

# TOP MULTI-EVOTECH

## Multi-stage automatic submersible pumps

 Clean water

 Domestic use

 Civil use

**AUTOMATIC  
START & STOP**



### PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m<sup>3</sup>/h)
- Head up to **42 m**
- Restart pressure: **1.5 bar**

### APPLICATION LIMITS

- **5 m** maximum immersion depth
- Maximum height between pump and point of use **10 m**
- Maximum liquid temperature **+40 °C**
- Suction down to **52 mm** above ground level
- Continuous service **S1**

### CONSTRUCTION AND SAFETY STANDARDS

Complete with:

- **10 m** long power cable
- internal electronic device for pump starting (when tap opened) and stopping (when tap closed)
- threaded connector 1¼" (delivery)
- hose connector Ø 35 mm

**EN 60335-1**  
**IEC 60335-1**  
**CEI 61-150**

**EN 60034-1**  
**IEC 60034-1**  
**CEI 2-3**



### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY

### PATENTS - TRADE MARKS - MODELS

- Patent n. EP2990653
- TOP MULTI® Registered Trade Mark n. 0001334477

### INSTALLATION AND USE

**TOP-MULTI-EVOTECH** pumps are recommended for pumping **clean water** and liquids that are not chemically aggressive for the materials from which the pump is made.

Because of their high efficiency and reliability they are suitable for use in applications such as domestic water supply from reservoirs, tanks or relatively deep wells, for drawing rain water from cisterns to water gardens or for use in irrigation systems, etc.

**An internal electronic device starts or stops the pump automatically when the tap is opened or closed.**

### OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency
- **KGE - Floating suction kit**



Kit includes:

- 1.5 metre long PVC hose (Ø 30 mm)
- stainless steel suction filter
- polyethylene spherical float
- flexible hose fittings Ø 30 mm

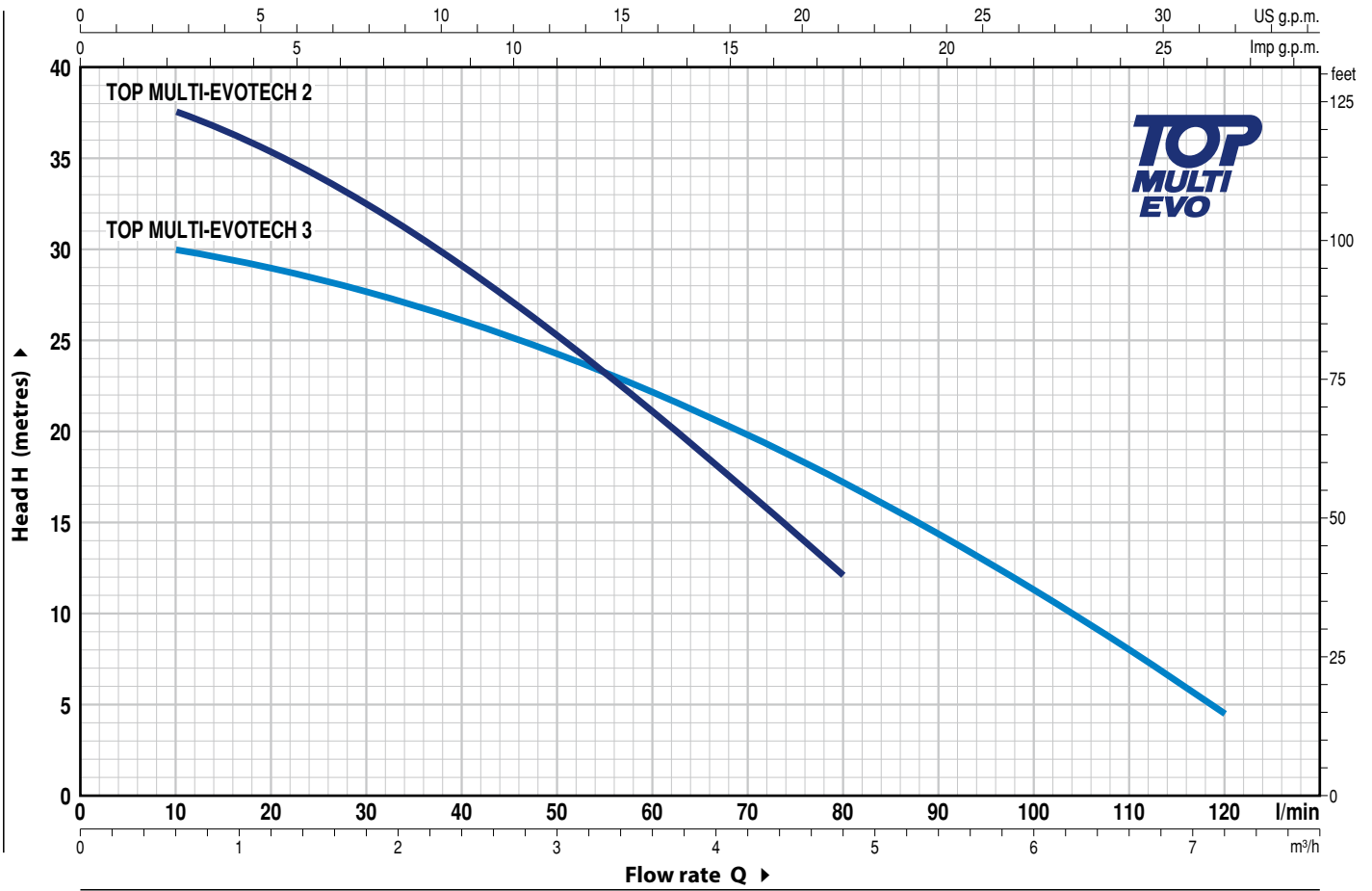
TOP MULTI-EVOTECH with KGE kit for aspiration at about 10 cm below the water surface, preventing the suction of any floating waste or sediment on the bottom of the tank thus avoiding any damage to the pump.

### GUARANTEE

2 years subject to terms and conditions

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 min<sup>-1</sup>

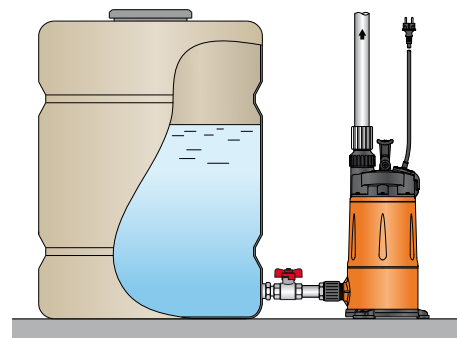
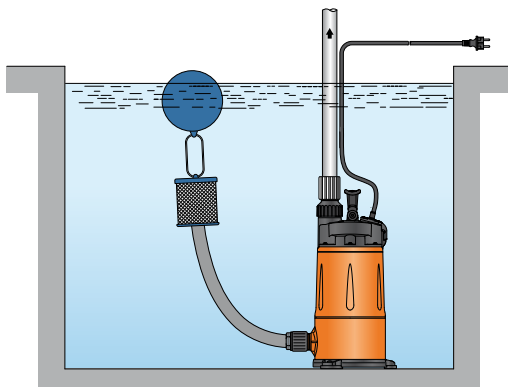


MODEL	POWER (P <sub>2</sub> )		Q	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2
	kW	HP		0	10	20	30	40	50	60	70	80	90	100	110	120
TOP MULTI-EVOTECH 2	0.55	0.75	H metres	39	37.5	35.5	32.5	29	25	21	16.6	12				
TOP MULTI-EVOTECH 3	0.55	0.75		30.5	30	29	27.5	26	24.3	22.2	19.8	17.2	14.4	11.3	8	4.5

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

## STANDARD INSTALLATION



# TOP MULTI-EVOTECH

## POS. COMPONENT

## CONSTRUCTION CHARACTERISTICS

1	<b>SUCTION BODY AND DELIVERY BODY</b>	Glass fibre reinforced technopolymer complete with threaded delivery ports in compliance with ISO 228/1
2	<b>PUMP BODY AND BASE</b>	Glass fibre reinforced technopolymer
3	<b>DIFFUSER</b>	Glass fibre reinforced technopolymer
4	<b>MOTOR SLEEVE</b>	Stainless steel AISI 304
5	<b>IMPELLERS</b>	Noryl
6	<b>DIFFUSER AND STAGE BOXES</b>	Noryl complete with anti-wear ring
7	<b>MOTOR SHAFT</b>	Stainless steel AISI 431
8	<b>ELECTRONIC DEVICE</b>	<p><b>TOP MULTI-EVOTECH pumps are fitted with an internal electronic device which starts the pump when the pressure of the system falls below 1.5 bar (eg. when opening a tap) and stops it when the flow falls below 3 litre per minute.</b></p> <p><b>It protects the pump:</b></p> <ul style="list-style-type: none"> <li>– against dry running;</li> <li>– against blockage: after long periods of pump inactivity the electronic device starts the pump every 48 hours for 10 seconds.</li> </ul>

## 9 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal Model	Shaft Diameter	Position	Stationary ring	Rotational ring	Elastomer
STA-13R	Ø 13 mm	Motor side	Ceramic	Graphite	NBR
STA-12R SG	Ø 12 mm	Pump side	Silicon carbide	Graphite	NBR

## 10 BEARINGS 6202 ZZ - C3 / 6201 ZZ

## 11 CAPACITOR

### Capacitance

(220 V)

12.5 µF 450 VL

(110 V or 127 V)

30 µF 250 VL

## 12 ELECTRIC MOTOR

**TOP MULTI-EVOTECH:** single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding.

- Insulation: class F
- Protection: IP X8

## 13 POWER CABLE

"H07 RN-F" with Schuko plug

**Standard length 10 metres**

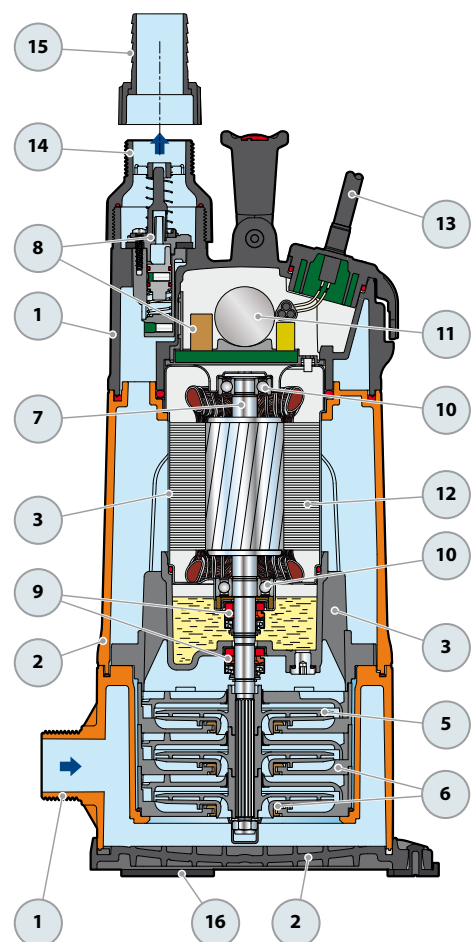
## 14 THREADED CONNECTOR

Threaded connector 1¼"

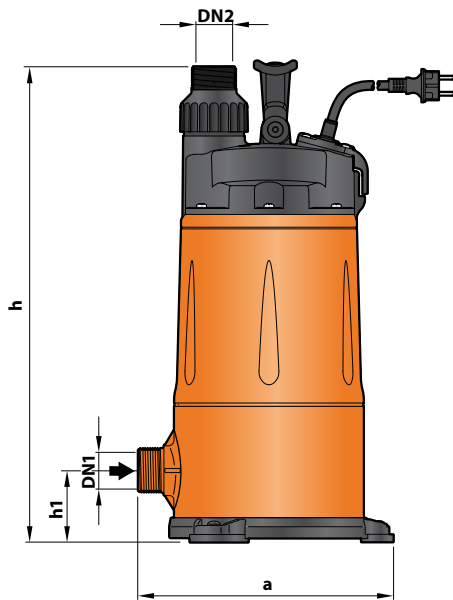
## 15 HOSE CONNECTOR WITH RING NUT

Ø 35 mm hose connection

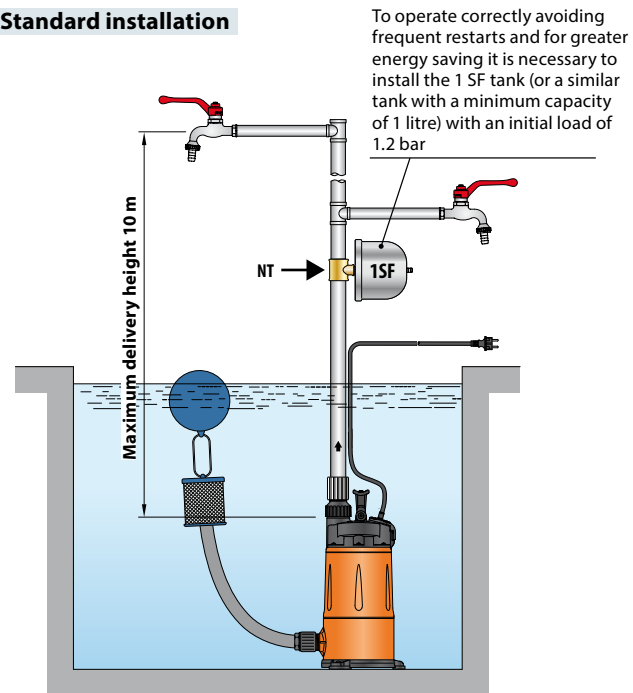
## 16 ANTI-VIBRATION SUPPORTS



## DIMENSIONS AND WEIGHT



### Standard installation



To operate correctly avoiding frequent restarts and for greater energy saving it is necessary to install the 1 SF tank (or a similar tank with a minimum capacity of 1 litre) with an initial load of 1.2 bar

MODEL	PORTS		N. STAGES	DIMENSIONS mm			kg
	DN1	DN2		a	h	h1	
Single-phase							
TOP MULTI 2-EVOTECH	1¼"	1¼"	3	239	442	68	9.9
TOP MULTI 3-EVOTECH							



## ABSORPTION

MODEL	VOLTAGE		
	Single-phase	220 V	110 V
TOP MULTI 2-EVOTECH	3.4 A	6.9 A	6.2 A
TOP MULTI 3-EVOTECH	3.7 A	7.4 A	6.7 A

## PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
TOP MULTI 2-EVOTECH	45	60
TOP MULTI 3-EVOTECH	45	60

## ACCESORIOS (CAN BE ORDERED SEPARATELY)

MODEL	Code	FITTING	CAPACITY	PRE-SET	MAXIMUM WORKING PRESSURE
Tank 1 SF 	500667	½" (male)	1 litres	1.2 bar	10 bar
3-way fitting NT 1.25 	500160001	1¼" - 1¼" - ½" gas	-	-	-