E.SWIM

ELECTRONIC SWIMMING POOL PUMP

TECHNICAL DATA

Operating range: up to 30 m³/h with head of up to 15,4 metres.
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 40 °C.
Maximum ambient temperature: 50 °C.
Maximum operating pressure: 2.5 bar.
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 : 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 combine advanced engineering hydraulics parts, frequency converter technology, and high efficiency permanent magnet motor (with its innovative water cooled motor) to run whatever the speed of the motor is (high or low) in a super silent way.
Extremely quiet and highly reliable, developed for water circulation and filtration in domestic and residential swimming pools.

CONSTRUCTION FEATURES

The **impeller and volute** are designed to achieve high efficency, improoving hydraulics performances.
Transparent antioxidant polycarbonate basket cover ensuring constant visibility over the long period. Fibreglass 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. Butterfly filling and drain plugs that can be removed and refitted without tools.

E.SWIM is provided with syncronous brushless electric **motor** with incapsulated magnetic rotor, driven by frequency converter. Motor water cooled (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 (a digital input and a analogic input 0-10V or 4-20mA) ensure ease of setting for all users.
Its onboard computer and intelligent software can operate at adjustable **CONSTANT SPEED** or **CONSTANT FLOW** (totally sensorless) to optimize performance and minimize energy use.
Wireless on board ready for communication with DAB connectivity device.

HIGHLIGHTS

- NOISELESS New water cooled motor
- HIGH EFFICENCY 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 performancies 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
- LCD display (2.75" x 1.58") showing run time, mode and current status
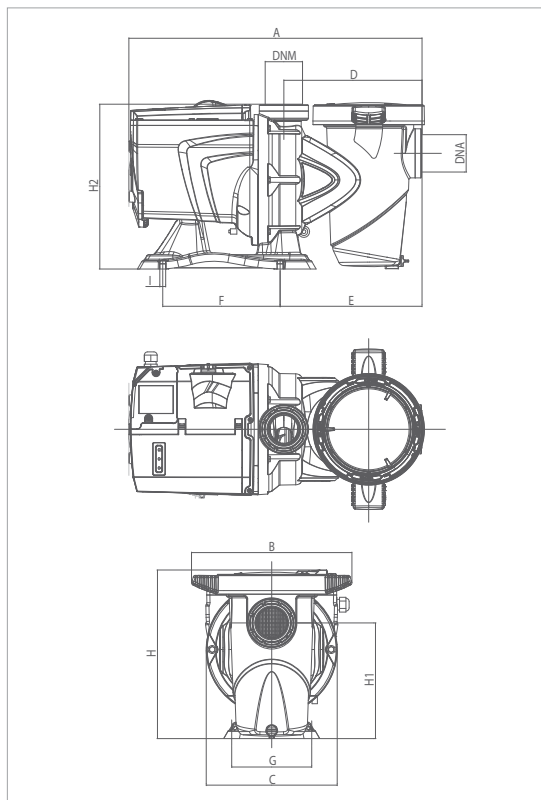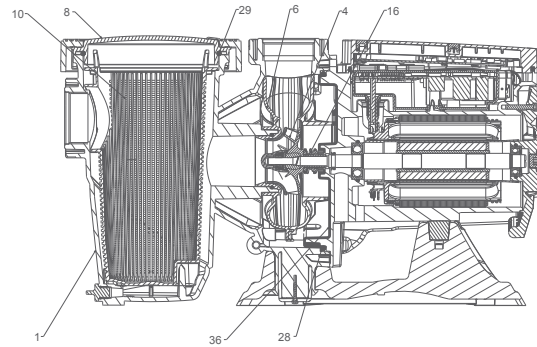- Antifreeze system protection

DAB
WATER • TECHNOLOGY

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

FACTORY PRESET SPEEDS
SPEED 4: 100% - 4500 rpm
SPEED 3: 85% - 3825 rpm
SPEED 2: 70% - 3150 rpm
SPEED 1: 50% - 2250 rpm

The performance curves are based on kinematic viscosity values =
1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.
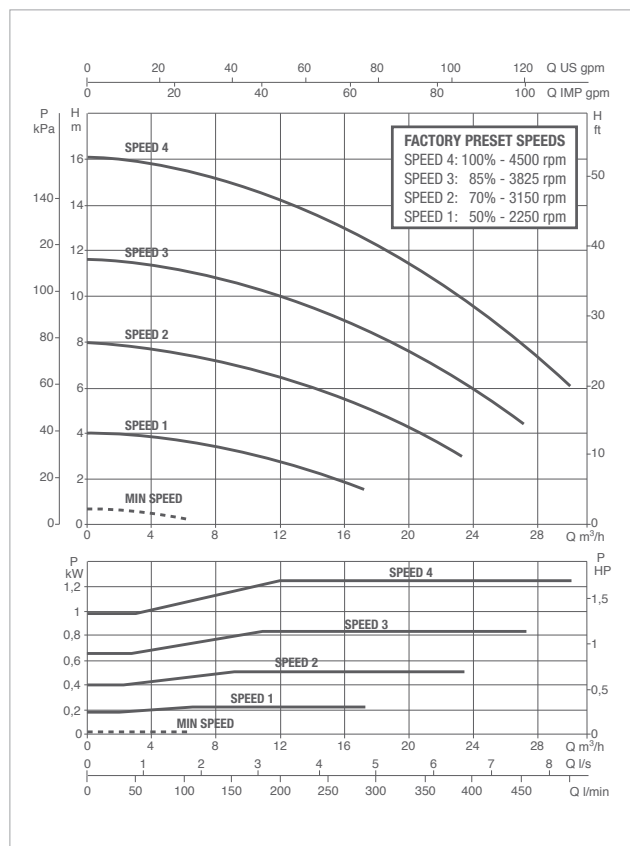
MODEL	Q= m³/h	0	6	9	12	15	18	21	24	27	30
	Q=l/min	0	100	150	200	250	300	350	400	450	500
E.SWIM 150 M	H (m)	15,9	15,7	15,2	14,4	13,4	12,2	10,9	9,4	7,9	6,3

MODEL	POWER INPUT 50/60 Hz	P1 MAX W	P2 NOMINAL		In A	NOISE LEVEL - MEDIUM WORKING POSITION 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	PACKING DIMENSIONS			GROSS WEIGHT kg	Q.TY X PALLET
														L/A	L/B	H		
E.SWIM 150 M	550	300	245	259	266	220	150	316	217	309	11	2"	2"	720	350	430	19	8