

GREELOY

GU-P208

Portable Dental Unit

USER MANUAL

Installation | Operation | Maintenance | Troubleshooting

IMPORTANT: Product configurations and supplied accessories may vary. Before installation, verify the voltage, rated power, accessory models, and other information on the actual device rating label and supplied documentation.

Model: GU-P208 | Language: English | Revision: 3.0



About This Manual

This manual provides general installation, operating, cleaning, maintenance, and troubleshooting information for the GreeLOY GU-P208 portable dental unit. The GU-P208 **portable dental unit** combines compressed-air, water, suction, rotary-instrument, ultrasonic-scaling, curing-light, and electric-micromotor functions in a portable wheeled case.

USE OF THIS MANUAL: Always follow the labels on the actual unit and the separate instructions supplied with handpieces, the ultrasonic scaler, curing light, electric motor, and other detachable accessories.

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1. Safety Information

WARNING: Use the unit only by trained dental personnel. Incorrect electrical, pneumatic, or clinical use may cause injury, contamination, fire, or equipment damage.

- Connect the unit only to a protective-earth (grounded) outlet matching the voltage and frequency on the device rating label.
- Do not use the unit with a damaged power cord, plug, foot-control cable, cracked bottle, leaking hose, or exposed electrical parts.
- Do not operate in the presence of flammable anesthetic mixtures, gases, or vapors.
- Keep ventilation openings and the cooling fan unobstructed. Operate the unit upright on a stable, dry surface.
- Disconnect mains power and release stored pressure before service or internal inspection.
- Use only compatible handpieces, tips, couplers, attachments, bottles, filters, tubing, and accessories.
- Do not immerse the main unit, control panels, foot pedal, compressor, or electric motor body.
- Empty the wastewater bottle before it becomes full and keep the suction filter installed.
- Use suitable eye protection when operating the curing light. Do not look directly into the light output.
- Follow local infection-control procedures and the separate reprocessing instructions for each detachable dental accessory.

2. Product Overview

The GU-P208 is a suitcase-style portable dental treatment unit designed to combine the main functions required for mobile or space-limited dental treatment. It includes an integrated oil-free compressor, air reservoir, clean-water supply, suction/drainage system, 3-way syringe, air-handpiece tubing, ultrasonic scaler, LED curing light, and electric dental micromotor.

Compared with the GU-P206S configuration, the GU-P208 adds an electric dental micromotor and a dedicated motor-control panel while retaining the same general portable treatment-unit concept.

CONFIGURATION: Handpiece tubing, couplers, motor attachments, scaler model, curing-light model, and accessory quantities can vary by ordered package.

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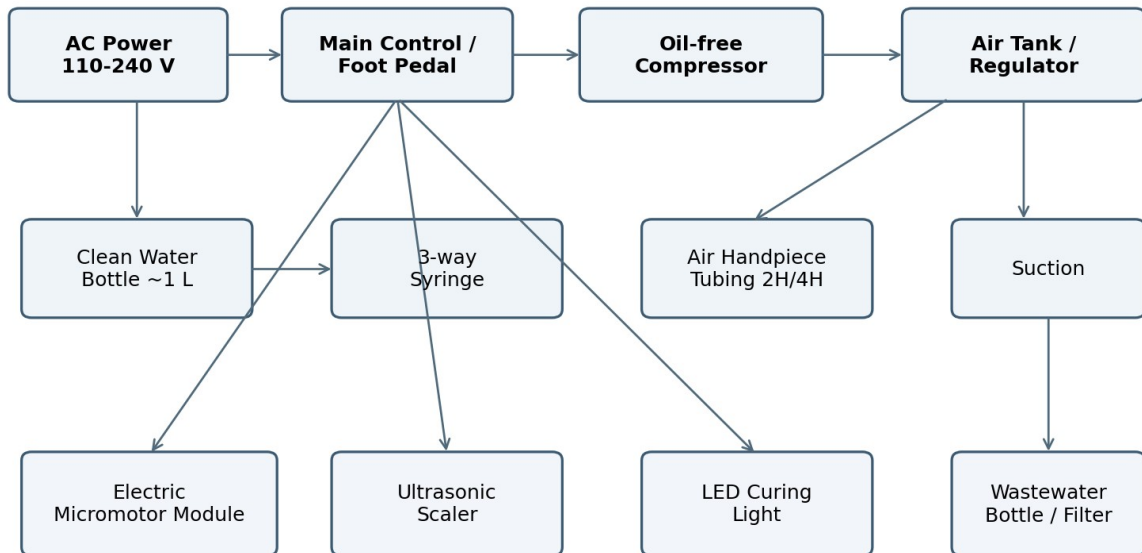
3. Technical Specifications

CHECK BEFORE USE: The following values are commonly listed for GU-P208 configurations. The rating label and documentation supplied with the actual unit take precedence.

Parameter	Specification
Model	GU-P208
Input voltage / frequency	110-240 V AC, 50/60 Hz
Rated power	Approx. 0.55 kW
Air flow	Approx. 60 L/min at 4 bar
Air tank capacity	Approx. 7 L
Noise level	Approx. <=58 dB(A)
Net weight	Approx. 29 kg
Product dimensions	Approx. 440 x 285 x 580 mm
Package dimensions	Approx. 515 x 360 x 690 mm
Clean-water bottle	Approx. 1000 mL
Wastewater / drainage	Integrated collection bottle with filter
Compressor	Integrated oil-free compressor
Foot control	Detachable electronic foot pedal
Air handpiece tubing	2-hole / 4-hole configuration depending on order
Electric micromotor	Included; verify motor/controller label for speed and torque
Ultrasonic scaler	Included; model and output depend on package
LED curing light	Included; model and output depend on package

4. Components and Controls

- Wheeled protective case with pull-out handle
- Main power inlet / power switch / fuse area
- Pressure gauge and air-pressure regulator
- Clean-water bottle
- Wastewater bottle and suction filter
- 3-way syringe
- Air-handpiece tubing and coupler
- Electric micromotor and motor-control panel
- Ultrasonic scaler handpiece
- LED curing light
- Integrated oil-free compressor and air tank
- Cooling fan / ventilation openings
- Foot-control interface and detachable foot pedal



Functional architecture - simplified reference diagram, not a wiring schematic.

Simplified functional architecture. This is not an electrical or pneumatic wiring diagram.

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5. Unpacking and Installation

5.1 Unpacking

- Inspect the carton and portable case for transport damage before opening.
- Confirm the model and electrical rating on the device label.
- Check the main unit, power cord, foot pedal, bottles, tubing, syringe, scaler, curing light, electric micromotor, and any ordered attachments.
- Do not operate visibly damaged equipment. Record shipping damage before use and contact the seller.

5.2 Placement

- Place the unit upright on a level, dry, stable floor.
- Allow sufficient clearance for the case door, cooling fan, and ventilation openings.
- Keep the power inlet and motor-control panel away from liquids.
- Position the foot pedal and tubing so they do not create a trip hazard.

5.3 Bottles and Tubing

- Install the clean-water and wastewater bottles securely. Check caps, seals, tubing, and the suction filter.
- Fill the clean-water bottle according to the local dental-unit waterline protocol. Do not overfill.
- Route all tubing without kinks and confirm that connections are fully seated.
- Connect the foot pedal to the labeled interface before switching on the unit.

5.4 Electrical Start-up

1 **Verify power** - Confirm that the supply voltage and frequency match the unit rating label.

2 **Connect** - Connect the power cord to the unit and then to a grounded outlet.

3 **Switch on** - Turn the main power ON and allow the compressor to build pressure.

4 **Inspect** - Check for abnormal vibration, air leaks, unusual odor, excessive heat, or continuous compressor operation.

STOP CONDITION: If abnormal noise, leakage, smell, overheating, or electrical damage is observed, switch the unit OFF and disconnect mains power.

6. General Operation

6.1 Pre-use Check

- Wastewater bottle is empty and the filter is installed.
- Clean-water supply is sufficient for the planned procedure.
- Air and water tubing are secure and not kinked.
- Foot pedal cable is fully seated.
- Pressure gauge is within the required range for the connected handpiece.
- Rotary instrument, scaler tip, and curing-light accessories are installed according to their own instructions.

6.2 Instrument Activation

Select the required instrument using the actual holder/control arrangement on the unit. Activate the instrument with the foot pedal where applicable. Return the instrument to its holder before selecting another function. Do not assume that multiple powered instruments can be used simultaneously.

6.3 Shutdown

- 1 Return instruments** - Place all instruments in their holders and release the foot control.
- 2 Power off** - Switch the main power OFF.
- 3 Disconnect if needed** - Disconnect mains power before cleaning, service, transport, or storage.
- 4 Drain and clean** - Empty the wastewater bottle and drain compressor condensate where required by the unit design.

7. Electric Micromotor

The GU-P208 includes an electric dental micromotor with a dedicated control panel. Exact speed range, torque, transmission ratio, and operating modes depend on the supplied motor/controller and attachment.

- With the motor stopped, connect only the supplied or confirmed-compatible motor cable and dental attachment.
- Make sure the contra-angle or straight attachment locks completely before operation.
- Select only settings shown on the actual controller.
- If forward/reverse selection is available, change direction only when the motor is stopped unless the controller instructions state otherwise.
- Activate with the foot pedal if the unit is configured for pedal-controlled motor operation.
- Stop use if the motor stalls, overheats, vibrates abnormally, displays an error, or produces unusual noise.
- Reprocess detachable rotary attachments according to their own instructions. Do not autoclave or immerse the electric motor body unless specifically permitted.

MOTOR SPECIFICATION: Do not apply a speed or torque value from another motor model. Use the values printed on the supplied motor/controller label and its original instructions.

8. Other Instrument Functions

8.1 Air Handpiece

- Confirm whether the unit uses 2-hole or 4-hole tubing and connect a matching handpiece/coupler.
- Adjust working pressure only within the handpiece manufacturer's specified range.
- Check air/water spray before clinical use. Stop if pressure is unstable or leakage is present.

8.2 3-way Syringe

- Check the syringe tip connection before use.
- Verify air and water functions before treatment.
- Reprocess the detachable tip according to its own instructions.

8.3 Suction System

- Keep the wastewater bottle and suction filter installed during operation.
- Monitor the collection level and empty the bottle before it becomes full.
- If suction decreases, inspect the filter, tubing, bottle cap, and seals for blockage or leakage.

8.4 Ultrasonic Scaler

- Install only a compatible scaler tip and tighten it with the correct tool.
- Confirm irrigation before scaling.
- Use power and water settings according to the scaler model and tip instructions.
- Clean, disinfect, and sterilize compatible components according to the scaler IFU.

8.5 LED Curing Light

- Use the operating mode and exposure time provided by the supplied curing-light model.
- Use appropriate eye protection.
- Clean and disinfect the light guide and protective components according to the curing-light instructions.

9. Cleaning and Maintenance

INFECTION CONTROL: Follow local infection-control procedures and the validated reprocessing instructions for every detachable accessory. Do not assume that the main unit or motor body is autoclavable.

Frequency	Item	Action
After each session	Wastewater bottle / suction line	Empty, clean, and disinfect. Inspect the filter.
Daily	Exterior surfaces	Power OFF. Wipe with a compatible non-abrasive cleaner/disinfectant. Prevent liquid entry.
Daily	Clean-water bottle / waterline	Refresh water and follow the local dental-unit waterline protocol.
Daily	Air tank / compressor condensate	Drain condensate where required by the unit design, with power disconnected and pressure reduced.
Weekly	Hoses / fittings / bottle seals	Inspect for cracking, hardening, leakage, loose fittings, or discoloration.
Weekly	Cooling openings	Remove external dust. Do not insert tools into a running fan.
Periodic	Filter elements	Clean or replace according to condition and supplied instructions.
Periodic	Power cord / pedal cable	Inspect for cuts, crushed insulation, loose connectors, or bent pins.
As specified	Handpieces / scaler tips / attachments	Reprocess strictly according to each accessory IFU.

10. Troubleshooting

SERVICE LIMIT: The checks below are external user-level checks. Do not open energized electrical or pneumatic assemblies.

Symptom	Possible cause	Action
No power	Outlet, plug, switch, fuse, cord, voltage mismatch	Confirm outlet and rating label; reconnect the cord; check only an accessible fuse with power disconnected.
Compressor does not start	No power, pressure already at cut-off, protection trip, fault	Check power and gauge; allow cooling; if pressure is low and the compressor remains off, stop use and service.
Compressor runs continuously	Air leak, open instrument valve, pressure-switch fault	Return instruments to holders; release pedal; check external hoses and fittings for leaks.
Low handpiece pressure	Regulator setting, kink/leak, incompatible tubing, filter restriction	Inspect tubing and connections; adjust only within the handpiece specification.
Weak suction	Full wastewater bottle, blocked filter/tube, leak	Empty bottle; inspect/clean filter and suction tubing; reseal connections.
No water / weak water	Empty bottle, loose cap, kinked tube, control closed	Refill bottle; reseal cap; inspect tubing; check water control.
Micromotor does not rotate	Cable/attachment not seated, controller not selected, pedal inactive, motor fault	Power OFF; reseal compatible cable/attachment; restart and select motor function.
Micromotor vibration / heat	Attachment fault, overload, poor connection	Stop immediately; inspect attachment and coupling; do not continue if abnormal.
Scaler not operating	Tip loose, no selection/pedal, accessory fault	Stop; install tip correctly; verify scaler selection and water; follow scaler instructions.
Curing light not operating	Connection, power, or mode fault	Check connection and controls; follow curing-light instructions; service if there is no output.
Unusual noise / vibration	Unit unstable, loose external part, compressor/pump fault	Place on a level surface; stop use if the noise persists or comes from internal machinery.

11. Transport and Storage

- Switch the unit OFF and disconnect mains power before transport.
- Empty the clean-water and wastewater bottles. Drain residual liquids and compressor condensate as applicable.
- Depressurize the pneumatic system before service or long-term storage.
- Secure the foot pedal, power cord, bottles, tubing, handpieces, and accessories inside the case.
- Retract the trolley handle and close/lock the case before moving the unit.
- Protect the unit from rain, direct sunlight, severe vibration, impact, freezing, and excessive heat.
- After transport or cold storage, allow the unit to return to room temperature before connecting power.

12. Service and Warranty

- User service is limited to external cleaning, bottle/filter care, inspection of accessible tubing and cords, and replacement of parts specifically intended for user replacement.
- Internal electrical, compressor, pressure-switch, pneumatic-valve, motor-controller, and wiring repairs should be performed by qualified service personnel.
- Keep the model, serial number, purchase invoice, and seller contact information for service requests.
- Many GU-P208 sellers provide a 1-year warranty. Confirm the exact warranty period, shipping responsibility, and excluded consumables with the seller from whom the unit was purchased.

13. Contact Us

Contact Us

If you have any question or need any assistance, please contact us by email or telephone. All our team members would stand by for you anytime.

Working Hours: Monday – Friday: 9:30 a.m. to 5:30 p.m. (UTC+8);

E-mail Address:

Dentalsalemall.com@gmail.com

You can send an email to us regarding your questions, we will get back to you within 12 hours or 48 hours on weekends.

Telephone Number: +86-023-68438829

(If the phone can get through, but no one answers it. In this case, our customer service may not be online. You can leave us a message and we will contact you soon once we receive your message.)

Office Address:

No.27-2, 3st Building, Neo-China Top City, Yuanjiagang, Jiulongpo District, Chongqing, China