WARNING!

Read this Operator's Manual carefully before using this machine. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.

READ CAREFULLY

JETWAVE®

HIGH PRESSURE CLEANERS

EXECUTIVE™ SILENT

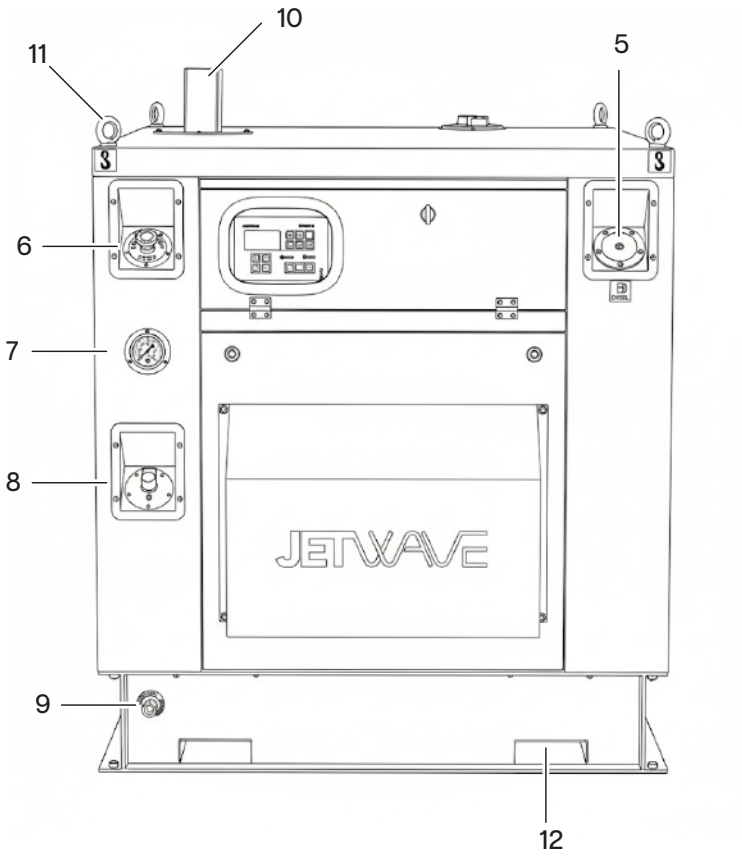
HIGH PRESSURE WATER CLEANER

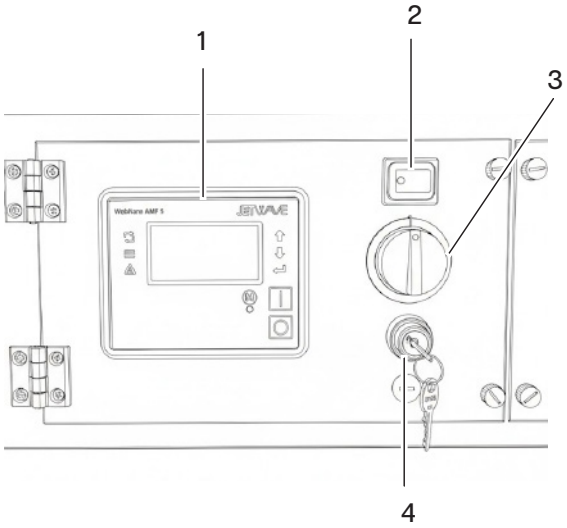
Hot Water Diesel Driven

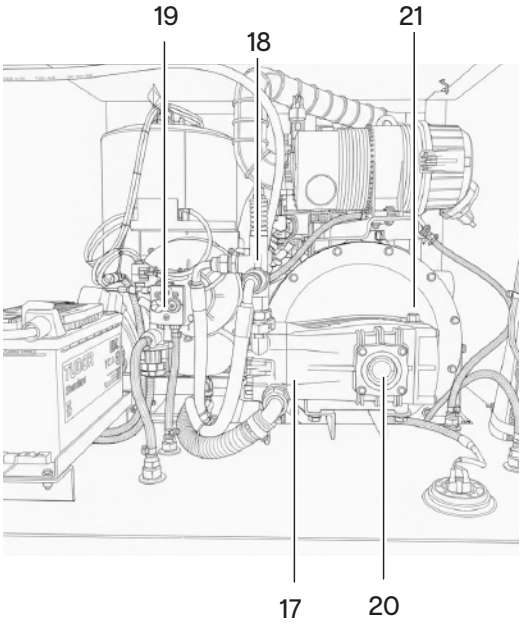
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UNIT SERIAL NO.	
ENGINE SERIAL NO.	
PURCHASE DATE	

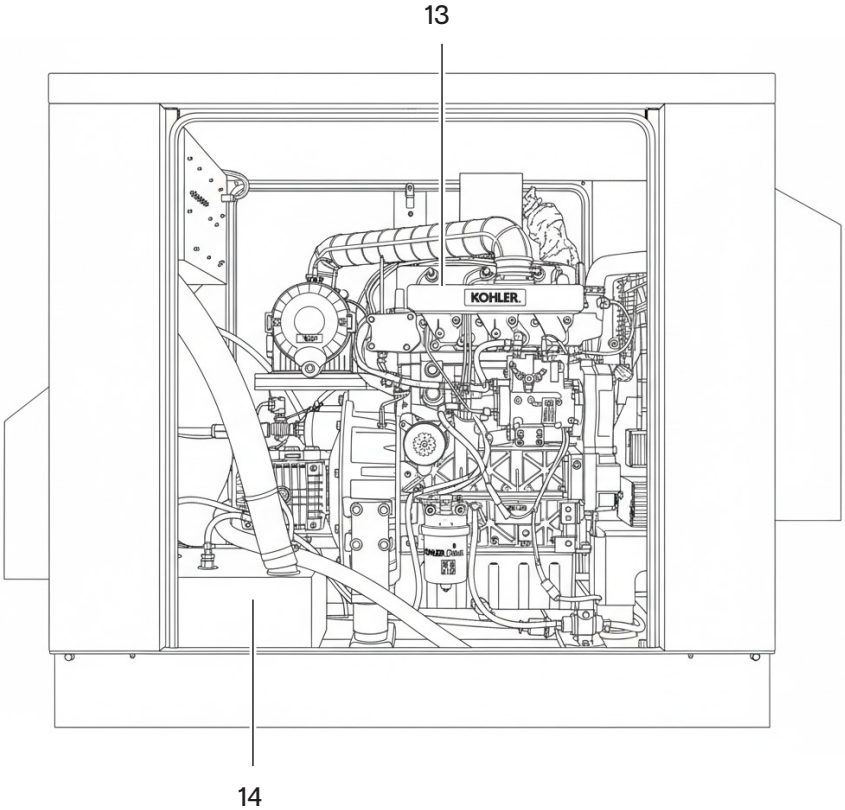


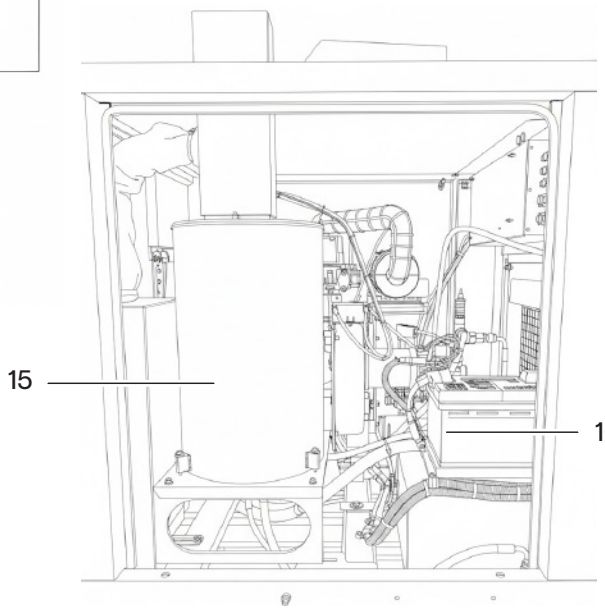
ENGLISH VERSION

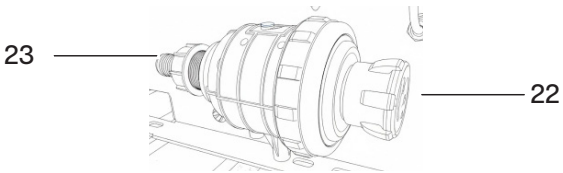








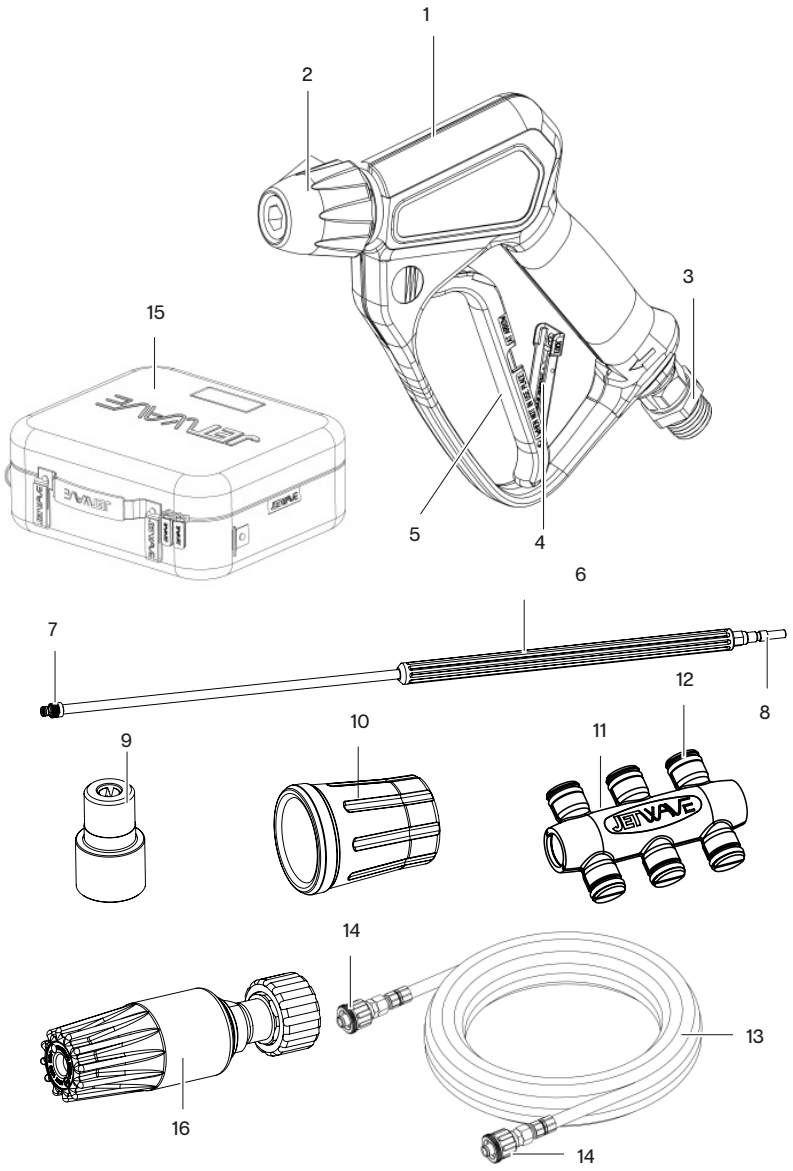




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Executive Silent

1. InteliUMS Control Panel
2. Burner Switch On/Off
3. Thermostat
4. Key start
5. Diesel Fill Point (Lockable)
6. Emergency Stop
7. Pressure Gauge
8. Battery Isolator
9. High Pressure Outlet
10. Exhaust
11. Top Lift Points
12. Forklift Pockets
13. Kohler Diesel Engine
14. Common Fuel Tank
15. Burner Housing
16. Battery
17. Triplex Plunger pump
18. Unloader Valve
19. Burner Fuel Pump
20. Pump Oil Site Glass
21. Pump Oil Dipstick
22. Water Inlet Filter
23. Low Pressure Inlet



Standard Equipment

1. J5500K High Pressure Spray Gun
2. J5500K Quick Front Lance Coupling
3. High Pressure Hose Connection
4. Gun Lock Out
5. J5500K LTF Spray Gun Trigger
6. JW Lance with insulation
7. JetBlade Screw Fitting with o-ring
8. Lance Connection Tail
9. JetBlade High Pressure Nozzle
10. Nozzle Protector
11. JetBlade Plastic Nozzle Holder
12. Spare O-Rings
13. High Pressure Hose Assembly
14. M22 Screw fittings
15. G2 Wash Case Storage
16. Optional Turbo Nozzle with Jetblade adapter

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*Original Instructions - English

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Safety Symbols

In this operator's manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE indicates information that relates to the protection NOTICE of property.



This symbol means read the operator's manual carefully before using the equipment to reduce the risk of injury. The operator's manual contains important information on the safe and proper operation of the equipment



This symbol means according to applicable regulations the machine must not be connected to a drinking/potable water supply without a system separator per EN 12729 Type BA. Water flowing through a system separator is considered non drinkable



This symbol indicates that high pressure jets can be dangerous if improperly used the jet must not be directed at persons animals, live electrical equipment or at the appliance itself.



This symbol indicates the risk of fire and explosion from gasoline or other sources causing burns and other injury.



This symbol indicates the risk of breathing carbon monoxide and causing nausea, fainting or death. Risk of poisoning do not breathe in exhaust fumes.



This symbol indicates the risk of loud noises from the machine, causing a risk to hearing impairment, always use proper ear protection, while working with the machine.



This symbol means always wear safety glasses with side shields or goggles when handling or using this equipment to reduce the risk of eye injury.



This symbol indicates the risk of high pressure water directed at body parts, causing skin puncture and injection injuries.



These symbols indicate a risk of burns and hot surfaces, be aware of hot components.

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General Safety Rules

⚠ WARNING

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

SAVE THESE INSTRUCTIONS!

Work Area Safety

- Keep work area clean and well lit.
- Keep bystanders, children, and visitors away while operating a pressure cleaner. Distractions can cause you to lose control.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a pressure cleaner. Do not use a pressure cleaner while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating pressure cleaners may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry.
- Contain long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the pressure cleaner in unexpected situations.
- Use safety equipment. Always wear eye protection.
- Dust mask, non-skid safety shoes, hard hat, eye + face protection or hearing protection must be used for appropriate conditions will reduce personal injuries.

Pressure Cleaner Use and Care

- Do not force the pressure cleaner.
- Store idle pressure cleaners out of the reach of children and other untrained persons. Pressure cleaners are dangerous in the hands of untrained users.
- Maintain pressure cleaners with care.
- Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the pressure cleaners operation. If damaged, have the pressure cleaner serviced before using. Many accidents are caused by poorly maintained pressure cleaners.

Use only accessories that are recommended by the manufacturer for your model and pressure & flow rated accordingly.

Service

- Pressure cleaner service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a pressure cleaner, use only Jetwave genuine replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electrical shock or injury.

High Pressure Cleaning Safety

⚠ WARNING

This section contains important safety information that is specific to this pressure cleaner.

Read these precautions carefully before using this Cleaning Machine to reduce the risk of electrical shock or other serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!

Keep this manual with machine for use by the operator.

- Never operate the unit without a pressure control mechanism Hoses can whip, causing striking injuries and spray can penetrate skin and cause serious injury.
- High pressure water can inject under skin resulting in serious injury including amputation. Do not direct spray at people or animals.
- Do not operate unit above the rated working pressure or 60°C (inlet water temperature). This increases the risk of injury, including burns, and damage to the unit.
- One person must control the high pressure cleaning process and water flow.
- Always use appropriate personal protective equipment while handling and using high pressure cleaning equipment. Appropriate personal protective equipment (PPE) includes safety glasses and gloves, and may also include equipment such as latex or rubber gloves, face shields, goggles, protective clothing, respirators, head protection, hearing protection and steel toed footwear.
- Practice good hygiene.
- Do not eat or smoke while operating or handling high pressure cleaning equipment. This will help prevent contamination with toxic or infectious material.
- Do not spray toxic or flammable liquids. This will reduce the risk of burns, fire, explosion or other injury.

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- Fuel and its vapors are highly flammable and explosive. See engine manual for precautions to reduce the risk of burns, explosions and serious injury while handling and using fuel.
- Engines produce carbon monoxide, a colorless, odorless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Do not start and run engine in an enclosed area, even if doors and windows are open. Only operate outside.
- Never attempt to refuel the unit whilst engine is running. Do not spill fuel on or near exhaust take extra care in the refueling process as vapors or liquid can combust due to heat.
- Hot surfaces can cause burns and fire. Keep body parts and flammable material away from hot surfaces.
- Read and understand this manual, the engine manual and the warnings and instructions for all equipment and material being used with this tool before operating. Failure to follow all warnings and instructions may result in property damage and/or serious injury.
- Follow all applicable workplace health and safety regulations and guidelines concerning the use of this equipment.
- Read and understand Australia/New Zealand standard AS/NZS4233.1:13 High Pressure Water Jetting Systems Part 1: Safe Operation & Maintenance.

If you have any question concerning this Jetwave® product:

– Contact your local Jetwave® distributor.

– Visit jetwave.com.au/find-a-dealer to find your local Jetwave contact point.

Description, Specifications and Standard equipment

Description

The Jetwave® Executive Silent™ is a diesel combustion engine powered Hot Water High Pressure Cleaner machine its designed to use a combination of water pressure, heat and flow to clean different surfaces from dirt, grease, oil & grime. Water is pumped through the high pressure plunger pump & boiler at increased pressure and flow allowing water to be used at such high pressure to remove dirt and grime from surfaces. The Executive Silent™ High Pressure Cleaner is equipped with a diesel powered KOHLER™ engine to drive the triplex pump.



Figure.1 - Executive Silent



Figure.2 - Executive Silent Data Plate

Standard equipment

A Jetwave Executive™ Silent High Pressure Cleaner comes with:

- High Pressure JW Gun
- Straight single JW Lance
- 10m of DWB 3/8" high pressure hose
- Engine Operator's Manual
- Operator's Manual

See the Jetwave® catalogue for specific equipment supplied with each catalogue number.

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The machine serial number is located inside the machine.

NOTICE This machine is made to high pressure water clean. If properly used it should not damage surfaces that is in good condition and properly designed, constructed and maintained. If the surface is in poor condition or not properly designed, constructed or maintained, the water cleaning process may not be effective or could cause damage to the surface. The best way to determine the condition of a surface before cleaning is through visual inspection.

Improper use of this pressure cleaner can damage the unit and the surface. This machine may not clean all substrate debris.

Machine Assembly

⚠ WARNING

To prevent serious injury during use and prevent machine damage, follow these procedures for proper assembly.

Engine Oil

NOTICE The unit is shipped with oil in the engine. Operating the engine with low or no oil will result in engine failure. See supplied engine operator's manual for specific information on checking oil, adding oil and oil selection.

Pump

The unit is shipped with oil in the pump (note/breather may not installed, please check).
Check oil level (ensure half way on sight-glasses) per Maintenance section.

Pre-Operation Inspection

⚠ WARNING



Before each use, inspect your pressure cleaner and correct any problems to reduce the risk of serious injury from high pressure water and other causes and prevent unit damage.
Always wear appropriate safety equipment, when inspecting your unit.

1. Make sure that the battery isolator (if applicable) and engine switch is in the OFF position.
2. Clean any oil, grease or dirt from the equipment, including the handles and controls. This aids inspection and helps prevent the machine or control from slipping from your grip.
3. Inspect the high pressure cleaner and accessories for the following:
   - Proper assembly and completeness.
   - Broken, worn, missing, misaligned, binding or loose parts.
   - Presence and readability of the warning labels. (See Figure 3.)
   - Any other condition which may prevent the safe and normal operation.

If any problems are found, do not use the unit until the problems are corrected.



Figure.3 - Executive Silent Warning Labels

Clean water filter (Figure 4). Unscrew the housing from the filter and remove and clean the mesh filter. Dirt and debris can restrict the water flow to the pump and cause performance issues. WARNING Ensure O-Rings are put back into place properly.

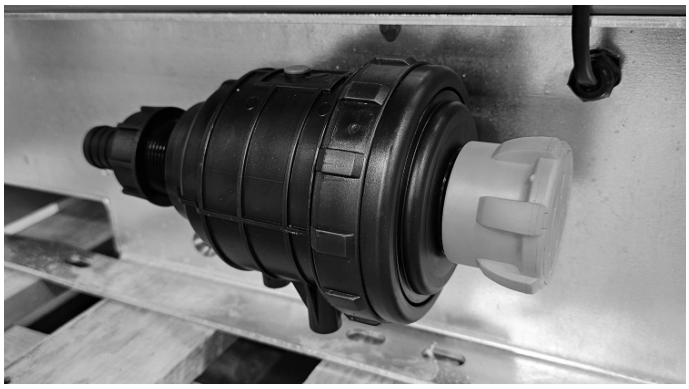


Figure.4 - Executive Silent Water Filter

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4. Inspect the pressure cleaner nozzle orifices for any damage or blockage. Blockages can be cleaned with a nozzle cleaning tool. Use care not to enlarge nozzle orifices while cleaning. Damaged nozzles or nozzles with enlarged orifices can decrease unit performance and should be replaced.

5. Inspect the hoses, connectors and fittings for wear and damage. If there are any kinks, cracks, breaks or wear through the outer jacket of the hose or other damage, do not use the hose. Damaged hoses can burst or leak high pressure water and cause serious injury. Replacement hoses and fitting should be rated at or higher than the unit pressure and temperature rating.

6. Inspect and maintain the engine per the engine operator's manual.

7. Check common fuel tank level. If needed, add diesel fuel. See engine operator's manual for requirements. Use caution when handling fuel. Work in a well ventilated area. Never fill the tank while unit is running or hot, do not overfill tank and do not spill fuel. Make sure tank cap is securely closed.

8. Diesel burner uses common fuel tank with engine, if needed add diesel. Use caution when handling fuel. Work in a well ventilated area. Never fill the tank while unit is running or hot, do not overfill tank and do not spill fuel. Make sure tank cap is securely closed. Ensure burner on/off button is located in off position and thermostat dial is set to 0° C / off position.



Figure.5A - Diesel fired burner fuel supply tank

9. Check the oil level(s) in the pump through the sight glass and add oil if needed (see Maintenance Instructions section). Inspect Engine as directed in the engine operator's manual.



Figure.5B - Burner on/off button and thermostat location

Machine and Work Area Set-up

⚠ WARNING



Always wear safety glasses, gloves and other appropriate protective equipment when setting up your pressure cleaner. Rubber soled, non-slip shoes can help prevent slipping on wet surfaces.
Engines and burners produce carbon monoxide, a colorless, odorless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Do not start and run engine in an enclosed area, even if doors and windows are open. Only operate outside.

Set-up the unit and work area according to these procedures to reduce the risk of injury from high pressure water, chemical burns, infections, carbon monoxide and other causes, and prevent unit damage.

1. Check work area for:
   - Adequate lighting.
   - Flammable liquids, vapors or dust that may ignite. If present, do not work in area until sources have been identified and corrected. The machine is not explosion proof and can cause sparks.
   - Clear, level, stable dry place for machine and operator.
   - If needed, remove the water from the work area. Wood or other coverings may need to be put down.
   - Unit location that is in a well ventilated outdoor area. Do not place the unit indoors, even with doors and windows open. Unit can be located remotely from the point of use.
   - Suitable water supply. Clear path to transport the unit to the set up location.
2. Inspect the surface to be cleaned, and make sure no materials or elements are in the way of the unit.
3. Determine the correct equipment for the application.
4. Make sure all equipment has been properly inspected.
5. Evaluate the work area and determine if any barriers are needed to keep bystanders away. Bystanders can distract the operator. If working near traffic, erect cones, signs or other barriers to alert drivers.
6. Take the unit to the well-ventilated outdoor work area along the clear path. See Transportation Section. Be aware of possible slip hazards. Wear appropriate footwear to help prevent slips.

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Water Supply



According to the applicable regulation, the appliance must never be used on the drinking water supply without a system separator. Use a suitable system separator as per EN 12729 Type BA. Water flowing through a system separator is considered non-drinkable

Run a hose from the water source to the unit water inlet. Use the largest diameter, shortest length hose possible. A 1" I.D. Inlet hose is the minimum recommended size.

Dirt and debris in the water supply can cause excess pump wear, clog the unit filter, nozzles and reduce performance.

Do not use water from ponds, lakes or other sources that may be contaminated.

Fill the water tank prior to starting the unit (If Applicable).

The water tank is equipped with a:

- Low water level shut-off (If Applicable) to prevent pump damage from insufficient water. This will shut OFF the engine when the tank water level falls below a predetermined level.
- Float valve to shut-off inlet water when the tank is full, preventing water spillage through the tank vent.

Warm water can be used for improved cleaning. Do not use water hotter than 60°C. When using warm water, use appropriate personal protective equipment to reduce the risk of burns.

When using in cold weather, use precautions to prevent water from freezing in the pump. This can damage the pump.

Hose Set-Up

Use care when routing hoses. Routing hoses over rough surfaces, sharp edges, crossing hoses, etc. can damage the hose jacket. Keeping the unit hose on the reel(s) will help to minimize hose damage.



Figure 6. High pressure outlet sticker



Figure 7. Low pressure inlet sticker

Operating Instructions



Always wear eye protection to protect your eyes against dirt and other foreign objects. Always wear appropriate personal protective equipment for the work environment.

Never operate the unit without the hose attached to a spray gun. Hose can whip, causing striking injuries and spray can penetrate skin and cause serious injury.

High pressure fluid can inject under skin resulting in serious injury, including amputation. do not direct spray at people or animals. do not operate unit above pressure rating. This increases the risk of injury, including burns, and damage to the unit. One person must control the unit process and water flow.

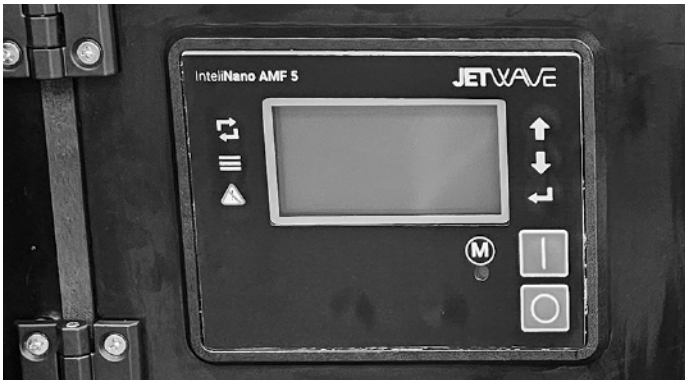
Always use appropriate personal protective equipment while handling and using high pressure cleaning equipment. Appropriate personal protective equipment always includes safety glasses and gloves, and may also include equipment such as latex or rubber gloves, face shields, goggles, protective clothing, respirators, and steel toed footwear.

Follow operating instructions to reduce the risk of injury from whipping hoses, high pressure liquid injection, carbon monoxide and other causes.

1. Make sure that machine and work area is properly set up and that the work area is free of bystanders and other distractions. If the unit is located remotely from the point of use, another person may be located at the unit.
2. Attach the gun to the high pressure hose via coupling system.
3. Attach the hose to the high pressure pump/valve/facia outlet.
4. Turn the battery isolator switch ON and confirm the Emergency stop button is in the out position (rotate button clockwise).
5. Confirm that the water supply is attached and turned on to low pressure pump/facia inlet. Never start the engine without the water supply turned ON. This can damage the pump.
6. Wash Wand Lock Out – the wash wand includes a lock out on the back of the trigger. Flip the lock out down to prevent the operation of the trigger when the wash wand is not in use.

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7. Ensure key is inserted and turned into the on position, then bush the green START button, a preheating operation will happen then the engine will start once this operation has complete. (Ensure InteliUMS LCD Screen is in MAN mode and ensure any faults have been cleared and checked)
8. With the wand pointed in a safe direction, unlock the lock and then squeeze the wash wand trigger. Do not exceed the machine pressure rating. Release the wash wand trigger to stop cleaning
9. Hot water burner operation: Wait 30 seconds with the engine running then press the hot water button, rotate the thermostat to your desired temperature. Please note that once the gun trigger is pulled the burner system will incur a delay in startup (this is a protection feature) wait approx. 1 (one) minute for burner system to engage and begin to produce hot water from the nozzle. (NOTE: If boiler is cold hold down the gun trigger and let water run through the boiler for at least 2 minutes to allow the burner to heat up this will avoid damaging the boiler electrodes.



If the unit will not generate the rated pressure or is erratic;

- Make sure the engine throttle is properly adjusted to the full open position (If applicable).
- Turn unloader valve clockwise to increase pressure. Do not force (If applicable).
- Inspect system for leaks. Use caution during inspection to prevent injury. If leaks are found, shut unit OFF before fixing.
- Ensure the front part lance with nozzle is connected.
- Turn the unit OFF. Check the inlet hose and filter and make sure that they clear of debris.
- Make sure there is adequate water flow to the unit.
- Turn the unit OFF. Remove the nozzle and clean the orifices with the nozzle cleaning tool.
- Ensure correct nozzle orifice size is used and no signs of excessive wear are evident.
- Activate trigger and run the unit to remove air or debris from the system. Turn the unit OFF before removing or attaching the lance/nozzle.

Pressure Washer Operator Specifics

You must be able to place one hand on the gun at all times to control and support the lance. Assume proper operating position for long term ergonomics.

This operating position will help to maintain control of the gun and lance.

1. When using pressure washer use both hands to grip and direct the wash wand for greater control. Never direct the wash wand at people. High pressure fluid can inject under skin resulting in serious injury. Never direct wash wand at electrical equipment or wiring to reduce the risk of electrical shock.
2. Caution when hot water is in operation hoses fittings and lances become hot, take relevant measures to prevent burns and any injuries e.g hose sleeves and appropriate PPE.
3. Control the flow of water with the trigger. Use care when using the pressure washer. Holding the nozzle too close to a surface can damage it. Test a small, inconspicuous area to confirm the settings work as desired.

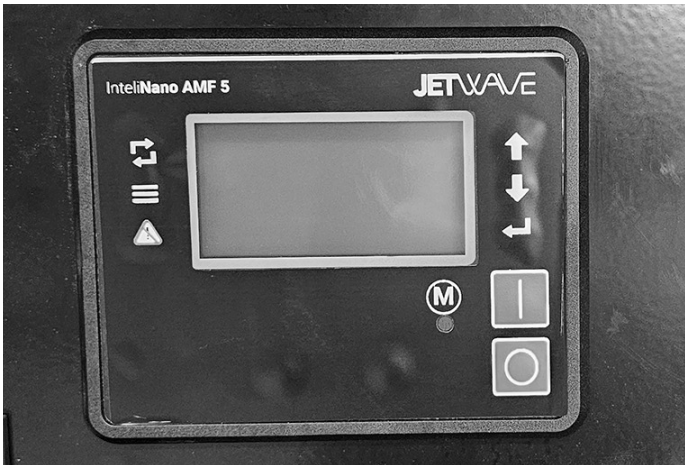
Machine Shut Down Procedure

1. When high pressure cleaning task is complete, release high pressure trigger and return to the unit controls with gun and spray lance.
2. Dial the thermostat to 0° C / off position. Proceed to press burner button to off position.
3. Burner cool down procedure: Continue to spray gun at ground to allow water through the system until front part of metal lance can be touched safely, without risk of burning the operator.
4. Press the RED stop button on the InteliUMS Controller, a cool-down phase will now initiate, machine will automatically turn off after cool-phase is complete, then ensure key is in the off position. (In an emergency use the EMERGENCY STOP button to completely shut down the unit)
5. Turn water supply OFF.
6. Release system back pressure by pressing the trigger on the spray gun (if applicable). This is very important as it is dangerous to leave pressure in the line.
7. Disconnect high and low pressure hoses and coil the assembly for safety and proper storage.
8. Turn battery isolator to off position

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InteliUMS™ Instructions

The Jetwave Executive Silent™ is controlled by our InteliUMS™ digital display system. Each control and button is detailed below.



START BUTTON Press this button in MAN mode to initiate the start sequence of the engine.

STOP BUTTON Works in MAN mode only. Press this button to initiate the stop sequence of the engine. Repeated pressing or holding the button for more than 2seconds will cancel current phase of stop sequence (e.g cooling) and next phase will continue.

MENU BUTTON Use this button (short press) to switch over measurement screens. This button (long press) is also used for switching over display pages.

MODE Use this button to change the MODE from MAN to AUTO & vice versa.

UP & DOWN Use this button to go up or down on the menu.

ENTER BUTTON Use this button to finish editing a set point or moving right in the history page.

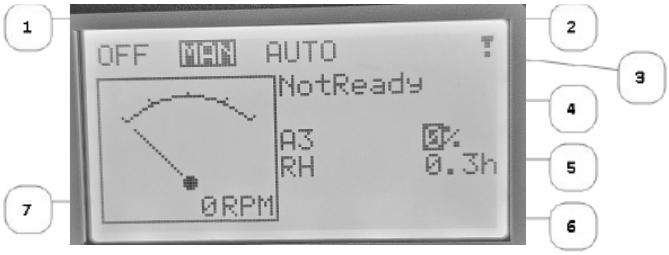
FAULT RESET Use this button to acknowledge alarm and clear fault alarms.



LED: STATE OK GREEN, **RED LED** starts flashing when fault occurs, after fault reset button is pressed red led goes to steady light (if alarm is still active) or is off (if no alarm is active)

Main Measurement Screen

The main measurement screen below will show live data read outs.



1. Operation mode of the engine
2. Indication: “L” = Access lock, “!” = active Alarm
3. Status of the engine
4. AIN1 - Oil Pressure
5. Fuel level percentage
6. Unit Operation Run Hours
7. Current Engine RPM

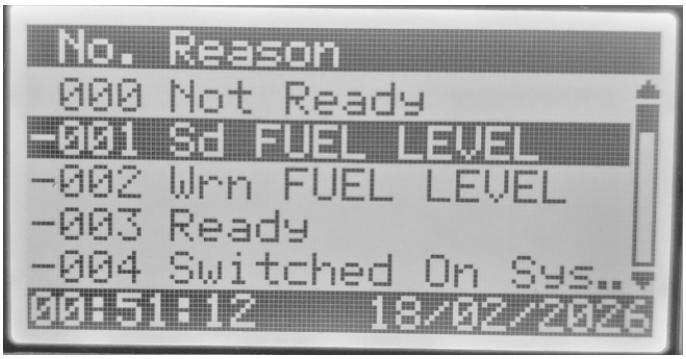
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List of possible alarms

WRN = Machine Warning (will not shutdown)

SD = Machine Shut-Down

Events Specification	Protection Type	Description
Wrn Oil Press	WRN	Oil pressure is low.
Sd Oil Press	SD	No oil pressure.
Wrn Fuel Level	WRN	Fuel level is below 10%.
Sd Fuel Level	SD	Fuel level is below 5%.
Ubat	WRN	Battery voltage below 10.0v DC.
Battery Flat	SD	If the controller switches off during starting sequence due to bad battery condition it doesn't try to start again and activates this protection.
RPM meas fail	SD	Engine asking to read correct RPM for whatever reason RPM tp picked up.
Overspeed	SD	Engine RPM above 3600RPM.
Underspeed	SD	During starting of the engine when the RPM reached the value of Starting RPM setpoint the starter is switched off and the speed of the engine can drop under Start RPM again. Then the Underspeed protection becomes active. Protection evaluation starts 5 seconds after reaching StartingRPM.
EmergencyStop	SD	Emergency stop active.
Stop fail	SD	Engine stop failed, when not meant to.
WrnServiceTime	WRN	Machine done 50hr since last service.
ChrgAlternFail	WRN	Failure of alternator for charging the battery.
Low Water Level	SD	Water tank level low
Pump Pressure	SD	Pump pressure over 5800psi (if applicable)
Common Engine Fault	WRN	Fault in engine



Fault screen list example

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Transportation and Storage

1. Turn off the battery isolation switch.
2. Drain water from unit as needed.
3. Coil hoses and secure equipment appropriately. All loose material must be removed.
4. Unit weighs 633 (approx.) Use appropriate equipment and methods to load and transport.

Maintenance Instructions

⚠ WARNING

Before performing any maintenance, engine switch battery isolation switch should be in OFF position and spark plug wires should be disconnected to prevent inadvertent operation. Open water control valve to release any fluid pressure in system.

Always wear safety glasses and gloves when performing any maintenance to help protect against bacteria.

Cleaning

The hose should be cleaned as needed with hot, soapy water and/or disinfectants. Do not allow water to enter the engine or electrical system. Do not clean with pressure washer. Wipe the unit down with a damp cloth.

Engine

Maintain the engine as directed in the engine operator's manual supplied with the unit. An hour meter is included on the engine to monitor pressure cleaners use.

Battery

Safety notes regarding the battery
Please observe the following warning notes when handling batteries.


Observe the directions on the battery, in the instructions for use and in the vehicle operating 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 into the bin.

Danger

Risk of explosion! Do not put tools on the battery, i.e. on the terminal poles and cell connectors.

Danger

Risk of injury! Ensure that wounds never come into contact with lead. Always clean your hands after having worked with batteries.

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To change battery

1. Unclip strap (if applicable) holding battery box top on, remove top.
2. Disconnect ground (-) cable connection first, followed by positive (+) cable connection.
3. Remove battery.
4. Reverse procedure to install.

Note: Before removing the battery, make sure the negative pole lead is disconnected. Check that the battery pole and pole terminals are adequately protected with pole grease.

Replacement batteries should have the following specifications:

- Size (L x W x H): 278 x 175 x 190 (mm)
- Voltage: 12v
- Cold Cranking Amps (CCA): 640
- 70 Ah
- Terminal Type: Standard - +
- Technology: Flooded

Pump Lubrication/Maintenance

Check the pump oil level prior to each use. Place the unit on a level surface. Wipe any dirt and debris from the area of the dipstick and sight-glass. Oil level should be at the middle of the sight-glass (Figure 9). If needed, remove the dipstick and add SAE 15W-40 Mineral non-detergent oil, fill to half-way on the sight-glass. Do not overfill, reinstall dipstick.

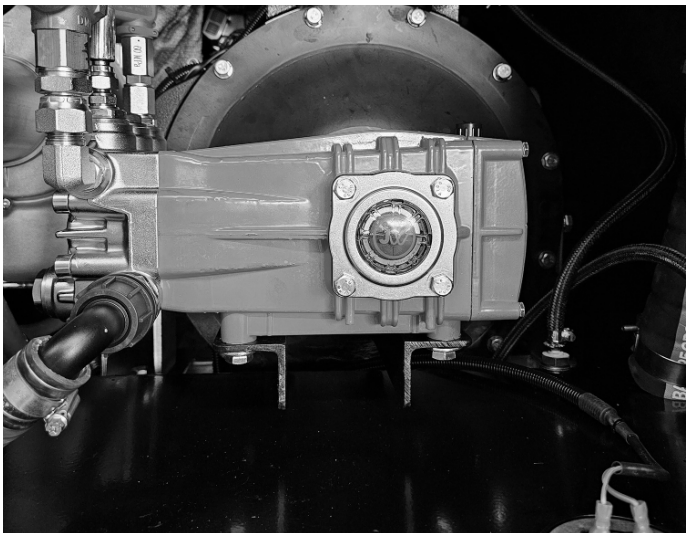


Figure.9 - Checking Pump Oil Level

Change oil in pump after first 50 hours of operation and every 250 hours of operation after that. With the pump warm from operation, remove plug on bottom of pump and drain oil into suitable container. Replace plug. Fill to approximately half-way on the sight-glass with SAE 15W-40 Mineral non-detergent oil using the checking procedure. Approximately 1000mL of oil are required to change the pump oil.

At 1000 hours of use (less in severe use conditions) the Executive Silent should be taken to a Jetwave Independent Service Center for pump seal and valve service.

Preparing Pump for Cold Weather Storage

If the unit will be stored under conditions where the temperature is near or below 0°C, the unit must be properly prepared. If water freezes in the pump, it can damage it.

After the tank is drained (if applicable), remove the hose from the water inlet. Open all valves in the system and use compressed air to force any water out of the system also flush device with anti-freezing agent to prevent freezing during cold weather storage.

Machine Storage

Store the unit in a well ventilated area protected from the weather elements. Keep the machine in a locked area that is out of reach of children and people unfamiliar with High Pressure Cleaners. This machine can cause serious injury in the hands of untrained users. See Maintenance section for information on cold weather storage. See engine operator's manual for specific information on engine storage.

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Service And Repair

⚠ WARNING

Improper service or repair can make machine unsafe to operate.

The “Maintenance Instructions” will take care of most of the service needs of this machine. Any problems not addressed by this section should only be handled by an authorized Jetwave service technician.

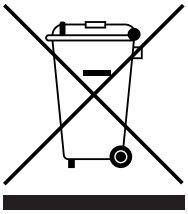
High Pressure Cleaner should be taken to a Jetwave Independent Service Center or returned to the factory.

For information on your nearest Jetwave Independent Service Center or any service or repair questions:

- Contact your local Jetwave distributor.
- Visit jetwavegroup.com.au/find-a-dealer/ to find your local Jetwave contact point.
- Contact Jetwave Technical Service Department at service@jetwave.com.au or call (08) 8371 3599

Disposal / Environmental Protection

Parts of the High Pressure Cleaner contain valuable materials and can be recycled. There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations. Contact your local waste management authority for more information.



Please do not release engine oil, pump & gearbox oil, diesel and petrol into the environment. Protect the ground and dispose of used oil in an environmentally-clean manner.



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

Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements of the EU Directives listed below, both in its basic design and construction as well as in the version put into circulation by us. This declaration shall cease to be valid if the machine is modified without our prior approval

Product: High pressure cleaner

Trade Name: Executive Silent

Relevant EU Directives
2006/42/EC
2000/14/EC

Relevant AS/NZS Directives
60335.5.2.79
4233.1:2013
4233.2:2013

Applied standards
EN 1829 -2

Applied conformity evaluation method
2000/14/EC: Appendix V
Sound power level dB(A)
Executive Silent
Measured: 72
Guaranteed: 74

The signatories act on behalf of and with the authority of the company management.



L. Seco
Business Director

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ACN: 056 759 892

The manufacture reserves the right to modify design features and technical facts without notice: due to our principals of continuous improvement.

Type		Executive Silent 275-20	Executive Silent 280-31	Executive Silent 345-16	Executive Silent 350-23
Code		HW4000-20DI	HW4000-31DI-ASSY	HW5000-16DI	HW5000-23DI
Performance Data					
Working pressure	PSI / BAR / MPa	4000 / 275 / 27.5	4000 / 275 / 27.5	5000 / 345 / 34.5	5075 / 350 / 35
Flow rate	l/m / l/h / gpm	20 / 1200 / 5.3	31 / 1860 / 8	16 / 960 / 4.2	23 / 1380 / 6
Nozzle Size		05	08	035	05
Max excess operating pressure (safety valve)	MPa (bar)	35 (350)	35 (350)	39 (390)	39 (390)
Type of protection	IP	IPX5	IPX5	IPX5	IPX5
Motor					
Kohler Diesel Engine		KDI 1903M, 3 cylinder, 4 stroke	KDI 1903M, 3 cylinder, 4 stroke	KDI 1903M, 3 cylinder, 4 stroke	KDI 1903M, 3 cylinder, 4 stroke
Maximum torque at 1500rpm	kW/HP/Nm	31 / 42 / 133	31 / 42 / 133	31 / 42 / 133	31 / 42 / 133
Operating Speed (Under Load)	RPM	1500	1500	1500	1500
Fuel Tank	L	100	100	100	100
Fuel	Type	Diesel	Diesel	Diesel	Diesel
Battery	V / Ah / CCA	12 / 70 / 640	12 / 70 / 640	12 / 70 / 640	12 / 70 / 640
Starting System	Type	Key & Push Button Start	Key & Push Button Start	Key & Push Button Start	Key & Push Button Start
Water Connection					
Max feed temperature	°C / F	50 / 122	50 / 122	50 / 122	50 / 122
Min feed volume	l/m (l/h)	23 / 1380	33 / 1980	19 / 1140	25 / 1500
Max feed pressure	PSI (bar) MPa	100 / (7) / 0.7	100 / (7) / 0.7	100 / (7) / 0.7	100 / (7) / 0.7
Min feed pressure	PSI (bar) MPa	5 / (0.3) / 0.03	5 / (0.3) / 0.03	5 / (0.3) / 0.03	5 / (0.3) / 0.03
Inlet hose diameter (min.)	Inch / mm	1" / 25.4mm	1" / 25.4mm	1" / 25.4mm	1" / 25.4mm
Thermal Features					
Burner Model	type	JW Hydra	JW Hydra	JW Hydra	JW Hydra
Burner Output	kW/h	88	88	88	88
Fuel Consumption	l/h	5.74	5.74	5.74	5.74
Burner Fuel Tank Capacity	L	100 (common)	100 (common)	100 (common)	100 (common)
Fuel Type	type	Diesel	Diesel	Diesel	Diesel
Burner Fuel Pump Pressure	bar	9-11	9-11	9-11	9-11
Burner Fuel Nozzle Type	type	2.25x60°H	2.25x60°H	2.25x60°H	2.25x60°H
Oil					
Pump oil quantity/type	mL	1040 / SAE 15W-40	1040 / SAE 15W-40	1040 / SAE 15W-40	1040 / SAE 15W-40
Engine oil quantity/type	mL	8900 / 10W30	8900 / 10W30	8900 / 10W30	8900 / 10W30
Dimensions & Weight					
Length x Width x Height	mm	1600 x 1100 x 1300	1600 x 1100 x 1300	1600 x 1100 x 1300	1600 x 1100 x 1300
Typical operating weight	kg	633	633	633	633
Values Determined as per AS/NZS 60335.2.79					
Max reaction/recoil force of trigger gun	N	77	121	69	100
Hand spray gun	m/s^2	-	-	-	-
Spray lance	m/s^2	-	-	-	-
Uncertainty K	m/s^2	-	-	-	-
Sound pressure level L_{pa}	dB(A)	56	56	56	56
Uncertainty K_{pa}	dB(A)	2	2	2	2
Sound Power Level L_{wa} + Uncertainty K_{wa}	dB(A)	74	74	74	74

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Kohler™ KDI1903M Diesel Liquid Cooled Engine Maintenance Schedule

Based on the '5.2 Periodic Maintenance' section in the Kohler™ Engine Manual, always refer to the included manual for more in depth safety, maintenance and operation procedures of the engine.

Always use an approved Kohler™ servicing agent who uses Genuine Kohler parts in order to ensure full warranty coverage. Service records will need to be provided.

CLEANING & CHECKING				
OPERATION DESCRIPTION	PERIOD (HOURS)			
	10	250	500	5000
Engine oil level	O			
Coolant level	O			
Water presence in fuel filter	O			
Cartridge dry-type air filter	O			
Radiator heat-exchange surface		O		
Alternator belt		O		
Rubber hose (intake air / coolant)			O	
Fuel hose			O	
Starter Motor				O
Alternator				O

REPLACEMENT			
OPERATION DESCRIPTION	PERIOD (HOURS)		
	500	5000	6000
Alternator belt	O		
Cartridge dry-type air filter	O		
Intake manifold hose (air filter - intake manifold)		O	
Coolant hoses		O	
Fuel line hose		O	
Coolant OAT			O
Coolant HOAT			O

ENGINE OIL AND OIL FILTER CARTRIDGE REPLACEMENT		
ENGINE VERSION	PERIOD (HOURS)	
	250	500
KDI Mechanical Injection Tier 3 - Stage IIIA		O
KDI Mechanical Injection Uncertified Engines	O	

FUEL FILTER AND OIL PRE-FILTER CARTRIDGE REPLACEMENT		
ENGINE VERSION	PERIOD (HOURS)	
	250	500
KDI Mechanical Injection Tier 3 - Stage IIIA		O
KDI Mechanical Injection Uncertified Engines	O	

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Jetwave™ High Pressure Cleaner & Water Jetting System Maintenance Schedule

Refer to the included manual for your high pressure cleaner or water jetting system for safety, pre-inspection, operation, shutdown and more procedures.

Always use an approved Jetwave™ servicing agent who uses Genuine Jetwave parts, to ensure full warranty coverage, service records will need to be provided.

		USER	SERVICE AGENT			
REGULAR SERVICE PERIOD[1] Perform at every indicated month or operating hour interval, whichever comes first. **ITEM**		Each Use	First 20 Hrs or First Month	Every 250 Hrs or 6 Months	Every 500 Hrs or 6 Months	Every 1000 Hrs or 1 Year
Pump	Check Oil Level	O				
	Replace Oil		O	O		
Pump Seal Kit[2] (If Leaking or down on pressure)	Replace				O	
Pump Valve Kit[2] (If down on pressure)	Replace				O	
Pump Conrods	Re-tension		O			O
Reduction Gearbox	Check Oil Level	O				
	Replace Oil		O	O		
Engine Key Way Shaft	Replace				O	
Inlet Water Filter[2] (Check for build up of debris)	Check/Clean	O				
	Replace				O	
Unloader Valve (Check for leaks & function)	Check		O	O		
	Replace				O	
Safety Valve (Check setting and check for leaks)	Check		O	O		
	Replace				O	
Hoses (Check for leaks)	Check	O				
	Replace				O	
Gun & Lance (Check for leaks)	Check	O				
	Replace				O	
High Pressure Nozzle (Check for blockage)	Check	O				
	Replace			O		
Couplings & 0-Rings (If Leaking or as needed)	Check	O				
	Replace				O	
Fuel Tank Level	Check Fuel Level	O				
Electrical Connections (Check for loose connections)	Check	O	O		O	
Battery (Check for loose connections)	Check	O				
	Replace					O

1. For commercial use, log hours of operation to determine proper maintenance intervals, The time indication for checks and replacement listed above, for units subject to normal operating conditions.
2. Subject to water quality used.

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Jetwave™ Hot Water Burner Assembly Maintenance Schedule

Always use an approved Jetwave™ servicing agent who uses Genuine Jetwave parts, to ensure full warranty coverage, service records will need to be provided.

		USER	SERVICE AGENT			
REGULAR SERVICE PERIOD[1] Perform at every indicated month or operating hour interval, whichever comes first. **ITEM**		Each Use	First Month or 20 Hrs	Every 250 Hrs or 6 Months	Every 500 Hrs or 6 Months	Every 1000 Hrs or 1 Year
Heating Coil[2] (Desoot clean remove & replace)	Check		O			
	Clean				O	
	Replace					O
Burner Fuel Nozzle[2]	Filter Clean		O			
	Replace			O		
Burner Fuel Filter[2]	Check		O			
	Replace			O		
Fuel Pump Filter[2]	Check/Clean		O			
	Replace				O	
Burner Ignition Leads (Replace if signs of burning)	Check		O			
	Replace				O	
Cad Cell Eye	Check		O	O		
	Replace			O		
Ignition Transformer	Check		O		O	
	Replace					O
Burner Electrodes (Cleaning & setting)	Clean/Set		O	O		
	Replace			O		
Thermostat Assembly (Check Function)	Check	O	O	O		
	Replace					O
Pressure Switches (If leaking replace)	Check/Grease		O	O		
	Replace				O	

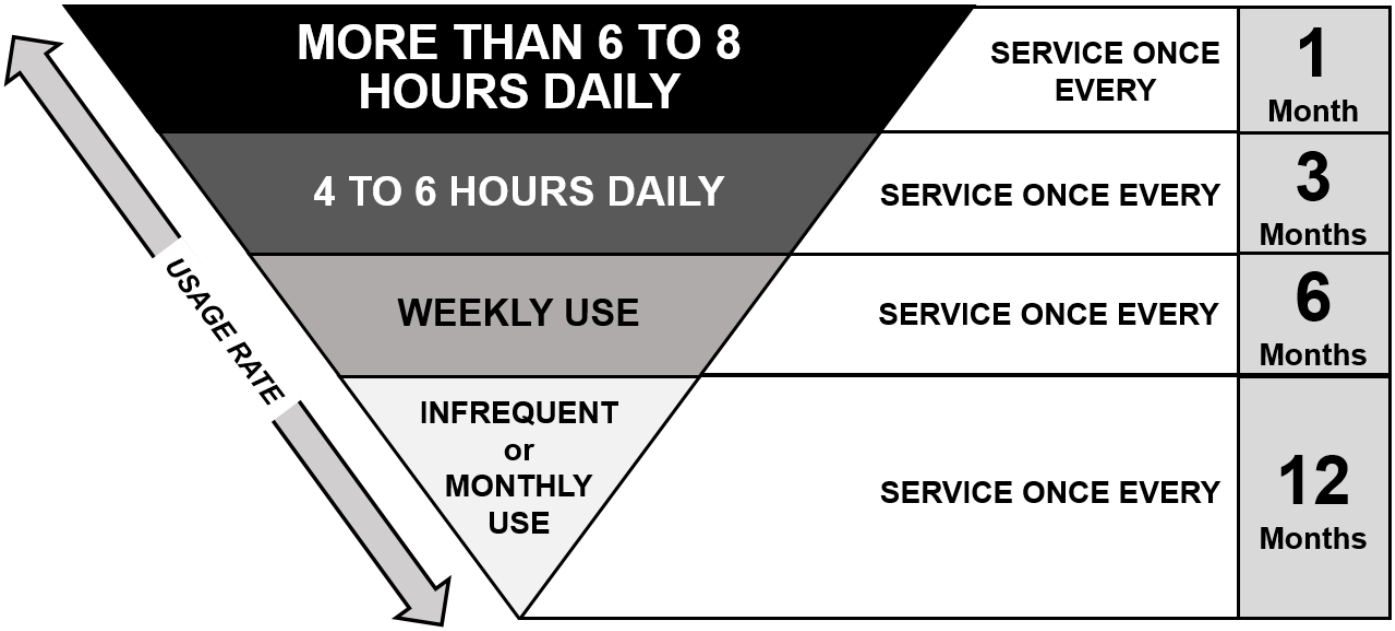
1. For commercial use, log hours of operation to determine proper maintenance intervals
2. Subject to diesel quality, contaminated fuel, blocked filters.

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Maintenance Log

Hour Meter Reading	Date	Maintenance Performed	Service Agent

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Time interval for checks and replacement listed above are for units subjected to normal operating conditions. Should the unit be subjected to abnormal conditions (eg heavy use, dirty water, extreme temperatures or conditions etc) times should be reduced accordingly.

If the unit will not generate the rated pressure or is erratic

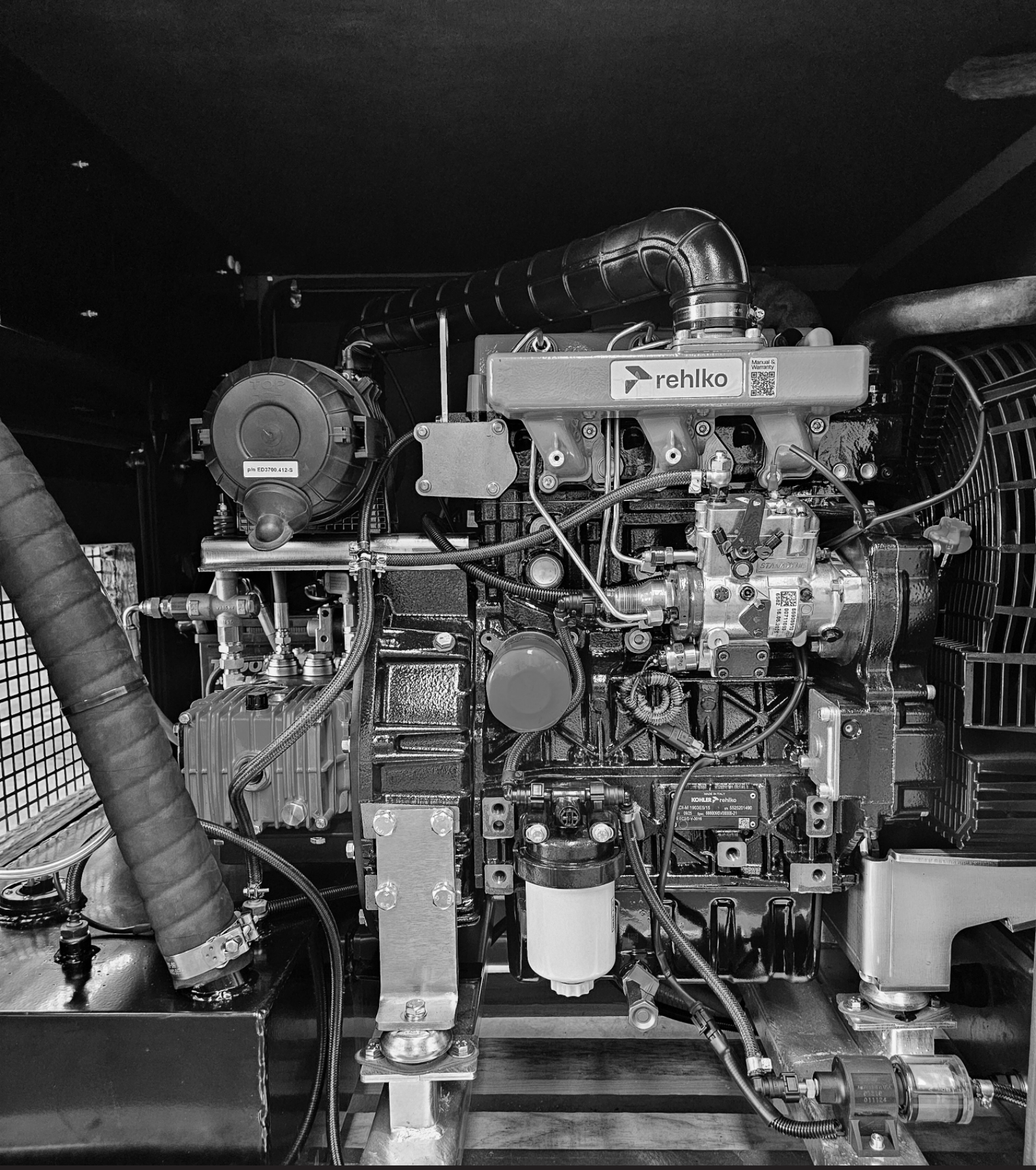
- Make sure the engine throttle is properly adjusted to the full open position.
- Turn unloader valve clockwise to increase pressure. Do not force.
- Inspect system for leaks. Use caution during inspection to prevent injury. If leaks are found, shut unit OFF before fixing.
- Ensure the front part lance with nozzle is connected.
- Turn the unit OFF. Check the inlet hose and filter and make sure that they clear of debris.
- Make sure there is adequate water flow to the unit.
- Turn the unit OFF. Remove the nozzle and clean the orifices with the a nozzle cleaning tool.
- Ensure correct nozzle orifice size is used and no signs of excessive wear are evident.
- Activate trigger and run the unit to remove air or debris from the system. Turn the unit OFF before removing or attaching the lance/nozzle.
- Assume a proper operating position.
- Be sure you can control the ON/OFF action of a water control valve. In case of emergency you must be able to turn off water flow.
- Be sure that you have good balance and do not have to overreach.
- You must be able to place one hand on the gun at all times to control and support the lance.

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Trouble Shooting

FAULT	CAUSE	SOLUTION
Pump runs normally but pressure does not achieve rated value.	Pump is sucking air. Valves are worn or dirty. Unloader valve packing worn. Nozzle incorrect or worn. Worn piston packing. Dirty inlet filter.	Check that all hoses and fittings are airtight. Check, clean or replace. Check and replace. Check and replace. Check and replace. Check and clean.
Fluctuating pressure.	Valves dirty, worn or stuck. Pump sucking air. Worn piston packing. Dirty filter.	Check, clean or replace. Check that all hoses and fittings are airtight. Check and replace. Check and clean.
Presence of water in oil.	High humidity in air. Piston packing or oil seal worn. Water entering through breather.	Check and change oil twice as often. Check and replace.
Water dripping from pump.	Piston packing worn. Piston guide o-rings worn.	Check and replace. Check and replace.
Dripping oil.	Worn oil seals. Oil coming out of breather.	Check and replace. Pump oil level overfull.
Motor does not start when switched on	Plug not well connected or unreliable power supply. Earth leakage overload.	Check plug, cable and switch. Check earth leakage.
The water doesn't reach working temperature	Damaged thermostat. Thermostat adjusted to low. Scale in the hydraulic system. Sooted boiler. Water in the diesel tank.	Replace. Place the thermostat at the required temp. Contact the maintenance service. Contract the maintenance service. Completely drain the diesel tank then, fill up with clean diesel.
The boiler is smoking	Incorrect diesel pressure. Fuel nozzle dirty. Fuel nozzle worn out. Heating coil blocked by soot. Diesel pump dirty. Diesel solenoid valve not working.	Turn the adjusting screw until obtaining approx. 10 bar; contact the Maintenance Service. Adjust the difference between the electrodes; contact the Maintenance Service. Clean the fuel nozzle. Replace the fuel nozzle. Clean the heating coil. Disassemble the pump and clean the filter; contact Maintenance Service. Replace the solenoid valve.
The burner cut out during operation.	Diesel fuel tank empty. Water in the diesel tank. Starting transformer damaged. Rotation of the starting electrodes. Diesel nozzle dirty. Diesel nozzle damaged. Diesel pump damaged. Diesel solenoid valve damaged. Faulty thermostat. Faulty pressure switch.	Fill up the diesel tank. Completely drain the gas oil tank and fill up with clean gas oil. Replace the transformer. Set the electrodes back to their proper position; contact the Maintenance Service. Clean the nozzle. Replace the nozzle. Replace the diesel pump. Replace the diesel solenoid valve. Check and replace. Check and replace.

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Executive Silent Manual

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