



HYDROSTATION

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1. INTRODUCTION

This instruction manual contains general information regarding the pump that you have purchased. Follow the instructions given in this booklet in order to obtain optimum return and operation from the pump. If any other information is necessary, please contact the nearest authorised retailer

THE REPRODUCTION, EVEN PARTIAL, OF THE ILLUSTRATIONS AND/ OR TEXT HEREIN IS FORBIDDEN.

The following symbols are used throughout the instruction booklets:

ATTENTION! Risk of damaging the pump or the system



Risk of injuring people or damaging things



Risks of electrical nature

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3. IDENTIFICATION DATA

3.1 MANUFACTURER DATA

EBARA PUMPS EUROPE S.p.A.

Registered office:

Via Campo Sportivo, 30 - 38023 CLES (TN) ITALY

Phone: 0463/660411 - Fax: 0463/422782

Assistance Service:

e-mail: tcs.epe@ebaracom

Tel. +39 0444 706968

3.2 ELECTRIC PUMP

EBARA Pumps Europe S.p.A. Via Campo Sportivo, 30 38023 Cles (TN) Italy Phone +39 0444 706911 V.A.T. 01234980221		MADE IN ITALY							
TYPE	HYDROSTATION		T _{liquid}	5-45°C					
PIN ^o			T _{ambient}	5-50°C					
V	~220-240	P	800 W	Q	5-95 l/min	H _{min}	5	H _{max}	60 m
Phase	1	HP	1,1	H _{min}	5 m	H _{max}	60 m		
IP	65	Cosφ	0,8	Hz	50/60	A	4,6		
Ins.C.	S1	Kg	12,7	SIN ^o					

4. GUARANTEE AND TECHNICAL ASSISTANCE

THE GUARANTEE IS RENDERED NULL AND VOID IF THE INSTRUCTIONS GIVEN IN THIS BOOKLET ARE NOT ADHERED TO AND/OR IF ANYONE OTHER THAN PERSONNEL FROM OUR SERVICE CENTRES INTERVENES ON THE ELECTRIC PUMP. IN THESE CASES, THE MANUFACTURER IS RELIEVED FROM ALL RESPONSIBILITY REGARDING INJURY TO PEOPLE AND SUBSEQUENT DAMAGE TO ADJACENT ITEMS AND/OR THE ELECTROPUMP ITSELF.

Once you have received the electropump, make sure that the packaging is not broken or seriously damaged. If it is, immediately inform the person who delivered it. After extracting the electropump from its packaging, make sure that it was not damaged during transportation. If it has been, inform the retailer within 8 days from delivery. The following parts, being normally subject to wear, have a limited guarantee:

- bearings
- mechanical seals
- grommets
- suction and discharge fittings
- fill and drain plugs
- pressure sensor

If a fault that is not listed in the "TROUBLESHOOTING" table (chapter 13.1) occurs, please contact the nearest authorised retailer.

5. GENERAL SAFETY WARNINGS

Before starting the electropump, the user must follow the operations indicated in this manual, and apply them each time the electropump is used or when maintenance is carried out on it.

5.1 PREVENTIVE MEASURES TO BE TAKEN BY THE USER



Electropump without indication that they are protected against the effect of freezing shall not be left outside during freezing weather conditions



Users must observe the accident prevention regulations that are in force in their countries at the time. They must also pay attention to the electropump characteristics. Always wear protective gloves when handling the pump or performing maintenance.



While repairing or carrying out maintenance on the electropump, disconnect the electric supply. Doing this avoids accidental starting, which could injure people and/or cause damage.



The device can be used by children aged above 8 years and by persons with reduced physical, sensory or mental abilities, or who lack adequate experience and knowledge of the product, provided that they are supervised or have been adequately instructed on its safe use and the relevant risks involved. Children must not play with the device. Cleaning and maintenance to be carried out by the user must not be effected by unsupervised children.

Any maintenance, installation or handling carried out on the electropump while it is still being powered can seriously injure, or even kill, people.

When starting the electropump, users must ensure that their feet are not bare or, worse, immersed in water. They must also ensure that their hands are not wet.

Users must not operate or carry out any work on the electropump that is not permitted in this manual.



Stop operation in case pump is in failure. Operation of broken pumps can cause injury or damage property.

Do not touch the pump when the liquid handled is hot water. Burns may result from high temperatures.

Do not touch the motor. The motor's surfaces will be hot, and you could get burned if you touch them.

Do not touch the rotating parts while the pump is running. Since these parts rotate at high speed, doing so could result in injury.

Do not touch the live parts when the power is on. There is a risk of electric shock.



The electric pump is designed in such a way that all moving parts are made safe by using guards. The manufacturer declines any responsibility in the event of damages caused by the removal of said protections.



Each conductor or powered part is electrically insulated with regards to earth. Extra security is also added by connecting the accessible conducting parts to an earth conductor. This ensures that accessible parts cannot become dangerous should the main insulation become faulty.

5.2 RESIDUAL RISKS FOR SURFACE PUMPS

Residual risks include the following:

- The possibility of coming into contact (even if not accidentally) with the motor's cooling fan by inserting thin objects (e.g. screwdrivers, sticks and similar) through the fan cover holes.
- Possible start-up without notice due to automatic rearm of the motor protection device, following the latter's intervention due to motor overheating.

6. TECHNICAL-PRODUCTION CHARACTERISTICS

The electropump you have purchased has been designed and manufactured in compliance with the following directives:

- EU DIRECTIVE for the safety of electric pumps
 - IEC 60335-2-41:2012 in congiunzione con IEC 60335-1:2010, AMD1:2013, AMD2:2016,
 - EN IEC 60335-2-41:2021 + A11:2021 in congiunzione con EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021 dev. Europa, Australia, NZS, Qatar, Arabia Saudita
- EU DIRECTIVE Electromagnetic Compatibility
 - CISPR 14-1:2020 equivalente EN IEC 55014-1:2021
 - CISPR 14-2:2020 equivalente EN IEC 55014-2:2021
- EU DIRECTIVE Limits for harmonic current emissions
 - EN IEC 61000-3-2:2019 + A1:2021
 - EN IEC 61000-3-2:2018 + A1:2020
 - EN IEC 61000-3-3:2013 + A1:2019 + A2:2021
 - IEC 61000-3-3:2013 + A1:2017 + A2:2021

7. ELECTROPUMP DESCRIPTION AND USE

7.1 DESCRIPTION

Description: SURFACE ELECTROPUMP WITH BUILT-IN ELECTRONIC DEVICE

Type: SELF-PRIMING (ELECTRONIC EXCLUDED)

Model: HYDROSTATION

7.2 USE FOR WHICH PUMPS ARE DESIGNED

Domestic water boosting, small-scale garden watering, treatment of clean water in general, handling of drinking water.

Use the electropumps based on their technical specifications.

7.3 USE FOR WHICH PUMPS ARE NOT DESIGNED

The pumps cannot be used to handle:

- dirty water or water with solids in suspension;
- water containing acids or bases, and corrosive liquids in general;
- water with a temperature over the temperature limit given in table (see Chapter 8.1);
- seawater;
- flammable liquids and hazardous liquids in general.

The electropumps must never be made to work without liquid.

8. TECHNICAL DATA

8.1 HYDROSTATION TECHNICAL DATA

Processed liquid [type]		Clean water
Temperature [C°]	Liquid	+5 +45
	Ambient	+5 +50
Max working pressure [Mpa]		0,6
Nominal flow [m³/h]		5,4
Threaded connection compliant to UNI ISO 228	Suction	GF 1"
	Discharge	GF 1"
Voltage [Vac]		~220-240
Accepted voltage fluctuation		± 15%
Max current [A]		4,6
Nominal power	[kW]	0,8
	[HP]	1,1
Expected Cosφ		0,8
Motor efficiency		95%
Protection degree		IP65
Efficiency class		IE5
Noise level [dBA]		<43*
Max start per hour		60
Applicable test standard		ISO 9906:2012 – Grade 3B

The table gives maximum sound emission values for the electropump.

* Sound pressure level - Average value of measurements taken one metre from the pump. Tolerance ± 2.5 dB.

9. INSTALLATION AND DISMANTLING, TRANSPORT AND STORAGE

ATTENTION!



INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ENGINEER.

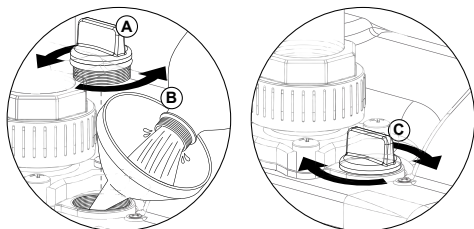
ATTENTION!

USE THE HANDLE TO LIFT OR MOVE THE ELECTROPUMP, IF IT HAS ONE, OR HOLD IT IN YOUR HANDS: NEVER USE THE POWER CABLE.

9.1 FILLING THE PUMP

ATTENTION!

OPERATION TO BE PERFORMED WITH UNPLUGGED CABLE AND PLUG.



- Unscrew the cap located on the top of the pump casing;
- With the aid of a funnel, fill the pump with water to overflowing
- Screw the cap back on until it is locked tight to prevent air getting in

9.2 GENERAL INSTALLATION PRECAUTIONS

- Use metal pipes in order to avoid their yielding because of the depression created at suction;
- support and align pipes so that they do not put any stress on the pump;
- avoid throttlings caused by bending suction and delivery hoses;
- seal any piping connections: air infiltration in the suction pipe negatively affects pump operation;
- we recommend that a gate valve are installed on the delivery pipe at the electropump outlet;
- fix the piping to the reservoir or to any fixed parts so that it is not supported by the pump;
- do not use a lot of bends (goose-necks) and valves;
- if the pump is installed over head, the suction pipe should be fitted with a foot valve and filter in order to prevent foreign bodies from entering and its end should be immersed at a depth that is at least twice the diameter of the pipe; its distance from the bottom of the reservoir should also be one and a half times its diameter. For suction longer than 4 metres use an oversized pipe (1/4" wider at suction for improved efficiency);
- Force exclusion of dry run protection by holding down the restart button for up to 5 minutes (only in above-deck installation condition);
- In case of failure to start after 5 minutes, release the restart button, disconnect power, wait 10 minutes, and repeat the operations described in chapter 9.1.

9.3 INSTALLATION

- Position the pump on a flat surface that is as close as possible to the water source. Leave enough space around the pump to allow safe use and maintenance. A free space of at least 100 mm must be kept in front of the cooling fan of surface pumps in all cases;
- use pipes of suitable diameters fitted with threaded sleeves that must be screwed onto the pump suction and delivery unions.
- HYDROSTATION cannot be used outdoor except as stated

9.4 DISMANTLING

The following must be done when moving or dismantling the pump:

- disconnect the electric supply;
- remove the delivery and suction pipes (where present) if too long or bulky;
- if present, unscrew the screws that secure the pump to its supporting surface;
- if present, hold the power cable;
- lift the pump using suitable equipment

9.5 TRANSPORTATION

The electropump is packed in a carton box, in any case, the transport does not present any particular problems.

9.6 STORAGE

- The product must be stored in a covered and dry place, far away

- from heat sources and protected against dirt and vibrations.
- Protect the product against damp conditions, heat sources and mechanical damage.
- Do not place heavy objects on the packaging.
- The product must be stored at an ambient temperature between +5°C and +50°C (41°F – 122°F) with a relative humidity of 60%

10. ELECTRICAL CONNECTION

IT IS ADVISABLE TO INSTALL A HIGH INTENSITY DIFFERENTIAL SWITCH (0.03 A)

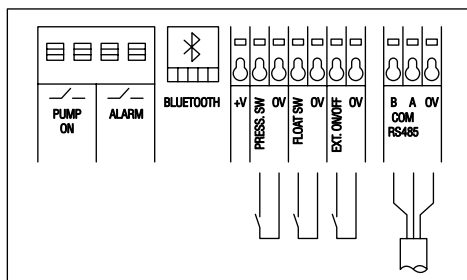
ATTENTION!



The plug must be connected to the mains in an indoor ambient far from sprays, water jets or rain and it must be accessible.

The mains must be reliably earthed, according to the electrical regulations in force in the user's country: this is the installer's responsibility.

11. AUXILIARY CONNECTION



Bluetooth	Optional Bluetooth plug-in position
+V	+12Vcc main contact
Press SW / OV	External pressure switch input
Float SW / OV	Float switch input
Ext On/Off / OV	ON/Off remote input
COM RS485	Communication input between devices

12. USE AND STARTING

NEVER ALLOW THE PUMP TO OPERATE WITHOUT WATER. DOING SO CAN SERIOUSLY DAMAGE THE INTERNAL COMPONENTS.

12.1 GENERAL WARNINGS

- Our surface pumps are designed to operate at a temperature no higher than 50°C and a sea level no higher than 1000 metres;
- The pump cannot be used in swimming pools or similar plants;
- Prolonged pump operation with the delivery pipe closed can cause damage for overheating;
- Avoid switching the pump on and off more than 50,000 times a year. If the pump operates on and off for more than 50,000 times per year, the pump life may be shortened and there is a risk of premature failure. Regarding the maximum number per hour, please refer also Chapter 8;
- During power cuts, it is advisable to disconnect the power to the pump;

12.2 STARTING

- Connect the pump to the main power;

- b) Start the pump two or three times to check system conditions;
 c) Restrict the delivery to cause a rapid pressure increase for a few times;

12.3 STOPPING

- a) Gradually interrupt water circulation in the delivery section to avoid overpressure in the piping and pump caused by water hammering;
 b) Cut off the power supply.
 c) Make sure that the noise, vibration, pressure and electrical voltage levels are normal.

13. MAINTENANCE AND REPAIRS

We recommend periodically checking that the pump is working correctly; pay particular attention to any abnormal noise or vibration and, any mechanical seal leaks.

When the pump remains inactive for a long period, it should be emptied completely, removing the discharge and filling caps.

13.1 TROUBLESHOOTING

DISPLAYED FAULT	CAUSE	REMEDY
THE PUMP DOES NOT WORK The motor doesn't turns	No electricity	Check the electrical supply meter
	Plug not inserted	Check the connection to the power supply
	Float sticking	Check that the float reaches the level ON
	Thermal protection activated	It reactivates automatically
THE PUMP DOES NOT WORK The motor turns	Decrease in the line voltage	Wait for voltage to return to normal
	Suction filter / hole blocked	Clean the filter / hole
	Foot valve blocked	Clean the valve and check its operation
	Pump not primed	Prime the pump Check any delivery non-return valves Check the liquid level
THE PUMP WORKS with a reduced flow rate	System undersized	Re-examine the system
	System dirty	Clean the piping, valves, filters
	Leaks from piping	Check the joints
	Pressure too high	Recheck the system
	Water level too low	Switch off the pump or immerse the foot valve
THE PUMP STOPS AFTER WORKING FOR BRIEF PERIODS Thermal protection intervention	Liquid temperature too high	The temperature exceeds the technical limits of the pump
	Internal fault	Contact the nearest retailer
THE PUMP VIBRATES Or is too noisy du - ring operation	Flow rate too high	Reduce the flow rate
	Cavitation	Contact the nearest retailer
	Irregular piping	Fix in a better way
	Incorrect priming	Bleed the pump and/or fill it again

DISPLAYED FAULT	CAUSE	REMEDY
THE PUMP VIBRATES Or is too noisy du - ring operation	Foreign bodies sliding along the motor fan	Remove the foreign bodies

13.2 ALARM CODES

AL.	DESCRIPTION	REMEDY
E1	Temperature alarm	Automatic reset once the temperature drop down
E2	Over range main Voltage	Check the main voltage / Automatic restart once the Voltage come back in the range
E3	Overvoltage	Blocked motor / 3 attempts of automatic restart
E4	Phases short-circuit	Contact the nearest retailer
E6	Failed pressure sensor	Change the pressure sensor
H1	Dry run / suction issues	Check the water availability
H2	Hourly restarts over limit	Reset
C1	Communication issues between devices	Check the proper connection between devices

14. DISPOSAL



This product falls within the scope of Directive 2012/19/EU regarding the management of electrical and electronic equipment waste (WEEE). Electronic-electrical equipment must not be disposed of with domestic waste as it is made of various materials that can be recycled at the appropriate facilities. Inquiries should be made through the municipal authorities regarding the location of the ecological platforms that receive products for disposal and their subsequent correct recycling. Furthermore, it is worth remembering that, upon purchase of an equivalent appliance, shops are obliged to collect the product for disposal free of charge. This product is not potentially dangerous for human health and the environment, since it does not contain harmful substances as per Directive 2011/65/ EU (RoHS), yet if abandoned in the environment it has a negative impact on the ecosystem. Read the instructions carefully before using the appliance for the first time. It is recommended that you do not use this product for any purpose other than that for which it was intended; there is danger of electric shock if used improperly. The crossed-out bin symbol found on the appliance label indicates the compliance of this product with the regulations regarding electrical and electronic equipment waste. Abandoning the appliance in the environment or its illegal disposal is punishable by law. Specific cases are, however, indicated in the "DISPOSAL" chapter in PART 2. This symbol on the pump means that it cannot be disposed of with household waste. According to Article 9(1)(i) of the Waste Framework Directive 2008/98/EC and to the 1907/2006 REACH regulation, all EBARA products have been notified to the European Chemicals Agency (ECHA). To consult the SCIP Number with related information on the safe use of the product see section "Company Certifications" on the website www.ebara-europe.com

MANUFACTURER **EBARA PUMPS EUROPE S.P.A.**
Via Campo Sportivo, 39 38023 CLES (TN) ITALY

PRODUCTS **ELECTROPUMP**

HYDROSTATION

DIRECTIVES **APPLICABLE DIRECTIVES AND REGULATIONS**

- Supply of Machinery (Safety) Regulation 2006
- Electrical Equipment (safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016
- Ecodesign for Energy-Related Products Regulations 2019
- UK RoHS Regulation

STANDARDS **APPLICABLE STANDARDS**

- BS EN 60335-1:2012+ A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021
- BS EN 60335-2-41:2012+A11:2021
- BS EN IEC 56014-1:2021
- BS EN IEC 56014-2:2021
- BS EN IEC 61099-3-2:2016 + A1:2020
- BS EN IEC 61099-3-3:2013 + A1:2019 + A2:2021
- BS EN IEC 63090:2018

DECLARATION **DECLARATION**

We, **EBARA PUMPS EUROPE Spa**
Via Campo Sportivo, 39
38023 CLES (TN)

*declare under our sole responsibility that all the above mentioned products
complies with all the Directives indicated in this declaration.*

*Person authorized to compile technical file and empowered to sign the
UKCA declaration of conformity.*

SIGNATURE: Mr. Matsushita Minoru 

TITLE The legal representative

DATE: 26/02/2024

15. SERIES PRODUCT: HYDROSTATION

EN: EC DECLARATION OF CONFORMITY (TRANSLATED FROM ORIGINAL)

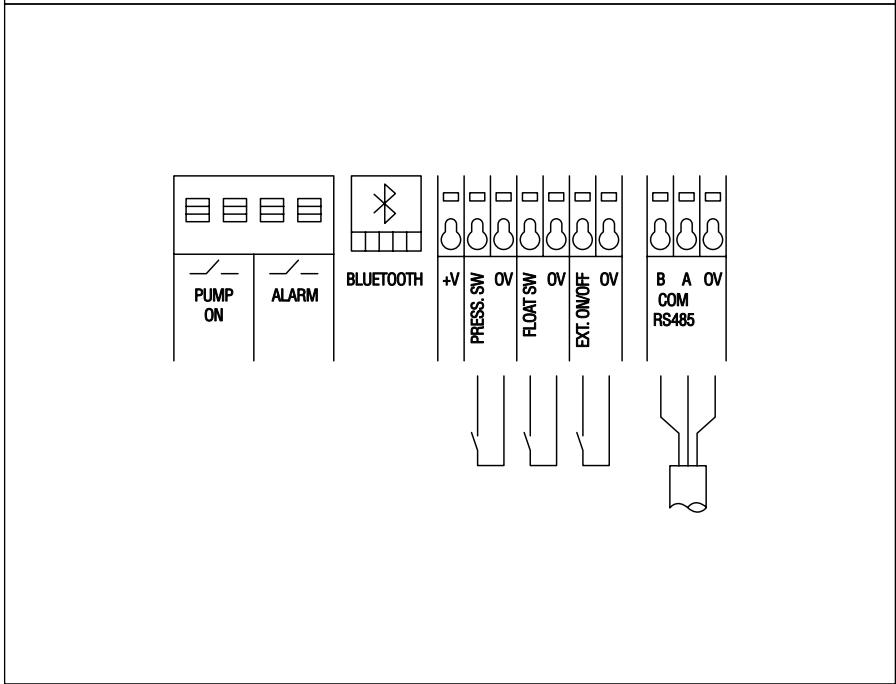
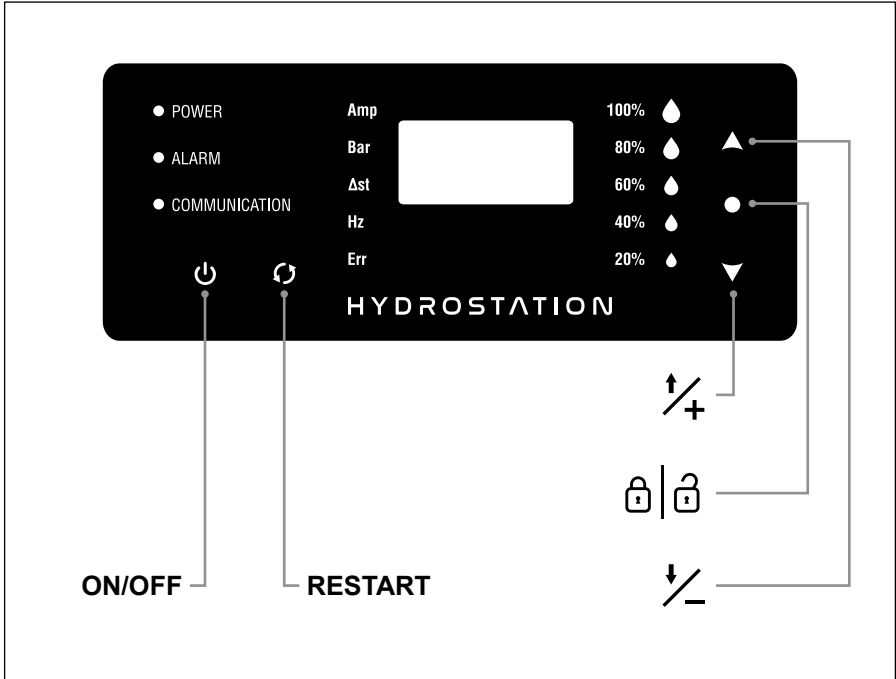
We, EBARA PUMPS EUROPE S.p.A., with head office in Via Campo Sportivo, 30 38023 Cles (TN) – ITALY, hereby declare under our own responsibility that our products complies to the provisions of the following European directives: Low Voltage Directive (LVD) 2014/35/EU & Machinery Directive (MD) 2006/42/EC. Standard used: IEC 60335-2-41:2012 in junction with IEC 60335-1:2010 + AMD1:2013 + AMD2:2016, EN IEC 60335-2-41:2021 + A11:2021 in junction with EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 + A15:2021 dev. Europa, Australia, NZS, Qatar, Saudi Arabia. EMC Directive 2014/30/UE. Standard used: CISPR 14-1:2020 equivalent EN IEC 55014-1:2021, CISPR 14-2:2020 equivalent EN IEC 55014-2:2021, EN IEC 61000-3-2:2019 + A1:2021, EN IEC 61000-3-2:2018 + A1:2020, EN IEC 61000-3-3:2013 + A1:2019 + A2:2021, IEC 61000-3-3:2013 + A1:2017 + A2:2021. RoHS Directive 2011/65/EU (RoHS II) & 2015/863/EU (RoHS III). Standard used: EN IEC 63000:2018. Directive RAEE 2012/19/EU ErP 2009/125/EC. This EC Declaration of Conformity is only valid if published as part of the manufacturer's installation and operating instructions.

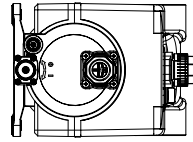
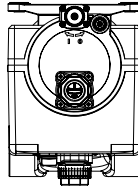
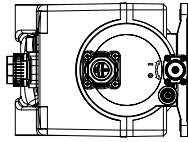
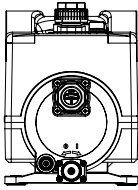
Gambellara, 26th February 2024



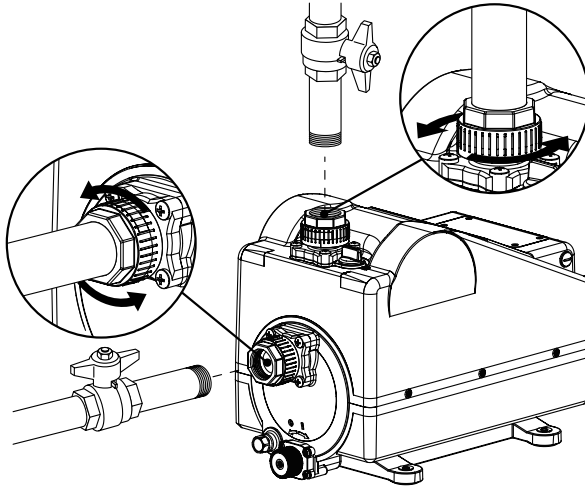
Mr. Minoru Matsushita
Managing Director
EBARA PUMPS EUROPE S.p.A
Via Campo Sportivo, 30
38023 Cles (TN) ITALY

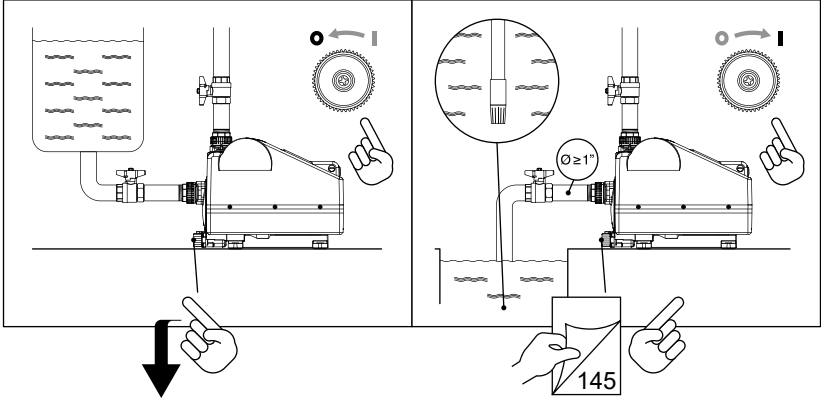
Person authorised to compile technical file and
empowered to sign the EC declaration of conformity.



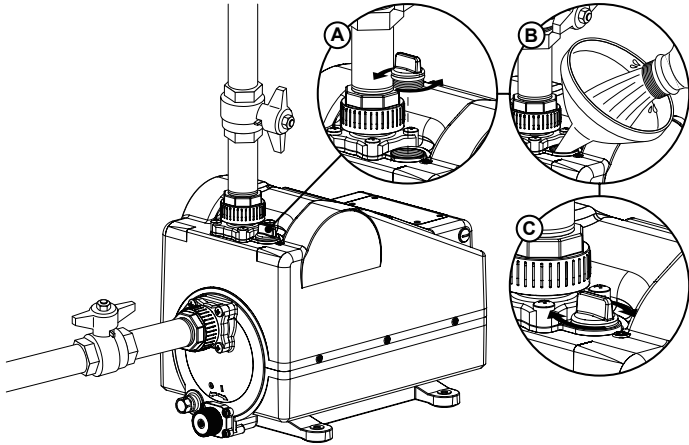


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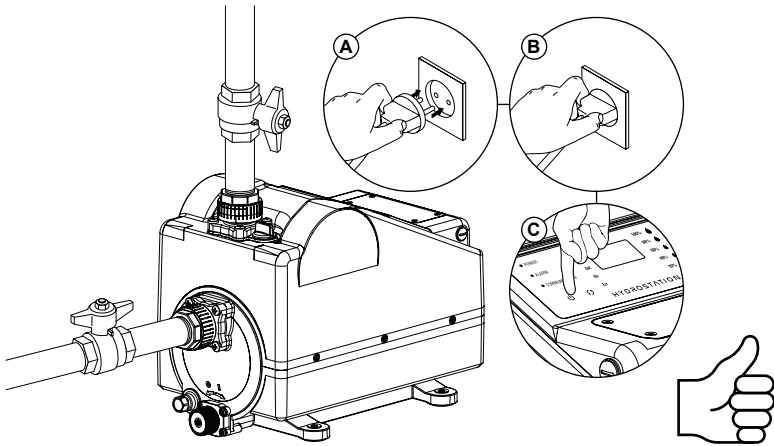


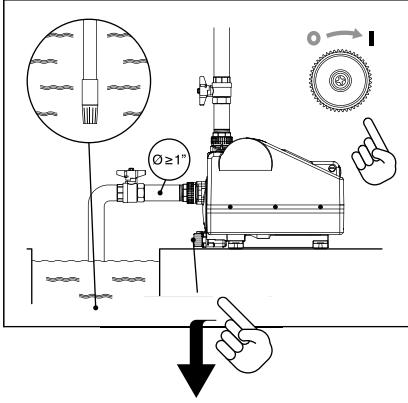


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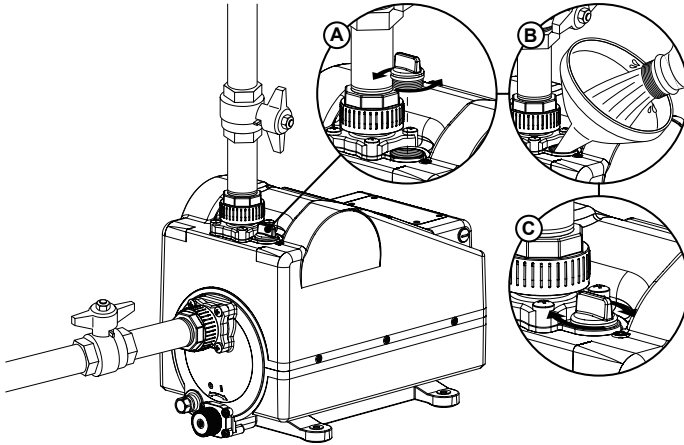


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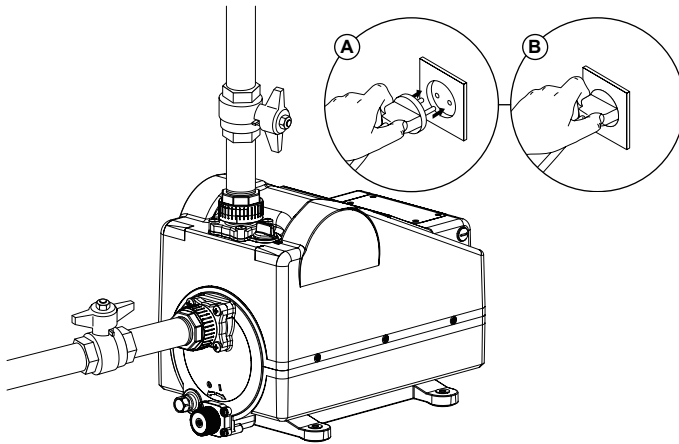




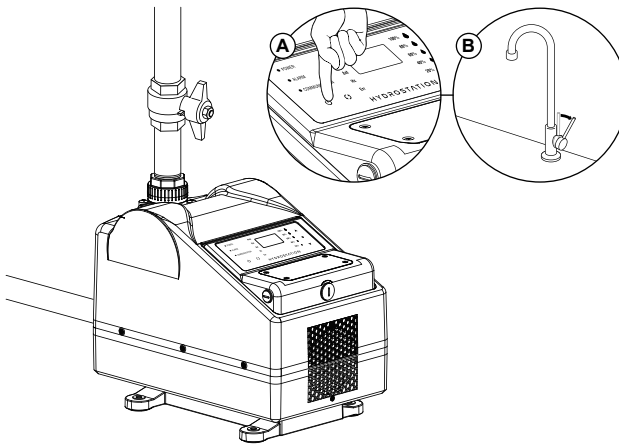
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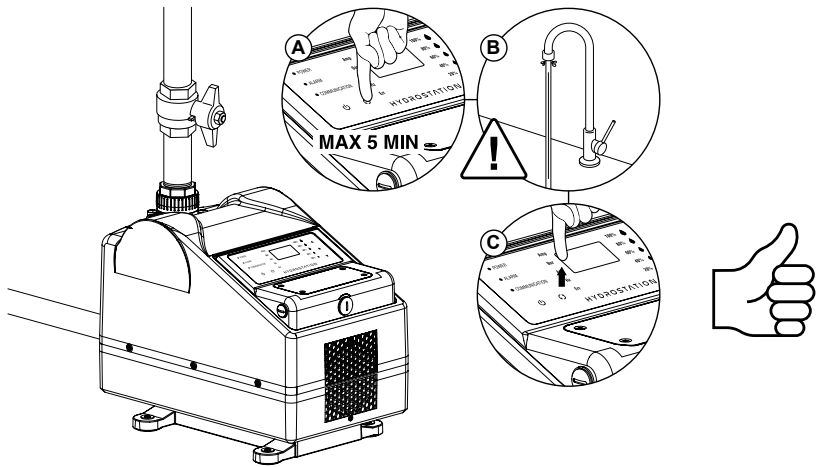
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4



5





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