

# TOP MULTI-TECH

## 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 **52 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 **35 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



### INSTALLATION AND USE

**TOP-MULTI-TECH** 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.**

### PATENTS - TRADE MARKS - MODELS

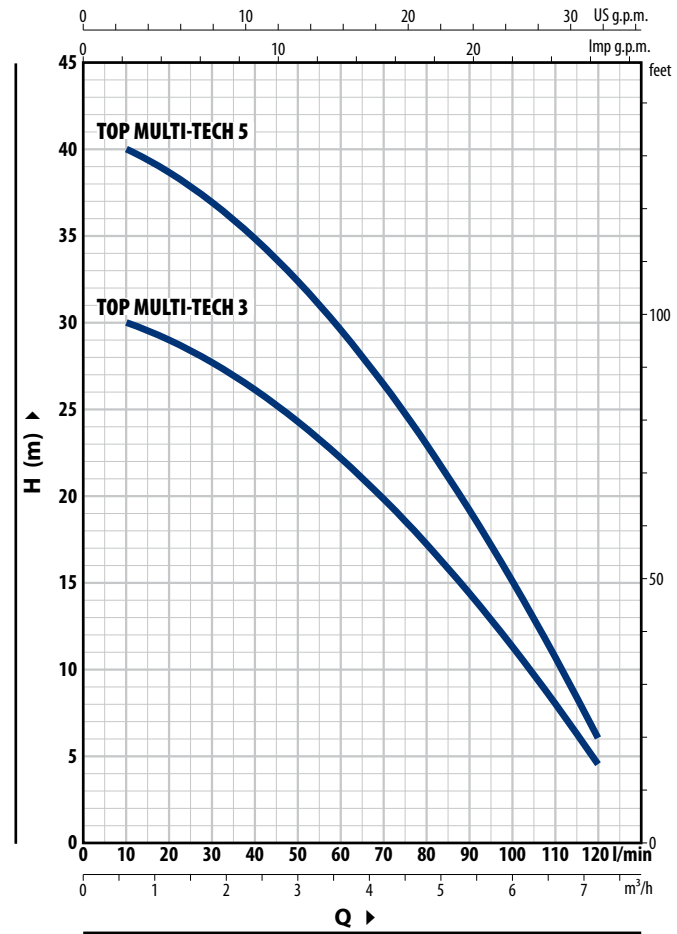
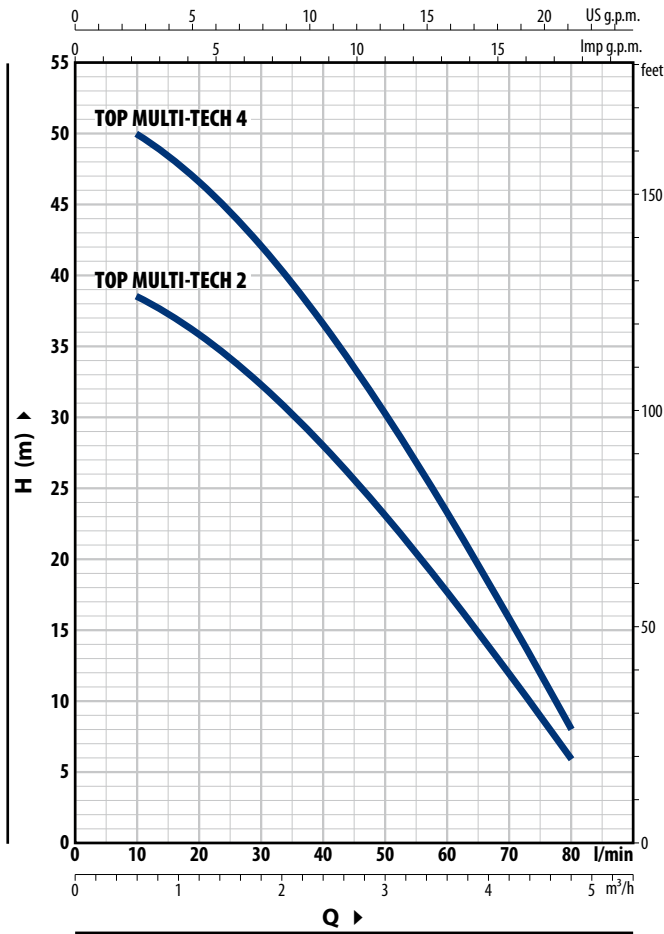
- Patent n. EP2990653
- TOP MULTI® Registered Trade Mark n. 0001334477

### OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup>



### TOP MULTI-TECH 2 - 4

MODEL	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.5	4.8	
Single-phase				0	10	20	30	40	50	60	70	75	80		
TOP MULTI-TECH 2	0.55	0.75	H metres	40	38.5	36	32.5	28	23.1	17.7	12	9	6		
TOP MULTI-TECH 4	0.75	1		52	50	46.5	42	36.5	30.5	23.3	15.8	11.9	8		

### TOP MULTI-TECH 3 - 5

MODEL	POWER (P <sub>2</sub> )		Q	Flow rate														
	kW	HP		m <sup>3</sup> /h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.5	4.8	5.4	6	6.6	7.2
Single-phase				0	10	20	30	40	50	60	70	75	80	90	100	110	120	
TOP MULTI-TECH 3	0.55	0.75	H metres	30.5	30	29	27.5	26	24.3	22.2	19.8	18.5	17.2	14.4	11.3	8	4.5	
TOP MULTI-TECH 5	0.75	1		41	40	38.5	37	35	32.5	29.5	26.5	24.7	22.9	19.2	15.1	10.7	6	

Q = Flow rate H = Total manometric head

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

# TOP MULTI-TECH

## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>DELIVERY BODY</b>	Glass fibre reinforced technopolymer
2	<b>PUMP BODY E SUCTION FILTER</b>	Glass fibre reinforced technopolymer
3	<b>VANE DIFFUSER</b>	Glass fibre reinforced technopolymer
4	<b>MOTOR CASING</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>	<b>TOP MULTI-TECH 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>

**It protects the pump:**

- against dry running;
- against blockage: after long periods of pump inactivity the electronic device starts the pump every 48 hours for 10 seconds.

### 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-13R SIC	Ø 13 mm	Pump side	Silicon carbide	Graphite	NBR

### 10 BEARINGS

Pump	Model
TOP MULTI-TECH 2-3	6202 ZZ - C3 / 6201 ZZ
TOP MULTI-TECH 4-5	6202 ZZ - EA3 / 6201 ZZ

### 11 CAPACITOR

Pump	Capacitance	
Single-phase	(230 V or 240 V)	(110 V)
TOP MULTI-TECH 2-3	12.5 µF 450 VL	30 µF 250 VL
TOP MULTI-TECH 4-5	14 µF 450 VL	30 µF 250 VL

### 12 ELECTRIC MOTOR

**TOP MULTI-TECH:** single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.

- Insulation: class F
- Protection: IP X8

### 13 POWER CABLE

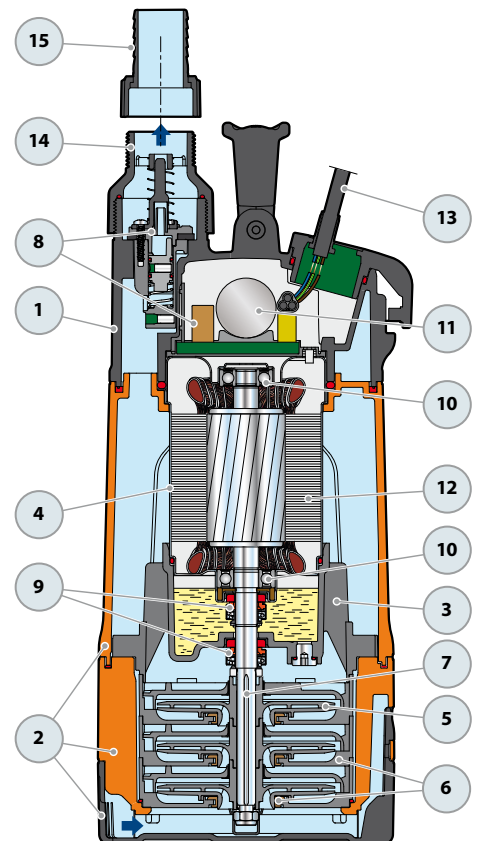
"H07 RN-F" with Schuko plug  
**Standard length 10 metres**

### 14 THREADED CONNECTOR

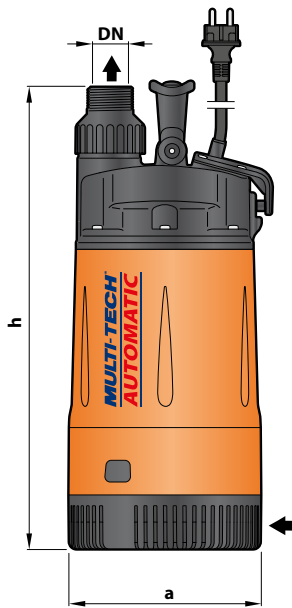
Threaded connector 1¼"

### 15 HOSE CONNECTOR WITH RING NUT

Ø 35 mm hose connection



## DIMENSIONS AND WEIGHT



MODEL	PORT	N. STAGES	DIMENSIONS mm		kg	
Single-phase	DN		a	h		
TOP MULTI-TECH 2	1 1/4"	3	178	428	9.3	
TOP MULTI-TECH 3		4		463		10.0
TOP MULTI-TECH 4						
TOP MULTI-TECH 5						



## ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
TOP MULTI-TECH 2	3.4 A	3.3 A	6.6 A
TOP MULTI-TECH 3	3.6 A	3.5 A	7.2 A
TOP MULTI-TECH 4	3.9 A	3.7 A	8.0 A
TOP MULTI-TECH 5	3.9 A	3.7 A	8.0 A

## PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
TOP MULTI-TECH 2	60	80
TOP MULTI-TECH 3	60	80
TOP MULTI-TECH 4	60	80
TOP MULTI-TECH 5	60	80

## ACCESSORIES (CAN BE ORDERED SEPARATELY)

MODEL	Code	FITTING	CAPACITY	PRE-SET	MAXIMUM WORKING PRESSURE
Tank 1 SFD 	500667	1/2" (male)	1 litro	1.2 bar	10 bar
3-way fitting NT 1.25 	500160001	1 1/4" - 1 1/4" - 1/2" gas	-	-	-

## Typical installation

