



# SWIMMING POOL PUMPS

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CONSOLIDATED PUMPS LTD





**Eswim** is DAB's high energy efficiency electronic swimming pool pump. Born for domestic and residential building service, it is also suitable for fish environments, in agriculture or for the industrial sector and treats chlorine and salt water.

Energy saving, silence and comfort.

The high efficiency of the permanent magnet motor is accompanied by the water cooling system which guarantees its silence; the hydraulics are optimized to reduce pressure drops and the eight speeds allow to optimize energy consumption; the intuitive display, the programming menu and the integrated diagnostics guarantee ease of use; its compact shape and variable speed operation make ESwim a versatile product, which can be used in all types of swimming pools.

**Eswim** is the swimming pool pump for those who seek quiet operation, energy savings and efficiency.



## epro

Version with two knobs opening system.

### ENERGY SAVING

- HIGH EFFICIENCY PERMANENT MAGNET SYNCHRONOUS MOTOR
- HYDRAULICS OPTIMIZED FOR LOAD LOSS REDUCTION
- 8 TIMER PROGRAMMABLE SPEEDS

### COMFORT

- SILENT OPERATION (WATER-COOLED MOTOR)
- COMPACT AND WITHOUT VIBRATIONS (NO COOLING FAN)
- PUMP PROTECTION BUILT-IN DIAGNOSTIC

### VERSATILE

- VARIABLE FLOW AND SPEED OPERATION
- SIMPLE AND INTUITIVE BUILT-IN DISPLAY PROGRAMMING
- POSSIBILITY OF CABLE CONNECTION TO AN EXTERNAL CONTROLLER

### TECHNICAL SPECIFICATIONS

	P1 MAX	Q MAX	H MAX	DIMENSIONS
<b>ESWIM 150</b>	<b>1250 W</b>	<b>30 m³/h</b>	<b>16 m</b>	<b>550x300x316 mm</b>
<b>ESWIM 300</b>	<b>2250 W</b>	<b>42.5 m³/h</b>	<b>26 m</b>	<b>574x304x354 mm</b>

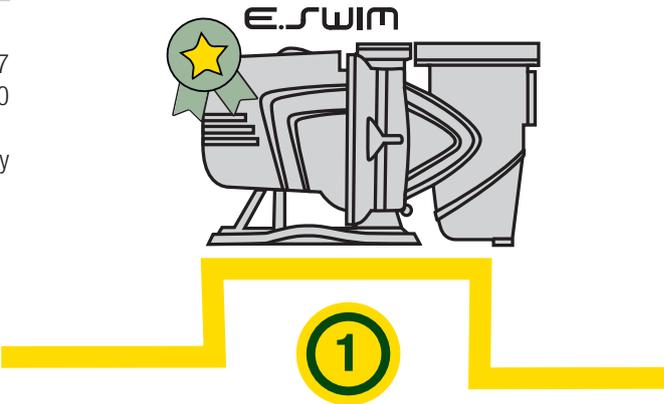
# OVERVIEW

## ENERGY SAVING

The new Eswim is the best solution to reduce energy consumption. A traditional single-speed pool pump consumes as much as 7 refrigerators, which means that it indirectly produces about 1,380,000 grams of  $CO_2$ , which is equivalent to what 138 trees would produce. Eswim really makes your system more efficient and optimizes electricity costs.

It guarantees energy savings of up to 90% thanks to the combination of:

- Synchronous permanent magnet motor
- High efficient hydraulics to reduce pressure losses
- 8 settable speeds.



EXAMPLE WITH 3 CYCLES PER DAY, 10 HOURS A DAY AND 200 DAYS OF OPERATION PER YEAR

POOL SIZE	TRADITIONAL PUMP MODEL	ESWIM	ENERGY COST €/kWh	E.SWIM SAVING		
				1 DAY	1 YEAR	5 YEARS
30 m <sup>3</sup>	0.5 Hp	ESWIM 150	0.12	€ 0.39	€ 78.62	€ 393.10
			0.24	€ 0.79	€ 157.24	€ 786.19
45 m <sup>3</sup>	0.75 Hp	ESWIM 150	0.12	€ 0.72	€ 143.88	€ 719.42
			0.24	€ 1.44	€ 287.77	€ 1,438.83
60 m <sup>3</sup>	1 Hp	ESWIM 150	0.12	€ 0.89	€ 177.00	€ 885.00
			0.24	€ 1.77	€ 354.00	€ 1,770.00
70 m <sup>3</sup>	1.5 Hp	ESWIM 300	0.12	€ 1.64	€ 328.40	€ 1,641.99
			0.24	€ 3.28	€ 656.80	€ 3,283.99
90 m <sup>3</sup>	2 Hp	ESWIM 300	0.12	€ 1.62	€ 323.49	€ 1,617.43
			0.24	€ 3.23	€ 646.97	€ 3,234.87
110 m <sup>3</sup>	3 Hp	ESWIM 300	0.12	€ 2.68	€ 535.98	€ 2,679.89
			0.24	€ 5.36	€ 1,071.96	€ 5,359.78

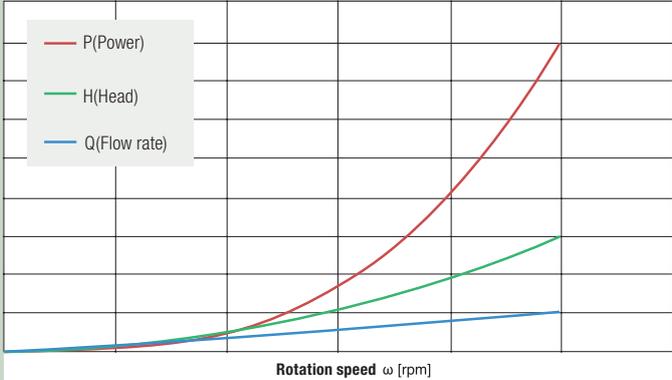


**AT LOWER SPEEDS  
90% ENERGY  
SAVING  
COMPARED TO A  
TRADITIONAL PUMP**

### DID YOU KNOW THAT...

- The variation of the flow is proportional to the variation in the number of revolutions.
- The pressure variation follows a quadratic law in relation to the variation of the number of revolutions.
- The power follows a cubic law in relation to the variation of the number of revolutions.

A small variation in speed corresponds to a huge variation in power.  
For example: I reduce the speed by 50% = I reduce by 8 times the power absorbed by the pump.

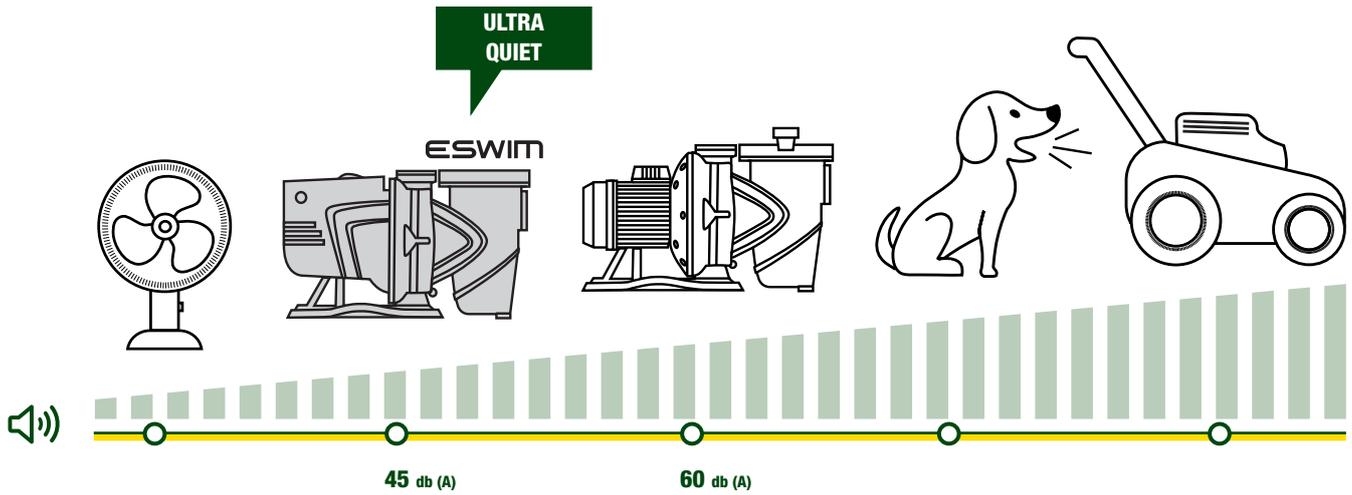


# OVERVIEW

## LOW NOISE

### NO VIBRATIONS

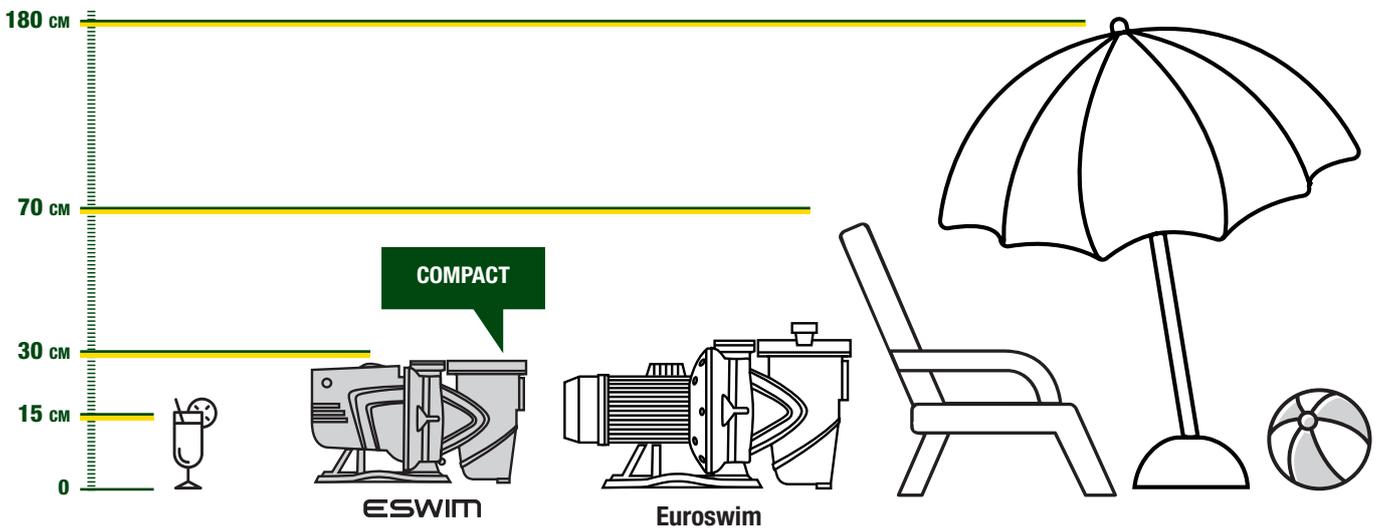
Extreme silent running, thanks to the water cooled technology. No vibration, no cooling fan, anti vibration feet. The special water cooled motor, the inverter and the anti vibration feet make e.swim the most silent swimming pool pumps on the market.



## MINIMUM SPACE REQUIREMENT

### MAX COMPACTNESS

suitable for installation in any place, even in the absence of air recirculation. It occupies 30% less space than any other conventional system.



# OVERVIEW

## SAFETY FIRST

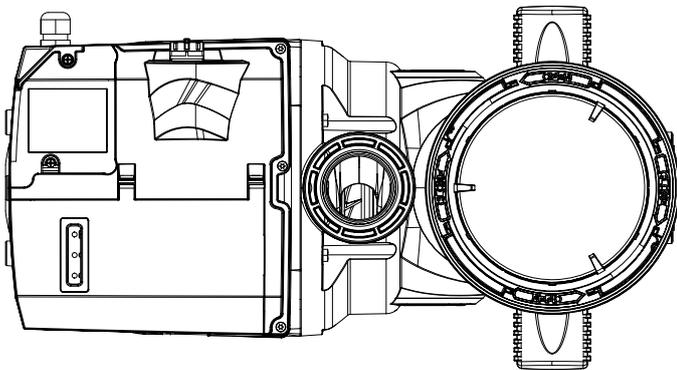
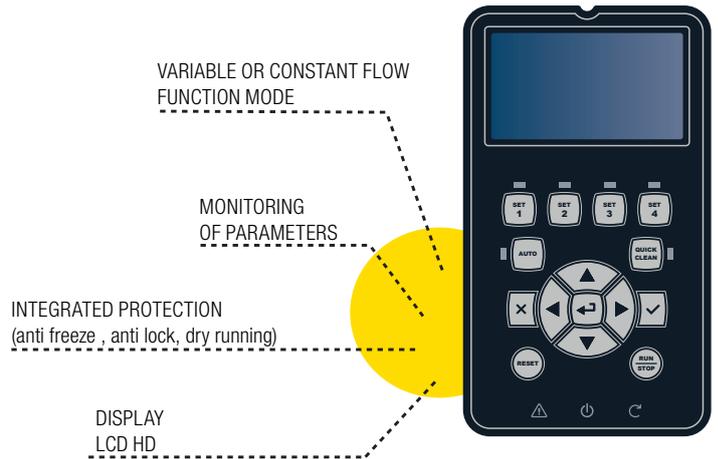
We think about your safety. ESwim is equipped with the SVRS (Safety Vacuum Release System) software which disables the suction capacity of the pump in the event that any foreign body becomes trapped in it in order to immediately stop the suction.



## EASY INSTALLATION

The specific software allows to operate not only at different speeds, but also at variable or constant flow rates, thus guaranteeing a unique use experience.

LCD 70X40 mm high-resolution screen. The intuitive interface gives access to all the system information and the main settings depending on the specific application.



## VERSATILITY

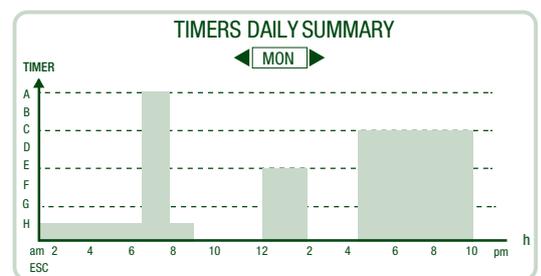
Wide choice and flexibility of use, manual or automatic operation, integrated control menu or connection from external control unit

### MANUAL



Set point pre-set with unlimited time or configurable with specified time. Editable via panel.

### AUTO



Auto operation with daily and weekly timer scheduling of different speeds.

Possibility to control the pump from REMOTE via digital or analogue contact (4-20mA / 0-10V)



# FEATURES



## DESIGN

This innovative solution combines aesthetics with sturdy materials highly resistant to corrosion and oxidation.

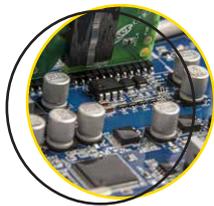


## INTEGRATED PREFILTER

It has a large canister, up to 5 liters, a transparent lid that can be removed without tools, and an internal filter easy to take out and clean.



SUITABLE FOR SALT WATER



## VARIABLE SPEED / FLOW CONTROL

The inverter control board allows operation at variable speed or flow rate, optimising performance and reducing consumption without the need for sensors.



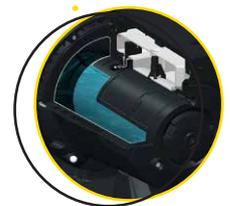
## SYNCHRONOUS MOTOR WITH PERMANENT MAGNETS

The new synchronous motor with permanent magnets represents a new benchmark on the market due to its efficiency and reliability.



## HIGH EFFICIENCY HYDRAULICS

The impeller and volute are designed specifically to improve/optimize hydraulic performance.



## WATER COOLING

Motor cooled by the pumped water, free from fan cooling. It gains in compactness and low noise.



## ANTI-VIBRATION FEET

The supporting base guarantees stability with integrated rubber feet that reduce vibrations.



## USER INTERFACE PANEL

Intuitive interface panel for immediate control of the pump and programming according to any needs. High resolution LCD display.



ESWIM

## DAB AND SWIMMING POOLS

DAB's pumps for swimming pools are developed to guarantee reliability, efficiency and ease of maintenance, and designed to offer added value for the installer and considerable savings, as well as comfort for the end user.

The pumps are suitable for all types of application, from small residential swimming pools to public swimming pools.



# Euroswim

## HIGH RELIABILITY



Self-priming pump to be used in residential building service for the filtration of water with chlorine or salt.  
Quiet and reliable



### Energy Saving

high performance  
with low energy  
consumption



### Noiseless (60 DBA)

Silent running



### Reliability

Corrosion resistant  
materials for a long life  
even at extreme conditions



### Semplicity

easy-to-open transparent  
cover for quick cleaning of  
the filter



MODEL	Q = 10 m
EUROSWIM 50	11 m <sup>3</sup> /h
EUROSWIM 75	14 m <sup>3</sup> /h
EUROSWIM 100	16 m <sup>3</sup> /h
EUROSWIM 150	23 m <sup>3</sup> /h
EUROSWIM 200	30 m <sup>3</sup> /h
EUROSWIM 300	38 m <sup>3</sup> /h

### CERTIFICATIONS



# FEATURES



## DESIGN

This innovative solution combines aesthetics with sturdy materials highly resistant to corrosion and oxidation.



## QUICK AND EASY CONNECTION

In & Out connection female, threaded 2".  
Optional on request: special 3 pieces adjustment 50/63 mm.



## HYDRAULIC COMPONENTS

All components in contact with the liquid are made in polypropylene or noryl with glass fiber.  
High efficiency Impeller with special design to cover and protect motor shaft against corrosion (motor is completely insulated)



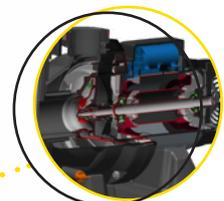
## LARGE PREFILTER

It has a large canister, up to 6 liters  
Motor (suitable up to 60°) a transparent lid that can be removed without tools, and an internal filter easy to take out and clean.



## ANTI-VIBRATION FEET

The support base guarantees stability and is equipped with rubber feet to reduce vibrations.



## MOTOR

All metallic components are with surface treatment.  
Suitable for working in room with high temperature (up to 50°C)  
With exhaust condensate holes  
Capacitor is internal in the terminal board box  
Water proof bearings



## TERMINAL BOARD BOX

Easy and fast line connection,  
It is totally closed against electrical motor to avoid any accidental solid bodies entry



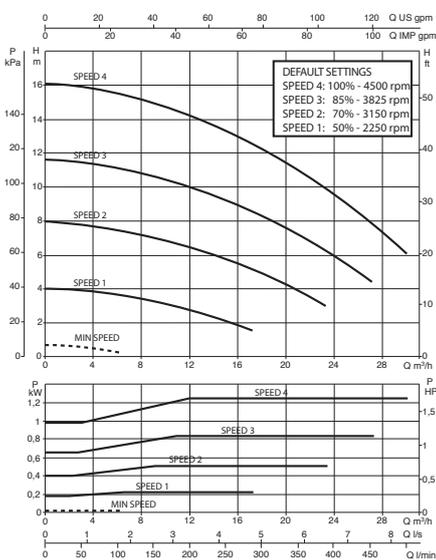
# SELECTION TABLE

## RESIDENTIAL SWIMMING POOL

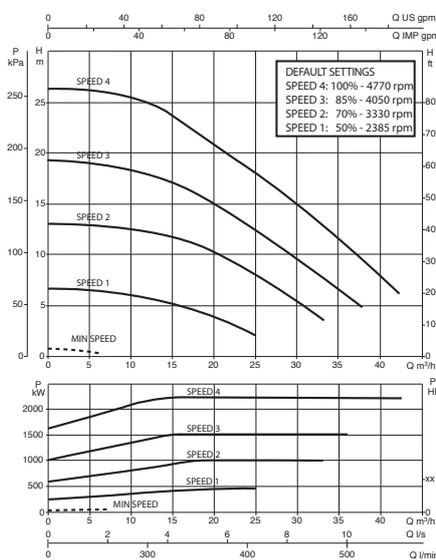
	DIMENSIONS OF POOL (m)	VOLUME OF WATER (m <sup>3</sup> )	FLOW (m <sup>3</sup> / h)	MODEL
PRIVATE SWIMMING POOL	8 x 4	da 35 a 40	9	ESWIM 150 EUROSWIM 50 EUROSWIM 75
	da 8 x 4 a 10 x 5	da 50 a 70	12	ESWIM 150 EUROSWIM 75 EUROSWIM 100
	da 10 x 5 a 12 x 5	da 70 a 90	15	ESWIM 300 EUROSWIM 150
	da 11 x 6 a 12 x 6	da 90 a 110	18	ESWIM 300 EUROSWIM 150 EUROSWIM 200
PUBLIC SWIMMING POOL	8 x 4	da 35 a 40	14	ESWIM 150 EUROSWIM 100 EUROSWIM 150
	da 8 x 4 a 10 x 5	da 50 a 70	24	ESWIM 300 EUROSWIM 150 EUROSWIM 200
	da 10 x 5 a 12 x 5	da 70 a 90	30	ESWIM 300 EUROSWIM 200 EUROSWIM 300
	da 11 x 6 a 12 x 6	da 90 a 110	40	ESWIM 300 EUROSWIM 300

\*Times for complete recirculation of water within 6 hours for private pool and 2/3 hours for public pool

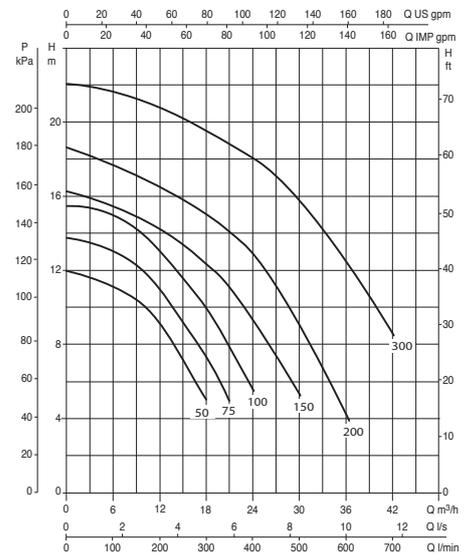
### ESWIM 150



### ESWIM 300



### EUROSWIM



# COMPARISON TABLE



ESWIM



Euroswim

FEATURES	ESWIM	Euroswim
HIGH EFFICIENCY HYDRAULICS		✓
HIGHLY RELIABLE AND DURABLE COMPONENTS	✓	✓
SMALL SIZE, FOR EASE OF INSTALLATION		✓
LCD DISPLAY	✓	✗
8 SPEEDS THAT CAN BE SET WITH TIMER	✓	✗
INTEGRATED DIAGNOSTICS FOR PROTECTION OF THE PUMP	✓	✗
OPERATION AT VARIABLE SPEED	✓	✗
OPERATION AT VARIABLE FLOW RATE	✓	✗
OPERATION AT CONSTANT FLOW RATE	✓	✗
HIGH EFFICIENCY “BRUSHLESS” MOTORS WITH PERMANENT MAGNETS	✓	✗
WATER COOLING WITHOUT NEED FOR FAN	✓	✗
BACKWASHING MODE	✓	✗

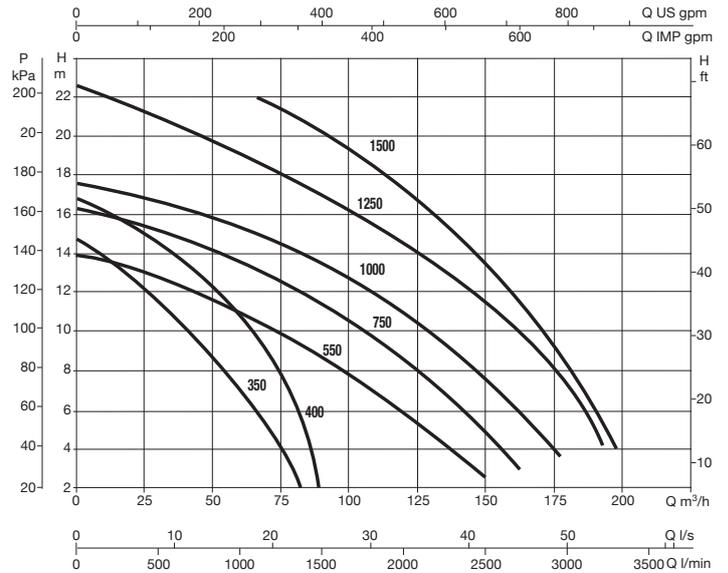


## PUBLIC POOLS

# EUROPRO HIGH FLOW

### SWIMMING POOL LARGE FILTRATION

A silent and reliable pump for swimming pools in domestic and residential or civil and industrial sectors. 2 or 4 pole motor completely insulated from the water. Extremely quiet and highly reliable, developed for the circulation and filtration in large swimming pool filtration systems. Also suitable for particular applications that require handling of seawater thanks to the mechanical seal made of AISI 316.



# NKM-G / NKP G

### SWIMMING POOL LARGE FILTRATION

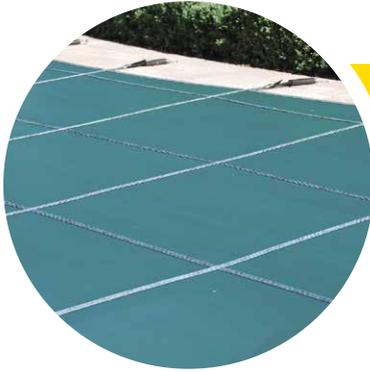
The new range of prefilters gives the possibility of using the standardised monobloc centrifugal pumps of the NKM-G/NKP-G ranges, starting from DN 40 up to DN 150, for the circulation of water in large filtration systems



# DRAINAGE PUMPS

## EUROCOVER

### SWIMMING POOL COVER PUMP



Submersible technopolymer pumps for draining swimming pool covers. The large support base guarantees stability, while the integrated float ensures automatic operation up to about 3 mm of residual water.



### NOVA UP



### VERTY NOVA



### NOVA UP MAE

- Submersible pumps in technopolymer, ideal for draining areas subject to flooding or for temporary uses, such as emptying swimming pools, fountains, basins or small excavations. Available with or without float.

### FEKA BVP



### FEKA VS FEKA VSL



- Submersible pumps for draining and emptying muddy water even in the presence of solid particles with a diameter of up to 50 mm (depending on the model).

### NOVA SALT W



- Submersible pumps for salt water management. Built with anti-corrosion and anti-oxidation material, they also work partially submerged.

## SELF-PRIMING PUMPS

# JETCOM SP - EUROCOM SP

### SWIMMING POOL WATER SUPPLY

Single-impeller or multi-impeller pumps, suitable for cleaning swimming pools or for use with hydraulic cleaners even with salt water or chlorine, in residential building service.



### MULTI 4 SW

- This self-priming and multi-impeller model is designed for swimming pools with salt water or chlorine, it can also be connected to hydraulic cleaners.



# Consolidated Pumps Ltd



## FLOW:

1 m<sup>3</sup>/h = 0.278 l/s

1 l/s = 3.6 m<sup>3</sup>/h

1 m<sup>3</sup>/h = 16.667 l/min

1 l/min = 0.06 m<sup>3</sup>/h

1 m<sup>3</sup>/h = 3.67 UK gal/min

1 UK gal/min = 0.273 m<sup>3</sup>/h

1 m<sup>3</sup>/h = 4.403 US gal/min

1 US gal/min = 0.227 m<sup>3</sup>/h

1 ft<sup>3</sup>/s = 102 m<sup>3</sup>/h

## PRESSURE:

1 bar = 10.20 mH<sub>2</sub>O

1 mH<sub>2</sub>O = 0.098 bar

1 bar = 33.50 ft H<sub>2</sub>O

1 ft H<sub>2</sub>O = 0.0299 bar

1 bar = 14.5 p.s.i

1 p.s.i = 0.06895 bar

1 bar = 10<sup>5</sup> Pa

1 Pa = 10<sup>-5</sup> bar

1 bar = 10<sup>5</sup> N/m<sup>2</sup>

**Est. 1972**

Thank you for your  
support

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