



Evolution
pressure washers

Battery Powered Pressure Washer



Original Manufacturer Instructions



Introduction

This manual and any other literature supplied must be read fully prior to the initial operation of your machine and be stored for later use or for subsequent owners. Pay particular attention to any instructions relating to operation and safety and maintenance of the unit. Following these instructions will ensure optimum performance, reliability and operator safety. The model and serial number on the cover of this booklet must be quoted should you need to contact the dealer or manufacturer regarding usage, maintenance and warranty queries.

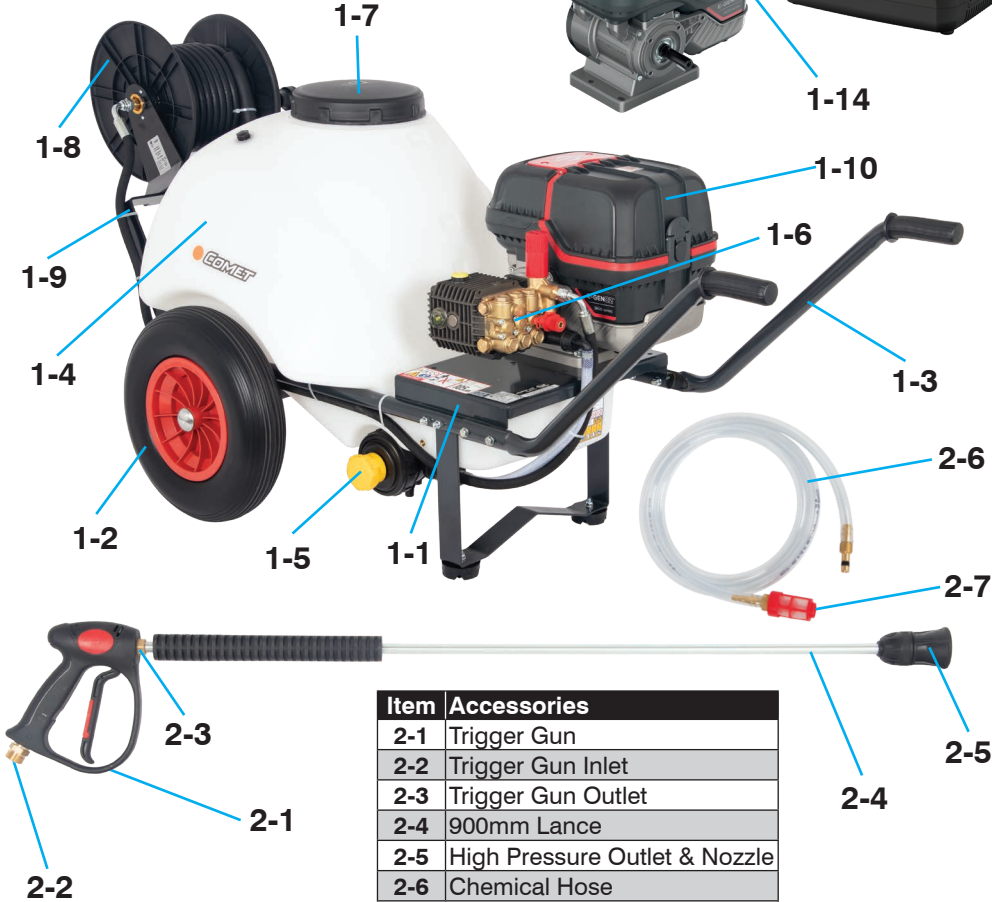
Recommended Safety Standards & Directives

This manual highlights certain safety measures which must be taken in to consideration when using this machine. However, each contractor and operator must make their own risk assessments whilst considering their individual application and environment and ensure the user is properly trained and wearing protective clothing to the required regulatory standards. We recommend visiting the Health and Safety Executive website at www.hse.gov.uk to be properly informed on best practice in the UK.

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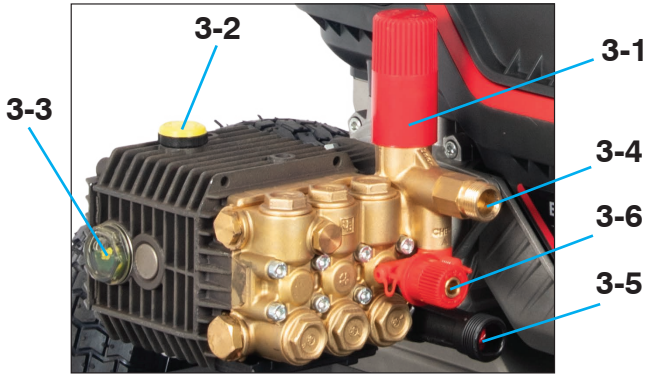
1. Component Identification

Item	Main Machine Photos
1-1	Trolley Frame
1-2	Trolley Wheels
1-3	Removable Trolley Handles
1-4	120L Polyethylene Water Tank
1-5	50 Mesh Filter
1-6	High Pressure Pump
1-7	Tank Lid
1-8	Hose Reel with 10M High Pressure Hose
1-9	Hose Reel Bracket
1-10	Powerhead (Requires 2 Batteries)
1-11	Battery Charger (Supplied Separately)
1-12	Li-Ion Batteries (Supplied Separately)
1-13	Powerhead Lid
1-14	Battery Compartment



Item	Accessories
2-1	Trigger Gun
2-2	Trigger Gun Inlet
2-3	Trigger Gun Outlet
2-4	900mm Lance
2-5	High Pressure Outlet & Nozzle
2-6	Chemical Hose
2-7	Chemical Filter

Item	Pump Close up
3-1	Integrated Unloader Valve & Pressure Adjustor Knob
3-2	Oil Breather Dipstick
3-3	Pump Oil Sight Glass
3-4	High Pressure Outlet
3-5	Suction Hose Inlet
3-6	Chemical Injector



2. Technical Specification

	Model No.	WBU8100BAT
Powerhead Information	Voltage	82 Volts
	Motor	Brushless, 3 Speed
	Power	2x 82V Li-Ion Batteries
	Performance	up to 2.9 kW
	Nominal RPM	up to 3600 Rpm
	Shaft	3/4" Male
	Material	Magnesium gearbox housing
	Protection	IPX4 rated
Water Connection	Max Feed Temperature	40°C
	Minimum Feed Flow Rate	8 Lpm
	Maximum Feed Pressure	0.3 MPa - 3 Bar - 43.5 psi
	Maximum Suction Depth	3 Metre (9.8 Feet)
High Pressure Performance	Flow Rate	8 Lpm
	Working Pressure	10 Mpa - 100 Bar - 1450 psi
	Nozzle Jet Size	15° fan - 035 jet
	Max. recoil force on Spray Gun	<32 N
Hand-Arm Vibration Value	Hand Spray Gun	<2.5 m/s
	Spray Lance	<2.5 m/s
	Uncertainty K	1
Emissions	Fumes	None
	Noise	Low
Oils	Pump Oil Type	SAE 15W/40
Weights & Dimensions	Dimensions	1520L x 680W x 740H (mm)
	Weight	49.0 Kg

3. Intended and Proper Use - Commercial

 This machine is intended for Commercial use and is not suitable for normal housekeeping purposes by private persons whereby there may be a source of danger to the public. The machine must be used solely by professional contractors who are properly trained and wearing protective clothing to the required health & safety, and national legislation regulatory standards.

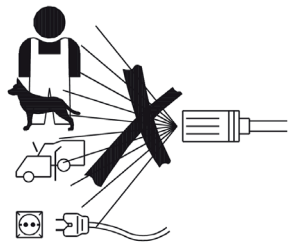
The intended use of this high pressure cleaner is exclusively for:

- Cleaning of machines, vehicles, buildings, and tools with **clean, soft water**.
- Descaling and clearing of blocked pipes and hydro sandblasting by means of special accessories recommended by the manufacturer.
- Use with accessories rated to the performance of the high pressure cleaner.

The high pressure cleaner **MUST NOT** be used:

- To wash people, animals, live electrical equipment, delicate objects or the high pressure cleaner itself.
- In environments in which explosive or corrosive atmospheres are present.
- By persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or necessary knowledge.

Any other use must be considered improper and the manufacturer cannot be considered responsible for possible damages caused by the improper or incorrect use.



4. Safety Information

 **WARNING - Not following the instructions given below may cause serious injury to persons, harm to the environment and damage to equipment.**

 This machine must only be used in applications covered in section 3, Intended and Proper Use.

 Use the following personal protective equipment (PPE)



Wear protective clothes



Wear protective ear muffs



Wear protective gloves



Wear a face shield



Wear safety boots

4. Safety Information - *continued*

-  High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, animals, live electrical equipment or the machine itself.
-  Do not use the machine within range of persons unless they wear protective clothing.
-  Do not direct the jet against yourself or others in order to clean clothes or footwear.
-  Avoid operating the machine on unbalanced surfaces.
-  Remember that the high pressure water jet causes a recoil effect on the spray gun. The recoil values are indicated in the technical specification table (Page 3).
-  Risk of explosion - Do not spray flammable liquids.
-  High pressure cleaners shall not be used by children or untrained personnel.
-  High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by the manufacturer.
-  To ensure machine safety, use only original spare parts from the manufacturer or approved by the manufacturer. **USE OF NON APPROVED PARTS WILL VOID WARRANTY.**
-  Water that has flowed through backflow preventers is considered to be non-potable.
-  Do not use if machine, component part, or any accessory is damaged or worn. Make sure replacement components have at least the same rating as originals.
-  Pressure washers should never be left unattended. Always switch the machine off before breaking from work.
-  Avoid covering the machine during use and operate in a well ventilated area.
-  Protect from, and do not wash down the unit, with a direct water jet.
-  **The unit is performance set at factory.**
Do not adjust the regulating valves unless qualified to do so. Over loading of the powerhead and components can lead to equipment failure, personal injury and will void the warranty.
-  **THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR ANY HARM OR DAMAGE CAUSED BY DISREGARDING THE DESIGNATED USES OF THIS MACHINE, ITS INSTRUCTIONS AND WARNINGS INDICATED IN THIS BOOKLET.**

4. Safety Information - *continued*

 **Battery Warnings** - Please observe the following warnings when handling batteries.



Machine not suitable for connection to the potable water mains.



Observe the directions on the battery and manufacturers instructions



Wear an eye shield



Keep away children from acid and batteries



Risk of explosion



Fire, sparks, open light and smoking not allowed



Danger of causticization



First aid



Warning note



Disposal



Do not throw the battery in the dustbin

Battery & Charger Safety

Risk of injury! Comply with safety regulations on the handling of batteries. Observe the directions provided by the manufacturer.

 **DO NOT** use the battery if it shows signs of damage/wear or is leaking fluid. In this case, place the battery in a secure location away from flammable materials and arrange for safe disposal.

 **DO NOT** charge the battery outdoors

 **ONLY** use the approved batteries and chargers for this machine.

 **ALWAYS** keep batteries away from other metal objects when storing and transporting them.

 **For more information on the use & disposal of batteries and chargers, please refer to the separate manufacturer manuals supplied with this machine.**

5. Safety Devices

 Safety devices serve to protect the user and machine and must not be rendered in operational or their functions bypassed. Safety devices must not be tampered with by the user as this could result in serious injury and/or damage to the machine.

 **Unloader or Bypass Valve** - Pre-set by the manufacturer, for regulating the working pressure allowing pumped fluid to circulate in the head of the pump when the operator closes the trigger gun. The unloader valve fitted to this pressure washer is a trapped pressure type valve which, when the trigger is closed, maintains pressure in the high pressure line.

 **Trigger Gun Safety Latch** - Safety stop for locking the trigger gun lever in the closed position so it cannot be opened accidentally.

6. Standard Accessories

The WBU8100BAT wheelbarrow pressure washer is supplied with the following accessories. Make sure all the items listed are included when unboxing for the first time.

- High pressure lance assembly.
- Reel mounted 10m high pressure hose.
- Chemical suction kit
- Hose reel and bracket.
- Wheelbarrow trolley handles.
- Miscellaneous accessories and handbooks.

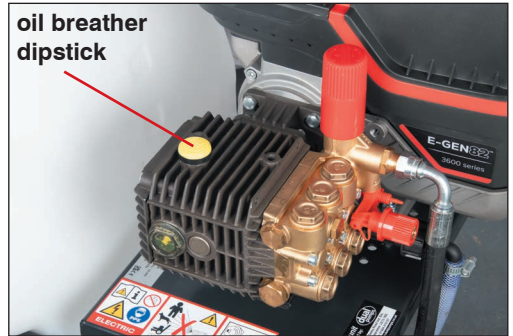
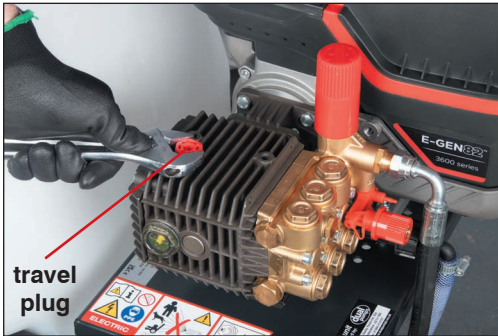
 **In case of transport damage inform vendor immediately. When unpacking the product, make sure that no accessories are missing and that none of the package contents have been damaged.**

7. Pre-Operation Checks and Set Up

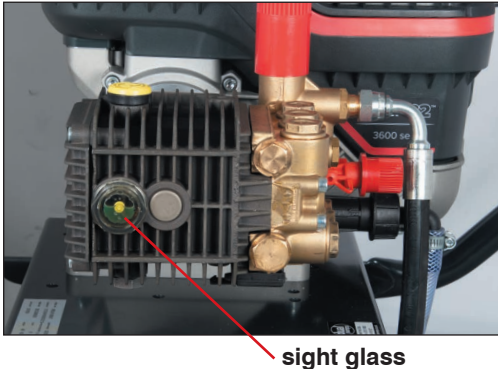
CHECKS

❶ **DAMAGE** - Before each period of use ensure the machine and all components and accessories are complete and undamaged. Take care to ensure the suction hose is kink-free.

❷ **TRAVEL PLUGS** - On the pump REMOVE THE RED TRAVEL PLUG and replace with the appropriate yellow-topped oil breather/dipstick.



❸ **OIL LEVELS** - Check oil level on the sight glass of the pump, the oil should be half way up the sight glass - ensure machine is on a level surface.



Check that the tank inline and suction filters are clean.

7. Pre-Operation Checks and Set Up SET UP

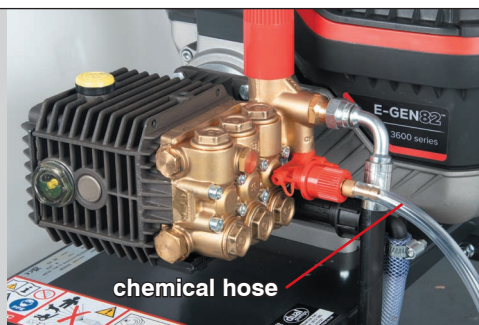
❶ Suction & HP Connection Hose

The suction hose is supplied pre-connected to the pump inlet with hose barb and clip. The high pressure connection hose is pre-connected to the pump outlet. **Ensure all connections are tight and leak free. Air leaks on the suction side will impair the machine performance and damage components.**



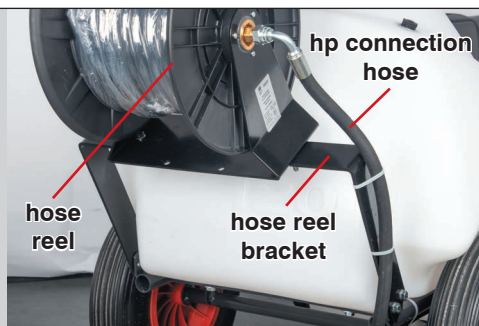
❷ Chemical Hose

If using chemicals to clean with then connect the chemical hose and filter assembly to the chemical injector. Submerge the chemical filter in to a suitable chemical drum. **Effective use of the chemical injector is limited to a maximum of 10M of high pressure hose.**



❸ High Pressure Hose & Reel

Connect the hose reel bracket to the trolley and then the pre-assembled hose reel to the bracket using the fixings supplied. The hose reel is mounted with 10m high pressure hose, attach the high pressure connection hose to the inlet on the high pressure hose reel.



❹ Gun & Lance Assembly

Connect the high pressure hose leading from the hose reel to the lance assembly inlet.

Ensure the trigger gun safety latch is engaged to prevent accidental operation.



8. Battery Installation, Removal & Charging

❶ INSTALL THE BATTERY PACK

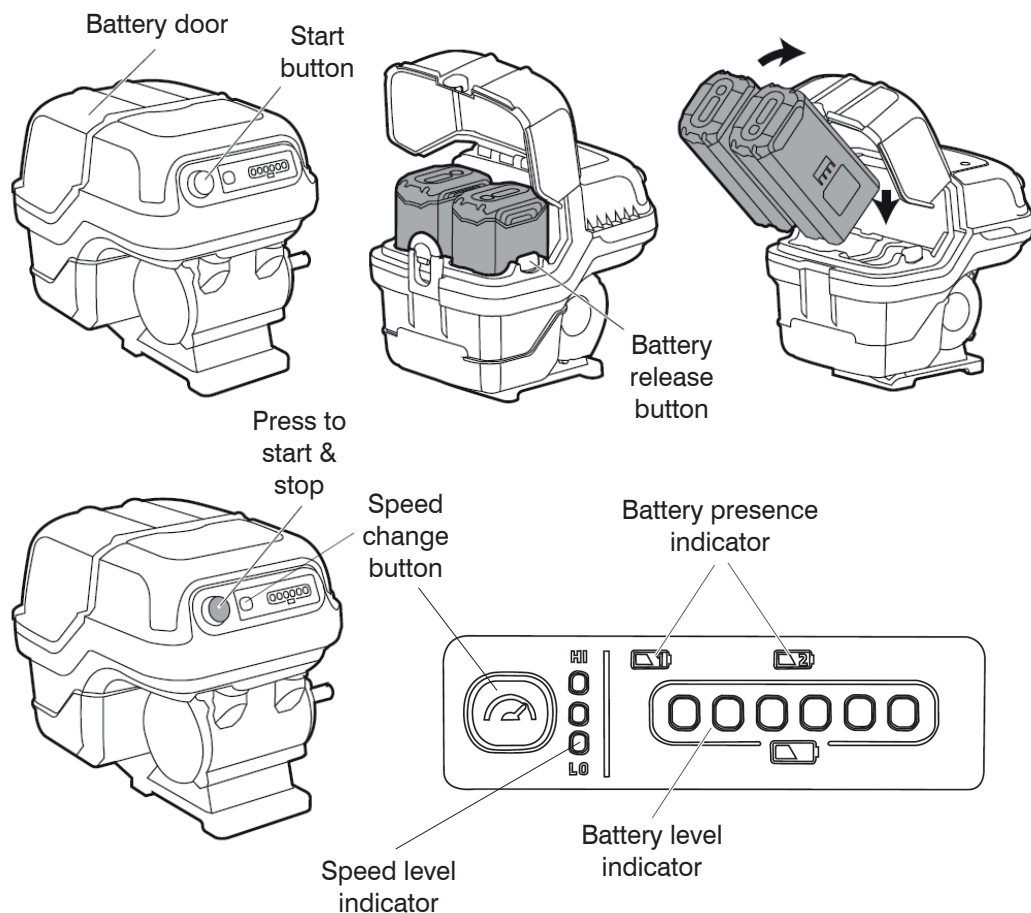
- 1 - Open the battery door.
- 2 - Align the ribs on the battery packs with the grooves in the battery compartment.
- 3 - Push the battery packs into the battery compartment until the battery packs lock into place. When you hear a click, the battery pack is installed.
- 4 - Close the battery door.

❷ REMOVE THE BATTERY PACK

- 1 - Open the battery door.
- 2 - Push and hold the battery release button.
- 3 - Remove the battery pack from the power head.

❸ CHARGE THE BATTERY PACK

- 1 - Refer to the battery charger manual for instruction on how to charge the battery pack.



9. Start Up and Operation



Before starting up and using the machine, make sure that it is positioned on the ground and that the resting surface is level or with a minimum slope.

- 1 - Transfer clean water in to the tank until it is full, or minimum 3/4 filled.
- 2 - Ensure the battery packs are fully charged and correctly installed.
- 3 - Press the **START** button.
- 4 - Press the speed change button to adjust the speed from low to medium or high.
- 5 - Open the gun with nozzle end up and keep in open position to allow air to escape from the hose.
- 6 - Once started, open and close the trigger gun to control the starting and stopping of the pressure water jet.
- 7 - Regulate water pressure by rotating the unloader valve regulator knob.

10. Stopping Procedure

- 1 - **DRAIN PUMP** - Remove the suction hose filter from the water supply tank and drain the water from the pump by allowing the machine to run for a few seconds with the trigger gun open until no water is coming from the high pressure jet.
- 2 - **TURN OFF** - Press the **START/STOP** button on the powerhead.
- 3 - **RELEASE RESIDUAL HIGH PRESSURE WATER** - Pull the trigger gun to release any trapped pressure in the delivery line.
- 4 - **TRIGGER GUN SAFETY LATCH** - Ensure the trigger gun safety latch is engaged to prevent accidental operation.
- 5 - **DISCONNECT** - Remove the battery packs from the powerhead.
- 6 - **COOL DOWN** - Wait for the machine to cool down before transporting.

11. Transporting



During transportation the machine must be secured using suitably rated straps and fixings.



The machine must only be lifted and secured by attaching lifting/security equipment to the main frame. No lifting/security straps should come in to contact with the powerhead, battery packs, pump, valves or filter.

12. Decommisioning and Storage

- **POWERHEAD & LI-ION BATTERIES** - Follow the guidelines in the relevant section of powerhead manufacturer's handbook.
- **HOSES AND ACCESSORIES** - Disconnect hoses and lance assembly. Ensure all water is expelled from hoses and lance, check for damage and store in a manner that will not kink the hose assemblies.
- **PRESSURE WASHER** - Ensure all the water is expelled from the pump.
- **STORAGE** - If storing the unit for any lengths of time it is advisable to flush the system with glycol-based antifreeze before draining the system. Store in a dry, frost-free area.

13. Maintenance Information



Danger – Risk of injury and electric shock

Inspection, maintenance and repairs should be carried out by qualified personnel. Before carrying out any maintenance disconnect the power supply.



Warning – Danger of Trapped High Pressure Fluid

Maintenance and repairs should always be performed by trained and authorised personnel. Ensure the pressure in the high pressure delivery line is released before carrying out any maintenance.



Unloader Valves must only be adjusted and serviced by suitably trained and qualified technicians.



Ensure all steps from the Decommissioning and Storage section have been carried out before starting any work on the machine.



Before carrying out any cleaning, maintenance and/or parts replacement, disconnect the Li-Ion batteries from the powerhead.



Proper maintenance will maximise the length of life of the unit and will improve performance.



Periodically check the conditions of the washer, pressurised parts (pipe, fittings, lance) and the battery powerhead and Li-Ion batteries.



Regularly check the battery powerhead and Li-Ion batteries, making sure they are securely connected.



Check for any water or oil leaks and/or malfunctions. If necessary, replace affected parts. Contact your sales agent in the event of any doubts.



Refer to the powerhead manufacturer's handbook for specific maintenance and service schedules.



Refer to the individual component user manuals for recommended maintenance tasks & schedules. Contact your sales agent should any manuals not be included.

14. Pressure Washer Maintenance Schedule

Activity	Each/ First Use	3 months or first 50 Hours	12 months or 250 hours
Inspect / top up oil levels Pump	*		
Change Oil Pump (SAE15W/40 Pump Oil)		*	*
Water Suction Filter Clean tank mounted water inlet filter	*	*	
Inspect high-pressure hose and its connection for tightness and damage	*		
Inspect suction hose and its connections for tightness and damage	*		
High Pressure Jet Inspect Change	*		*

15. Troubleshooting

Symptom	Possible Cause	Remedy
Pump running normally but pressure low.	Pressure Regulator valve Pump sucking air.	Check and adjust. Check water supply and possible air ingress.
	Lance in low pressure mode.	Check and adjust.
	Nozzle worn.	Check and/or replace.
	Worn piston packing.	Seek professional advice.
Fluctuating pressure	Blocked water filter.	Check filter, clean or replace if necessary.
	Pump sucking air.	Check integrity of suction hose and connections.
Pressure low after a long period of normal use.	Nozzle worn.	Check and/or replace.
Pump noisy.	Pump sucking air.	Check integrity of suction hose and connections.
	Excessive temperature of liquid in pump.	Reduce temperature to below 60°C, do not allow pump to idle for long periods.
	Blocked water filter.	Check filter, clean or replace if necessary.
	Worn bearing or valves.	Seek professional advice.
Presence of water in oil.	Ingress through oil breather. Worn oil seals.	Replace oil, do not wash pump. Seek professional advice.
Water dripping from under pump.	Worn piston packing.	Seek professional advice.
Oil leakage	Worn oil seal.	Replace oil seal.
Excessive vibration in lance/delivery line.	Water supply low.	Check adequacy of water supply. Ensure suction filter is below water level.
	Ingress of air into suction line.	Check integrity of suction hose and connections.
	Irregular functioning of valves.	Seek professional advice.
	Blocked water filter.	Check filter, clean or replace if necessary.
The machine will not start.	The batteries are not inserted.	Check the connection between batteries and battery port.
	The batteries are not charged.	Charge the batteries.
	The Start/Stop button is faulty.	Seek professional advice.
	Batteries may need a service or replacement.	Replace the batteries.
The power unit is excessively noisy or vibrating.	The motor shaft is bent.	Stop the power unit and inspect for damage.
The machine stops during use.	The motor has been overloaded.	Stop the unit and leave to cool before restarting.
	The batteries are flat.	Recharge the batteries.

16. Disposal and Environmental Protection



The packaging material can be recycled. Please do not throw the packaging material into household waste; please send it for recycling.

Old appliances contain valuable materials that can be recycled; these should be sent for recycling. Batteries, oil, and similar substances must not enter the environment. Please dispose of your old appliances using appropriate collection systems. Please do not release engine oil, fuel oil, diesel and petrol into the environment. Protect the ground and dispose of used oil in an environmentally-clean manner. For more information on the disposal of the powerhead, batteries and chargers, please refer to the separate manufacturer manuals.

17. Warranty Information

For warranty terms refer to Section 7 of our Terms and Conditions:
Scan the QR code OR visit: www.dualpumps.co.uk/company/legal



18. UKCA & EC Declaration of Conformity

Declaration of Conformity

Equipment Type

High pressure cleaner - Battery Driven

Relevant UKCA Directives

Supply of Machinery (Safety) Regulations 2008 | Electrical Equipment (Safety) Regulations 2016

Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001

Relevant EU Directives

2006/42/EC - Machinery Directive

2014/35/EU - Low Voltage Directive

2011/65/EU - RoHS Directive

2000/14/EU - Noise Emissions Directive

2014/30/EU - Electromagnetic Compatibility (EMC) Directive

Applied Harmonised Standards

EN60335-1-2012-A13-2017

EN1829-2-2008

EN60335-2-79-2012

EN4871-2009

EN1829-1-2010

Manufacturer

Dual Pumps Ltd, Saxby Road Industrial Estate, Melton Mowbray, LE13 1BS. United Kingdom

Person authorised to compile the technical file & declaration

Tom Herridge, Director

Signed –

A handwritten signature in blue ink, appearing to read 'TH', located next to the 'Signed –' text.

Date – 13/04/2026

We hereby declare that the machinery described above complies with the relevant basic health and safety requirements of the UKCA & EU Directives, both in its' basic design and construction. This declaration shall cease to be valid if the machine is modified without our prior approval.



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