

CAUTIONS / WARNINGS

- ✧ Any alteration of the product or the components will void warranty.
- ✧ Do not connect the pump directly to any AC voltage power; it is intended ONLY for DC Voltage power.
- ✧ The Hybrid Charging Cable is intended for INDOOR USE ONLY.
- ✧ Operate in freshwater only (never above 50°C)
- ✧ Keep away from flammable liquids.
- ✧ Do not let the pump run dry.

TROUBLE SHOOTING

(a) **Pump does not operate when solar panel is in full sunlight.**

CHECK: All Wiring and connections from pump to the solar panel.

CHECK: If Impeller is blocked with debris, clean the pump as described in previous section.

(b) **Pump does operate but there is no water running through the fountain head.**

CHECK: Build up of sediment or scale in the tubes or the filter. Clean the tubes and the filter.

(c) **Operating time is shorter than preset time.**

Not enough electricity stored in the battery. Charge properly or replace battery.

TECHNICAL DATA

Item Number: AD40070 | **Maximum Flow Rate:** 300 L/H | **Solar Module:** 3W |
LED Light (Voltage): DC 6V | **Maximum Lift:** 1.2 meter | **Pump (Voltage):** DC6-10V |
Rechargeable Battery: Lead Acid 6V-4AH

WARRANTY

- Pump and solar panel are covered by a one year limited warranty
- Battery and Lights are covered for 90 days.

For more information on our solar items, please visit our web site:

www.angelodecor.com

To contact us regarding this unit, your options include:

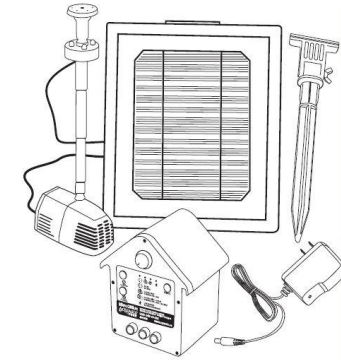
Email: info@angelodecor.com

Phone: 780 – 453 6646 | Fax: 780 – 453 6620

80 GPH HYBRID SOLAR PUMP AD40070

BEFORE YOU BEGIN – ASSEMBLY

- Unpack all components.
- **Fully charge the battery** with the hybrid charging cable plugged into an indoor power receptacle. The indicator light will be RED when charging and turns GREEN when the charging cycle is complete.



- 80 GPH PUMP WITH PRE-FILTER
- SOLAR PANEL WITH STAKE
- 16 FOOT CORD
- LED LIGHT RING
- HYBRID CHARGING CABLE (7V)
- BATTERY HOUSE CONTROL CENTRE
- CONVERTIBLE SPRAY NOZZLE (WITH 5 DIFFERENT SPRAY FEATURES)
- 4 EXTENSION TUBES

PREPARATION FOR USE - FOUNTAIN

- Install the pump in the reservoir area ensuring it is completely submerged in water.
- Connect the pump cable to the appropriate socket of the Control Centre.
- Connect the optional LED light cable to the socket of the Control Centre (if required).
- Attach the stake to the back of the panel and place the panel in a suitable location. The solar panel should be pointed South at an angle that captures the most sunlight.
- Connect the Solar Panel to the Control Centre.

PREPARATION FOR USE - POND

- Choose the style of fountain head and number of extension tubes required for proper height.
- Connect fountain head and/or LED light to the pump as required.
- Connect the pump cable to the appropriate socket of the Control Centre.
- Connect the LED light cable to the socket on the Control Centre.
- Place the pump under water, ensuring it is **fully submerged**. Adjust height of unit so fountain head is just above the water surface.
- Attach the included stake to the back of the panel and place the panel in a suitable location. The solar panel should be pointed South at an angle that captures the most sunlight.
- Connect the Solar Panel to the Control Centre.

OPERATING INSTRUCTIONS

To turn the pump on, press the **ON/OFF** button on the Control Centre. Press the button again to turn the pump off. This pump features 3 different modes. To cycle between them press the **MODE** button when the power is on.

OPERATION MODES



SOLAR POWER MODE – the pump will operate at any time that the panel is exposed to sufficient sunlight. You may experience periods of fluctuation during cloud-cover or on occasions where the solar panel does not obtain enough light to power the pump. Ideal for regular daytime use.



DAILY 4-HOUR MODE – this setting will operate the pump for a timeframe of 4-hours at the same time every 24-hours. To program the time that this will occur at, turn the pump on and toggle to the Daily 4-Hour mode at the desired time, for example 5 pm. The pump will now operate for 4 hours at 5 pm every day until either the power is turned off or a different mode is selected.



DAILY 2-HOUR + SOLAR MODE – this setting will operate the pump for a timeframe of 2-hours at the same time every 24-hours and will also operate the pump at any other time that the solar panel is exposed to sufficient sunlight. To program the time that this will occur, turn the pump on and toggle to the Daily 2-Hour + Solar mode at the desired time, for example 7 pm. The pump will now operate for 2 hours at 7 pm every day or at any other time the solar panel is exposed to sufficient sunlight until either the power is turned off or a different mode is selected.

ON DEMAND FUNCTION



This pump also includes an ON DEMAND function which when pressed will instantly power your pump for up to 4 hours then revert to the previous mode without changing any settings. The performance of the ON DEMAND function is affected by the amount of power stored in the battery at the time that the button is pushed, so operation times may vary during periods of continuous use or insufficient charging. You can turn the ON DEMAND function off at any time by pressing the ON DEMAND button again otherwise it will revert to the previous mode on its own.

ADJUSTING WATER FLOW

Pump flow can be adjusted with the dial at the top of the Battery Control Centre. Turning the dial clockwise will increase flow while turning it counter-clockwise will decrease flow. Flow is automatically reset to LOW every time the power is turned OFF or a different MODE is selected.

IMPORTANT NOTES

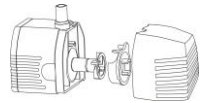
- The solar panel will ONLY charge the battery when the Battery Control Centre is turned ON. The LOW BATTERY indicator light will blink at any time that the power is low and the battery needs to be charged. The battery can be charged with the solar panel (when the Control Centre is turned on) or by using the charging cable.
- The performance of this solar pump is directly related to the amount of charge the battery obtains via the solar panel or when plugged-in to an electrical outlet using the charging cable. Performance will vary based on the conditions of use.
- Switching modes cancels any previous programming, as does pressing the ON/OFF switch.
- The LED light is activated by a sensor in the panel and will only turn on at night.
- Battery performance is affected by the volume of flow. Using lower flow settings will help to conserve battery power and increase the longevity of the battery.
- The battery should be charged on a regular basis.

During prolonged periods of inactivity or for winter storage we recommend charging the battery every 3 months at minimum.

CLEANING AND MAINTENANCE

Solar panel: Regular cleaning of the panel with a soft cloth is advised to maintain optimum conversion of the sun's energy into direct current.

Pump: To prevent build up of sediment, scale or dirt in the impeller or filter, remove the pump cover and the impeller cover. Clean parts with a soft brush, and a 30% vinegar / 70% water mixture.



REPLACING THE BATTERY

The rechargeable battery is sealed inside the Battery Control Housing, and has an intended life span of approximately 12 months. Replacements are available at most battery retailers or by request through our customer service department.

