

Manual

Peripheral water pump for agricultural use

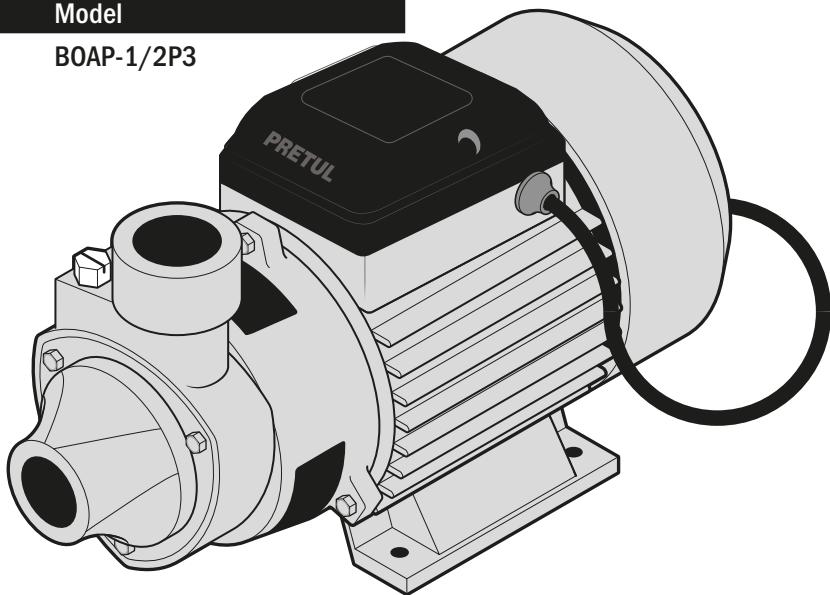
Applies for:

Code

Model

27019

BOAP-1/2P3



BOAP-1/2P3

**CAUTION**Read the user's manual thoroughly
before operating this tool.

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CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

Use and care recommendations



RESPECT THE WORK CYCLES. 20 minutes' work per 15 minutes' rest.
Maximum 6 hours' daily.



ALWAYS ensure the pump has a constant water supply.
Follow the installation instructions (page 6).



PURGE WITH WATER before turning on the pump for the first time or when used occasionally (page 7).



Perform periodic MAINTENANCE on your machine (page 8).

Code •	27019
Description •	Peripheral water pump for agricultural use
Voltage •	127 V~
Frequency •	60 Hz
Speed •	3 450 RPM
Current •	3 A
Power •	1/2 Hp
Outlet and inlet diameter •	1 NPT
Maximum suction depth •	26 ft
Maximum value of manometric height •	65.5 ft
Maximum flow •	8 gal/min
Maximum water temperature •	104 °F
Conductors •	20 AWG
Work cycle •	20 minutes' work per 15 minutes' rest. Maximum 6 hours' daily.
Insulation •	Class I
Grade IP •	IPX4

Power Cord Grips used in this product: Type "Y".

Tool Build Quality: Basic insulation

Thermal insulation on motor winding: Class F

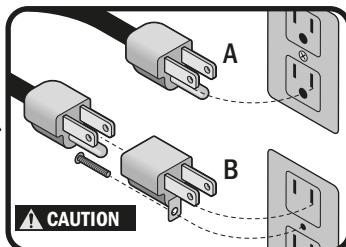
WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a TRUPER Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to rain, liquids and/or dampness.

WARNING Before gaining access to the terminals all power sources should be disconnected.



Power requirements

WARNING The tool shall be grounded while in use to prevent an electric shock. • Connect the plug into a properly grounded outlet as shown in example A. Not all the outlets are properly grounded. If in doubt verify with a certified electrician. • If the outlet you plan to be using for the tool has two poles (2 orifices). **FOR NO REASON AT ALL DO NOT REMOVE OR ALTER THE GROUND CONDUCTOR IN THE PLUG.** Use a temporary adaptor as shown in example B and always connect the ground lug as indicated.



CAUTION When using an extension cable, verify the gauge is enough for the power that the tool needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and the motor will overheat. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

WARNING All the wiring, electric connections and ground connections in the system shall comply with **THE OFFICIAL MEXICAN STANDARD NOM - 001 - SEDE - ELECTRIC INSTALLATION (USE)** or with the local codes and ordinances. The user shall call a certified electrician. It is recommended to feed the pump with a circuit that includes a differential switch with an assigned current not higher than 30 mA



⚠ WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. Save all warnings and instructions for future references.

Work area

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause loss of control.



Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.



Modified plugs and different power outlets increase the risk of electric shock.

Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times.

This enables a better control on the tool during unexpected situations.



Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes, jewelry or long hair may get caught in moving parts.



If you have dust extraction and collection devices connected to the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.

Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.



The correct tool delivers a better and safer job at the rate for which it was designed.

Do not use the tool if the switch is not working properly.

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.



Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.

Power tools are dangerous in the hands of untrained users.

Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.



Most accidents are caused due to poor maintenance to the tools.

Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.



Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a TRUPER Authorized Service Center using only identical spare parts.

This will ensure that the safety of the power tool is maintained.

Children or people with reduced physical, sensory or mental capabilities shall not operate the tool, neither inexperienced people or without knowledge in the use of the tool, unless supervised by a person responsible of their safety or if receiving previous instructions about the tool operation.



Children shall be kept under supervision to double-check they will not play with the tool. Tight supervision shall be used with children or disabled persons to prevent from using or being close to any household tool.



This tool is in compliance with
the Official Mexican Standard
(NOM - Norma Oficial Mexicana).

Safety warnings for the use of water pumps

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Adequate uses

- The pump is a stationary device designed to pump clean neutral liquids, with no suspended abrasive solids, in temperature not higher than 104 °F. Useful for watering orchards, for pumping non aggressive liquids and to increase insufficient pressure in aqueducts pressure.
- Periphery pumps are suitable for agricultural applications in watering systems by mini aspersión or air pulverization. Also, where pressure requirements are higher due to height in the watering system and the minimum pressure requirements for sprayers to function. For these type of applications, centrifugal pumps are not recommended due to the low pressure managed.
- The device is in compliance with the most updated safety requirements, only if is used for what it is designed. The device shall only be used under the allowed performance restrictions.
- Do not use it for explosive liquids, combustibles or aggressive materials, or for substances hazardous to health, or sewage water.
- Inadequate use or modifications to the device, using components not approved or tested by the manufacturer may result in unexpected damage to the device and the operator and frees the manufacturer from their legal responsibility.

⚠ CAUTION • The pump shall be connected through a residual current circuit breaker RCCB designed with current short circuit not higher than 30 mA

⚠ CAUTION • Before connecting, double check the power supply matches the pump requirements.

⚠ CAUTION • Do not install the pump outdoors or near wet areas.

⚠ WARNING • Do not install the pump in areas where there is danger of explosion or near combustible liquid and gases.

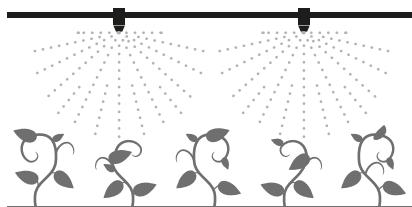
⚠ WARNING • Do not aim the water jet against the device or other electric components. It is a death hazard due to electric shock.

⚠ CAUTION • Double check the power cable is not making contact with water circulating in the pump.

• Any type of repair shall only be carried out in a TRUPER Authorized Service Center. Otherwise, the user is exposed to an electric shock and makes the warranty void.

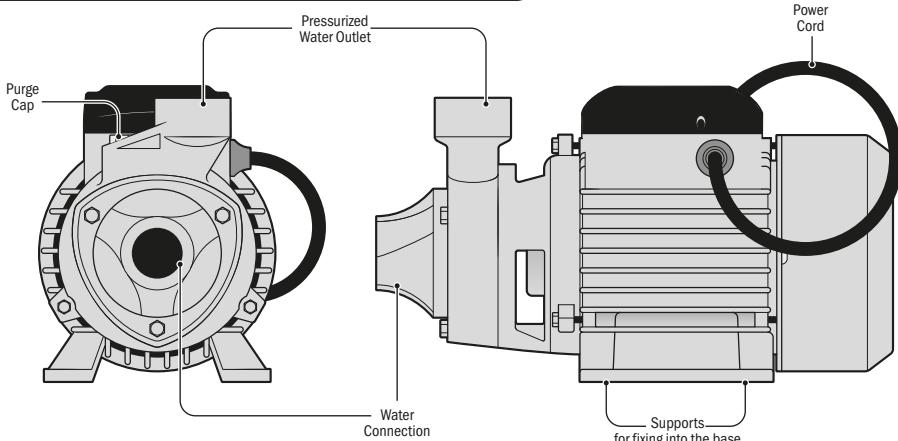
• All the symbols attached to the device shall not be removed or cover. All information about the device that is not legible, shall be replaced immediately.

• Read and follow the operation instructions before installing and starting the pump. Any malfunction caused by omission of indications in this Manual, may damage the pump and makes the warranty void.



Recommended for watering with atomizers.

Parts



Mounting

- The pump shall be installed in a dry place, away from the elements; with air flow to allow air flow for the adequate ventilation (A)
- Ambient temperature not exceeding 104° F
- Use bolts to fix the pump onto a concrete base to prevent vibrations (B) The pump shall be installed in a horizontal position to assure it runs properly.
- The suction lines and pressure pipes shall be supported to the wall or the floor to prevent transmission of tension to the pump body (C)
- Use care not to damage the pump and / or the pipes due to excessive tightening of the joints.

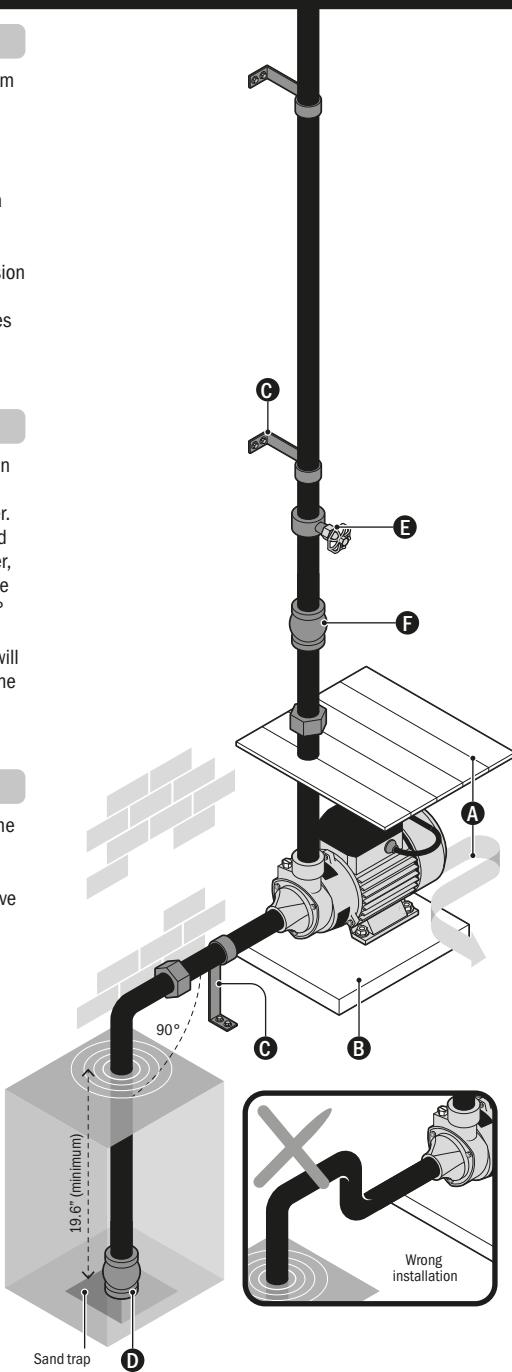
Suction line (inlet)

- The suction pipes diameter shall not be smaller than the diameter of the pump water inlet. If the suction height exceeds 13 ft, use a pipe with a larger diameter.
- The suction pipe must be completely sealed; its end should be submerged in the water at least half a meter, where it is recommended to install a foot valve (D). The pipe must remain perfectly vertical and bend at a 90° angle towards the pump's water intake.

CAUTION • Failure to follow these indications will result in air sealing – in and bubbles interfering with the pump performance.

Pressure line (outlet)

- The outlet pipe will need a gate valve (E) to adjust the required flow speed and pressure.
- It is recommended to set a check valve (F) between the pressurized water from the pump and the gate valve to prevent the unexpected return of water columns exceeding 65 ft



Electrical installation

⚠ CAUTION To avoid electric shocks please read the information in the "Electrical requirements" section, on pages 3 and 5.

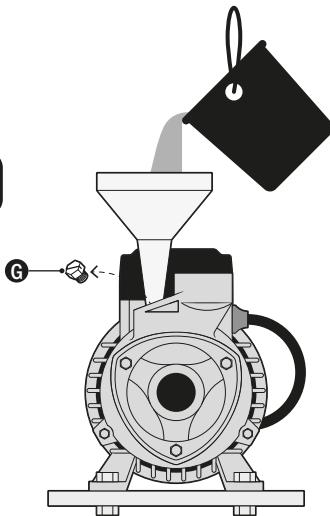
- The fixed installation shall incorporate a device to assure the omnipolar disconnect from the power supply.
- Make sure the electric requirements described in this Instruction Manual and the pump nameplate, match with the power supply value capacity.
- Connect the pump into a circuit with physical earth and then, connect the phases following the electric diagram in page 3 or the pump nameplate.
- The pump is built with a monophasic motor protected against overload using a thermal device (overcurrent cut) built in the winding.

Startup

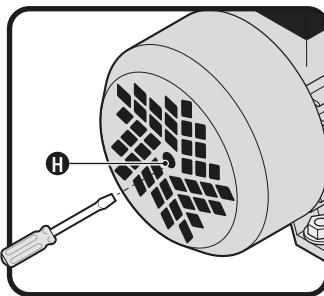
Purge

- The first time you start the pump or after a long period of time idle, or when air has entered the system, fill-up the pump with clean water before starting.
- Remove the purge cap (G) and fill with water until reaching the level on the orifice.

⚠ WARNING • Never start the pump when empty. If it happens accidentally, turn OFF the pump immediately, wait for the pump to cool down, then, fill with clean water.



- The pump requires no maintenance as long as the following precautions are taken:
 - When there is a risk of freezing, completely drain the pump by removing the foot valve to allow the pipe to drain. Remember to make sure to prime the pump before restarting it.
 - Periodically check the foot valve (not included) and clean it if necessary.
 - If the pump will be inactive for a long period, it is recommended to be completely drained, rinsed with clean water, and stored in a dry place.
 - If the impeller does not rotate freely, insert a screwdriver into the rear hole of the pump (H) to free it.



⚠️ WARNING Disconnect the pump from the power supply before performing maintenance work.

- If the ambient temperature is below 39 °F or the pump will be out of use for a long time, drain the liquid from the pipe to prevent freezing inside the pump. Do not operate the pump without water.

Problem

Cause

Solution

The motor is not starting

- There is no power
- The impeller is stuck

- Check the connections and the power values.
- Release it with a screwdriver (see page 8)

The motor turns but is not pumping water

- The foot-valve filter is clogged
- Excessive suction height
- Air in the admission

- Clean the filter
- Shorten the suction pipe length. Check the suction pipe is hermetic. Double check the foot valve is submerged, at least, 19.6" It is necessary to purge the pump again (see page 7).
- Check the suction height

Flow speed is insufficient

- The suction height is in the limit
- Foot valve filter is partially clogged

- Shorten the suction pipe length
- Clean the foot valve and the whole suction pipe if necessary

The motor thermal protector is activated

- The motor is overheated
- The impeller is stuck

- Check voltage and ventilation
- Release it with a screwdriver (see page 8).

In the event of any problem contacting a TRUPER Authorized Service Center, please see our webpage WWW.TRUPER.COM to get an updated list, or call our toll-free numbers 800 690-6990 or 800-018-7873 to get information about the nearest Service Center.

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Code

27019

Model

BOAP-1/2P3

Brand**PRETUL**

Warranty. Duration: 1 year. Coverage: parts, components and workmanship against manufacturing or operating defects, except if used under conditions other than normal; when it was not operated in accordance with the instructive; was altered or repaired by personnel not authorized by TRUPER®. To make the warranty valid, present the product, stamped policy or invoice or receipt or voucher, in the establishment where you bought it or in Corregidora 35, Centro, Cuauhtémoc, CDMX, 06060, where you can also purchase parts, components, consumables and accessories. It includes the costs of transportation of the product that derive from its fulfillment of its service network. Phone number 800-018-7873. Made in China. Imported by TRUPER, S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257, Phone number 761 782 9100.



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