

## Submersible SUMP Pumps

 Clean Water

 Residential



### PERFORMANCE RANGE

- Flow rate up to **95 GPM** (360 l/min) (21.6 m<sup>3</sup>/h)
- Head up to **50 feet** (15.5 m)

### APPLICATION LIMITS

- Immersion Depth:
  - up to **9 feet** (3 m) for TOP 1-2-3
  - up to **16 feet** (5 m) for TOP 4-5 (with a sufficiently long power cable)
- Maximum Liquid Temperature **104°F** (+40 °C) (Maximum Liquid Temperature **194°F** (+90 °C) for a maximum of 3 minutes intermittent service)
- Passage of Suspended Solids up to **Ø 0.3 in** (10 mm)
- Suction Level:
  - **0.5 in** (14 mm) above ground level for TOP 1-2-3
  - **1.1 in** (30 mm) above ground level for TOP 4-5
- Continuous Duty Rating **S1**

### CONSTRUCTION AND SAFETY STANDARDS

The pumps are complete with:

- **16 feet** (5 m) long power cable for TOP 1-2-3
- **32 feet** (10 m) long power cable for TOP 4-5
- Float Switch

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

### FEATURES AND BENEFITS

- Clean water that does not contain abrasive particles
- Liquids that are not chemically aggressive
- Easy to Use
- Cooling of motor and shaft with double seal

### APPLICATIONS AND MARKETS

- Residential
- Emptying Drainage Traps
- Draining Small Areas
- Waste Water Disposal

### PATENTS - TRADE MARKS - MODELS

- Patent No. IT0001428923
- Registered EU Design No. 342159-0011

### OPTIONS AVAILABLE ON REQUEST

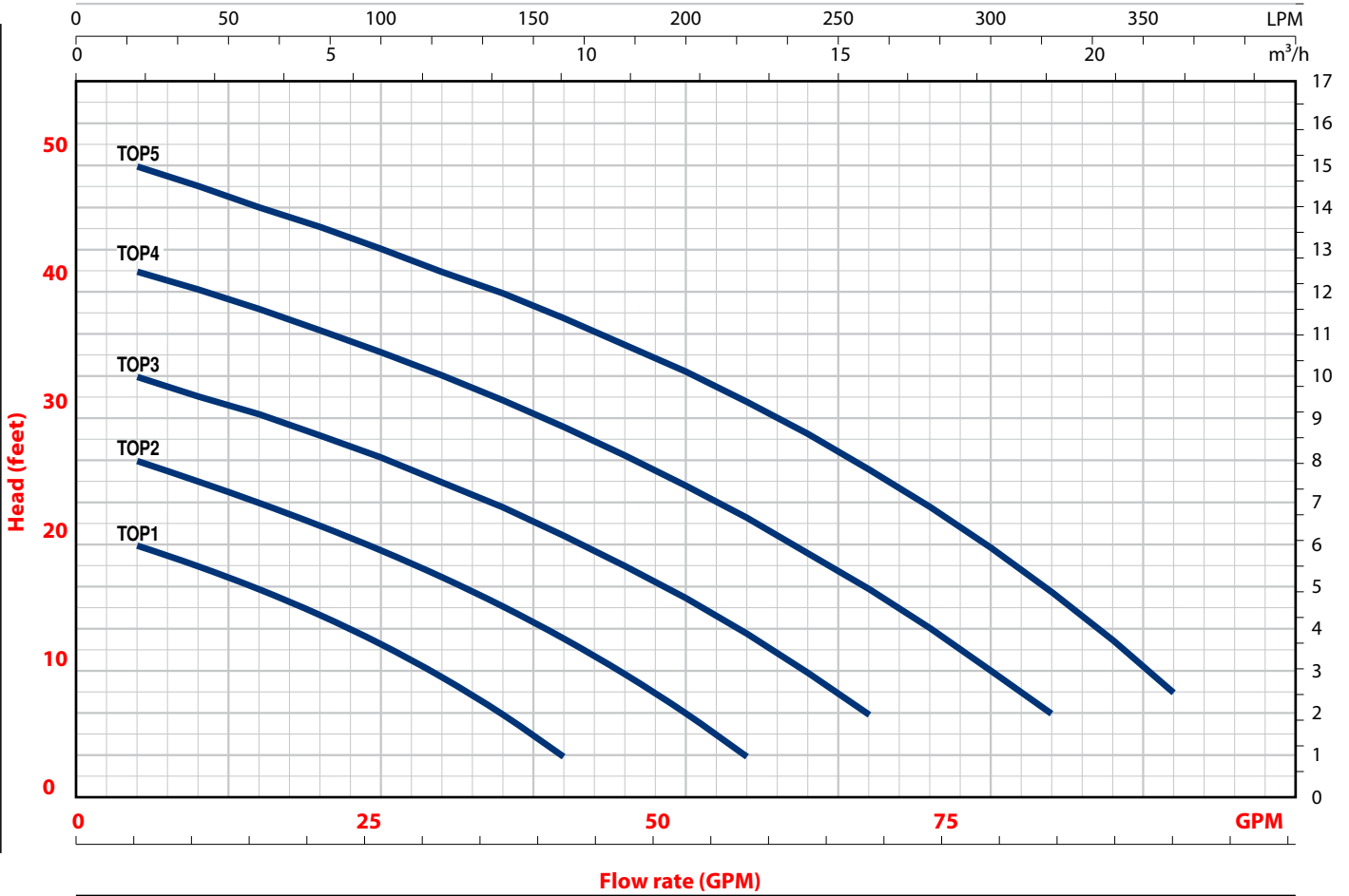
- **"TOP-GM"** pumps with vertical float switch (suitable for particularly small wells)
- **"TOP 2-3 LA"** pumps intended for use with aggressive liquids
- Special mechanical seal
- TOP 1-2-3 pumps with **32 feet** (10 m) long power cable
  - ➔ N.B. Standard EN 60335-2-41 states that the power cable must be 32 feet (10 m) long for outdoor applications
- Pumps without float switch
- Other voltages

### GUARANTEE

**2 YEARS** subject to terms and conditions

**PERFORMANCE CURVES AND DATA**

**60 Hz RPM = 3450**



MODEL NUMBER	MOTOR SIZE		LPM	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360		
	kW	HP	GPM	0	5.3	10.6	15.8	21.1	26.4	31.7	36.9	42.3	47.5	52.8	58.1	63.4	68.7	73.9	79.2	84.5	89.8	95.1		
TOP 1	0.25	0.33	HEAD (feet)	21.3	19.7	18.0	16.4	14.4	12.1	9.5	6.6	3.3												
TOP 2	0.37	0.50		27.9	26.2	24.6	22.9	21.3	19.3	17.4	15.1	12.5	9.8	6.6	3.3									
TOP 3	0.55	0.75		34.1	32.8	31.5	29.8	28.2	26.6	24.6	22.6	20.7	18.0	15.7	12.8	9.8	6.6							
TOP 4	0.75	1.00		42.3	41.0	39.7	38.1	36.4	34.8	33.1	31.2	28.9	26.9	24.3	21.9	19.3	16.4	13.1	10.2	6.6				
TOP 5	0.92	1.25		50.8	49.2	47.6	45.9	44.6	42.9	41.3	39.4	37.4	35.4	33.1	30.8	28.5	25.6	22.6	19.7	16.1	12.1	8.2		

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

## NO. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Technopolymer
2	<b>SUCTION FILTER</b>	Technopolymer
3	<b>SUCTION PLATE</b>	Stainless steel AISI 304 (AISI 316L for LA versions)
4	<b>DIFFUSER</b>	Technopolymer
5	<b>IMPELLER</b>	Noryl
6	<b>MOTOR CASING</b>	Stainless steel AISI 304 (AISI 316L for LA versions)
7	<b>MOTOR CASING PLATE</b>	Stainless steel AISI 304
8	<b>MOTOR SHAFT</b>	Stainless steel AISI 431 (AISI 316L for LA versions)

### 9 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

Pump Model	Seal Model	Shaft Diameter	Materials			
			Stationary ring	Rotational ring	Elastomer	Metals
TOP 1-2-3 TOP 1-2-3 GM	STA-12R	Ø 0.4 in	Ceramic	Graphite	NBR	AISI 304
TOP 2-3 LA	AR-12R LA	Ø 0.4 in	Ceramic	Graphite	NBR	AISI 316

10 **LIP SEAL** Ø 0.4 x Ø 0.7 x H 0.2 in

11 **BEARINGS** 6201 ZZ / 6201 ZZ

### 12 CAPACITOR

Pump Model	Capacitance	
	(230 V)	(110 V or 127 V)
TOP 1	10 µF - 450 VL	16 µF - 250 VL
TOP 2	10 µF - 450 VL	16 µF - 250 VL
TOP 3	14 µF - 450 VL	16 µF - 250 VL

### 13 ELECTRIC MOTOR

**TOP:** single-phase 115 V - 60 Hz or 230 V - 60 Hz with thermal overload protector incorporated into the winding.

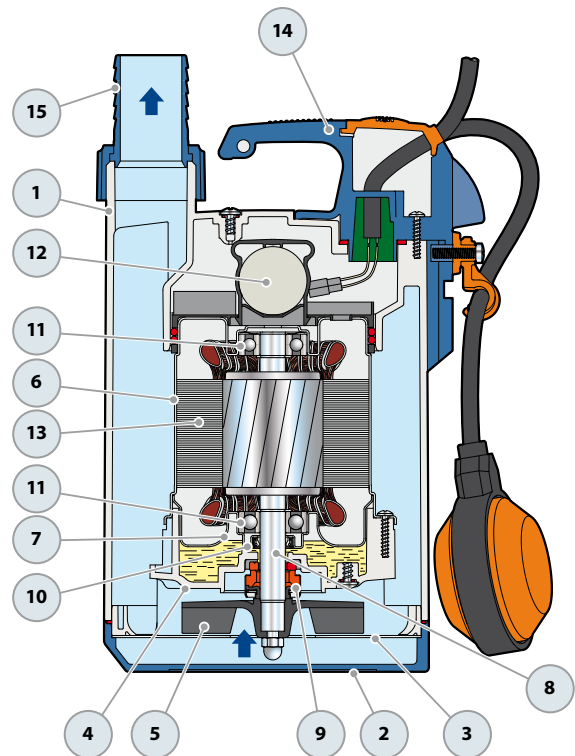
- Insulation: class F
- Protection: IP X8

### 14 HANDLE ASSEMBLY (resin sealed)

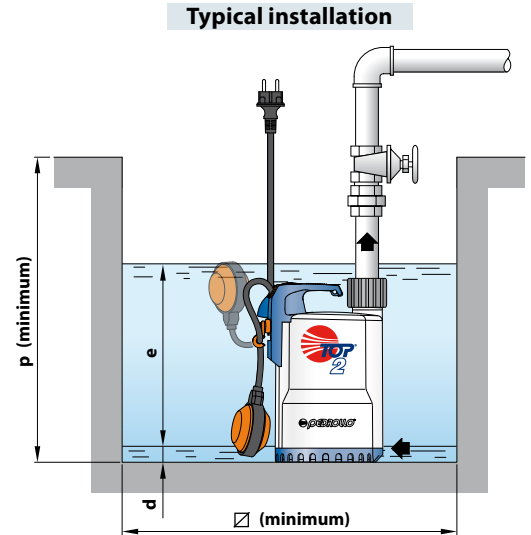
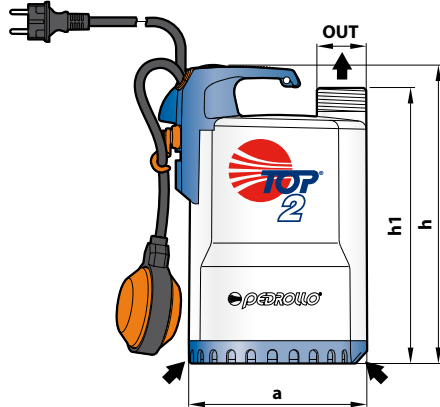
- Complete with:
- **16 feet** (5 m) long "H07 RN-F" power cable
  - Float switch (Vertical float switch in the GM versions)

### 15 HOSE CONNECTOR WITH RING NUT

- Ø 0.9 in (25 mm) hose connection for TOP 1
- Ø 1.3 in (35 mm) for TOP 2-3

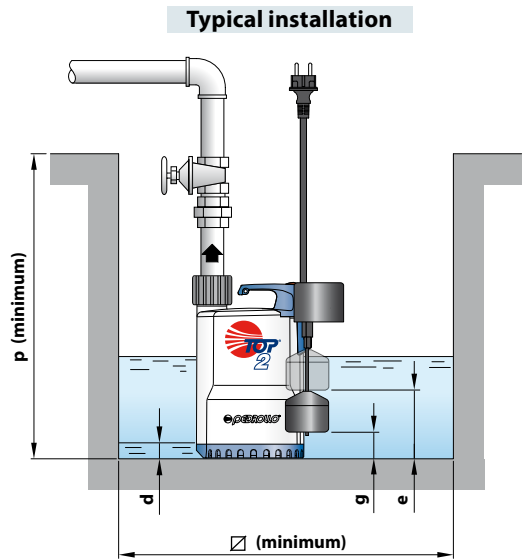
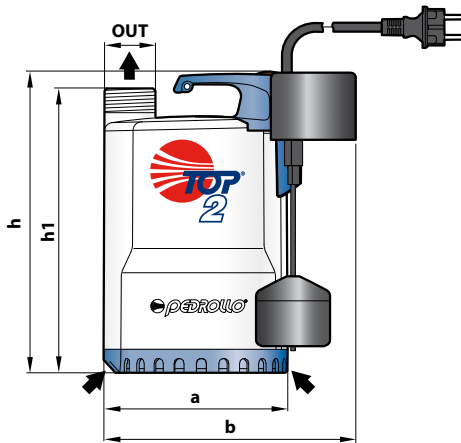


## DIMENSIONS AND WEIGHT



MODEL	PORT OUT	DIMENSIONS (inches)							Lbs
		a	h	h1	d	e	p	Ø	
Single-phase									
TOP 1	1¼"	5.9	10.2	9.4	0.5	variable	13.8	13.8	11.7
TOP 2			11.4	10.6					11.7
TOP 3									14.8

### Version with vertical float switch



MODEL NUMBER	PORT OUT	DIMENSIONS (inches)									Lbs
		a	b	h	h1	d	e	g	p	Ø	
Single-phase											
TOP 1-GM	1¼"	5.9	7.8	10.2	9.4	0.5	5.5	1.4	13.8	8.7	11.9
TOP 2-GM				11.4	10.6		6.7	1.6			11.9
TOP 3-GM							15.2				

## ABSORPTION

MODEL	VOLTAGE		
	230 V	115 V	127 V
Single-phase			
TOP 1	1.5 A	3.0 A	2.8 A
TOP 2	2.2 A	4.5 A	3.8 A
TOP 3	3.7 A	8.6 A	6.8 A

## NO. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Technopolymer
2	<b>SUCTION FILTER</b>	Technopolymer
3	<b>SUCTION PLATE</b>	Stainless steel AISI 304
4	<b>DIFFUSER</b>	Technopolymer
5	<b>IMPELLER</b>	Noryl
6	<b>MOTOR CASING</b>	Stainless steel AISI 304
7	<b>MOTOR CASING PLATE</b>	Stainless steel AISI 304
8	<b>MOTOR SHAFT</b>	Stainless steel AISI 431

### 9 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

Seal Model	Shaft Diameter	Position	Materials		
			Stationary ring	Rotational ring	Elastomer
MG1-14D SIC	Ø 0.5 in	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

10 **BEARINGS** 6203 ZZ / 6203 ZZ

### 11 CAPACITOR

Pump Single-phase	Capacitance	
	(230 V)	(110 V or 127 V)
TOP 4	16 µF - 450 VL	30 µF - 250 VL
TOP 5	20 µF - 450 VL	30 µF - 250 VL

### 12 ELECTRIC MOTOR

**TOP:** single-phase 230 V - 60 Hz with thermal overload protector incorporated into the winding.  
 – Insulation: class F  
 – Protection: IP X8

### 13 HANDLE ASSEMBLY (resin sealed)

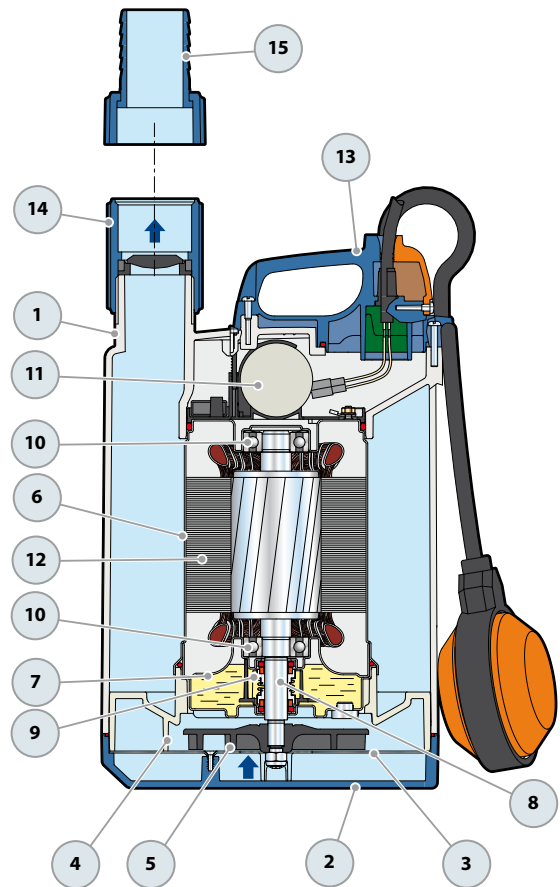
Complete with:  
 – **32 feet** (10 m) long “H07 RN-F” power cable with Schuko plug  
 – Float switch  
 (Vertical float switch in the GM versions)

### 14 PIPE COUPLING

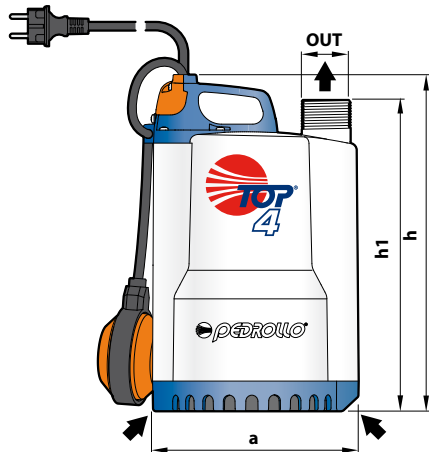
In technopolymer with 1½" thread and non-return valve

### 15 HOSE CONNECTOR WITH RING NUT

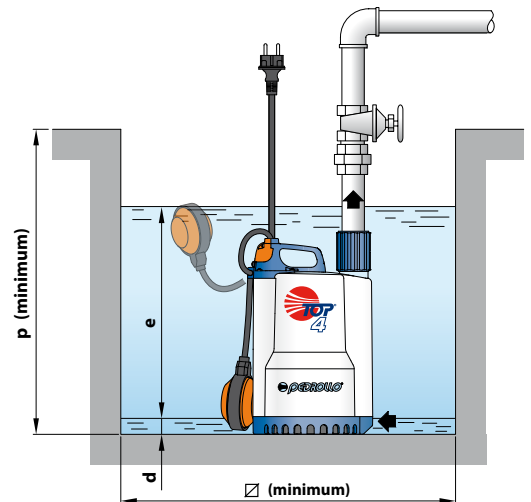
Hose connection Ø 1.6 in



## DIMENSIONS AND WEIGHT

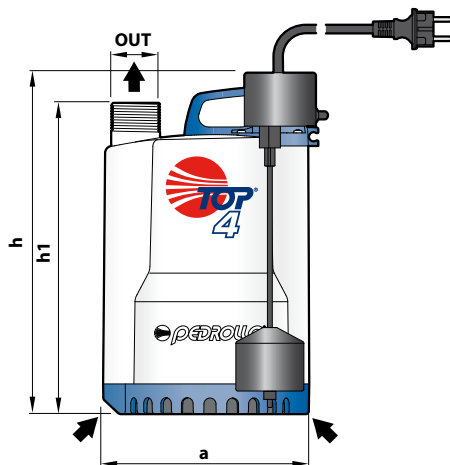


Typical installation

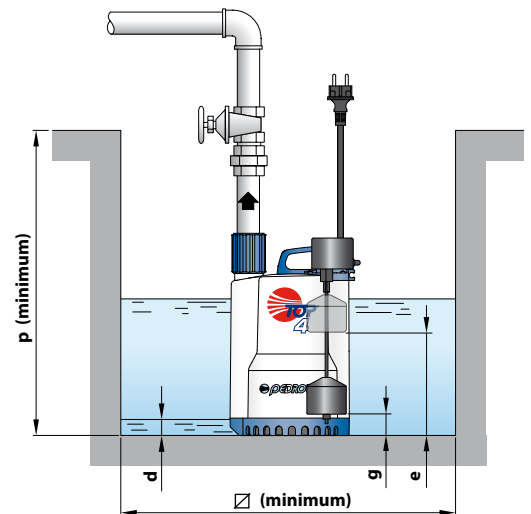


MODEL NUMBER	PORT OUT	DIMENSIONS (inches)							Lbs
		a	h	h1	d	e	p	Ø	
TOP 4	1½"	8.1	13.3	12.3	1.2	variable	17.7	17.7	22.7
TOP 5									24.9

Version with vertical float switch



Typical installation



MODEL NUMBER	PORT OUT	DIMENSIONS (inches)							Lbs	
		a	h	h1	d	e	g	p		Ø
TOP 4 - GM	1½"	8.1	13.3	12.3	1.2	8.7	2.6	17.7	11.8	22.9
TOP 5 - GM										25.1

## ABSORPTION

MODEL	VOLTAGE		
	230 V	110 V	127 V
TOP 4	5.0 A	9.8 A	8.7 A
TOP 5	6.0 A	12.0 A	11.5 A