CLEVER-POOL ENERGY SAVER

Installation, Operation & Maintenance Instructions



Please leave this instruction booklet with the owner as it contains important Maintenance and Safety information.

Read this manual carefully before commencing installation



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Manufactured to: EN61800-5-1:2007

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1. SAFETY AND CAUTION

1.1 READ BEFORE INSTALLATION

Clever-Pool uses vector frequency technology and is a highly advanced electronic device. To ensure personal and equipment safety, please read these instructions carefully before using.

There are marks [DANGER] or [CAUTION] in this book, please pay special attention to these areas when moving, installing, using or checking this product.

	1. Please ensure you have the correct power supply to the unit.
	 Please ensure the control panel is closed before connecting power to avoid electric shock or explosion.
	3. Please make sure you do not confuse the input and output terminals.
	4. If the Clever-Pool is stocked for over 2 years, please use a voltage adjuster to increase the voltage gradually during installation over a ten minute period.
	5. DO NOT touch the wire terminals when power is connected.
NGER	6. Wait for 10 minutes after the power is cut off and all indication lights are off before opening.
	7. DO NOT use wet hands for operation.
	8. Installation and repair on the Clever-Pool should only be carried out by a qualified electricia

1. SAFETY AND CAUTION

- 1. Installation must conform to all local safety standards.
- 2. Installation and Maintenance must be carried out by a qualified electrician.
- 3. Connect power only after control panel is closed, electric shock could otherwise occur,
- 4. Do not touch the terminals, electric shock will occur if this rule is broken.



- 5. Do not disconnect power wires if power is connected, serious personal damage will occur if this rule is broken.
- 6. NEVER touch circuit board or components.
- 7. Do not attempt a voltage duration test, Clever-Pool's semiconductor elements may be damaged.
- 8. Ensure adequate air ventilation in summer or high ambient temperature, this will avoid condensate being formed and possible electrical faults.
- 9. Please install the Clever-Pool in a dry, well ventilated and cool place.

1.2 PRODUCT CHECKS BEFORE INSTALLATION

Each Clever-Pool is fully tested at the factory. After delivery you will need to check for any damage caused by transportation, if so please DO NOT connect to a power supply.

2. PRODUCT DIMENSIONS AND PARAMETERS

2.1 DIMENSIONAL AND TECHNICAL PARAMETERS

AMETER SHEET	Dimension
	139
220V±15%	IIIsus Isus II
50Hz	
1~220V	248
SINGLE-PHASE	
MAX 2HP	
12A	
Manual or Auto	907
By air	
50Hz:1200~3000rpm	
	,
	Clever-Pool/220V Single-phase AC 220V±15% 50Hz 1~220V SINGLE-PHASE MAX 2HP 12A Manual or Auto By air

3. INSTALLATION AND FUNCTION GUIDE

3.1 INSTALLATION

3.1.1 INSTALLATION SKETCH AND DESCRIPTION

Sketch for Installation	Procedure and instruction	
	Use a cross-head screwdriver to take off the screws 3 as shown and plate 1	
San	Put plate 1 in your installation position and use screws 2 as shown to fix the plate 1 securely.	
	Put the control box 4 back onto plate and re-fix with screws 3 as shown.	
3 July	Connect the wire 6 as shown from the Clever-Pool to the pump.	
6	5. Connect plug 5 as shown to the correct power supply socket.	
	Strictly follow the operation steps as indicated in this manual.	

3. INSTALLATION AND FUNCTION GUIDE

3.2 RUNNING

3.2.1 CHECKS BEFORE RUNNING

- 1. Check if installation and connections are 100% correct.
- 2. Check if any metal or foreign objects have been left inside the product.
- 3. Check all wire terminals are tight.
- 4. Check there are no bare wires on the terminals touching other terminals.
- 5. Check the control panel is properly closed.
- 6. An RCD device MUST be fitted with the system.
- $7_{\scriptscriptstyle \pm}$ Check the power supply frequency is correct for this model.
- 8. If all connections are correct, run for a short duration without load.

3.4 PROGRAMMING GUIDE

3.4.1 MODES

- 1. The Clever-Pool has two running modes: Manual mode and Auto mode.
- 1.1 Manual mode is used when you are connecting to a timer. The system time settings are not required to run in this mode.
- 1.2 Auto mode is used when there is no salt chlorinator or timer and includes up to 4 separate timers with individual speed options. This is ideal for when you want to run your pool pump at different times and speeds to take advantage of the lower electrical consumption rates.
- 1.3 In stop and manual mode press the SET/RESET button once to switch to Auto Mode. In stop and Auto mode press the RUN/STOP button to switch to Manual Mode.

3. INSTALLATION AND FUNCTION GUIDE

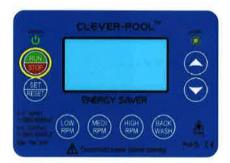
3.4.2 MANUAL MODE

In stop mode the display will now show MANUAL, LOW RPM and the speed in rpm.

Press the up or down buttons to select the speed. Alternatively press one of the systems, pre-set speed buttons LOW, MED,



Press the RUN/STOP button to put it into run mode, this will start the pump. The CLEVER-POOL will store the speed and resume at that speed when switched on again.



To stop the pump simply press the RUN/STOP button again.

3.4.3 MANUAL BACKWASH PROCEDURE

In stop mode press the SET/RESET button once. The display will now show MANUAL, LOW RPM and the speed in rpm.



Press the BACKWASH button. The display will now show backwash and the rpm.



Press the RUN/STOP button to put it into on mode, this will start the pump.



Press the RUN/STOP button to stop the pump

3.4.4 PROGRAMMING FOR AUTOMATED FUNCTION

4.1 Current time

In stop and Auto Mode, Press UP and Down button to set Current time,



Press the SET/RESET button to step over from hours to minutes. The display will then flash the minute digits.



Press the SET/RESET button to store the time. The display will now show the current time with flashing cursor and the word now shown at the top.

In stop mode press the SET/RESET button. The display should show CURRENT TIME, START TIME, STOP TIME and the stored time with hour digits flashing. This is the start time for AUTO MODE 1.



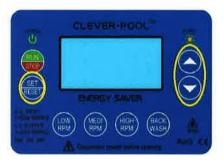
Press the up or down button to select the hours.



Press the SET/RESET button to step over from hours to minutes and from Start Time to Stop Time



Press the SET/RESET button to step to SPEED setting. The display will now show the flashing four digits for speed, which is the speed for AUTO MODE 1. Press the up or down button to change motor speed. Alternatively press one of the pre-set speed buttons LOW RPM, MEDI RPM, HIGH RPM.



Press the SET/RESET button to store the speed and step over to AUTO MODE 2. The display should show CURRENT TIME, START TIME, STOP TIME and the stored time with hour digits flashing. This is the start time for AUTO MODE 2.

Repeat steps above to set speed, start and stop times for AUTO MODE 2, 3 and 4. Pressing the SET/RESET button after selecting the speed for Auto mode 4 will finalise the timer settings.

The display will go blank and return to stop mode with the current set time displayed.

Alternatively if you only require one time period per day press the SET/RESET button to cycle through time a speed settings of the remaining TIMERS ensuring all start and stop times are set to zero's or to the same time period. Please note all settings for AUTO MODE 1 to 4 will be retained in the event of power loss.

After all timers have been set. The CLEVER-POOL will then start and stop the pump at set times and speeds.

4. BUTTON AND FUNCTION KEY

