



PEDROLLO Top Multi-Tech Multi-Stage Automatic Submersible Pumps Instruction Manual

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PEDROLLO Top Multi-Tech Multi-Stage Automatic Submersible Pumps



PERFORMANCE RANGE

- Flow rate up to 120 l/min (7.2 m³/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 1 1/4" (delivery)
- hose connector Ø 35 mm

EN 60335-1
IEC 60335-1
CEI 61-150
EN 60034-1
IEC 60034-1

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

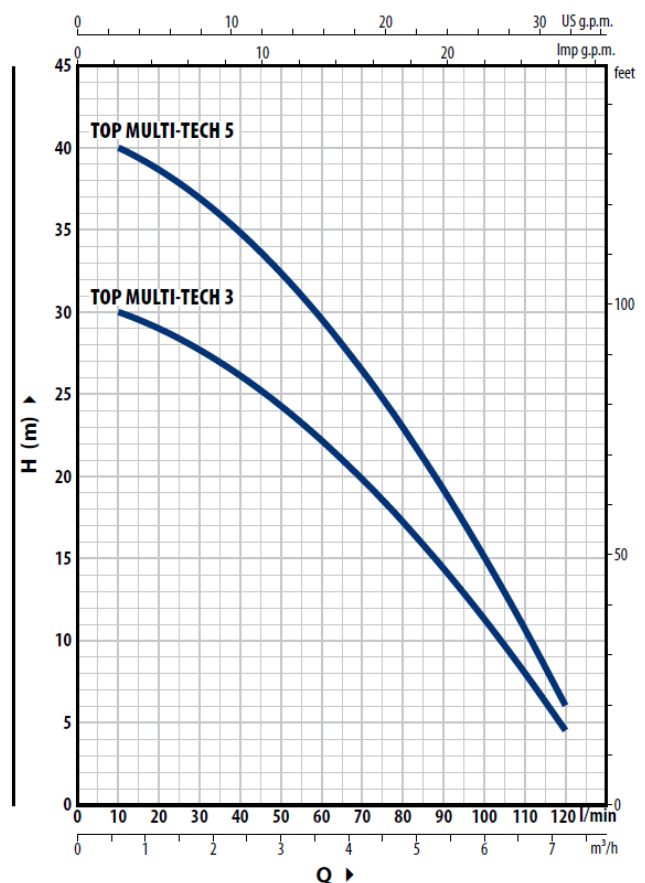
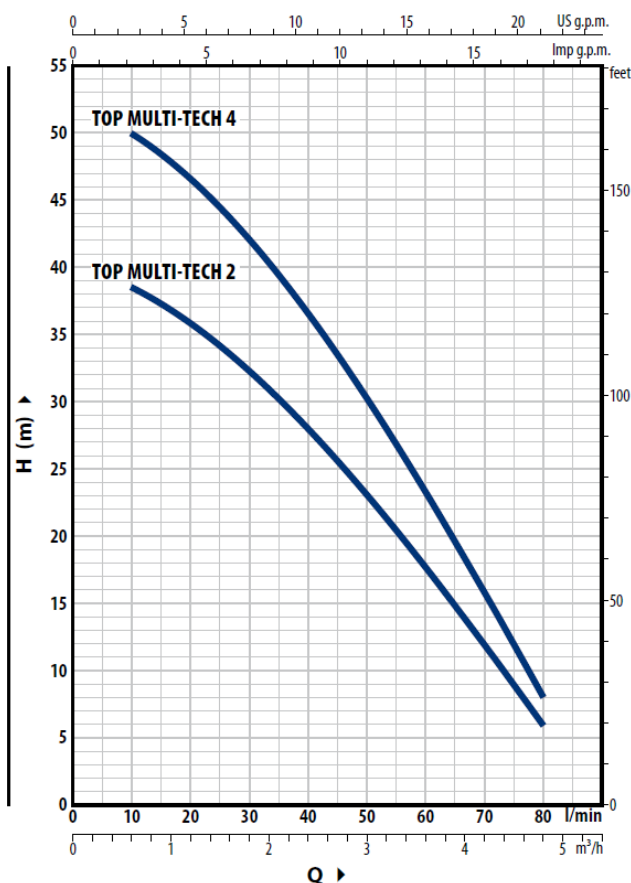
- Patent n. EP2990653
- TOP MULTI® Registered Trade Mark n. 0001334477

OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



TOP MULTI-TECH 2 – 4

MODEL Single-phase	POWER (P 2)		Q	m ³ / h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.5	4.8
	kW	HP		l/mi n	0	10	20	30	40	50	60	70	75	80
TOP MULTI- TECH 2	0.55	0.75	H metre s		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 Single-phase	POWER (P 2)		Q	m ³ / 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
	kW	HP		l/mi n	0	10	20	30	40	50	60	70	75	80	90	100	110	120
TOP MULTI-TE CH 3	0.55	0.75	H metre s		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-TE CH 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

TOP MULTI-TECH

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	DELIVERY BODY	Glass fibre reinforced technopolymer
2	PUMP BODY E SUCTION FILTER	Glass fibre reinforced technopolymer
3	VANE DIFFUSER	Glass fibre reinforced technopolymer
4	MOTOR CASING	Stainless steel AISI 304
5	IMPELLERS	Noryl
6	DIFFUSER AND STAGE BOXES	Noryl complete with anti-wear ring
7	MOTOR SHAFT	Stainless steel AISI 431
8	ELECTRONIC DEVICE	<p>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.</p> <p>It protects the pump:</p> <ul style="list-style-type: none"> – 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	Shaft	Position	Materials		
Model	Diameter		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

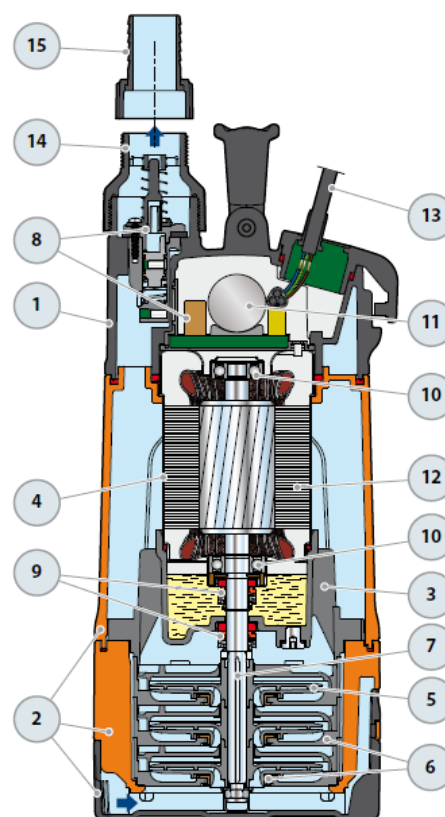
"H07 RN-F" with Schuko plug
Standard length 10 metres

14 THREADED CONNECTOR

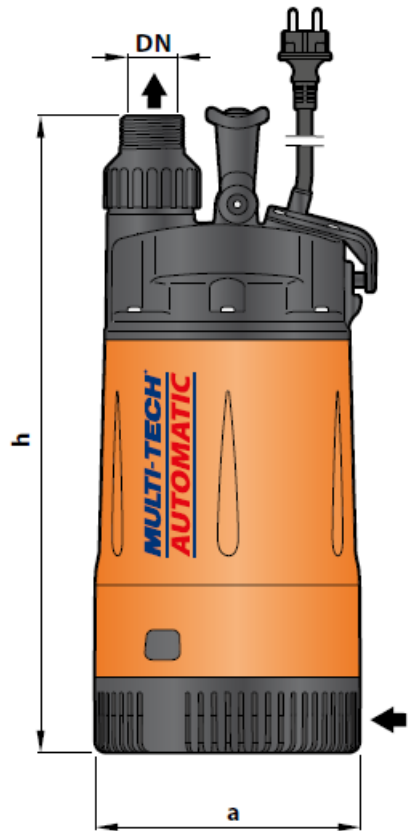
Threaded connector 1¼"

15 HOSE CONNECTOR WITH RING NUT

Ø 35 mm hose connection



DIMENSIONS AND WEIGHT



MODEL	PORT	N. STAGES	DIMENSIONS		kg
			mm		
Single-phase	DN		a	h	
TOP MULTI-TECH 2	1¼"	3	178	428	9.3
TOP MULTI-TECH 3					
TOP MULTI-TECH 4		4		463	10.0
TOP MULTI-TECH 5					

ABSORPTION

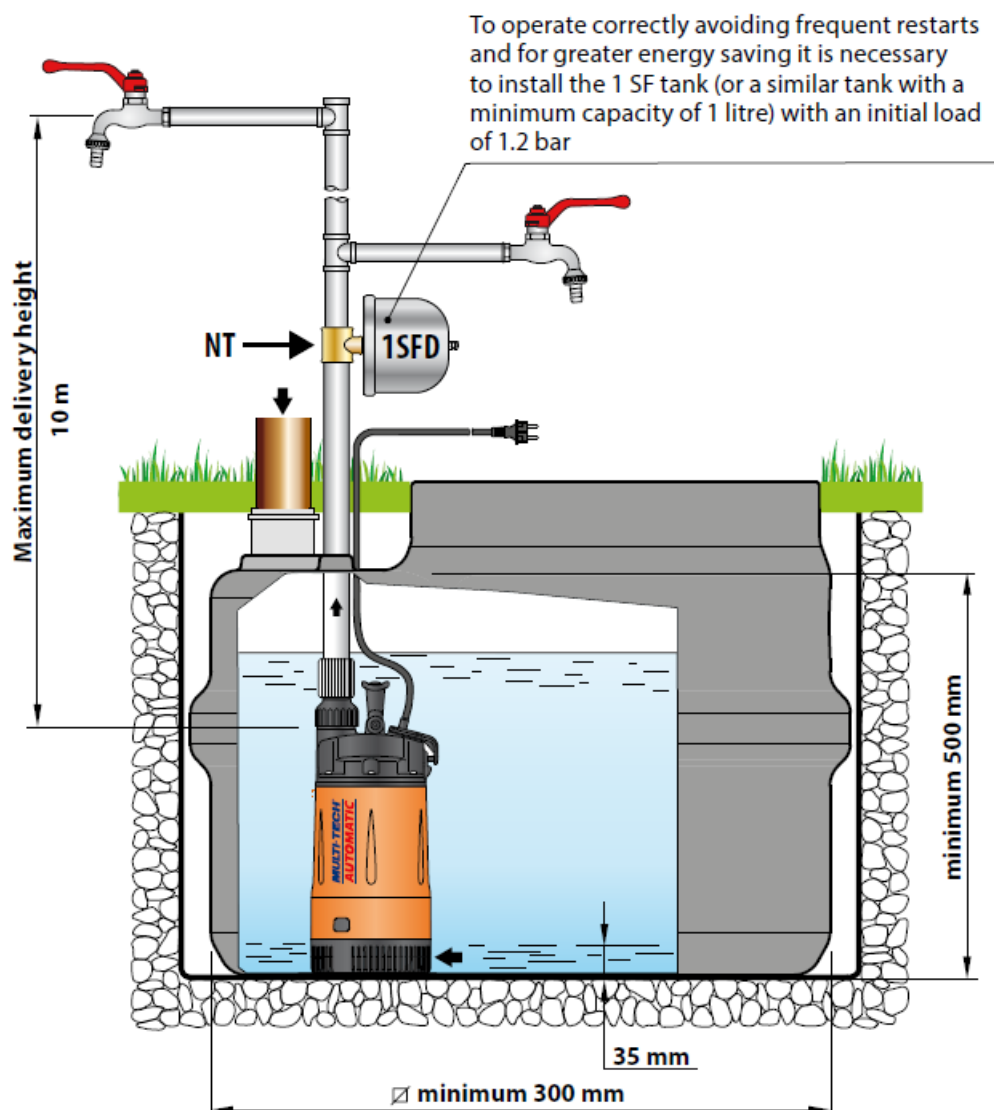
MODEL	VOLTAGE		
	230 V	240 V	110 V
TOP MULTI-TECH 2	3.4 A	3.3 A	6.6 A
TOP MULTI-TECH 3	3.6 A	3.5 A	7.2 A
TOP MULTI-TECH 4	3.9 A	3.7 A	8.0 A
TOP MULTI-TECH 5	3.9 A	3.7 A	8.0 A

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

Typical installation






ACCESSORIES (CAN BE ORDERED SEPARATELY)

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

Documents / Resources

	<p>PEDROLLO Top Multi-Tech Multi-Stage Automatic Submersible Pumps [pdf] Instruction Manual</p> <p>Top Multi-Tech Multi-Stage Automatic Submersible Pumps, Top Multi-Tech, Multi-Stage Automatic Submersible Pumps</p>
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