

ATLOSON

THERMAL SYSTEMS

GREG L1800

INSTALLATION AND OPERATION MANUAL

OPERATION | MAINTENANCE | PARTS



HEAT DRIVES
POSSIBILITIES

01 Identification, safety and use

This manual accompanies model GREG L1800. Record SKU, serial number, voltage, fuel and revision before installation. Accessories, functions and protective devices depend on the supplied variant.

Domestic hot-water production in a mobile installation, with diesel, electric or hybrid modes according to version. This is not an engine preheater.

SKU	Fuel	Voltage
ATL-NER-WH18	Diesel + Electric	12V + 120V

Carbon monoxide: combustion gases must remain outside occupied spaces. Do not operate in a garage or other enclosed location. Keep intakes and flue outlets clear, especially after snow, mud or travel.

Fuel smell, abnormal smoke, leakage or a CO alarm: stop use, move occupants away and have the installation inspected. Do not restart to conceal a fault. Contact emergency services if there is immediate danger.

Fire and burns: keep combustible materials away from the appliance, hot ducts and exhaust. Do not use the service compartment for storage. Allow cooling before inspection and keep children away from hot surfaces.

Power: use the nameplate voltage. Never increase a fuse rating or bypass protection. For a normal stop, allow the controlled cooling cycle to finish before disconnecting power.

Stop before refuelling. Fuel, combustion, gas and mains work require a qualified professional. Install and maintain a CO detector suitable for the application according to its own instructions.

Domestic water: published capacity is 18 L, with no validated thermal output. Confirm filling, bleeding, temperature, maximum pressure, relief valve and draining. Protect users against scalding at outlets. Provide a frost-draining procedure. The 12 V and 120 V supplies are separate circuits requiring validated connections.

02 Variant specifications

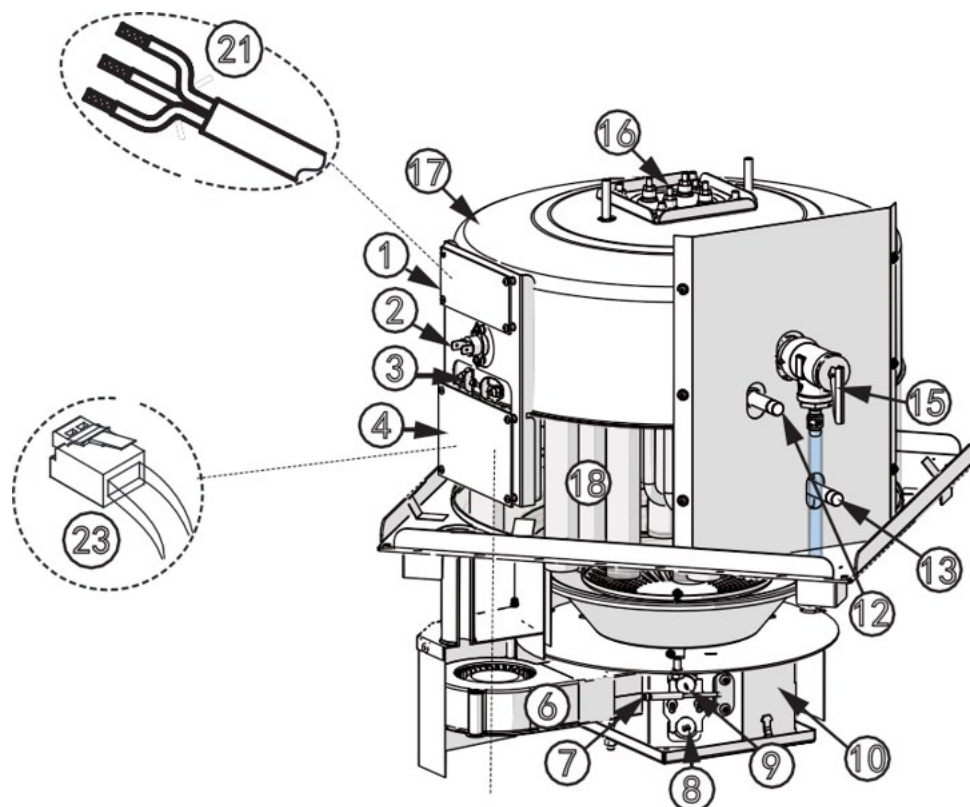
Common specification	Value
Fuel	Diesel + Electric
Operating voltage	12V + 120V
Water capacity	18 L
Energy modes	Diesel / electric / hybrid
Controller	LCD touchscreen controller
Altitude mode	Automatic altitude mode stated
Pressure protection	Automatic pressure relief stated
Application	Domestic hot water in a mobile installation

For unpublished values, use the supplied variant's nameplate and data sheet: starting current, fastening torque, pressure, pump flow and protection devices cannot be inferred from power.

03 Recommended applications and output selection

Select according to insulation, outdoor temperature, heated volume and air exchange. For domestic water: water demand, pressure and frost protection. Engine displacement and engine coolant volume are not applicable to this unit.

04 L1800 component identification



Drawing callouts: identify components before service. A sectional view shows operation; it does not define a disassembly sequence. Check the unit revision before ordering any part.

Item	Component
1 / 16	Mains electronics / heating element depending on option
3 / 4	Water sensor / DC ECU
5 / 6	Base / combustion fan
7 / 8 / 9 / 10	Fuel / glow plug / flame sensor / chamber
12 / 13 / 14 / 15	Hot outlet / cold inlet / drain / valve
17 / 18	Tank / combustion tubes
22 / 23 / 24 / 25	Controller / controller cable / pump cable / DC supply

05 Step-by-step installation

STEP 1 - Prepare the penetration

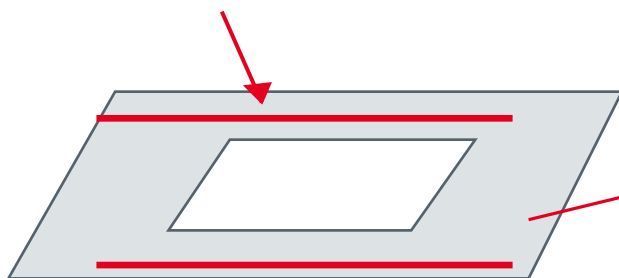
Compare the supplied template with the base and under-vehicle clearances. Check that the support is rigid and no pipe crosses the cutout area.

STEP 2 - Install the protection plate

Clean and dry contact surfaces. Apply compatible sealant to the inside of the plate. Position, press and secure according to the kit; protect edges.

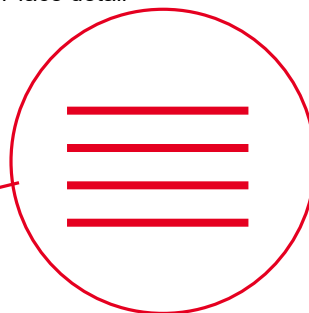
1 Check the actual template

Rigid support, clean and dry surface



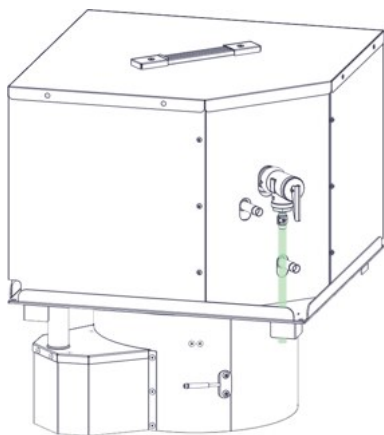
2 Apply the seal

Inner-face detail

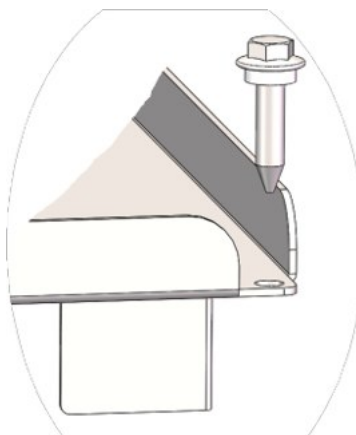


3 Position, press, secure

Plate installation illustration: the supplied template determines the cutout. Do not measure the drawing.



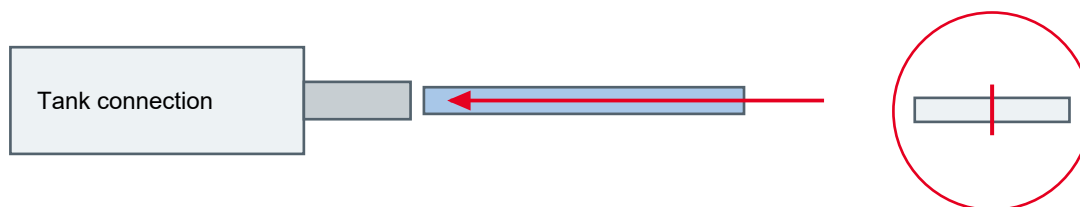
Positioning in the penetration



External mounting detail

STEP 3 - Install the assembly

Position the water heater and burner without stressing connections. Check access to the safety valve and drain. Keep the combustion discharge outside occupied space.

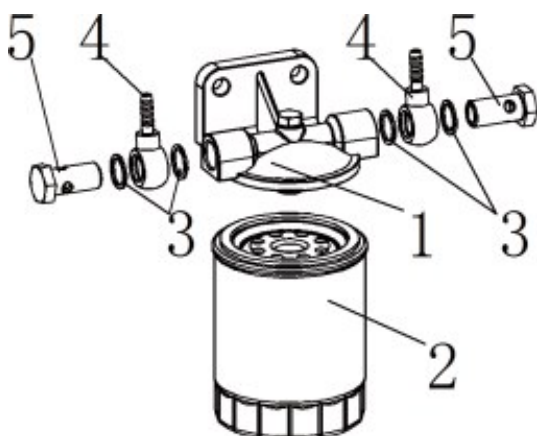
ACTION DETAIL - schematic

Support the tube. Insert as specified for the supplied connector.

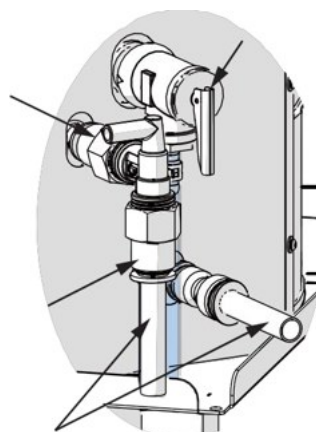
Check retention and sealing.

STEP 4 - Connect water

Connect cold inlet, hot outlet and safety discharge. Support pipes. Keep the valve discharge unobstructed, downward, outdoors and protected against freezing.



Fuel connection and filter

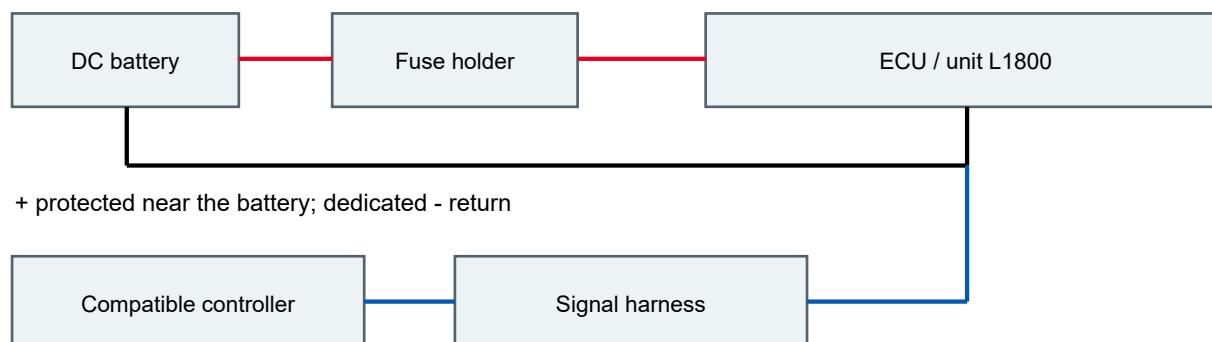


Valve connection

STEP 5 - Fill and test

Fill with a hot-water tap open and inspect all joints. Connect DC and optional mains according to the nameplate. Test available modes and complete draining before delivery.

06 Electrical connections



Schematic. Pins, rating and voltage: use the supplied harness.

Mains: separate circuit with grounding and protective devices matched to the rating plate.

Maintain power during cooling. Normal shutdown uses the controller; do not install a switch that interrupts the cycle. Protect cables and connections against water, abrasion and heat.

07 Initial commissioning

Check	Result to verify
Rating plate and controller	SKU, voltage, fuel and connectors match
Mounting	Mountings, clearances, ducts and outlets checked
Fluid circuit	Filled and bled; no leaks
Supply under load	Voltage measured during starting
Complete cycle	Ignition, operation, setpoint and shutdown/cooling tested
Delivery	Rating-plate photo, measurements, date and installer recorded

08 Operation and controls

Fill the domestic-water tank before water heating. Select an available mode: water, air or combined according to unit; fuel, mains or mixed according to variant. A setpoint does not guarantee immediate tap-water temperature: scalding hazard.

Situation	Action
Filling	Confirm that this is the 18 L domestic-water tank. Close the drain and fill through the cold-water system with a hot-water tap open until air is expelled. Check leak tightness and operation of the safety valve and its discharge pipe.
Heating	Select a mode compatible with the available power supplies. Before electric heating, check the voltage and power on the heating element nameplate; the L1800 name alone does not establish the voltage. Beware of scalding at the hot-water outlet.
Hygiene and maintenance	Use products and a procedure compatible with tank materials. Do not automatically apply another manufacturer's descaling procedure. Have the valve, power supply, fittings and connection condition checked.
Complete draining	Stop, allow cooling and open the drain points and taps that admit air. Check that the tank and low points actually drain. Never allow the heating element to heat dry on the next start.

09 Maintenance and winterization

When	Work
Before use	Check fuel, battery, ducts, outlets, connections and absence of leaks.
After transport	Inspect mountings, cables, ducts and exposed components.
Before the season	Supervised test; full inspection of combustion and protective devices.
Domestic water	Check valve and drain; drain before frost or storage.
After repair	Suitable seals, leak test, complete cycle and measurements recorded.

Before use and after travel, inspect ducts, supports, openings, fuel lines and accessible connections. Once cool, remove external debris without directing water into the intake or flue.

Before the season and after storage, have the installation, battery, protection, tightness and combustion checked. Hour-based intervals, exercise-run duration and component life remain to be confirmed for the exact model and revision.

The user may keep access clear and clean cold surfaces using material-appropriate methods. Burner, exchanger, pump, sensor and ECU removal is qualified service work. Do not adjust fuel delivery or thermal protection.

After repair, require leak checks and a full cycle. Record date, hours, symptom, code, part SKUs and technician. Confirm applicable warranty terms with ATLOSON; no other warranty is implied.

Winter storage: stop, allow cooling, switch off the water pump and open taps and drains. Check that the tank and low points actually drain. Before restarting, fill and bleed; never heat an empty tank.

10 Troubleshooting and fault codes

Symptom	Action
Display off	Check the permitted power supply, visible connection and identified protection device; a fuse that blows again requires professional diagnosis.
No ignition / flameout	Record the code and check fuel level and visible obstructions. Do not repeat starting or priming attempts; have fuel dosing and combustion checked.
Overheating / low heat output	Keep air passages clear. On a coolant circuit, allow cooling before checking the level; have air bleeding, circulation and pump checked. Do not bypass the sensor.
Smoke / odor / leak	Stop using the system and have it inspected before returning it to service. Do not tighten or repair a hot pipe.
Communication / remote control	Record the message and version. Have harness and protocol confirmed. For GSM, check the module and network availability with the installer.

Record the exact code before clearing it. Stop and allow cooling, check the power supply under load, then ducts and the fluid circuit. Correct the cause before a supervised test. A repeated fault requires workshop service.

For a code not described here, record the number, controller revision and circumstances; send them to ATLOSON support. Do not use a fault table from another type of unit.

11 Parts, kits and purchasing

Order by part number and variant. Drawing callouts are not SKUs. Check voltage, fuel and connector before replacement. A complete-system reference is not a maintenance kit.

[ATLOSON parts](#)

Records and support

Date / hours: _____ Work / parts: _____

Keep the invoice, SKU, serial number and history. For assistance, provide a nameplate photo, code and symptom.

[ATLOSON support](#)