water comes out as a stream, not a mist, increase the drive air or reduce the water until it sprays.
5. Start suction: on the PC2930, lift the saliva ejector from its holder; on the PC2630, turn the suction switch on (I).
6. Put the saliva ejector back in its holder and turn suction off before removing the waste container.

Scaling

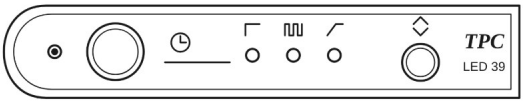


Screw the tip on and tighten it moderately with the tip wrench. A loose tip vibrates less.

⚠ **CAUTION** To remove the scaler handpiece, pull it straight off the tubing. Turning or twisting it damages the tubing pins.

Curing

1. Insert the light guide into the light.
2. Fit the blue light shield over the light guide, secured over the metal chuck.
3. Press ON to wake the light from sleep mode, then press again to cure.



LED 39 Curing switch (left), program indicators (center), function button (right)

Curing programs · LED 39 PC2930

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.

SECTION 04

After each use



Fig. 4 Waste container

Empty the waste container

Turn the container counterclockwise to remove it. Rinse it under running water and disinfect it with a suitable solution.

⚠ **CAUTION** Do not autoclave the waste container.



Fig. 5 Water bottle

Remove the water bottle

Turn the water bottle switch off. When the air has finished purging, turn the bottle counterclockwise to remove it.

Wipe the unit

Never spray chemicals directly onto the face of the unit. Spray the cloth, then wipe. Take care around the electrical outlet.

Flush the vacuum system

1. Let the tank fill completely.
2. Put the saliva ejector in two cups of water mixed with cleaning solution and let the system draw all of it through.
3. Repeat with clean water.



Fig. 6 Tank drain valve

Drain the tank

Press the drain valve button in, on the side of the unit, to drain any moisture from the tank.

⚠ **CAUTION** Drain the tank after each use. If it is not drained, water can build up in the air tank inside the unit and reduce the amount of air it can hold.

CARE · PC2930

Scaler care and sterilization

For the built-in A800N piezo scaler handpiece, tips and LED.

Scaler controls



Scaler water PC2930 / OPTION

Turn clockwise to decrease water flow, counterclockwise to increase it.



Scaler power PC2930 / OPTION

Turn clockwise to increase power, counterclockwise to decrease it.

Autoclave
134 °C / 216 kPa
273 °F / 31 psi

Cycle
12 min
then 20–30 min drying

Tips

- Rinse off gross debris under water. Ultrasonic cleaning and disinfectant solutions are not recommended.
- Pouch the tip, paper side up in a paper/plastic pouch, and autoclave.
- Leave the tip sealed in its pouch until use.

Handpiece, between patients

- Wipe with a cloth soaked in instrument cleaner/disinfectant, rinse with water and dry.
- Remove the tip, detach the handpiece and autoclave it.
- Take it out as soon as the cycle ends and dry the electrical contacts before reconnecting.

⚠ **CAUTION** Do not use cold sterilization solution. Do not use chemical disinfectant before sterilizing, or the materials deteriorate quickly. Do not sterilize the handpiece cable.

Start of the day

Fill the water bottle with purified water. Connect a sterilized handpiece, hold it over a sink, set power to low and flush the water line at maximum flow for at least 2 minutes. Fit a sterilized tip.

End of the day

Clean and sterilize all used tips and handpieces. Clean and disinfect the cabinet, power cord, handpiece cable, controls and foot control with a non-immersion disinfectant on a towel, never sprayed directly; let it air dry.

Replace the curing light LED

1. Remove the tip.
2. Twist the nipple counterclockwise and remove it.
3. Pull off the LED cartridge and insert the new one, with its pins aligned.

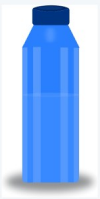
SECTION 05

Replacement parts



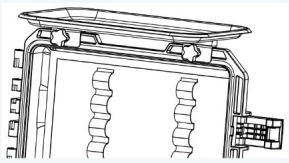
Water bottle, 700 ml (cap not included)

PC-2630N-CWB



Waste container

PC2630-SWC-N



Stainless steel tray, door mounted (optional)

[TPC: part no.]



Power cord

PC2630N-PC



Saliva ejector valve

P2340



Saliva ejector tips, 5 pk

P2185



Saliva ejector spool

P2169



Suction tips

[TPC: part no.]



3-way syringe, press style

TPC3WAY-PR



3-way syringe tips, 5 pk

M7500-5



LED 39 light guide

P109-LG



Piezo scaler tips, 5 pk (G1, G2, G4, P3, P5)

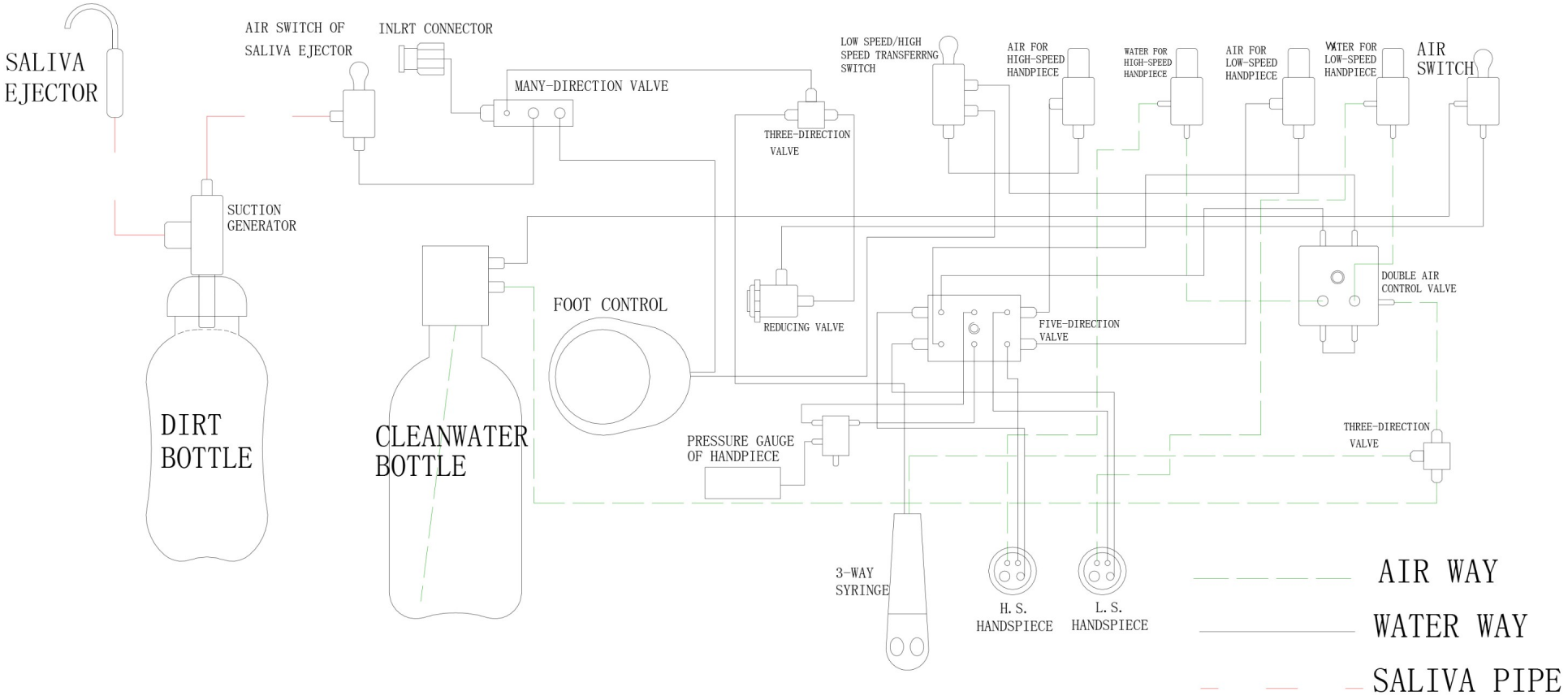
A789

No image

Piezo scaler handpiece

A745

Working principle diagram



Line key at lower right of the drawing. Not to scale. Labels are from the manufacturer's original drawing. **[TPC: supply an editable file to correct the spelling]**

REFERENCE

Troubleshooting

	PROBLEM	WHAT TO CHECK
01	**Unit will not power on**	• Check the power cord and the outlet. • Check the power switch. • Check the resettable fuse. If no green light is lit, there is no power to the main switch.
02	**Suction is low**	• Make sure the saliva ejector valve lever is open. • Check the tubing for kinks. • Make sure the waste container is secured. • Check the saliva ejector screen under the rubber tip. • The air venturi valve may be clogged. Contact TPC support.
03	**Low handpiece pressure**	• Adjust the air knob for that handpiece position (page 5). • If the knob has no effect, try the other handpiece position. If both are the same, the main regulator may need adjusting. Contact TPC support.
04	**Unit is very loud when the motor runs**	• Make sure the shipping bolts have been removed (page 4).
05	**Unit makes a popping sound while the compressor runs**	• **Stop using the unit immediately.** The safety pressure valve is releasing excess pressure because the automatic shut-off has failed. Contact TPC support.

TPC technical support

Call before opening the unit or adjusting the main regulator.

(800) 560-8222

service@tpcdental.com

REFERENCE

Warranty

1 year limited warranty
All TPC products are guaranteed free from defects in workmanship and materials for one year from the date of purchase, unless otherwise stated.

Covered

TPC will repair or replace any defective part at no charge.

Not covered

- Labor, and shipping to and from TPC
- Normal wear or stains on the surface finish
- Damage from improper installation, misuse or accidents
- Damage in shipping and handling
- Bulbs and batteries

Shipping damage claims

Claims against the freight carrier must be started when the damaged items are received. Filing the claim is the customer's responsibility.

Product changes

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

TPC

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