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

ECE

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 (P₂) | Q m³/h | m³/h |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP1</td>
<td>0.25</td>
<td>0.33</td>
<td>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</td>
</tr>
<tr>
<td>TOP2</td>
<td>0.37</td>
<td>0.50</td>
<td>0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360</td>
</tr>
<tr>
<td>TOP3</td>
<td>0.55</td>
<td>0.75</td>
<td>0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360</td>
</tr>
<tr>
<td>TOP4</td>
<td>0.75</td>
<td>1</td>
<td>0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360</td>
</tr>
<tr>
<td>TOP5</td>
<td>0.92</td>
<td>1.25</td>
<td>0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360</td>
</tr>
</tbody>
</table>

Q = Flow rate  H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.
## 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**
--- | --- | --- | --- | ---
TOP 1-2-3 | STA-12R | Ø 12 mm | Ceramic Graphite NBR AISI 304
TOP 1-2-3 GM | | | | |
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
11 | BEARINGS | 6201 ZZ / 6201 ZZ
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** | **g** | **p** |
**TOP 1** | 1¼" | 152 | 260 | 240 | 14 | variable | 350 | 350 | 5.3
**TOP 2** | | | | | | | | | 5.3
**TOP 3** | | 290 | 271 | | | | | | 6.7

**Version with vertical float switch**

**MODEL** | **PORT** | **DIMENSIONS mm** | **kg**
---|---|---|---
**Single-phase** | **DN** | **a** | **b** | **h** | **h1** | **d** | **e** | **g** | **p** |
**TOP 1-GM** | 1¼" | 152 | 200 | 260 | 241 | 14 | 140 | 35 | 350 | 220 | 5.4
**TOP 2-GM** | | | | | | | | | | 5.4
**TOP 3-GM** | | 290 | 271 | | 170 | 40 | | | | 6.9

**PALLETTIZATION**

**MODEL** | **GROUPAGE** | **CONTAINER**
---|---|---
**Single-phase** | n. pumps | n. pumps
top 1 | 96 | 144
top 2 | 96 | 144
top 3 | 96 | 144

**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
### POS. COMPONENT

<table>
<thead>
<tr>
<th>POS.</th>
<th>COMPONENT</th>
<th>CONSTRUCTION CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PUMP BODY</td>
<td>Technopolymer</td>
</tr>
<tr>
<td>2</td>
<td>SUCTION FILTER</td>
<td>Technopolymer</td>
</tr>
<tr>
<td>3</td>
<td>SUCTION PLATE</td>
<td>Stainless steel AISI 304</td>
</tr>
<tr>
<td>4</td>
<td>DIFFUSER</td>
<td>Technopolymer</td>
</tr>
<tr>
<td>5</td>
<td>IMPELLER</td>
<td>Noryl FE1520PW</td>
</tr>
<tr>
<td>6</td>
<td>MOTOR CASING</td>
<td>Stainless steel AISI 304</td>
</tr>
<tr>
<td>7</td>
<td>MOTOR CASING PLATE</td>
<td>Stainless steel AISI 304</td>
</tr>
<tr>
<td>8</td>
<td>MOTOR SHAFT</td>
<td>Stainless steel AISI 431</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Seal Model</th>
<th>Shaft Diameter</th>
<th>Position</th>
<th>Stationary ring</th>
<th>Rotational ring</th>
<th>Elastomer</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG1-14D SIC</td>
<td>Ø 14 mm</td>
<td>Motor side</td>
<td>Silicon carbide</td>
<td>Graphite</td>
<td>NBR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pump side</td>
<td>Silicon carbide</td>
<td>Silicon carbide</td>
<td>NBR</td>
</tr>
</tbody>
</table>

#### 10 BEARINGS

| 6203 ZZ / 6203 ZZ |

#### 11 CAPACITOR

<table>
<thead>
<tr>
<th>Pump Single-phase</th>
<th>Capacitance</th>
<th>(230 V or 240 V)</th>
<th>(110 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP 4</td>
<td>16 μF 450 VL</td>
<td>30 μF - 250 VL</td>
<td></td>
</tr>
<tr>
<td>TOP 5</td>
<td>20 μF 450 VL</td>
<td>30 μF - 250 VL</td>
<td></td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PORT DN</th>
<th>a</th>
<th>h</th>
<th>h1</th>
<th>d</th>
<th>e</th>
<th>p</th>
<th>Σ</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOP 4</td>
<td>1½&quot;</td>
<td>204</td>
<td>337</td>
<td>313</td>
<td>30</td>
<td>variable</td>
<td>450</td>
<td>450</td>
<td>10.3</td>
</tr>
<tr>
<td>TOP 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Version with vertical float switch

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PORT DN</th>
<th>a</th>
<th>h</th>
<th>h1</th>
<th>d</th>
<th>e</th>
<th>g</th>
<th>p</th>
<th>Σ</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOP 4 - GM</td>
<td>1½&quot;</td>
<td>204</td>
<td>337</td>
<td>313</td>
<td>30</td>
<td>220</td>
<td>65</td>
<td>450</td>
<td>300</td>
<td>10.4</td>
</tr>
<tr>
<td>TOP 5 - GM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11.4</td>
</tr>
</tbody>
</table>

### ABSORPTION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td></td>
</tr>
<tr>
<td>TOP 4</td>
<td>4.5 A</td>
</tr>
<tr>
<td>TOP 5</td>
<td>5.5 A</td>
</tr>
</tbody>
</table>

### PALLETIZATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>GROUPAGE</th>
<th>CONTAINER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOP 4</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>TOP 5</td>
<td>60</td>
<td>100</td>
</tr>
</tbody>
</table>