

**E.SWIM**

**ELECTRONIC SWIMMING POOL PUMP**





### TECHNICAL DATA

Operating range: up to 132 Gpm with head of up to 50 feet.  
Pumped liquid: clean water, or slightly contaminated water with suspended solid debris, or long fibres; highly aggressive water with high percentage of chlorine/bromine and PHMB (Polyhexamethylene biguanide), or chlorine electrolysis treated water.  
PH Range: 6.5 - 8.4  
Pumped liquid temperature range: up to 104 °F  
Maximum ambient temperature: 122 °F  
Maximum operating pressure: 36 psi  
Nominal working pressure: 11.6 - 17.4 psi (ideally 14.5 psi)  
Installation: fixed, horizontal position  
Connectors on request: 2"/50 - 63  
(two connectors+O-ring - see "Accessories") kit  
Standard of reference: IEC - 60364.  
Protection class of the motor and the terminal box: IP X5  
Protection class at the terminal board: IP X5  
Insulation class: F  
Standard voltage: single-phase 230 V - 50/60 Hz.

### APPLICATIONS

E.SWIM is the most silent and energy-efficient electronic swimming pool pump with built-in high capacity strainer basket. E.SWIM combines advanced engineered hydraulic parts, frequency converter technology with a high efficiency permanent magnet motor. Due to its innovative water-cooled motor, the E.SWIM runs extremely quietly regardless of speed. Extremely quiet and highly reliable, developed for water circulation and filtration in domestic and residential swimming pools. Also suitable for specific applications requiring handling of aggressive liquids in the fishing, agricultural, and industrial sectors.

### CONSTRUCTION FEATURES

The impeller and volute are designed to achieve high efficiency, improving hydraulic performances and reducing energy consumption. Transparent antioxidant polycarbonate basket cover ensuring constant visibility over long periods. Fiberglass reinforced technopolymer hydraulics designed to ensure total cover and insulation of the motor shaft from the pumped liquid. Carbon / alumina / NBR / AISI 316 mechanical seal. Tool less Butterfly drain plugs.

E.SWIM is provided with synchronous brushless electric motor with encapsulated magnetic rotor, driven by frequency converter. Water-cooled motor (no motor fan), extremely quiet running. Die cast aluminium motor casing with special coating to avoid oxidation. Support base supplied with rubber feet to reduce vibrations.

E.SWIM pump is controlled by an electronic device based on Trench IGBT technology of the latest generation for higher efficiency and robustness.

Two dedicated 32-bit processors (one for motor control and one for the user interface), intuitive user interfaces, and external input (0-10V or 4-20 mA or PWM signal) ensure ease of setting for all users.

Its on-board computer and intelligent software can operate at different constant speeds or programmable constant flow (totally sensor-less) to optimize performance and minimize energy use.

### HIGHLIGHTS

- NOISELESS New water cooled motor
- HIGH EFFICIENCY Thanks to the new brushless motor, new hydraulics & new electronic motor control
- DESIGN Modern and compact
- RELIABLE Components designed for long life
- RANGE REDUCTION One model covers the performances of 4 pumps (0.5 HP, 0.75 HP, 1 HP, 1.5 HP)

### DISPLAY FEATURES

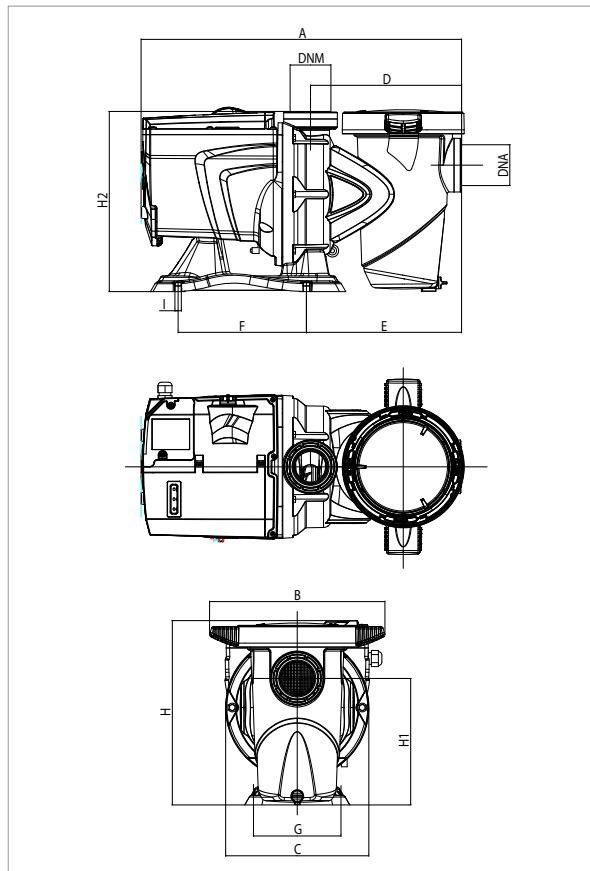
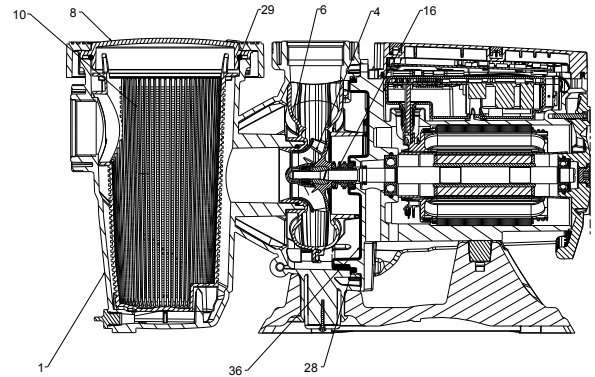
- 4 different keys preset at specific Speed/Flow (1, 2, 3, 4)
- speed/flow keys are adjustable
- On board scheduling with timers
- 'Auto' button enable the automatic operation according to the timer schedule
- 'Quick Clean' button enable high speed operation
- Central keys for menu navigation and settings
- Sequential navigation system
- LEDs for indication of: Warning/Alarm, Power on, Pump Running



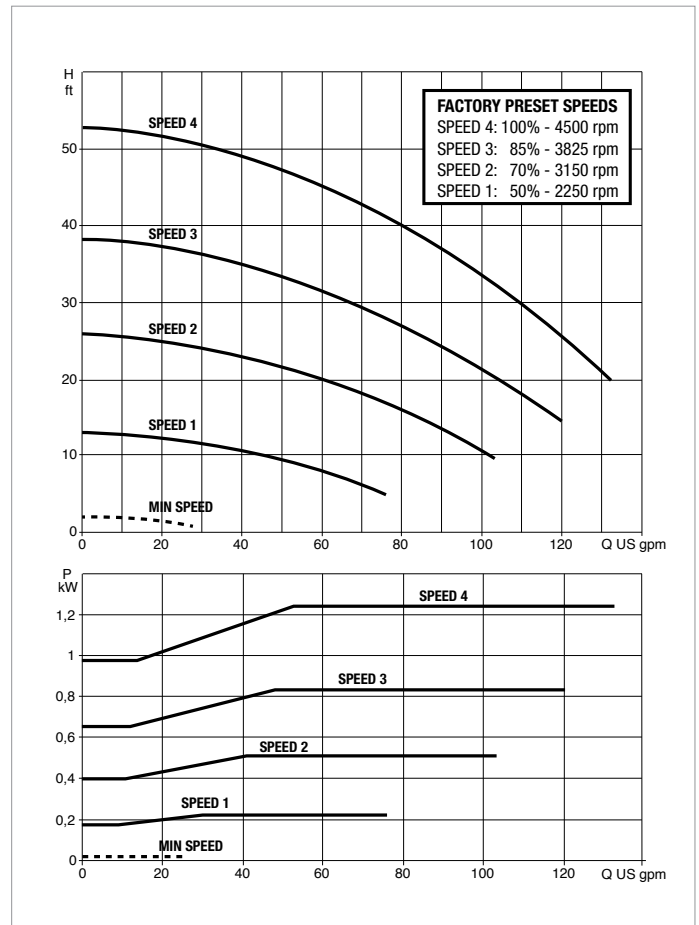
# MATERIALS

N.	PARTS*	MATERIALS
1	PUMP BODY	REINFORCED TECHNOPOLYMER
4	IMPELLER	REINFORCED TECHNOPOLYMER
6	VOLUTE	REINFORCED TECHNOPOLYMER
8	STRAINER COVER	POLYCARBONATE
10	STRAINER	TECHNOPOLYMER
16	MECHANICAL SEAL	CARBON/ALUMINA/NBR/AISI316
28	O-RING	NBR
29	O-RING	NBR
36	SEAL HOLDING DISC	EPDM

\* In contact with the liquid



The performance curves are based on kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.



MODEL	U.S. gpm	0.0	13.2	26.4	39.6	52.8	66.3	79.3	92.7	105.7	119.1	132.6
E.SWIM 150 M	ft (H <sub>2</sub> O)	52.5	51.8	50.9	49.9	48.6	43.6	39.4	35.1	31.2	26.2	20.3

MODEL	POWER INPUT 50/60 Hz	P1 MAX W	P2 NOMINAL		I <sub>n</sub> A	NOISE LEVEL MAX db (A)
			kW	HP		
E.SWIM 150 M	230 V	1250	1.1	1.5	5.6	< 50 dB(A)

MODEL	A	B	C	D	E	F	G	H	H1	H2	I	DNA / DNM NPT	PACKING DIMENSIONS (in)			GROSS WEIGHT lb	Q.TY X PALLET
	in	in	in	in	in	in	in	in	in	in	L/A		L/B	H			
E.SWIM 150 M	21.7	11.8	9.6	10.2	10.5	8.7	5.9	12.4	8.5	12.2	0.4	2"	28.3	13.8	16.9	41.9	6

PRELIMINARY DATA - we reserve the right to make modifications without notice.