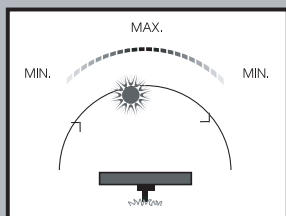
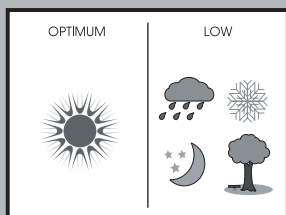




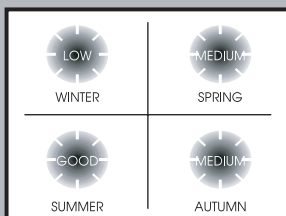
Solar Panel connector



PANEL PERFORMANCE



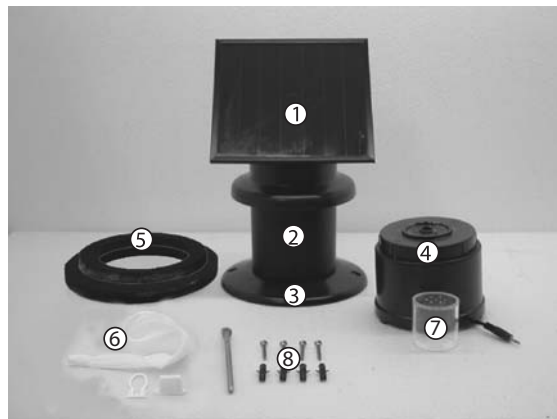
CONDITION FUNCTIONALITY



SEASONAL FUNCTIONALITY

In order for the pump to operate, the solar module needs to be placed in direct sunlight. The performance of the pump and the charging of the battery depend on the season and the position of the solar module.

## 4. Components



- |   |                    |
|---|--------------------|
| 1 Solar panel with battery unit             | 5 Float            |
| 2 Base                                      | 6 Anchor Sack      |
| 3 Stand                                     | 7 Fountain head    |
| 4 Pump body with integrated pump, LED light | 8 Fixing materials |

## 5. Assembling and using your product

**Unpack all components carefully.**

First join the plastic float to the pump body by offering the part to each other at a slight angle and then push the float firmly into place ensuring that the entire pump body is fully inserted.

Unroll the pump cable, which is hidden in the pump body.

Decide on a location for the Battery Unit. Either a wall, a concrete surface or a soft surface. Use the screws or spike provided.

Attach the panel base to the Solar Battery unit making sure the red arrows point to each other, then screw in the 2 screws. Place the pump into your pond. Submerge the pump body below water surface, to allow the air to escape from the system.

Attach the fountain head to the pump.

Connect the pump to the Battery. The Sunjet Magic 290 M is now ready to operate.

**Select main switch to "0":**

The Solar panel charges the battery and the pump does not work.

**Select main switch to "I" and battery mode switch on sun symbol:**

The pump operates in direct sunlight only. Depending on the level of sunlight the panel will also charge the battery pack.

**Select main switch to "I" and battery mode switch on cloud/moon symbol and press "hour" button:**

The pump is powered by energy from the battery. Once the Battery is activated the pump will run for 4 hours. After 4 hours press the "hour" button and the pump is activated again for 4 hours. Depending on the level of sunlight the panel may also charge the battery pack. If you run in this mode during darkness the integral lights will illuminate automatically.

## 6. Cleaning and maintenance

If after time the pump starts to lose power or stops working you should check for the build up of sediment or scale in the bottom of the pump housing or in the filter. Remove the pump from the pump body. Open the pump housing at its base. Remove the impeller. Remove any dirt or scale which has built up and close the case back up.

**Please note : make sure the underwater connector is absolutely dry before you reconnect it. To ensure the seal remains water-tight you must twist the solar pump connector plugs together rather than merely pressing together.**

The Solar module should only be cleaned with soft tissue and any mild, non-abrasive glass cleaning solution.

**Removing/Replacing the batteries:**

Use only original Smart Solar batteries. Remove the plug to the pump.

Turn the battery unit upside down and place the solar panel on a soft surface. Unscrew the 2-crosshead screws at the top of the base then unscrew the 3 crosshead screws.

Disconnect the battery and take out the battery.

**A new battery is fitted in reverse order.**

**Please note:** Used batteries must be disposed of carefully with regard to the environment and should NOT be put into the family waste.



Attach float to pump body



Pump body with fountain head



Attach base to solar unit



Main switch



Battery mode switch and timer button



Remove pump from pump body



Remove pump base



Clear impeller



Unscrew base to replace batteries



Check connection to battery unit

## 7. Functionality problems

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

- 1) No connection from the solar module to the battery unit - Check the connection.
- 2) Impeller is blocked or filter/pump housing is dirty - Clean the pump.

**Pump does not operate in battery mode or only for a short time.**

Check connection to the battery unit.  
Battery is flat - Replace the rechargeable battery pack.

**Light does not switch on in darkness.**

Another light source (street light) simulates daylight and prevents the light from switching on automatically.  
Position the Battery unit in a darker place.

## 8. Technical Data

Operation voltage:	8.4 V
Solar module:	8.4 V / 1.8 W
Pump performance:	max. 270 l/h
Fountain height:	50 cm (sun) 40 cm (battery)
Battery:	6 V Ni-Mh 3000 mAh
Battery operation capacity:	24 h (pump only) 15 h (pump and light)

**Important:** In winter the Sunjet Magic 290 M must be stored in a dry and frost-proof environment. The pump must never be operated dry (out of water). Dry operation permanently damages the pump.

## 9. Spare Parts

- |   |                   |
|---|-------------------|
| <b>1 Solar panel with battery unit:</b> | Item No. 2500M-01 |
| <b>2 Pump:</b>                          | Item No. 2500M-02 |
| <b>3 Light body:</b>                    | Item No. 2500M-03 |
| <b>4 Float:</b>                         | Item No. 2500M-04 |
| <b>5 Fountain head :</b>                | Item No. 2500M-05 |
| <b>6 Battery pack:</b>                  | Item No. 2500M-06 |

## 10. Full 2 year warranty

If within 24 months from the date of purchase this product fails due to a defect in material or workmanship. Smart Solar will replace or repair it free of charge.

**The warranty does not apply to:**

Damage caused by accidents, abuse, poor handling, frost or normal wear and tear. Products which have been subject to unauthorized repair, modification or the batteries used in this product.

For further information please contact your nearest service centre detailed on the last page of this instruction manual.

## Contents

1. Introduction
2. Security instructions
3. Overview
4. Components
5. Assembling and using your product
6. Cleaning and maintenance
7. Functionality problems
8. Technical data
9. Spare parts
10. Full 2 year warranty

**These instructions relate ONLY to the Sunjet Magic 290 M and contain important information for using the product for the first time. Please keep these instructions for later reference. They should always accompany the product in the event of transfer to a new user.**

## 1. Introduction

Thank you for purchasing the Sunjet Magic 290 M. You have purchased a product that complies with the latest and most up-to-date solar technology available.

This product complies with the European and National Standards. The relevant certificates of conformity are held by STI Group. To preserve these standards and in order to maintain safety you should adhere to the instructions for use detailed in this manual.

## 2. Security instructions

In the event of any problems arising or damage occurring as a result of misuse the manufacturers warranty will be deemed cancelled. The manufacturer is not responsible for any claims or damages arising from the misuse of this product. For safety reasons and in order to maintain standards (CE) you are prohibited from altering or changing any component in the Sunjet Magic 290 M.

**Please follow the instructions very carefully.**

For commercial applications due care and attention must be paid to the Health and Safety Standards in your jurisdiction.

## 3. Overview

The Sunjet Magic 290 M has been designed for outdoor use. A solar module powers the pump and at the same time charges a battery. The floating pump operates either on direct sunlight or while switched to battery mode, the power being delivered from the battery. During darkness the fountain will be illuminated automatically. The light changes every minute cycling through a spectrum of colors continuously.



Solar Panel and battery unit



Wall mounted Solar panel



Base and spike for floor mounting