PR©TEGE PUMPS



Contemporary Tower Solar Fountain

User Manual

[Revision 1.0 August 2023]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description, and packaging.



Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- Before Use If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases, or dust. The equipment may create sparks or heat that may ignite flammable substances.
- · Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- · Work areas should be clean and well it.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly.
 Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not overreach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol, or medication
- This equipment is not intended for use by persons with reduced physical, sensory, or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable

 keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start, or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors CAN KILL IN MINUTES. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors, and vents.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage, or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application.
 Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases, or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids, or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.



General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or quards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories, or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.

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 Replace worn, damaged or missing warning/safety labels immediately.

Outdoor Solar Fountain Safety

- · Do not strike the solar panel.
- Do not put the solar panel behind a glass or be covered by the shade, even just a part.
- Do not hang the solar panel upside down, plug the jack when the jack is not use.
- · Do not let the pump run dry for long time.
- Do not lift the pump by the power cord.
- · Operate in freshwater only.



Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.



Flammable Material Hazard

Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.



Read User Manual

Read and fully understand product safety warnings, operation, procedures etc before using the product.



Use Hand Protection

Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.



Carbon-Monoxide Hazard

Do not use the product in confined areas or without adequate ventilation. Carbonmonoxide poisoning can be fatal.



Electrocution / Electrical Shock Hazard

High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.



Toxic Fumes / Dust Hazard

Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.



Explosive Material Hazard

Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.



Cutting / Amputation Hazard

The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.



Crush Hazard

The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.



Single Operator Only

The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.



Use Face Protection

Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.



Use Foot Protection

Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.



Use Eye / Ear / Head Protection

Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing, and head hazards.



Running Hazard

Do not run on or near the product as doing so may present a fall hazard.



Diving Hazard

Do not dive into the product as doing so may present a neck / head injury hazard.



Adult Supervision Required

Always supervise children and other users of a product to prevent drowning or injury.



Skin Penetration / Puncture Hazard

The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.



Hot Surface Hazard

Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.



Flying Debris Hazard

Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.



Moving Parts Hazard

Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.





Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbonmonoxide poisoning can be fatal.



Pull Hazard

Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.



Slope / Fall Injury Hazard

Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.



"Slam Dunk" Warning

Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.



Electrocution / Electrical Shock Hazard - Outdoor

High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp, or wet conditions. Electrical shock can be fatal.



Electrocution / Electrical Shock Hazard - Disconnect

High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.



Power Line Electrocution Hazard

High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.



"Kick-Back" Hazard

High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.



Winch Operator Position Hazard

Do NOT stand between winch and load. Do NOT use winch to move people.



Winch Lift Hazard

Do NOT LIFT load vertically. Use machine to PULL only.



Cable Hazard

Ensure that load bearing cable is not kinked or knotted.



Winch Cable Hazard

Ensure that there is a minimum number of cable coils on winching mechanism.



Winch Hook Hazard

Carry hook to load - do NOT throw or run.



Flash / Blinding Hazard

Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.



Laser Hazard

Laser may be in use - do NOT look directly at laser or allow others to.





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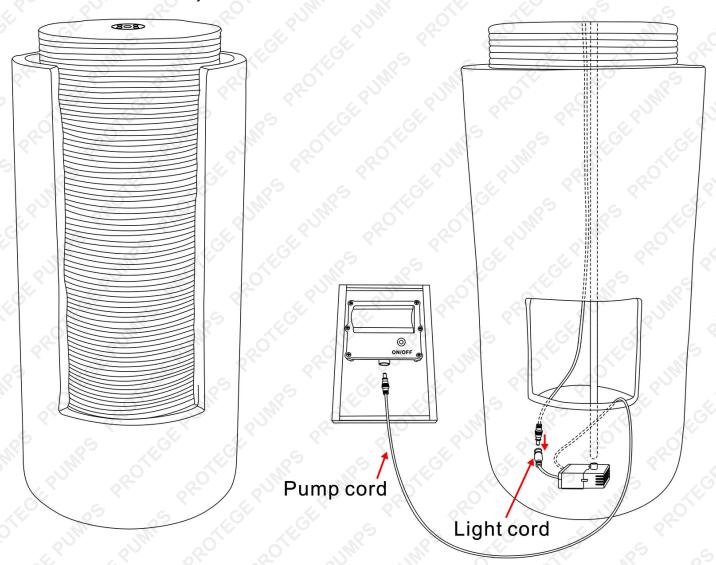
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Assembly

- 1. Take out all parts of the packaging.
- 2. Fill the solar fountain with clean tap water.
- 3. Place the pump underwater and make sure that it is fully immersed in water. In case the pump tube is too far from the surface of water.
- 4. Connect the pump cable to the socket of the control box on the rear side of the solar panel; Light wire connector and pump taillight wire connector should be connected well before putting in the water (If the fountain has lights).
- 5. Make sure to put the solar panel in direct sunlight shines.

The solar fountain is now ready for use.





Solar Pump

Overview

- The solar pump is designed for fountain, pond, or outdoor use. To the solar pump to operate, the solar panel needs to be in direct sunlight.
- This solar pump is equipped with battery pack and can be switched on and off by a touch switch on the control box.

CAUTION! Do not strike the solar panel. Do not put the solar panel behind a glass or be covered by the shade, even just a part. Do not hang the solar panel upside down, plug the jack when the jack is not use. Do not let the pump run dry for long time. Do not lift the pump by the power cord. Operate in freshwater only.



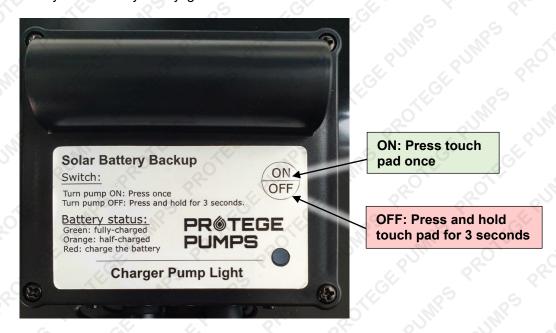
Operation

CAUTION! Do not strike the solar panel. Do not let the pump run dry for long time. Do not lift the pump by its power cord. Operate in freshwater only.

This solar pump is designed primarily to operate in sunlight hours and always charge extra energy to battery to allow use later "on demand" in cloudy day or nighttime. The pump will turn to solar mode automatically on the next day in daylight hours. The pump will never run on battery mode until you press the button.

Turning ON the Pump

Press once to turn on the pump, the pump will run certain hours (ref to battery status) and turn to solar mode. The pump will operate automatically the next day in daylight hours.



Charging the Battery

Press and hold for 3 seconds to Turn OFF the pump and fully-charge the battery with solar energy during the day. Turn ON the pump when you need it (on demand).

Battery Status

- Green: Battery is full charged. Pump will run around 4-6 hours.
- Orange: battery is half charged. Pump will run around 2-4 hours.
- Red: battery needs to be charged. Pump will run less than 1 hour.

NOTE: The indicator light will blink when the pump is turned ON, the indicator light is solid when pump off.



Pump performance in different weather conditions:

Weather	Pump on Charge extra solar energy to battery	Pump off Charge full solar energy to battery		
*	Solar runs the pump and charges the battery. Pump performance is maintained when clouds pass. Pump runs on fully half an hour longer into the evening.	Battery should be fully charged in 1day.		
*	Solar runs the pump and supplies extra energy to the battery. Performance is maintained when the clouds pass. Pump will only run a shorter period of time into the evening.	Battery will take 2 to 3 days to fully charge.		
PE PUT	Pump will only run when there is sufficient power from the battery. Little or no battery charging occurs so pump performance is not maintained.	Battery will take several days to fully charge.		
7. (7.	No solar power is available, pump will not run and battery will not charge.	Battery will not charge.		

If the pump stops running when cloudy or at night, and you want the pump to run for certain hours, press to turn ON the pump, the pump will run certain hours until battery runs out.

NOTE: LED lights will only function at night.



DANGER - BATTERY CHARGING, USE AND STORAGE

Like mobile phones, laptops, cordless vacuum cleaners etc, this product may contain or be related to a lithium ion battery pack (lithium ion batteries and lithium ion battery related items only). Lithium ion batteries allow fast charging and high capacities, however care must be taken to reduce chances of a fault, and increase safety in case a fault occurs. Catastrophic incidents involving lithium ion batteries have a tendency to result in large amounts of smoke and fire. Be sure to follow the points below to reduce the likelihood of danger whenever you use, charge or store any lithium ion battery.

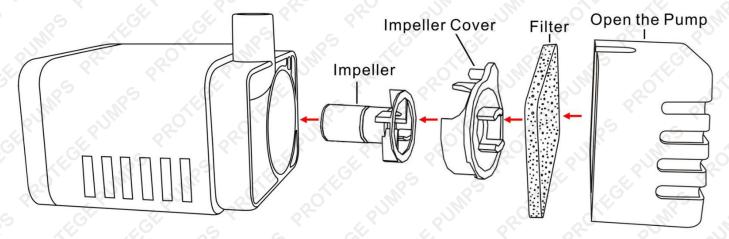
- Never charge a battery that has been damaged or subjected to a forceful impact.
- Never charge a battery that has been exposed to moisture or water.
- Never charge a battery with a charger that wasn't supplied with the battery.
- Never use a battery in a device that it wasn't specifically designed for.
- Never use a battery with a modified or damaged device.
- Never modify the battery, product, charger, circuitry or wiring.
- Never charge a battery in an exit path that may be used by people to leave a room or building in case of an emergency, for example, the hallway or foyer of a residence.
- Never charge a battery in an area or building that doesn't have the recommended number of working smoke detectors that have been tested in accordance with local guidelines.
- Never charge a battery when the battery or charger is displaying a problem or charging incorrectly.
- Always charge batteries on a non-combustible surface, for example, on a concrete floor.
- Always charge batteries at least 3m away from anything combustible, such as floors wall surfaces, furniture, storage shelves etc.
- Always charge batteries in an open area (outside if possible) ensuring the battery and charger are away from moisture and water.
- Always disconnect batteries from the charger after charging.
- Always remove or disconnect batteries from the device/product when not in use.
- Always ensure batteries are charged under adult supervision. Do not charge unattended. Do not charge batteries while no one is home or while people are sleeping.



Cleaning, Maintenance, and Storage

Pump

If after a period of time, the pump starts to lose power or stops working check for the build-up of sediment, scales, or dirt in the filter. Remove the pump cover and the impeller cover. Clean them and the filter by fresh water.



Solar panel

The panel should be cleaned periodically with a soft tissue. Regular cleaning of the panel is advised to maintain optimum conversion of the sun's energy into direct current.

Storage

- Please charge the battery for at least a day in direct sunlight when the first time using the solar pump or when you store the solar pump for a winter.
- To keep the battery long life, please charge the solar pump to fully charge status and plug-out the pump from the solar panel before you store the solar pump into warehouse.



Troubleshooting

Pump does not operate even though the solar module is under full sunlight.

- No connection to the solar module check connection to the solar module.
- Impeller is blocked To clean the pump, remove the front plate and the impeller. Use a small brush or stream of water to remove any debris.

Pump operates, but there is no water running through the fountainhead.

Check for any build-up of sediments or scales in the tubes or the filter. clean the tubes and the filter.



Feet brings

Specifications

ontemporary Tower Solar	<u>′</u>	INPS MPS	Kigy ,	College Se	PUMPS
Specificati	ons	420			A MARKET AND A MAR
Pump Motor	Brushless DC				
Operating voltage	7.4V				
Battery Type	Lithium				
Maximum flow rate	350L/H				
Cable length	0.6M				
Solar Panel	3W				
PROTECT PUMPS PROTECT		© 2023 Protege Pum			FEEF PUMPS ARCHERE P
&OE		© 2023 Protege Pum	ps E III		PROTEGY SE
Dr. Gilby SE		July	KEGY /		



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging, and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear, or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear, or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business, or employee, or financially affect the user, business, or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement, or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.



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