



PERFORMANCE RANGE

- Flow rate up to **360 l/min** (21.6 m³/h)
- Head up to **15.5 m**

APPLICATION LIMITS

- Immersion depth:
 - up to **3 m** for TOP 1-2-3
 - up to **5 m** for TOP 4-5
 - (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
(Maximum liquid temperature +90 °C for a maximum of 3 minutes intermittent service)
- Passage of suspended solids up to **Ø 10 mm**
- Suction level:
 - **14 mm** above ground level for TOP 1-2-3
 - **30 mm** above ground level for TOP 4-5
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

The pumps are complete with:

- **5 m** long power cable for TOP 1-2-3
- **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



INSTALLATION AND USE

The **TOP** series is suitable for use with **clear water** that does not contain abrasive particles.

Because of the design solutions that have been adopted, such as the complete cooling of the motor and the shaft with double seal, these pumps are easy to use and reliable.

They are suitable for use in applications such as draining small flooded areas (rooms, cellars, garages) in the event of an emergency, for the disposal of waste water in the home (from dishwashers, washing machines) and for emptying drainage traps.

PATENTS - TRADE MARKS - MODELS

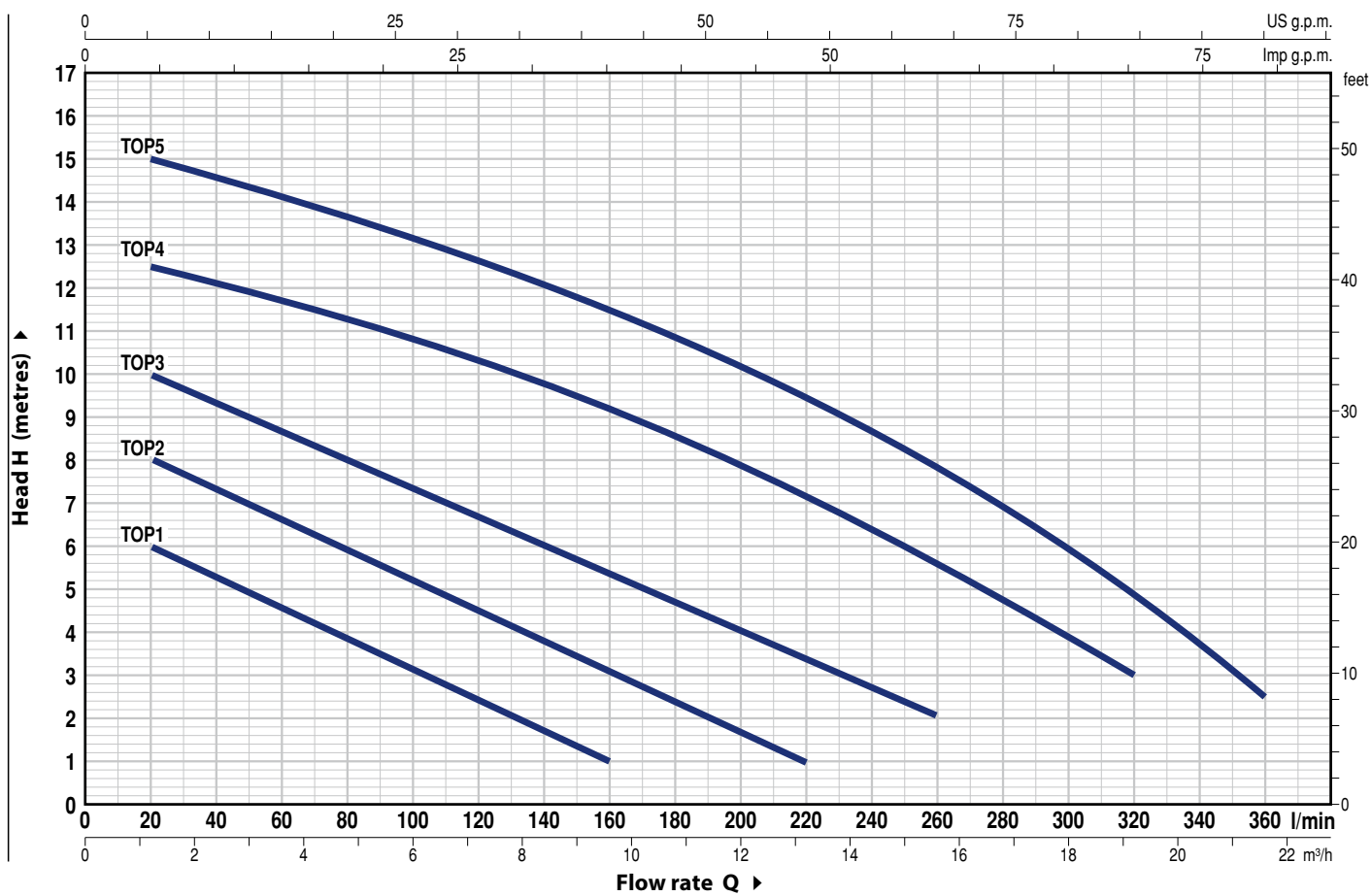
- Patent n. IT0001428923
- Registered EU Design n. 342159-0011

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 **10 m** long power cable
 - ➔ N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL	POWER (P ₂)		Q	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18.0	19.2	20.4	21.6
Single-phase	kW	HP		l/min	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360
TOP 1	0.25	0.33	H metres	7	6	5.5	4.5	4	3	2.5	1.5	1											
TOP 2	0.37	0.50		9	8	7.5	6.5	6	5.5	4.5	4	3	2.5	1.8	1								
TOP 3	0.55	0.75		10.5	10	9	8.8	8	7.5	6.5	6	5.5	4.8	4	3.5	2.5	2						
TOP 4	0.75	1		13	12.5	12.1	11.6	11.3	10.8	10.3	9.8	9.2	8.5	7.9	7.1	6.4	5.5	4.7	3.9	3			
TOP 5	0.92	1.25		15.5	15	14.5	14.1	13.6	13.2	12.6	12	11.5	10.8	10	9.4	8.5	7.8	6.8	6	4.8	3.6	2.5	

Q = Flow rate H = Total manometric head

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

TOP 1-2-3

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Technopolymer
2	SUCTION FILTER	Technopolymer
3	SUCTION PLATE	Stainless steel AISI 304 (AISI 316L for LA versions)
4	DIFFUSER	Technopolymer
5	IMPELLER	Noryl FE1520PW
6	MOTOR CASING	Stainless steel AISI 304 (AISI 316L for LA versions)
7	MOTOR CASING PLATE	Stainless steel AISI 304
8	MOTOR SHAFT	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 12 mm	Ceramic	Graphite	NBR	AISI 304
TOP 2-3 LA	AR-12R LA	Ø 12 mm	Ceramic	Graphite	NBR	AISI 316

10	LIP SEAL	Ø 12 x Ø 19 x H 5 mm
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11	BEARINGS	6201 ZZ / 6201 ZZ
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12 CAPACITOR

Pump Single-phase	Capacitance	
	(230 V or 240 V)	(110 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 230 V - 50 Hz
with thermal overload protector incorporated into the winding.

- Insulation: class F
- Protection: IP X8

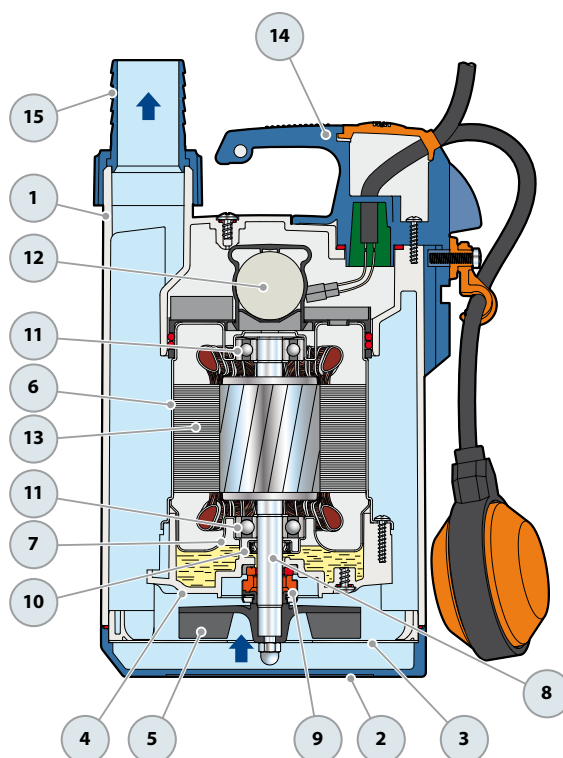
14 HANDLE ASSEMBLY (resin sealed)

Complete with:

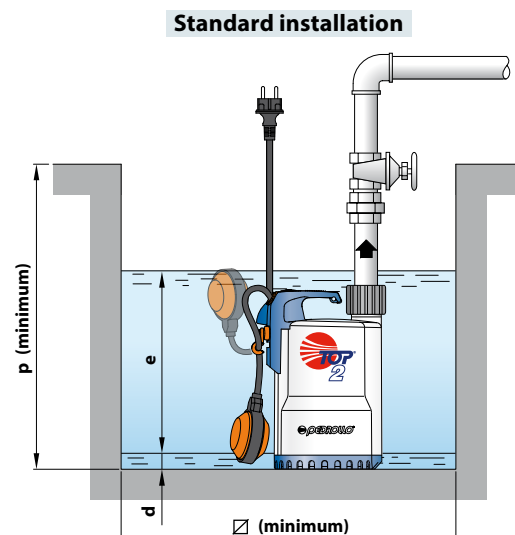
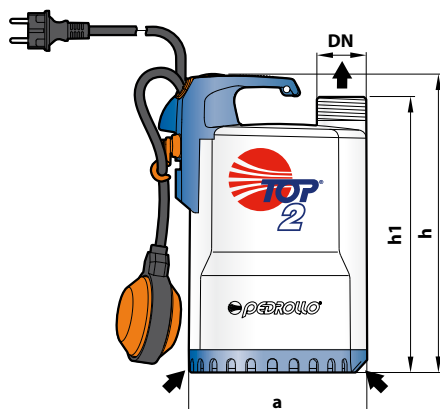
- **5 metres** long "H07 RN-F" power cable with Schuko plug
- Float switch
(Vertical float switch in the GM versions)

15 HOSE CONNECTOR WITH RING NUT

Ø 25 mm hose connection for TOP 1
Ø 35 mm for TOP 2-3

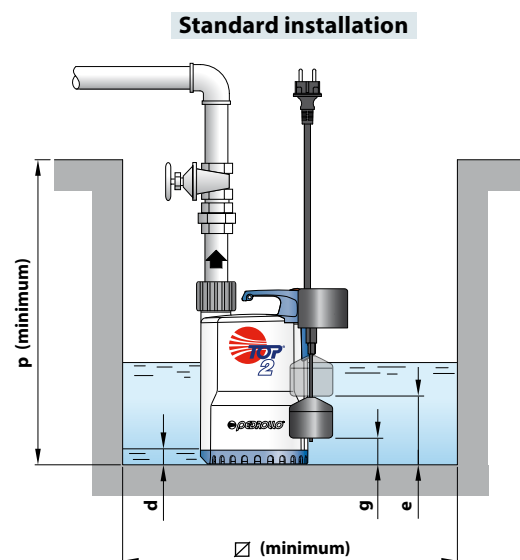
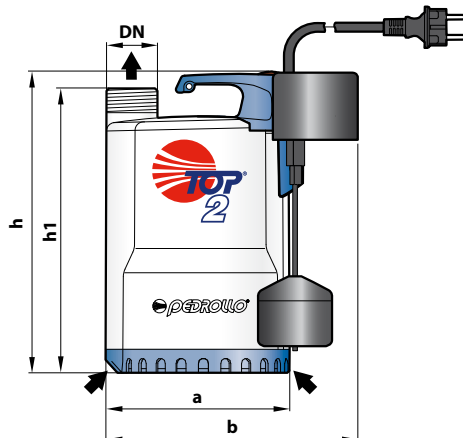


DIMENSIONS AND WEIGHT



MODEL	PORT	DIMENSIONS mm							kg
Single-phase	DN	a	h	h1	d	e	p	∅	
TOP 1	1 1/4"	152	260	240	14	variable	350	350	5.3
TOP 2			290	271					5.3
TOP 3									6.7

Version with vertical float switch



MODEL	PORT	DIMENSIONS mm									kg
Single-phase	DN	a	b	h	h1	d	e	g	p	∅	
TOP1-GM	1 1/4"	152	200	260	241	14	140	35	350	220	5.4
TOP2-GM				290	271		170	40			5.4
TOP3-GM											6.9

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
TOP 1	1.5 A	1.4 A	3.0 A
TOP 2	2.0 A	2.0 A	4.0 A
TOP 3	3.2 A	3.2 A	6.4 A

PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
TOP 1	96	144
TOP 2	96	144
TOP 3	96	144

TOP 4-5

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Technopolymer
2	SUCTION FILTER	Technopolymer
3	SUCTION PLATE	Stainless steel AISI 304
4	DIFFUSER	Technopolymer
5	IMPELLER	Noryl FE1520PW
6	MOTOR CASING	Stainless steel AISI 304
7	MOTOR CASING PLATE	Stainless steel AISI 304
8	MOTOR SHAFT	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 14 mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

10	BEARINGS	6203 ZZ / 6203 ZZ
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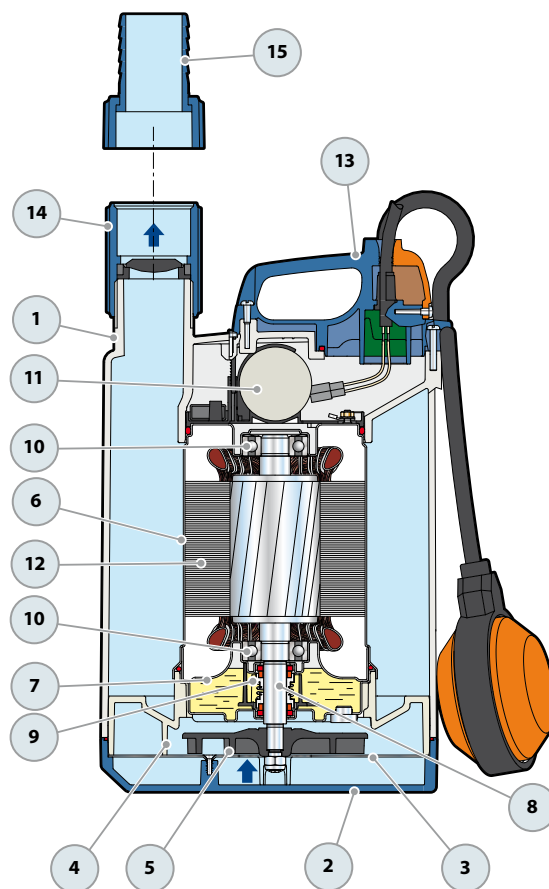
11	CAPACITOR	
Pump	Capacitance	
Single-phase	(230 V or 240 V)	(110 V)
TOP 4	16 µF 450 VL	30 µF - 250 VL
TOP 5	20 µF 450 VL	30 µF - 250 VL

12	ELECTRIC MOTOR	
TOP: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. – Insulation: class F – Protection: IP X8		

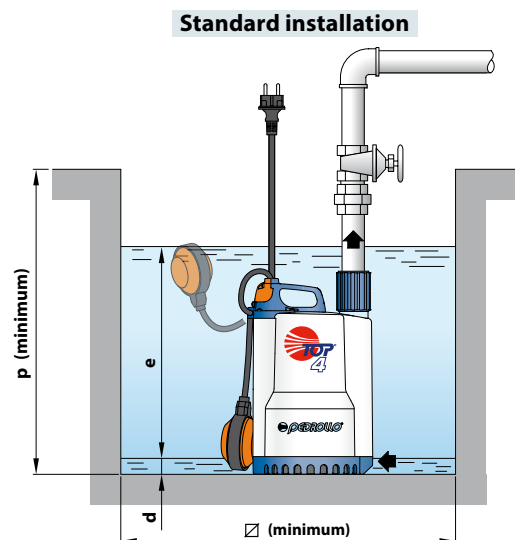
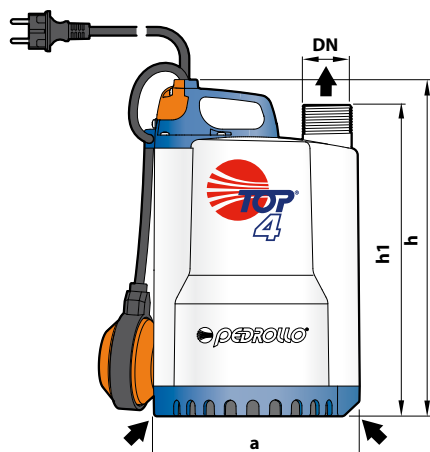
13	HANDLE ASSEMBLY (resin sealed)	
Complete with: – 10 metres long "H07 RN-F" power cable with Schuko plug – Float switch (Vertical float switch in the GM versions)		

14	PIPE COUPLING	
In technopolymer with 1½" thread and non-return valve		

15	HOSE CONNECTOR WITH RING NUT	
Hose connection Ø 41 mm		

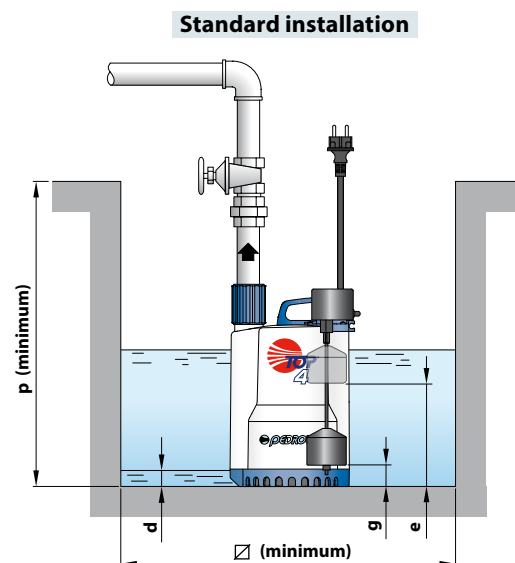
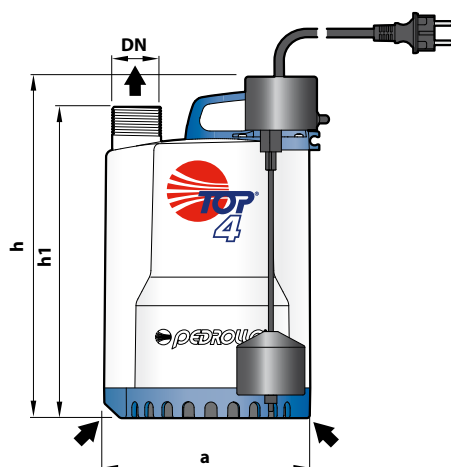


DIMENSIONS AND WEIGHT



MODEL	PORT	DIMENSIONS mm							kg
Single-phase	DN	a	h	h1	d	e	p	Ø	
TOP 4	1½"	204	337	313	30	variable	450	450	10.3
TOP 5									11.3

Version with vertical float switch



MODEL	PORT	DIMENSIONS mm							kg
Single-phase	DN	a	h	h1	d	e	g	p	Ø
TOP 4 - GM	1½"	204	337	313	30	220	65	450	300
TOP 5 - GM									

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
TOP 4	4.5 A	4.4 A	9.0 A
TOP 5	5.5 A	5.5 A	11.0 A

PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
TOP 4	60	100
TOP 5	60	100

TOP-FLOOR

Submersible DRAINAGE pumps

 Clear water

 Domestic use



PERFORMANCE RANGE

- Flow rate up to **160 l/min** (9.6 m³/h)
- Head up to **9 m**

APPLICATION LIMITS

- **3 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C** (Maximum liquid temperature +90 °C for a maximum of 3 minutes intermittent service)
- Passage of suspended solids up to **Ø 2 mm**
- Suction down to **2 mm** above ground level
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

The pumps are complete with a **5 m** power cable

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

The **TOP-FLOOR** series is suitable for use with **clear water** that does not contain abrasive particles.

Because of their ability to drain water to a level of 2 millimetres above ground level, they are suitable for use in domestic emergencies where a small area must be drained to the lowest possible level.

PATENTS - TRADE MARKS - MODELS

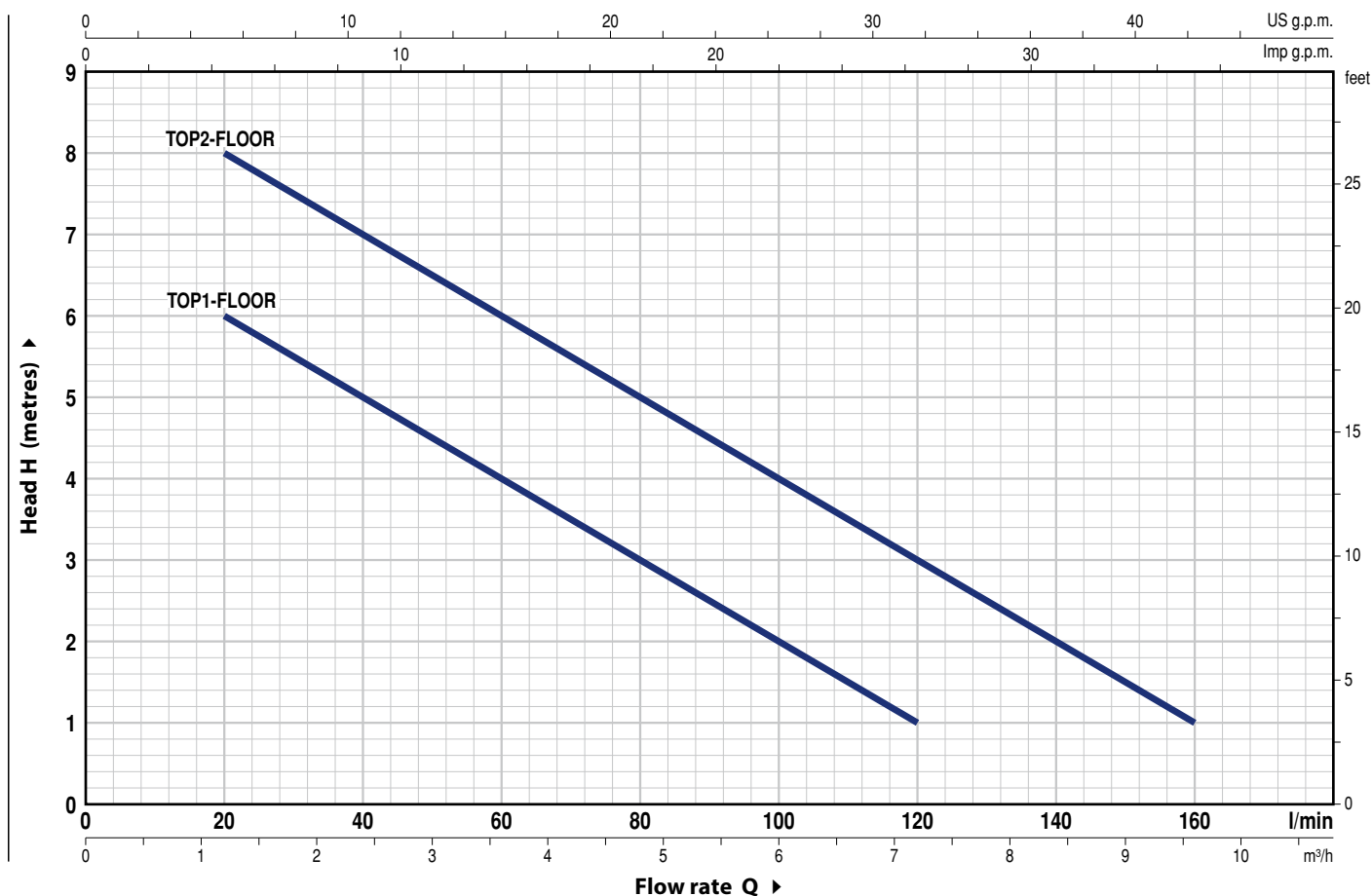
- Registered EU Design n. 342159-0011

OPTIONS AVAILABLE ON REQUEST

- Pumps with float switch
- Pumps intended for use with aggressive liquids:
 - **TOP 1-FLOOR/LA**
 - **TOP 2-FLOOR/LA**
- Special mechanical seal
- Pumps with a **10 m** long power cable.
 - ➡ N.B.: Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL Single-phase	POWER (P ₂)		Q m ³ /h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6
	kW	HP		0	20	40	60	80	100	120	140	160
TOP 1-FLOOR	0.25	0.33	H metres	7	6	5	4	3	2	1		
TOP 2-FLOOR	0.37	0.50		9	8	7	6	5	4	3	2	1

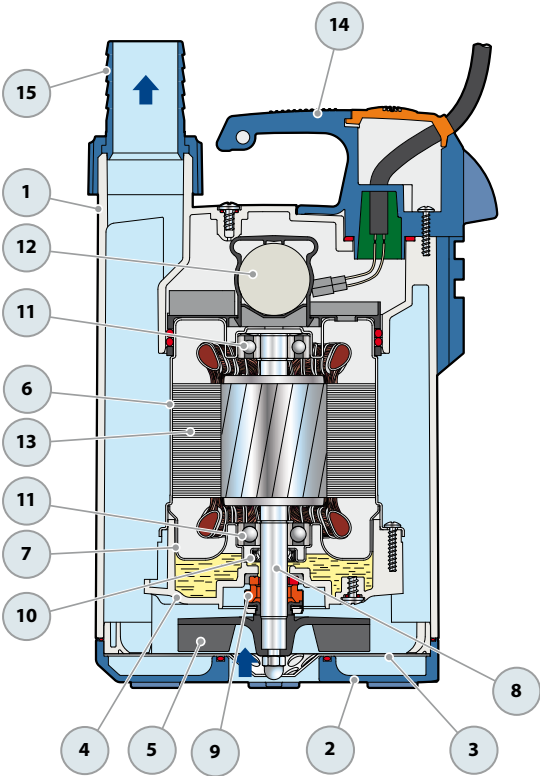
Q = Flow rate H = Total manometric head

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

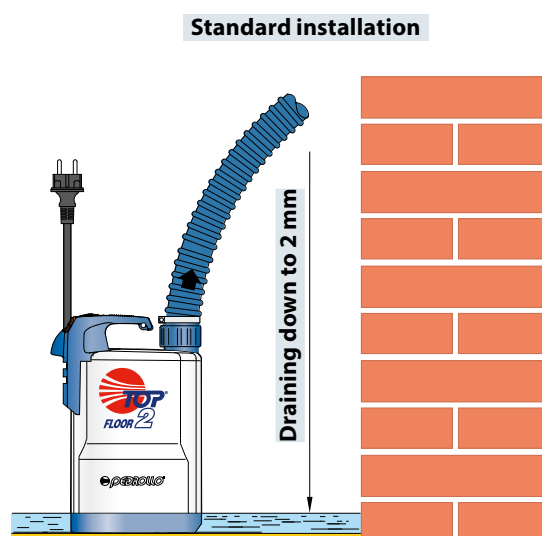
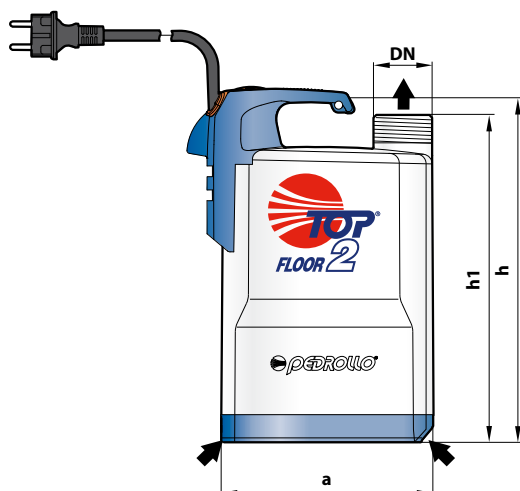
TOP-FLOOR

POS. COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	Technopolymer				
2	SUCTION FILTER	Technopolymer				
3	SUCTION PLATE	Stainless steel AISI 304 (AISI 316L for LA versions)				
4	DIFFUSER	Technopolymer				
5	IMPELLER	Noryl FE1520PW				
6	MOTOR CASING	Stainless steel AISI 304 (AISI 316L for LA versions)				
7	MOTOR CASING PLATE	Stainless steel AISI 304				
8	MOTOR SHAFT	Stainless steel AISI 431 (AISI 316L for LA versions)				
9	SHAFT WITH DOUBLE SEAL AND OIL CHAMBER					
Seal		Shaft		Materials		
Model	Diameter	Stationary ring	Rotational ring	Elastomer		
STA-12R	Ø 12 mm	Ceramic	Graphite	NBR		
10	LIP SEAL	Ø 12 x Ø 19 x H 5 mm				
11	BEARINGS	6201 ZZ / 6201 ZZ				
12	CAPACITOR					
Pump		Capacitance				
Single-phase	(230 V or 240 V)	(110 V)				
TOP 1-FLOOR	10 µF 450 VL	16 µF - 250 VL				
TOP 2-FLOOR	10 µF 450 VL	16 µF - 250 VL				
13	ELECTRIC MOTOR					
TOP-FLOOR: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.						
– Insulation: class F						
– Protection: IP X8						
14	HANDLE ASSEMBLY (resin sealed)					
Complete with 5 metres long “H07 RN-F” power cable with Schuko plug						
15	HOSE CONNECTOR WITH RING NUT					
Ø 25 mm hose connection for TOP1 - FLOOR						
Ø 35 mm hose connection for TOP2 - FLOOR						

The diagram is a detailed cross-sectional view of the pump assembly. It shows the internal components from the top handle down to the base. Callout 1 points to the pump body, 2 to the suction filter, 3 to the suction plate, 4 to the diffuser, 5 to the impeller, 6 to the motor casing, 7 to the motor casing plate, 8 to the motor shaft, 9 to the shaft with double seal and oil chamber, 10 to the lip seal, 11 to the bearings, 12 to the capacitor, 13 to the electric motor, 14 to the handle assembly, and 15 to the hose connector with ring nut. The diagram also shows the flow of water from the suction side through the impeller and out through the diffuser.



DIMENSIONS AND WEIGHT



MODEL	PORT	DIMENSIONS mm			Minimum drying level	kg
Single-phase	DN	a	h	h1		
TOP 1-FLOOR	1 1/4"	152	257	237	2 mm	5.1
TOP 2-FLOOR						5.2

ABSORPTION


MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
TOP 1-FLOOR	1.5 A	1.4 A	3.0 A
TOP 2-FLOOR	2.0 A	1.9 A	4.0 A

PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
TOP 1-FLOOR	96	144
TOP 2-FLOOR	96	144

TOP-VORTEX

Submersible pumps

 Dirty water

 Domestic use



PERFORMANCE RANGE

- Flow rate up to **180 l/min** (10.8 m³/h)
- Head up to **8.5 m**

APPLICATION LIMITS

- **3 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C** (Maximum liquid temperature +90 °C for a maximum of 3 minutes intermittent service)
- Passage of suspended solids up to **Ø 25 mm**
- Suction down to **25 mm** above ground level
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

The pumps are complete with:

- **5 m** long power cable
- 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



INSTALLATION AND USE

The **TOP-VORTEX** pump is suitable for use with **dirty water** that is not chemically aggressive towards the materials from which the pump is made.

Because of the design solutions that have been adopted, such as the complete cooling of the motor and the shaft with double seal, these pumps are easy to use and reliable.

They are suitable for use in applications such as clearing dirty water, emptying tanks, discharging domestic waste water, and for emptying collection traps containing suspended solids up to a maximum of Ø 25 mm.

PATENTS - TRADE MARKS - MODELS

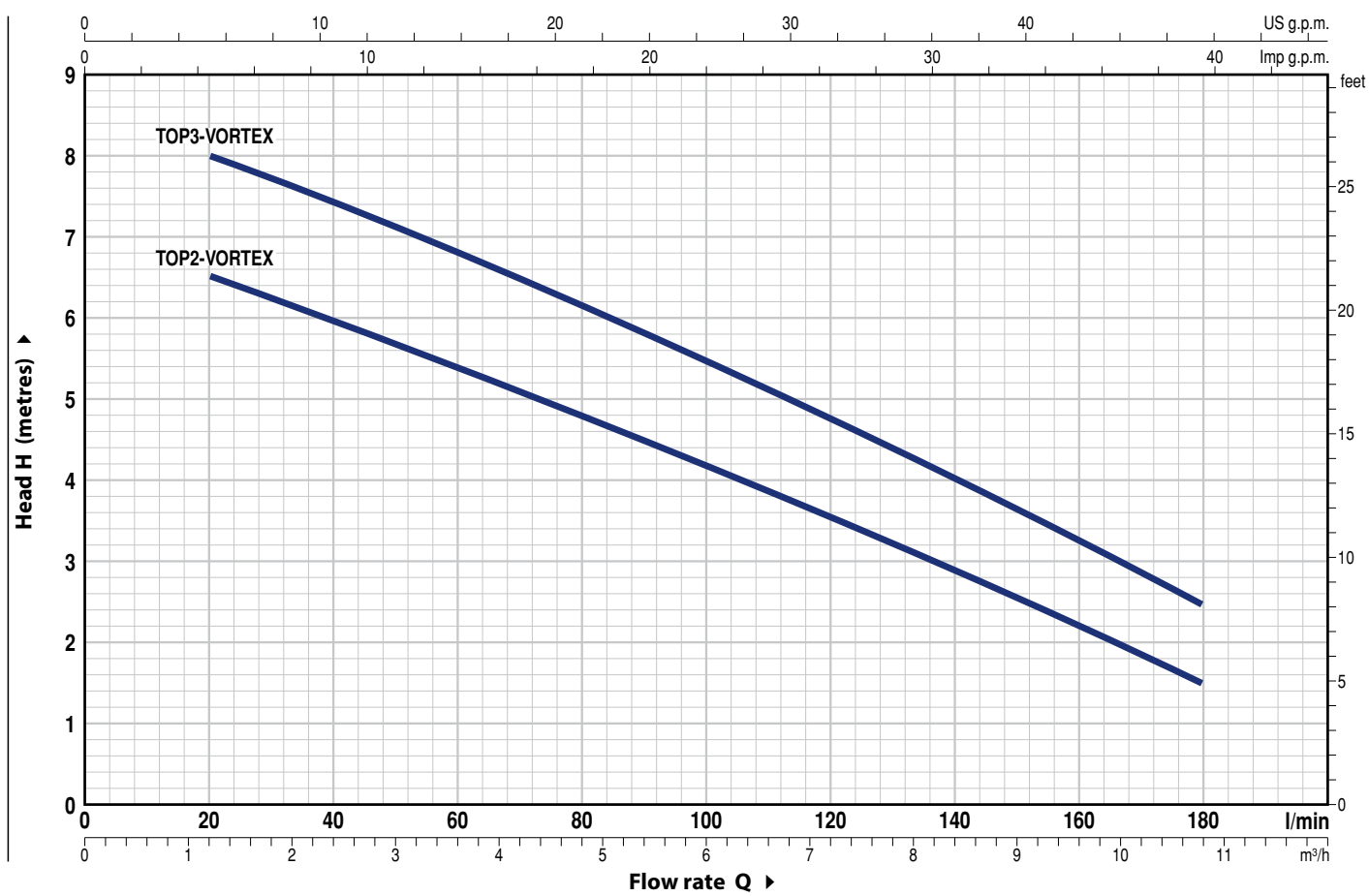
- Patent n. IT0001428923
- Registered EU Design n. 342159-0011

OPTIONS AVAILABLE ON REQUEST

- “**TOP-VORTEX/GM**” pumps with vertical switch (suitable for particularly small wells)
- Special mechanical seal
- Pumps with a **10 m** long power cable.
 - ➔ N.B.: Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL Single-phase	POWER (P ₂)		Q m³/h l/min	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
	kW	HP		0	20	40	60	80	100	120	140	160	180
TOP 2 - VORTEX	0.37	0.50	H metres	7	6.5	6	5.4	4.8	4.2	3.5	2.9	2.2	1.5
TOP 3 - VORTEX	0.55	0.75		8.5	8	7.4	6.8	6.1	5.5	4.7	4	3.2	2.5

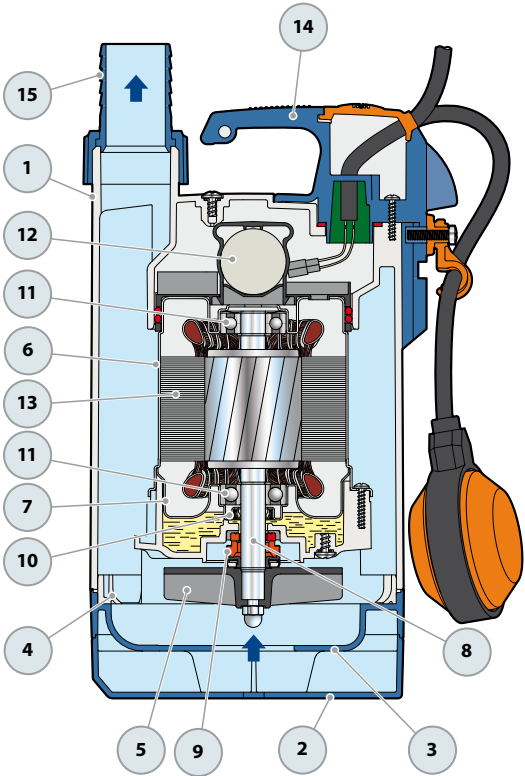
Q = Flow rate H = Total manometric head

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

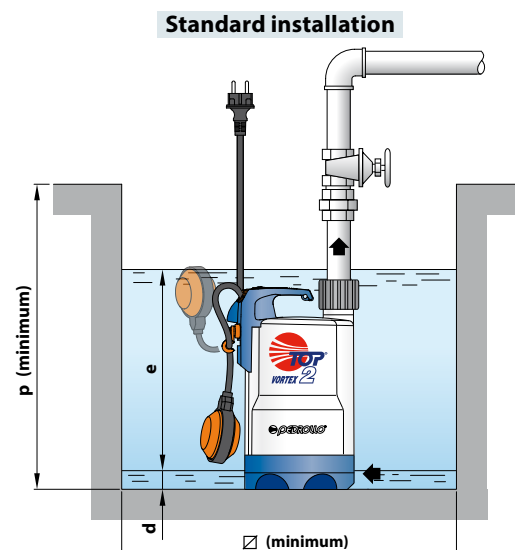
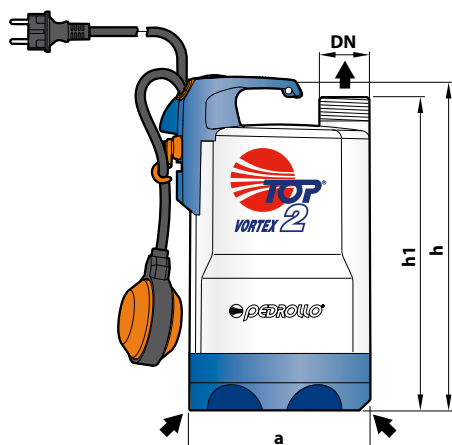
TOP-VORTEX

POS. COMPONENT		CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	Technopolymer				
2	SUCTION FILTER	Technopolymer				
3	SUCTION PLATE	Technopolymer				
4	DIFFUSER	Technopolymer				
5	IMPELLER	Technopolymer VORTEX type				
6	MOTOR CASING	Stainless steel AISI 304				
7	MOTOR CASING PLATE	Stainless steel AISI 304				
8	MOTOR SHAFT	Stainless steel AISI 431				
9	SHAFT WITH DOUBLE SEAL AND OIL CHAMBER					
Seal		Shaft		Materials		
Model	Diameter	Stationary ring	Rotational ring	Elastomer		
STA-12R	Ø 12 mm	Ceramic	Graphite	NBR		
10	LIP SEAL	Ø 12 x Ø 19 x H 5 mm				
11	BEARINGS	6201 ZZ / 6201 ZZ				
12	CAPACITOR					
Pump		Capacitance				
Single-phase	(230 V or 240 V)	(110 V)				
TOP 2 - VORTEX	10 µF 450 VL	16 µF - 250 VL				
TOP 3 - VORTEX	14 µF 450 VL	16 µF - 250 VL				
13	ELECTRIC MOTOR					
TOP-VORTEX: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.						
– Insulation: class F						
– Protection: IP X8						
14	HANDLE ASSEMBLY (resin sealed)					
Complete with:						
– 5 metres long "H07 RN-F" power cable with Schuko plug						
– Float switch (Vertical float switch in the GM versions)						
15	HOSE CONNECTOR WITH RING NUT					
Hose connection Ø 35 mm						

The diagram is a detailed cross-sectional view of the pump assembly. It shows the internal components including the motor, shaft, impeller, and various seals. The numbered callouts are as follows: 1. Pump body; 2. Suction filter; 3. Suction plate; 4. Diffuser; 5. Impeller; 6. Motor casing; 7. Motor casing plate; 8. Motor shaft; 9. Shaft with double seal and oil chamber; 10. Lip seal; 11. Bearings; 12. Capacitor; 13. Electric motor; 14. Handle assembly; 15. Hose connector with ring nut. The diagram also shows the flow of water from the suction side into the pump body and out through the diffuser.

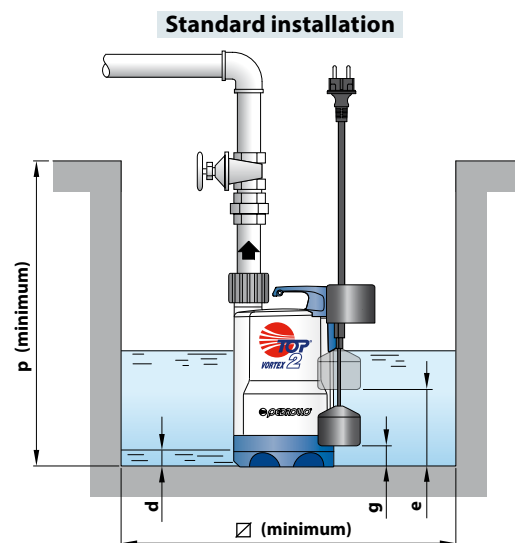
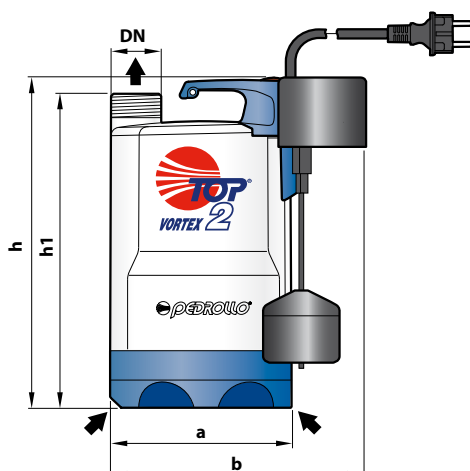


DIMENSIONS AND WEIGHT



MODEL	PORT	DIMENSIONS mm							kg
Single-phase	DN	a	h	h1	d	e	p	Ø	
TOP 2 - VORTEX	1 1/4"	152	288	268	25	variable	350	350	5.3
TOP 3 - VORTEX			318	298					6.7

Version with vertical float switch



MODEL	PORT	DIMENSIONS mm									kg
Single-phase	DN	a	b	h	h1	d	e	g	p	Ø	
TOP 2 - VORTEX/GM	1 1/4"	152	200	288	268	25	170	40	350	220	5.4
TOP 3 - VORTEX/GM				318	298		200	65			6.9

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
TOP 2 - VORTEX	2.0 A	1.9 A	4.0 A
TOP 3 - VORTEX	2.9 A	2.8 A	7.0 A

PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
TOP 2 - VORTEX	96	120
TOP 3 - VORTEX	96	120