

Submersible DRAINAGE pump

➡ for clear water



PERFORMANCE RANGE

- Flow rate up to **400 l/min** (24 m³/h)
- Head up to **14.5 m**

APPLICATION LIMITS

- Immersion limit:
 - **3 m** for TOP 1-2-3
 - **5 m** for TOP 4-5
- 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

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



AM30



VspTECT-003

INSTALLATION AND USE

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

As a result 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

- Registered Community Design n° 342159-0011

OPTIONALS AVAILABLE ON REQUEST

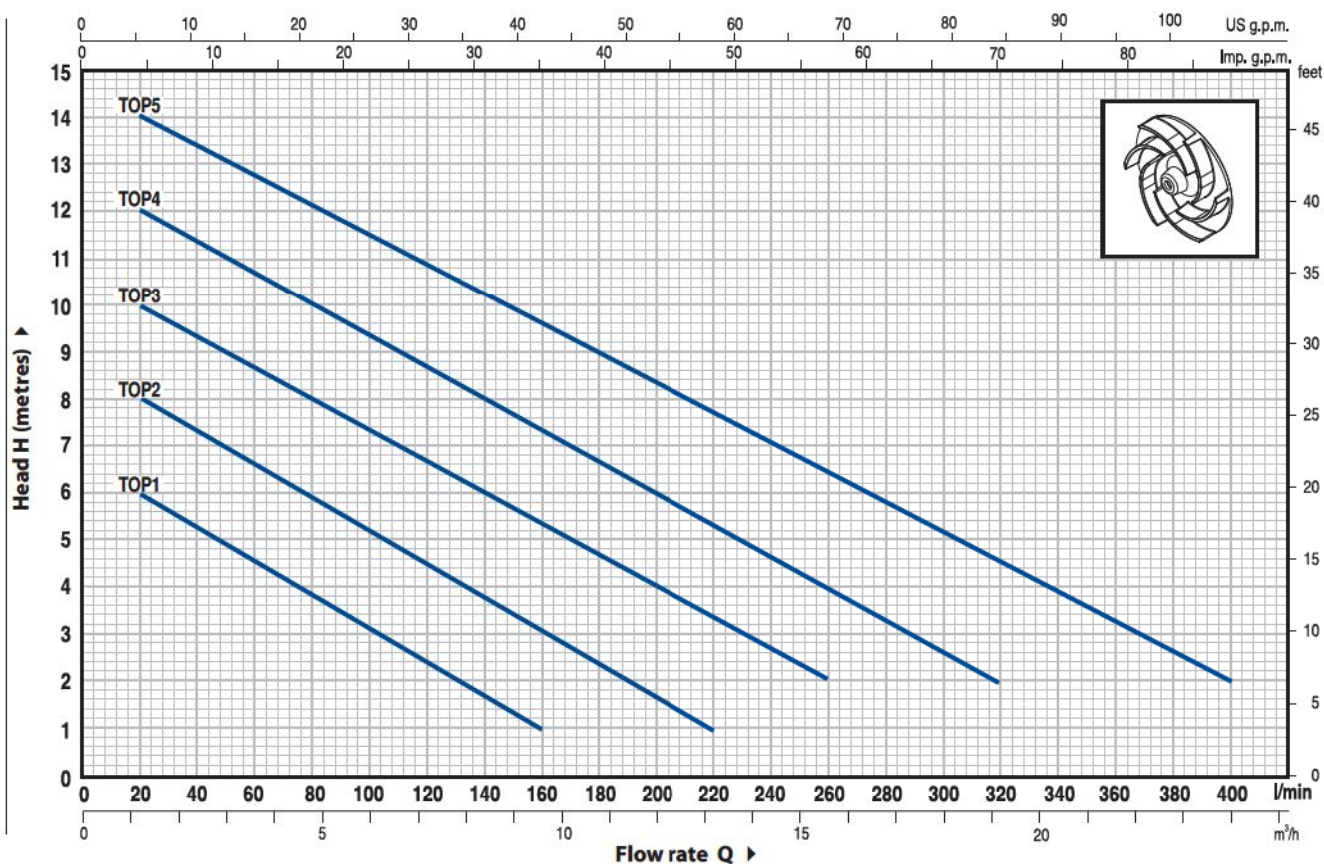
- "**TOP - LA**" pumps intended for use with aggressive liquids
- Special mechanical seal
- TOP 1-2-3 pumps with **10 m** long power cable
 - ➡ N.B. Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Pumps without float switch
- Other voltages or 60 Hz frequency

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



| MODEL | POWER | | Q | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------|------|----------|-------|------|-----|------|------|------|------|------|------|-----|------|-----|------|------|------|------|------|------|------|------|------|-----|--|--|--|--|
| | kW | HP | | 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 | 22.8 | 24 | | | | |
| Single-phase | | | | l/min | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 | | | | |
| 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 | | | 12.6 | 12 | 11.5 | 10.7 | 10 | 9.3 | 8.7 | 8 | 7.3 | 6.7 | 6 | 5.3 | 4.7 | 4 | 3.3 | 2.7 | 2 | | | | | | | | |
| TOP 5 | 0.92 | 1.25 | | | 14.5 | 14 | 13.5 | 12.7 | 12.1 | 11.5 | 10.8 | 10.2 | 9.6 | 8.9 | 8.3 | 7.7 | 7.1 | 6.4 | 5.8 | 5.2 | 4.5 | 3.9 | 3.3 | 2.6 | 2 | | | | |

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

TOP 1-2-3

| 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 GFN2V |
| 6 | MOTOR CASING | Stainless steel AISI 304 |
| 7 | MOTOR CASING PLATE | Stainless steel AISI 304 |
| 8 | MOTOR SHAFT | Stainless steel EN 10088-3 - 1.4104 |

9 SHAFT WITH DOUBLE SEAL AND OIL CHAMBER

| Pump Model | Seal Model | Shaft Diameter | Stationary ring | Rotational ring | Elastomer |
|--------------|------------|----------------|-----------------|-----------------|-----------|
| TOP 1-2-3 | AR-12R | Ø 12 mm | Ceramic | Graphite | NBR |
| TOP 1-2-3 LA | AR-12R LA | 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 Model | Capacitance (230 V or 240 V) | (110 V) |
|------------|------------------------------|--------------|
| TOP 1 | 6.3 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

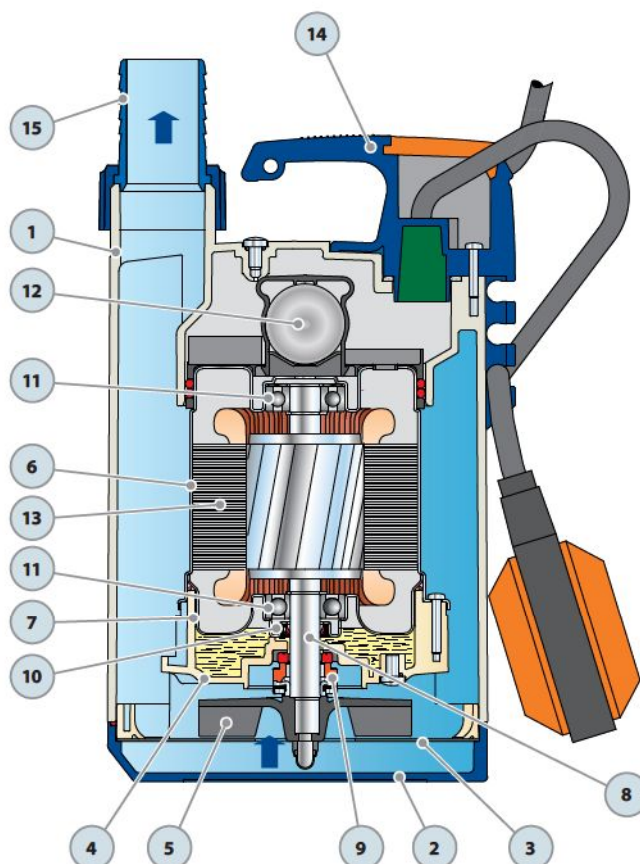
- Single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding
- Insulation: F class
- Protection: IP 68

14 HANDLE ASSEMBLY (resin sealed)

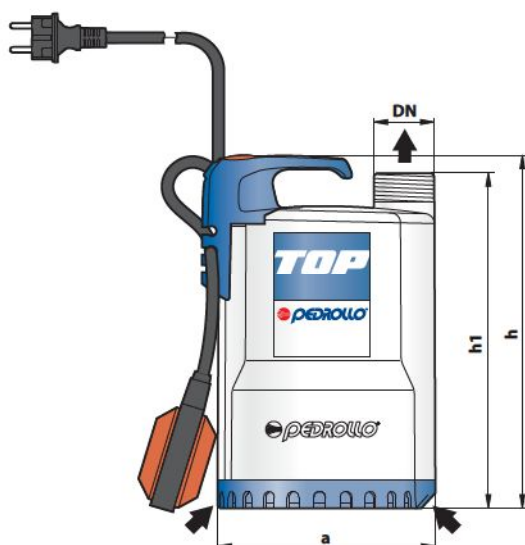
- Complete with:
- 5 metre long "H07 RN-F" power cable with Schuko plug
 - Float switch.

15 HOSE CONNECTOR WITH UNION

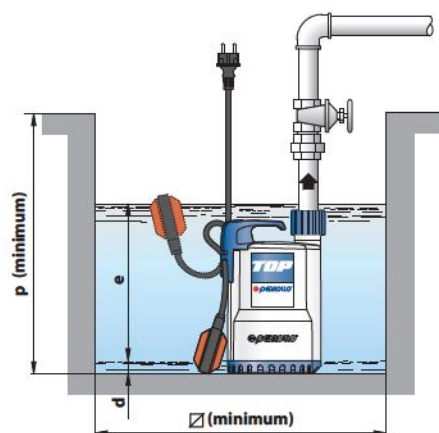
- Ø 25 mm hose connection for TOP 1
Ø 35 mm for TOP 2-3



DIMENSIONS AND WEIGHT



Typical installation



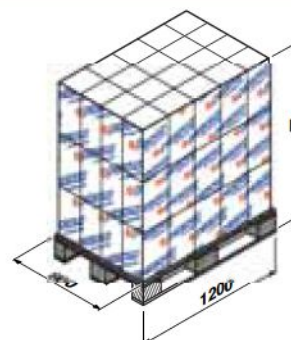
| MODEL | PORT DN | DIMENSIONS mm | | | | | | | kg |
|--------------|------------|---------------|-----|-----|----|----------|-----|-----|-----|
| Single-phase | | a | h | h1 | d | e | p | Ø | |
| TOP 1 | 1 1/4" | 152 | 257 | 237 | 14 | variable | 350 | 350 | 4.5 |
| TOP 2 | | | 287 | 267 | | | | | 5.2 |
| TOP 3 | | | | | | | | | 6.6 |

ABSORPTION

| MODEL | VOLTAGE (single-phase) | | |
|--------------|------------------------|-------|-------|
| Single-phase | 230 V | 240 V | 110 V |
| TOP 1 | 1.3 A | 1.3 A | 3.0 A |
| TOP 2 | 2.0 A | 2.0 A | 5.3 A |
| TOP 3 | 3.2 A | 3.2 A | 7.9 A |

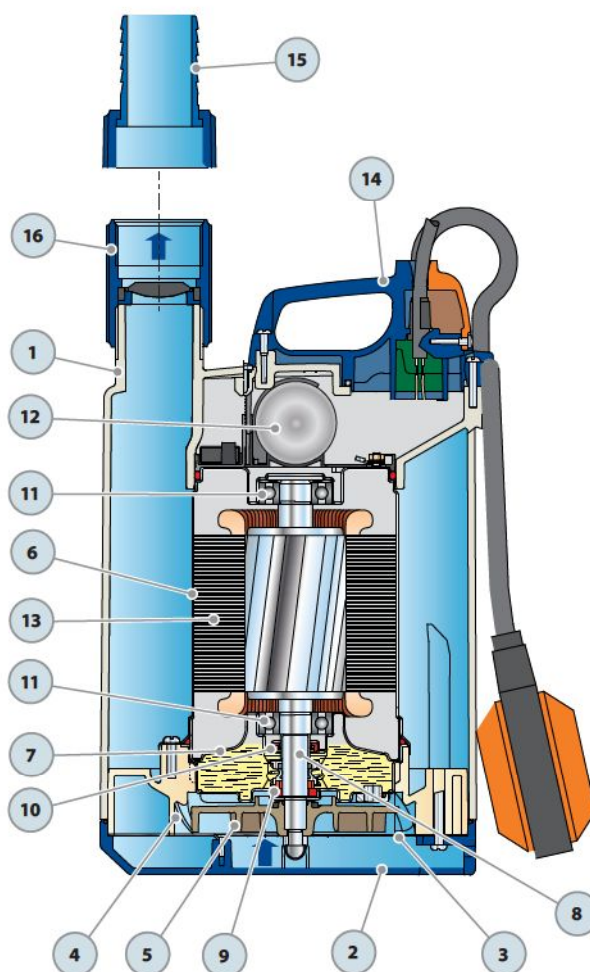
PALLETIZATION

| MODEL | GROUPAGE | | | CONTAINER | | |
|-------|-------------|-----------|-----|-------------|-----------|-----|
| | n° pumps | H (mm) | kg | n° pumps | H (mm) | kg |
| TOP 1 | 96 | 1260 | 444 | 168 | 2100 | 765 |
| TOP 2 | 96 | 1260 | 515 | 168 | 2100 | 888 |
| TOP 3 | 96 | 1360 | 653 | 144 | 1970 | 971 |

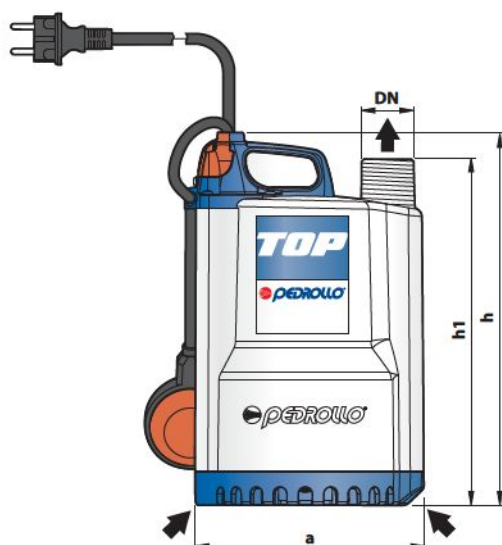


TOP 4-5

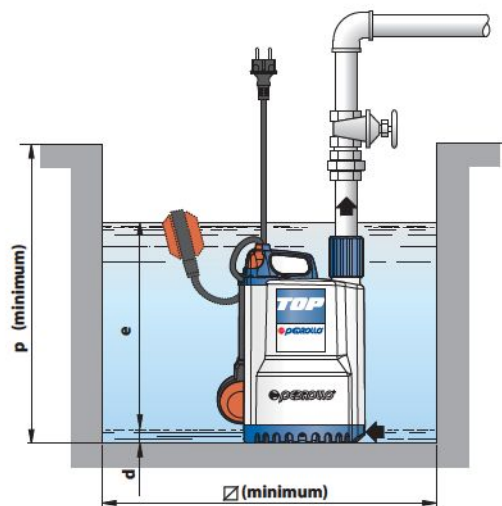
| POS. | COMPONENT | CONSTRUCTION CHARACTERISTICS |
|------|---|-------------------------------------|
| 1 | PUMP BODY | Technopolymer |
| 2 | SUCTION FILTER | Technopolymer |
| 3 | SUCTION PLATE | Stainless steel AISI 304 |
| 4 | DIFFUSER | Technopolymer |
| 5 | IMPELLER | Ryton |
| 6 | MOTOR CASING | Stainless steel AISI 304 |
| 7 | MOTOR CASING PLATE | Stainless steel AISI 304 |
| 8 | MOTOR SHAFT | Stainless steel EN 10088-3 - 1.4104 |
| 9 | SHAFT WITH DOUBLE SEAL AND OIL CHAMBER | |
| | <i>Seal</i> | <i>Shaft</i> |
| | <i>Model</i> | <i>Diameter</i> |
| | MG1-14 | Ø 14 mm |
| | | <i>Stationary ring</i> |
| | | Ceramic |
| | | <i>Rotational ring</i> |
| | | Graphite |
| | | <i>Elastomer</i> |
| | | NBR |
| 10 | LIP SEAL | Ø 16 x Ø 24 x H 5 mm |
| 11 | BEARINGS | 6203 ZZ / 6203 ZZ |
| 12 | CAPACITOR | |
| | <i>Pump</i> | <i>Capacitance</i> |
| | <i>Single-phase</i> | <i>(230 V or 240 V)</i> |
| | TOP 4 | 16 µF 450 VL |
| | TOP 5 | 20 µF 450 VL |
| 13 | ELECTRIC MOTOR | |
| | <ul style="list-style-type: none"> Single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding Insulation: F class Protection: IP 68 | |
| 14 | HANDLE ASSEMBLY (resin sealed) | |
| | Complete with: <ul style="list-style-type: none"> 10 metre long "H07 RN-F" power cable with Schuko plug Float switch. | |
| 15 | HOSE CONNECTOR WITH UNION | |
| | Hose connection Ø 41 mm | |
| 16 | PIPE COUPLING | |
| | In technopolymer with 1½" thread and clapet valve | |



DIMENSIONS AND WEIGHT



Typical installation



| MODEL | PORT | DIMENSIONS mm | | | | | | | kg |
|--------------|------|---------------|-----|-----|----|----------|-----|-----|------|
| Single-phase | DN | a | h | h1 | d | e | p | Ø | |
| TOP 4 | 1½" | 204 | 334 | 310 | 30 | variable | 450 | 450 | 10.1 |
| TOP 5 | | | | | | | | | 11.1 |

ABSORPTION

| MODEL | VOLTAGE (single-phase) | | |
|--------------|------------------------|-------|--------|
| Single-phase | 230 V | 240 V | 110 V |
| TOP 4 | 4.8 A | 4.8 A | 9.6 A |
| TOP 5 | 6.5 A | 6.5 A | 13.0 A |

PALLETIZATION

| MODEL | GROUPAGE | | | CONTAINER | | |
|--------------|----------|--------|-----|-----------|--------|------|
| | n° pumps | H (mm) | kg | n° pumps | H (mm) | kg |
| Single-phase | | | | | | |
| TOP 4 | 54 | 1295 | 563 | 90 | 2065 | 928 |
| TOP 5 | 54 | 1295 | 617 | 90 | 2065 | 1016 |

