



POOLSAM

Transforms your pool into a water tank enabling you to defend yourself against vegetation/forest fire outbreaks.



GASOLINE ENGINE WATER PUMP

INSTALLATION AND OPERATION MANUAL

Please read carefully and retain for future reference

WARNING, IN THE EVENT OF A FIRE, FIRST CALL EMERGENCY.
THIS KIT DOES NOT REPLACE AN INTERVENTION BY THE FIRE BRIGADE, BUT CAN HELP YOU FIGHT AN OUTBREAK OF FIRE WHILE AWAITING FOR THE FIRE FIGHTERS.

! WARNINGS!

The risk of fire is mainly caused by human activity (for 90% of fire outbreaks). Most of these fires are caused by the careless and dangerous behaviour from both tourists and residents. They could therefore be avoided by having the right reflexes on a daily basis. Maintaining and clearing the bushes around the house is essential.

FOREST AND VEGETATION FIRES

PREVENTING FIRE



Place barbecues **well away from vegetation**, which may catch alight.



Use an ash tray and **never throw cigarette ends** on the ground or out of a car window.



Keep work tools **well away from vegetation** and always have an extinguisher within easy reach.

LET'S BEHAVE RESPONSIBLY
feux-foret.gouv.fr



FOREST AND VEGETATION FIRES

PROTECTING YOURSELF FROM FIRE



Raise the alert by **dialling 112, 18, or 114** (for the hard of hearing), giving as precise information as possible on the fire's location.



Take shelter in a building. **The car is not a safe place** as it can easily catch fire.



Stay informed of the situation and observe the instructions given by the emergency services and/or the local council.

LET'S BEHAVE RESPONSIBLY
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For more information: <https://www.forestresearch.gov.uk/>



POOL SAM is a prevention tool as well as a mean to fight against vegetation / forest fire outbreaks. Do not use on electrical or chemical fires. Call your local emergency fire services. Do not put yourself in danger.

CONTENTS

ACKNOWLEDGEMENTS	5
1. GENERAL TERMS OF DELIVERY	6
2. SAFETY INSTRUCTIONS	7
3. HOW IT WORKS	8
4. OPERATING LIMITS	9
5. FEATURES	10
6. INSTALLATION	11
6.1. General view / identification of elements.....	11
6.2. Trolley assembly	12
6.3. Hose assembly	12
6.4. Filling the oil tank	13
6.5. Filling the gas tank.....	14
6.6. Turbine filling	14
7. USE	15
8. CARE, WINTERING AND MAINTENANCE	17
Cleaning	17
Regular maintenance.....	17
Wintering.....	17
Maintenance.....	17
9. BREAKDOWNS AND FAULTS	18
10. WARRANTY	19

! PLEASE READ CAREFULLY !



Please read this operation manual to have a thorough understanding of the content there before use the product. Failure to do so may lead to personal injury or mechanical damage.

For safety, never attempt using this GEP (gasoline engine powered) water pump to deliver inflammable or corrosive liquids (such as gasoline and acids).

Do not allow children and pets to enter the working area as this may increase the chance of their getting burned by hot surfaces of the operating parts.

These installation instructions form an integral part of the product.

It must be handed over and kept by the user.

If you lose this manual, please visit our website:

www.poolex.fr

The indications and warnings contained in this manual should be carefully read and understood as they provide important information regarding the safe handling and operation of your product. **Keep this manual handy for future reference.**

The installation must be carried out with care and in accordance with the manufacturer's instructions. Errors made during installation can cause physical injuries to people and animals, as well as mechanical damage for which the manufacturer shall not be held liable.

After unpacking your POOL SAM, please check the contents to report any damage.

In the event of a defect and/or malfunction, no attempt to repair the fault should be made. Repairs must be carried out by an authorised technician using original spare parts. Failure to comply with the aforementioned clauses may have a negative influence on the safe operation of POOL SAM.

In order to guarantee the efficiency and ensure the proper functioning of the your product, it must be regularly maintained in accordance with the instructions provided. **A monthly functional test is recommended to be sure that POOL SAM is ready when you need it.**

In the event that the POOL SAM is sold or transferred, always ensure that all the technical documentation is transmitted with the equipment to the new owner.



POOL SAM is designed to be used with swimming-pool water or charged water compatible with the suction strainer which must be used. Any other use is considered inappropriate, incorrect and potentially dangerous.

All contractual and extra-contractual liability on the part of the manufacturer / distributor shall be considered null and void in the event of damage caused by errors in installation or operation, or due to non-compliance with the instructions provided in this manual, or the standards in force for the installation of equipment discussed in this document.

ACKNOWLEDGEMENTS

Dear customer,

Thank you for your purchase and your trust in our products.

Our products reflect our research work related to the usage of the swimming pool. Our goal is to deliver high-quality products.

We took great care to put together this manual so you can get the most out of your POOLEX POOL SAM.



POOLSAM



1. GENERAL TERMS OF DELIVERY

All products and packaging, even those delivered carriage paid, travel at the risk of the recipient.

Persons responsible for accepting delivery of the device must perform a visual inspection to make a note any damage that may have occurred during transportation. Any damage occurring during transportation must be noted by the recipient on the delivery receipt of the carrier, and confirmed by registered post sent to the carrier within 48 hours.

The package contains (see photos on page 11):

- 1 gasoline motor pump
- 1 transport trolley (with 1 handle and 2 wheels and axles to be assembled)

- 1 x 3m D40 rigid PVC inlet pipe
- 2 stainless steel clamps
- 1 suction hose connection kit
- 1 suction strainer



- 1 x 25m D45 flat discharge hose with GRF fittings
- 1 GRF fitting to screw on the outlet of the turbine
- 1 nozzle (3 positions)

- 1 storage cover



- 1 Spark plug removal spanner



- 1 wrench for tightening GRF fittings



- 1 funnel



2. SAFETY INSTRUCTIONS

Before use

Everything must be done to limit the spread of fires and vegetation / forest fires.

Prepare your home and its surroundings all year round:

- Clear your garden, check local requirements (usually 50m around the house).
- Trees and branches within 3 meters of houses should be removed.
- Dead or diseased trees and plants should be removed.
- Clear access routes for the fire brigade.
- Keep woodpiles, reeds, garden sheds, hedges, miscellaneous objects and, in general, all potential sources of fire at least 10 metres away from the dwelling.

Limit the risks and have the right reflexes:

- Organize barbecues away from vegetation.
- Throw cigarette butts into an ashtray.
- Work away from vegetation.

Be ready to intervene:

- Monthly test POOL SAM to ensure it is in good working conditions.
- Learn how to use POOL SAM to avoid panic and control it well.
- Maintain POOL SAM, check and adjust levels during monthly tests.

During emergency use

In the event of a fire, first call the fire department

Never put yourself in danger.

Never wear flammable clothing (nylon), the temperature of the fire could melt these clothes.

In case of strong smokes breathe through a damp cloth.

Never try to put out a big fire, don't take unnecessary risks.

Always follow the instructions of the fire department and local authorities.

During all uses

Never start POOL SAM without oil, without gasoline (mixture).

→ Check and adjust levels during monthly tests.

Never start POOL SAM without first unrolling all the hoses and checking that the connections are well tightened.

Do not start POOL SAM without ensuring that the turbine is first filled with water to prime the pump.

Always check that the suction strainer is sufficiently submerged.

Never direct the jet towards an electrical power source (electrical box, wall plug, electrical line, ...).

Never direct the jet towards any person or animal.

When cleaning

Wait that POOL SAM has cooled off, some parts, including the exhaust, are very hot after usage, and can cause deep burns when touched.

Do not insert anything into the air or water inlet and outlet orifices.

Do not spray the appliance with excessive amounts of water.

After each use with your pool water, rinse with clean water in order to rid POOL SAM from pool products, in particular treatment and regulation products (chlorine, bromine, pH- / pH+, etc.) and salt if the pool is equipped with a salt electrolyzer.



NON-COMPLIANCE WITH THESE WARNINGS CAN RESULT IN PROPERTY DAMAGE, ELECTRIC SHOCK, COMPLICATIONS, SERIOUS INJURIES, AND EVEN LOSS OF LIFE.

3. HOW IT WORKS

POOL SAM is a protection system against vegetation/forest fire breakouts starting near your swimming pool allowing you to act while waiting for the intervention of professional fire safety services.

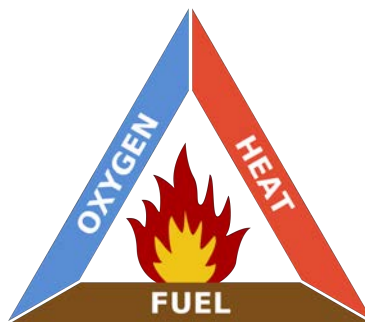
POOL SAM uses your swimming pool as a water tank in order to throw water onto a fire outbreak or to prevent any fire outbreak on any vegetation surrounding your house.

The user is solely responsible for his safety when using POOL SAM, in the event of a fire in the first place, he must imperatively request the intervention of the fire brigade before using POOL SAM.

Warning: Water sprayed by the nozzle comes from the swimming pool, it is therefore chemically treated or can contain a certain level of salt. Also, in order to protect the environment and any surface, body or object sprayed with irreversible damage, we draw your attention to the fact that the use of POOL SAM must be limited to the initial extinguishing of vegetation / forest fire outbreaks.



To fight against any vegetation fire outbreaks. In prevention, to break the fire triangle.



To avoid risk of injury, do not allow children to use this device.

4. OPERATING LIMITS

Attention, POOL SAM is intended for use at the outbreak of vegetation/forest fires or for prevention, by moistening the vegetation before the arrival of a fire.

Please always follow the instructions of the fire-fighting services, evacuate as soon as the order is given.

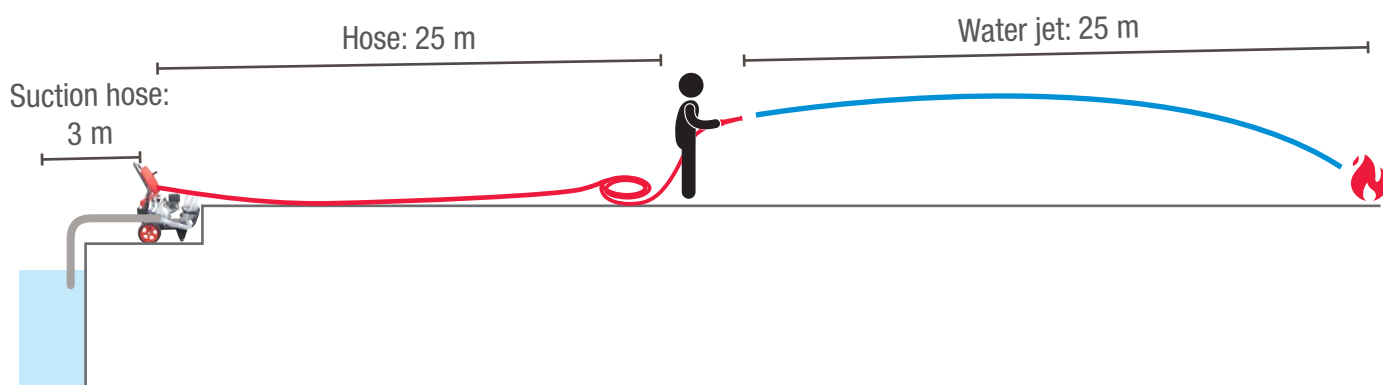
Protect yourself, confine yourself.

Water sprayed by the nozzle comes from the swimming pool, it is therefore chemically treated or can contain a certain level of salt. Also, to preserve the environment as well as any surface, body or object sprayed with irreversible damage, we draw your attention that the use of POOL SAM must be limited to extinguishing the fire outbreak.

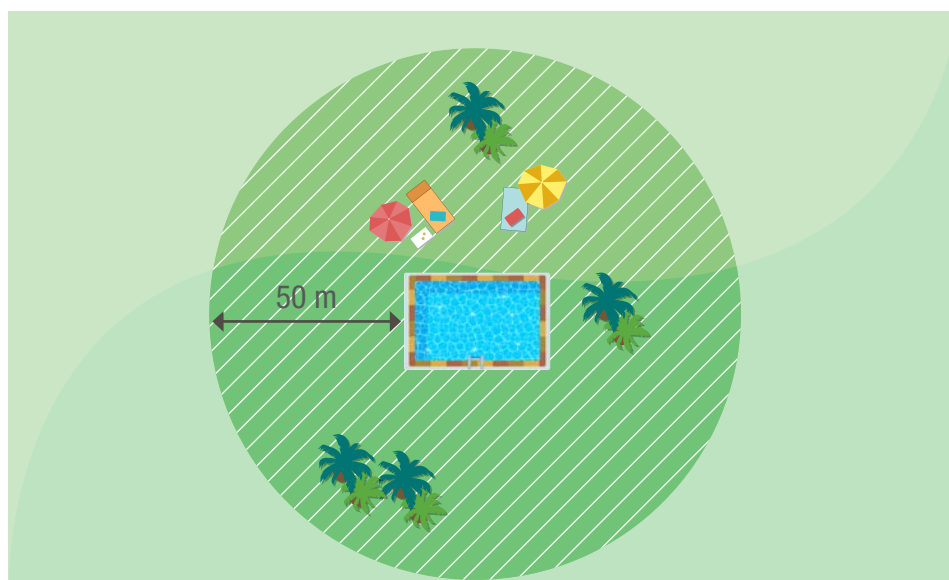
Do not use if the temperature is too low ($<5^{\circ}\text{C}$) or too high ($>50^{\circ}\text{C}$).

Never direct the jet towards an electrical power source (electrical box, wall plug, electrical line, ...).

Never direct the jet towards any person or animal.



**Protected zone
in a 50 m radius
around your
swimming pool**



5. CHARACTERISTICS

Modèle / Model	POOL SAM1
Puissance / Power	7 Cv
Carburant / Fuel type	Gas/Petrol SP95 - E10
Huile / Oil type	10W30 or 10W40 or 15W30 or 15W40
Hauteur d'aspiration / Suction height	Jusqu'à 7 m / up to 7m
Hauteur de projection / Projection height	Up to 25m (25 m beyond hose length)
Pression en sortie de pompe / Outlet pressure (on the pump)	7 bar
Pression après 25 m de tuyau / Outlet pressure (after 25m pipe)	7 bar
Niveau de pression acoustique pondéré A / A-weighted sound power level	106 dB
Débit en sortie de pompe / Outlet flow (on the pump)	16 m ³ /h
Débit après 25 m de tuyau / Outlet flow (after 25m pipe)	16 m ³ /h
Projection maximum / Maximum HMT	50 m
Capacité du réservoir / Tank capacity	3.6 l
Autonomie / Autonomy	4h
Poids / Weight	45 kg
Dimensions / Dimensions	570 x 540 x 750 mm
Lance / Nozzle	3 positions OFF — ◀
Tuyaux de refoulement / Outlet hose	D45mm/L25m flat hose
Tuyaux d'aspiration / Inlet hose	PVC D40mm / L=3m
Températures d'utilisation et stockage / Use and storing temperatures	5 °C < Temperature < 50 °C

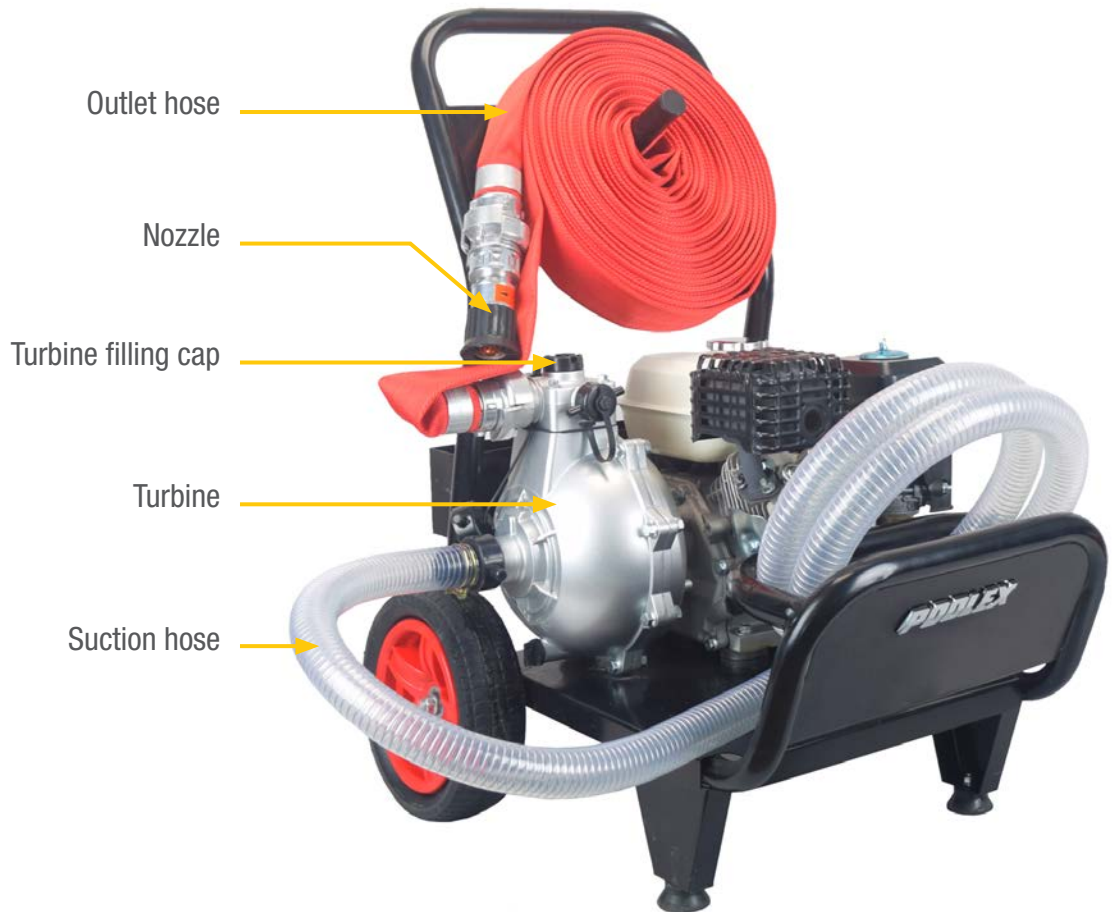


Careful when using the hose as it has a powerful jet.

It is recommended that one learns to handle POOL SAM before an emergency situation arises. Firmly hold the hose/nozzle.

6. INSTALLATION

6.1. GENERAL VIEW / IDENTIFICATION OF ELEMENTS



6.2. ASSEMBLING THE TROLLEY

1 – Attaching the handle



Insert both tubes ensuring both stop buttons come out.

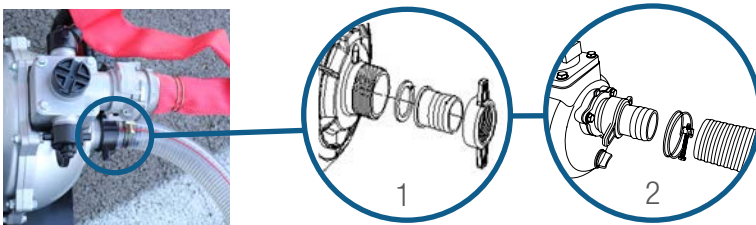
2 – Mounting the 2 wheels



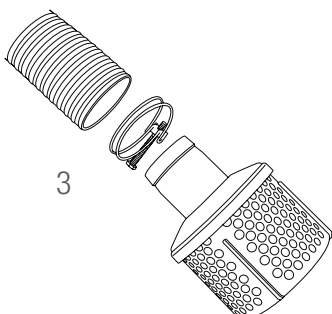
Put the trolley in a vertical position, insert the axle ensuring the stop button comes out. Then tighten the wheel nut. And repeat for the second wheel.

6.3. HOSE ASSEMBLY

1 – Suction hose



1. Screw the plastic adapter with its seal placed on the pump side.
2. Screw the tip to the pump (turbine). Fit the PVC pipe and tighten the collars.



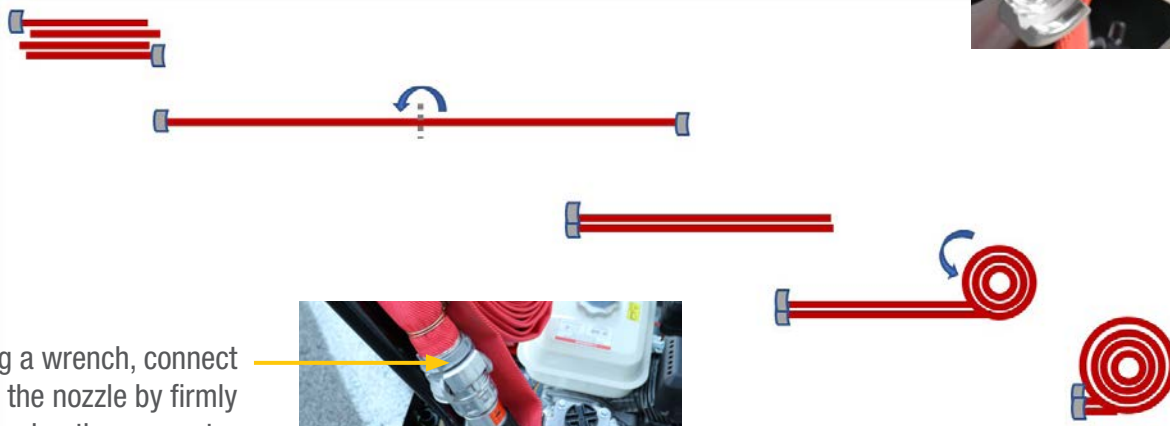
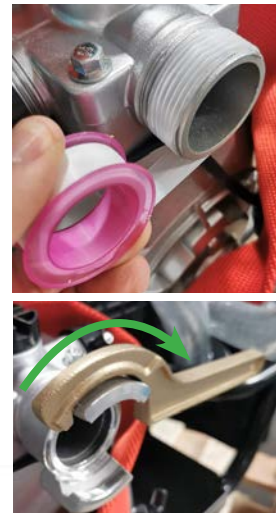
3. Assemble the strainer. Fit the PVC pipe and tighten the collars.

Warning: incorrect assembly of the strainer can cause serious damage to a liner. These damages can in no circumstances be covered by the guarantee.

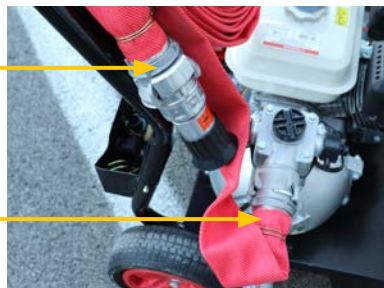
2 – Outlet hose

The outlet hose (flat) is supplied fitted with GRF connectors.

1. Screw the metal GFR adapter onto the upper outlet of the pump.
Use the Teflon tape supplied to ensure perfect sealing of the connector.
2. Place the end of the discharge pipe on the adapter and screw the ring using the pin wrench.
3. Unroll the outlet hose completely, folded in half then rolled up starting from the fold.
This will allow you to position it easily on its support and to unroll it easily when you need it.



Using a wrench, connect the nozzle by firmly tightening the connector on each end on the pump.



6.4. FILLING THE OIL TANK

The quality of the oil used has a major impact on the performance and aging of your motor pump. Also, be sure to use a compatible oil: 10W30 or 10W40 or 15W30 or 15W40 and regularly check the level is right.

If the oil level is not sufficient, the engine will automatically stop. But running the engine despite a lack of oil may cause irreversible damage.



Put POOL SAM on flat ground.

Open the cap and completely fill the tank by using a funnel.

Around 1L

To reach the correct level, the oil level must reach the boundary limit of the tank.

6.5. FILLING THE GAS TANK

Please note that fuels are highly flammable and dangerous products. They are to be handled outside in a well-ventilated place and when POOL SAM is stopped and cold. For the storage and handling of these products, please refer to the instructions for these products.

Be sure to use compatible gasoline.

Chose SP95 – E10 gasoline rather than mixtures for 4-stroke engines.



Open the cap and fill the tank using a funnel.
Around 3.6L
Never overfill the tank.
Close the cap securely before starting POOL SAM.



Warning: when handling petrol, the engine must be stopped and cold.

6.6. TURBINE FILLING

To ready a POOL SAM, please make sure that the turbine is filled beforehand to allow it to be primed. If necessary, fill it there again (approximately 5L) by taking water directly from the pool.

1 - Open the cap



2 - Fill up (~5L)



3 - Close the cap again



POOL SAM works thanks to a heat engine releasing dangerous fumes and gases. Therefore, it must be used outdoors to prevent any risk of toxic vapors inhalation.



7. USE

In the event of a fire, first call the fire department

Never put yourself in danger. Always follow the instructions of the fire department and local authorities.

Never wear flammable clothes (nylon), the temperature of the fire could melt these clothes.

In case of strong smokes breathe through a damp cloth.

Never try to put out a big fire, don't take unnecessary risks.

Never start POOL SAM without oil, without gasoline (mixture).

→ Check and adjust levels during monthly tests.

Never start POOL SAM without first unrolling all the hoses and checking that the connections are well tightened.

Do not start POOL SAM without ensuring that the turbine is first filled with water to prime the pump.

Always check that the suction strainer is sufficiently submerged.

Never direct the jet towards an electrical power source (electrical box, wall plug, electrical line, ...).

Never direct the jet towards any person or animal.

HOW TO START POOL SAM:



1- Open the fuel supply => turn the fuel tap to ON (on the right)



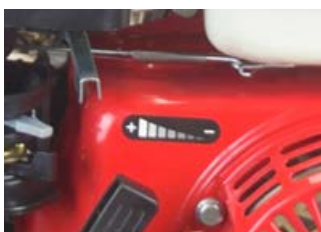
5- Pull out the rope pull starter handle in a fast way (then let go)



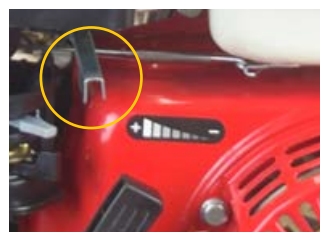
2- Position the starter lever on Start (to the left).
The choke is not required when starting the engine warm or the ambient temperature is rather high.



6- Let the engine idle for a little while to allow it to warm up, then position the starter lever to the right.



3- Position the accelerator lever to idle (to the right)



7- Adjust the speed by moving the accelerator lever (slow or fast)



4- Switch the ON/OFF button to ON.



8- Open nozzle. Do not leave the nozzle shut too long when POOL SAM is on.

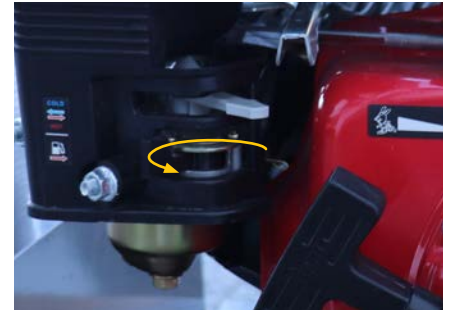
HOW TO STOP POOL SAM:



1- Slow speed to minimum



2- Switch the ON/OFF button to OFF



3- Close the fuel tap



Never disconnect the spark plug to stop the engine, as you will get an electrical shock. Do not touch hot surfaces, especially the exhaust pipe.

HOW TO USE POOL SAM:

**First and foremost, do not put yourself in danger, always ensure your safety.
Call the fire department.
React quickly but without haste.
It's imperative to learn to use POOL SAM before an emergency.**

Prepare POOL SAM by deploying the hoses.

Inlet hose: check that the strainer is correctly submerged.

Outlet hose: as straight as possible facing the fire.

Check and if necessary, top up the oil, fuel, and water levels.

Once the pump is started and primed, take the nozzle and turn the handle on the desired position:



Attack position: 

Open the nozzle and direct towards the fire aiming for the base.



Defense position: 

Open the nozzle and direct towards the fire aiming at the actual fire.
This position allows to cool off the area in case of a fire.

Always aim for the base of the flames.

POOL SAM can also be used to prevent the approach an important fire by wetting the vegetation and/or the buildings prior to confining yourself and waiting evacuation orders.



It's imperative to learn to use POOL SAM before an emergency.

8. CARE, WINTERING AND MAINTENANCE

CLEANING

POOL SAM should be cleaned with a damp cloth only when the engine is stopped and has cooled off (button on OFF). Never use a water jet directly onto the device.

The use of detergents or other household products could degrade the surfaces and alter their properties.

After each use with your pool water, rinse with clean water to rinse POOL SAM from pool products, in particular treatment and regulation products (chlorine, bromine, pH- / pH+, etc.) and salt if the pool is equipped with a salt chlorinator.

REGULAR MAINTENANCE

Check that nothing is obstructing the grids and hoses.

Check the condition of the air filters and clean or replace them if necessary.

Check the condition of the water hoses and ensure they are securely connected.

Check that the spark plug is not clogged and clean or replace it if necessary.

Start your POOL SAM every month to check its operating condition.

Check the oil and fuel levels regularly.

Do not modify the carburator settings.

WINTERING

POOL SAM is designed to operate in all weathers. However, it is not recommended to leave it outside for long periods, especially in winter (a protective cover is provided).

Purge the turbine before winter to avoid the risk of freezing.

Drain the fuel tank so as not to damage it (loss of flammability).

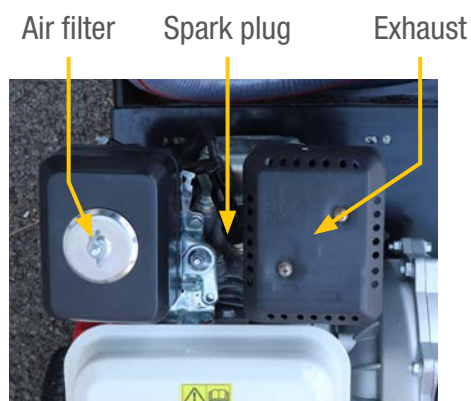
Warning: never leave in direct sunlight or in a humid area but in a shaded and well-ventilated area.

MAINTENANCE

Simple maintenance operations can be done directly by the user; however, annual maintenance by a professional is preferable.

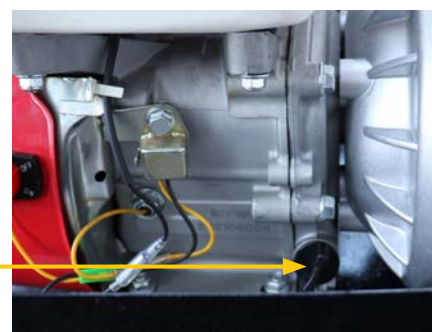
MAINTENANCE CHECKLIST				
What		When		
		After each use	After 20 hours of use or 2 years	After 30 hours of use or 3 years
Engine oil	Check level	X		
	Drain / Replace		X	
Air filter	Check / Clean	X		
Spark plug *	Check / Clean			X

* Recommended type of spark plug : NHSP LD P6RTCUC.



All maintenance operations must be performed with the engine and exhaust pipe cold. There is a risk of burns.

Oil tank cap



9. BREAKDOWNS AND FAULTS

Faults	Possible causes	Possible fixes
No flow or low flow from the pump while the motor is running.	Pump not primed	Turn off the engine, fill the pumping turbine with about 5L of water. Then restart
	The inlet hose (strainer) is blocked, crushed, damaged, too long or with a reduced diameter.	Replace the inlet hose.
	The strainer is not completely submerged below the water level.	If there is enough water, immerse the strainer deeper, possibly ballasting it.
	Air leak at vacuum hose connector.	Plug this air vent. Check the tightening. If the hose is damaged, shorten or replace it.
	Clogged strainer	Clean it by removing any debris. Fit back correctly as it can damage the swimming pool liner.
	Outlet hose blocked, damaged, too long or too small/large diameter.	Replace the outlet hose with original equipment.
	Excessive height of the outlet hose	Move closer to the pump by reducing the height.
	The accelerator lever is in a slow position	Move the accelerator lever to a faster speed.
The engine does not start, lacks power, starts but runs with difficulty, quivers.	The ON/OFF button is positioned on OFF	Set the button to ON
	The fuel tap is positioned on OFF.	Set the fuel tap to ON.
	Dirty air filter.	Clean or replace the air filter.
	Out of fuel.	Wait until POOL SAM has cooled down then refuel.
	Fuel stale, contaminated, dirty or containing water.	Call a technician to drain the tank and replace the fuel.
	The spark plug wire is disconnected	Reconnect the wire.
	The spark plug is dirty or defective	Clean or replace it.
	Excess fuel "flooded engine"	Wait 5 minutes, then restart.
	Incorrectly adjusted carburetor	Call a technician for adjustment.
	Not enough oil.	Wait until POOL SAM has cooled down then refuel.

10. WARRANTY

Poolstar SAS guarantees the original owner against material defects and manufacturing defects of POOL SAM for a period of two (2) years.

Wear parts (hoses, pipes, filter, spark plugs, seals, pre-filter, bearings, non-return valve, strainers) are guaranteed for 6 months.

The warranty enters into force on the first billing date.

This warranty does not apply to the following situations:

- Faults or damage arising from installation, operation, or repairs which do not comply with the safety instructions.
- Faults or damage arising from an improper chemical environment in the pool.
- Faults or damage arising from unintended use of the device.
- Damage arising from negligence, accidents, or force majeure.
- Faults or damages arising from the use of unauthorised accessories.

Repairs covered during the warranty period must be approved before they are carried out and entrusted to the POOLSTAR after-sales service (Tel: 04.91.51.03.03). This warranty is void in the event of repairs to the device made by individuals which have not been authorised by Poolstar.

The parts under warranty shall be replaced or repaired at the discretion of Poolstar. Faulty parts must be returned to us during the warranty period in order to be covered. The warranty does not cover unauthorized labor or replacement costs. Delivery costs for returning the faulty part are not covered by the warranty.

Legal disclaimer: this limited warranty constitutes the entire warranty.

No other guarantees apply, explicit or implicit. This limited warranty grants specific legal rights which may vary by jurisdiction. Under no circumstances are we liable for consequential, special or indirect damage(s) of any nature whatsoever, including but not limited to physical injury, property damage or damage or equipment losses. The agent / installer shall not be liable for any costs arising from installation or maintenance.

Repairs covered during the warranty period must be approved before they are performed by an authorized technician. This warranty is void in the event of repairs to the device made by individuals which have not been authorised by Poolstar.

The parts under warranty shall be replaced or repaired at the discretion of Poolstar. Faulty parts must be returned to us during the warranty period in order to be covered. The warranty does not cover labor costs or unauthorized replacement. Delivery costs for returning the faulty part are not covered by the warranty.

DECLARATION DE CONFORMITE UE EU DECLARATION OF CONFORMITY

Nom et adresse du fabricant <i>Name & address of the manufacturer</i>	POOLSTAR - 960 avenue Olivier Perroy 13790 ROUSSET - FRANCE
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La société Poolstar déclare que machine satisfait à l'ensemble des dispositions pertinentes des directives applicables listées dans le présent document

The company Poolstar declares that the machinery fulfils all the relevant provisions of the applicable directives listed in this document

Objet de la déclaration <i>Object of the declaration</i>	Modèle POOL SAM – Pompe à eau thermique <i>Model POOL SAM – Gasoline engine water pump</i>	
	Marque POOLEX <i>Brand</i>	
	Référence PS-POOLSAM1 <i>Reference</i>	
	N°série <i>Serial numbers</i> PS-L051BS001PSAM1A à/to PS-L365BS999PSAM1A	
	Caractéristiques <i>/characteristics</i> Puissance <i>/power</i> 7cv Pression max <i>/max pressure</i> 7bar Débit <i>/flow</i> 16m3/h Pression acoustique A <i>/A-weighted sound power level</i> LWA 106dB (A)	

L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:


The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

- Directive machine et ses amendements – *Machinery directive and amendments* – **2006/42/EC +2009/127/EC +2014/33/EC**
- Directive émissions sonores et ses amendements – *Noise emission directive and amendments* - **2000/14/EC +2005/88/EC**

Références des normes harmonisées pertinentes appliquées ou des spécifications par rapport auxquelles la conformité est déclarée:

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

- EN809:1998+ A1:2009
- EN809:1998 +A1:2009/AC:2010
- EN ISO3744:1995


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Signé par et au nom de :
Signed for and on behalf of:

Rousset, le 17/04/2023

Emmanuel ATTAR
Directeur des opérations
Operations director



POOLSAM

