

SUBMERSIBLE PUMPS

PRORIL

PRORIL

PRORIL

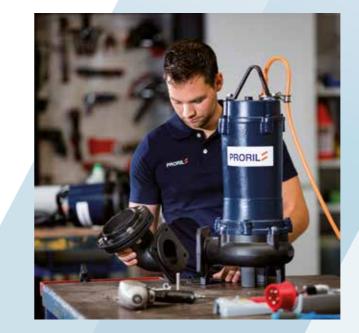
PRORIL



PRORIL

PRORIL was established in 1979, starting from a small motor factory where it has transformed itself into a global size submersible pump manufacturer. Its perseverance and dedication of making high quality products and maintaining a strong working etiquette are mere images of the founder's belief and philosophy that contribute to the success of PRORIL.

PRORIL specializes in submersible pump manufacturing service, and continues investing in the fluid dynamics design, motor efficiency enhancement, and R&D of various metal alloys. The integration of upstream and downstream suppliers has completed the manufacturing chain that PRORIL proudly offers to its customers. PRORIL goes through stringent quality procedures where its quality management system conforms to the global standards.



Today, PRORIL has developed a complete product line that covers dewatering pumps, sewage pumps, slurry pumps, and others. They are applicable in general drainage, construction, industrial sites, wastewater treatment, sludge removal, and so on. Furthermore, PRORIL's professional R&D team continuously improves the product performance to meet various needs in tough dewatering applications.

PRORIL Pumps Europe is the European distributor for the PRORIL range of submersible pumps. Based in the Netherlands, we carry an extensive stock of pumps and parts along with modern workshop and testing facilities. This combined with decades of pump experience enables us to provide you with the best service possible.



CONTENTS

| DEWATERING PUMPS | | 6 | - 13 |
|-----------------------|-----------|----------------|------|
| | TANK | 215 315 | ç |
| | | 222 322 422 | ç |
| | | 237 337 437 | 10 |
| FIGHE FROM FIGHE | | 355 455 | 1(|
| | | 475 675 | 10 |
| | | 3110 4110 6110 | 1 |
| | | 4150 6150 | 11 |
| | | 4220 6220 8220 | 11 |
| | TANK SLIM | 230 330 | 12 |
| | | 380 | 12 |
| | TANK | 6370 8370 | 13 |
| | | 6450 8450 | 13 |
| SLURRY & SAND PUMPS | | 14 | - 19 |
| | STORMY | 337 437 | 17 |
| | | 355 455 | 17 |
| | | 475 | 18 |
| | | 4110 6110 | 18 |
| | | 6150 6150L | 18 |
| HI COLUMN TO A COLUMN | | 6220 8220 | 18 |
| | | | |
| and the se | | | |
| SEWAGE PUMPS | | 20 | - 31 |
| Д., | GOCUT | 208 | 24 |
| | | 215 315 | 24 |
| | | 322 337 437 | 24 |
| | GOMAX | 337 437 | 20 |
| | | 455 655 | 26 |
| | | 475 675 | 2 |
| | | | |

GUIDE RAIL SYSTEM

GOVOX

4110 6110

4150 6150

4220 6220

208 315

455 475

322S 337S

322 337 437

204

HANDY & RESIDUE PUMPS



STAINLESS STEEL PUMPS



ACCESSORIES

27

27

27

28

28

28

29

29

30



TECHNICAL INFORMATION

| | 48 - 51 |
|---------------------------|---------|
| INSTALLATION | 48 |
| FRICTION LOSS CALCULATION | 49 |
| CONVERSION CHARTS | 50 |
| IMPELLER TYPES | 51 |
| | |

| | | 32 - 41 |
|--------------|---------|---------|
| RT | 400 750 | 35 |
| | 1500 | 35 |
| RT BASE | 400 | 35 |
| | | |
| RT LITE | 400 | 36 |
| | 750 | 36 |
| | | |
| RT LITE BASE | 400 | 37 |
| | | |
| Y | 150 | 39 |
| | 300 600 | 40 |
| | | |
| Y JUMBO | 300 600 | 40 |
| | 200 000 | |
| Y BASE | 300 600 | 40 |
| | 000 000 | -0 |
| | | |

| | | 42 - 45 |
|-----|--------------------|----------|
| ART | 400 750 215 315 | 45 45 |
| x | 208 215 | 45 |

| | 46 - 47 |
|---------------|---------|
| ECTOR PLUGS | 46 |
| T SWITCH | 46 |
| E RAIL SYSTEM | 47 |

DEWATER PUMPS

Our dewatering pumps are engineered for professional use in tough dewatering applications in construction, industrial sites, and mines. With a compact, slim design and our patented ACrS technology, these wearresistant portable dewatering pumps provide economical solutions. We are the source you will ever need to make your profits real.

PRORIL

BROHIL:

78 2



PRORIL

PRORIL

PRORIL

TANK SERIES

HIGH CHROME DEWATERING PUMP

Designed for continuous operations, excellent performance and easy maintenance, PRORIL Tank series pumps have proven their reliability and durability in demanding areas like construction, mining, tunneling, quarries, industries and rental applications.

FEATURES

1 Watertight Cable Entry

The cable entry employs an anti-wicking block where each conductor is stripped and encapsulated in epoxy. This feature effectively prevents water from penetrating the motor chamber when the cable end is submerged or the cable sheath is damaged.

2 Multi-Direction Discharge Coupling

Discharge can be converted between vertical and horizontal directions. In pumps 5,5 kW and larger, a vertical discharge connection is supplied as standard.

3 Motor Protector

The motor incorporates a circle thermal protector which protects against overheating and dry-run.

4 Top Discharge and Double Housing Design

Designed to construct a water jacket that provides maximum motor cooling effect for continuous operation at low water level, this feature forms the cylindrical and slim shape of the pump and enables the pump to be installed in confined spaces.

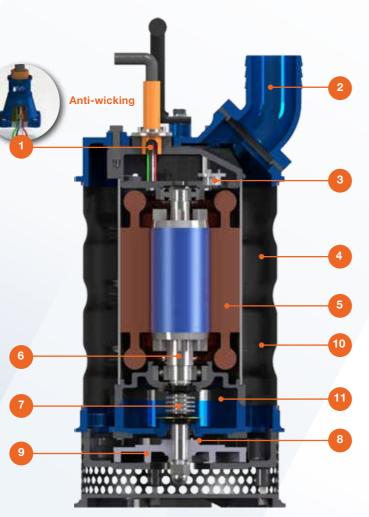
5 Submersible Motor

Air filled motor, housed in a watertight casing, conforms to Class F insulation.

6 C3 Ball Bearings and Hardened SS Shaft

High quality of C3 ball bearings and the well-balanced, hardened stainless steel shaft enhance stability during continuous pumping operations.





7 Double Mechanical Seals

Located in the oil chamber, the device is made of quality materials with highly wear-resistant silicon carbide in lower side that provides extra protection against leakage and dry-run.

8 Extra Protection for Mechanical Seals and Shaft

Lip seals and shaft sleeves are utilized for additional protection against wear.

9 High Chrome Iron Impeller

PRORIL patent formula, ACrS Tech is applied to all high chrome iron impellers. This technology increases wear resistance to particle abrasion.

10 Durable Outer Jacket and Strainer

Corrugated Outer Jacket and strainer made from 304 stainless steel provide impact resistance to harsh handling and conditions. In pumps 5,5 kW and larger, flat 304 stainless steel outer casing is provided as standard.

11 Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.



Advanced Chromium Steel Tech

After years of testing and continuous improvement, PRORIL proudly presents our patented technology, Advanced Chromium Steel Tech, ACrS Tech. Designed for high wear resistance and superb corrosion resistance, ACrS Tech is applied to all our dewatering and slurry pump family to tackle tough challenging applications. The advantages of ACrS Tech can easily and dramatically reduce operational costs.

TANK 215 315



| TANK | 215 | 315 |
|---------------|------------|--------|
| Outlet | 2" (50 mm) | 3" (80 |
| Rated Output | 1.5 kW | 1.5 k |
| Shaft Speed | 2850 rpm | 2850 |
| Solid Passage | 9 mm | 9 mm |
| Height | 537 mm | 526 r |
| Diameter | Ø 258 mm | Ø 27 |
| Weight | 33 kg | 33 kg |
| | | |

Also available in 230 Volt (S)

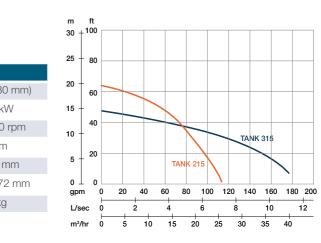
TANK

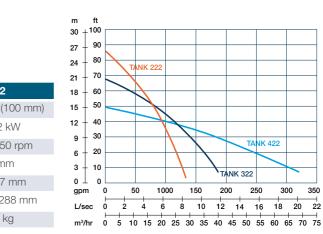
222 322 422



| TANK | 222 | 322 | 422 |
|---------------|------------|------------|------|
| Outlet | 2" (50 mm) | 3" (80 mm) | 4" (|
| Rated Output | 2.2 kW | 2.2 kW | 2.2 |
| Shaft Speed | 2850 rpm | 2850 rpm | 285 |
| Solid Passage | 9 mm | 9 mm | 9 m |
| Height | 567 mm | 557 mm | 607 |
| Diameter | Ø 258 mm | Ø 272 mm | Ø 2 |
| Weight | 35 kg | 35 kg | 43 k |
| | | | |





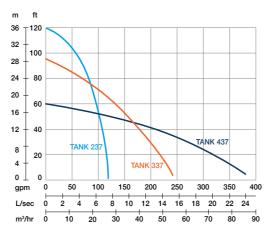


TANK 237 337 437

| | TANK | 3110 | 4110 | 6110 |
|--|------|------|------|------|
|--|------|------|------|------|

| - | PRO | | | I |
|---|-----|---|---|---|
| ŀ | PHA | | - | ł |
| ŀ | - | | | ł |
| | | E | | 1 |

| TANK | 237 | 337 | 437 |
|---------------|------------|------------|-------------|
| Outlet | 2" (50 mm) | 3" (80 mm) | 4" (100 mm) |
| Rated Output | 3.7 kW | 3.7 kW | 3.7 kW |
| Shaft Speed | 2850 rpm | 2850 rpm | 2850 rpm |
| Solid Passage | 10 mm | 10 mm | 10 mm |
| Height | 625 mm | 578 mm | 607 mm |
| Diameter | Ø 283 mm | Ø 273 mm | Ø 288 mm |
| Weight | 61 kg | 42 kg | 42 kg |
| | | | |



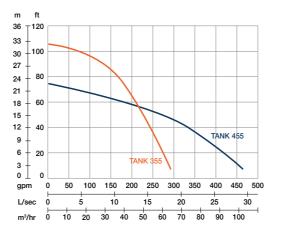
| 2 | <u> </u> | |
|---|----------|---|
| Ι | PRORILS | T |
| I | | L |
| Ш | | |

| TANK | 3110 | 4110 | 61 |
|---------------|------------|-------------|----|
| Outlet | 3" (80 mm) | 4" (100 mm) | 6" |
| Rated Output | 11 kW | 11 kW | 11 |
| Shaft Speed | 2850 rpm | 2850 rpm | 28 |
| Solid Passage | 12 mm | 15 mm | 15 |
| Height | 863 mm | 859 mm | 87 |
| Diameter | Ø 354 mm | Ø 354 mm | Ø |
| Weight | 135 kg | 135 kg | 13 |
| | | | |

TANK

355 455

| TANK | 355 | 455 |
|---------------|------------|-------------|
| Outlet | 3" (80 mm) | 4" (100 mm) |
| Rated Output | 5.5 kW | 5.5 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 10 mm | 10 mm |
| Height | 607 mm | 636 mm |
| Diameter | Ø 306 mm | Ø 320 mm |
| Weight | 60 kg | 60 kg |



| TANK | |
|------|--|
|------|--|

RORI

TANK

4150 6150

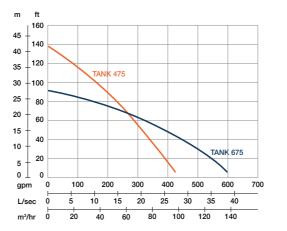
| TANK | 4150 | 6150 |
|---------------|-------------|-----------|
| Outlet | 4" (100 mm) | 6" (150 m |
| Rated Output | 15 kW | 15 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 15 mm | 15 mm |
| Height | 889 mm | 901 mm |
| Diameter | Ø 354 mm | Ø 354 mr |
| Weight | 141 kg | 142 kg |
| | | |

4220 6220 8220

TANK 475 675

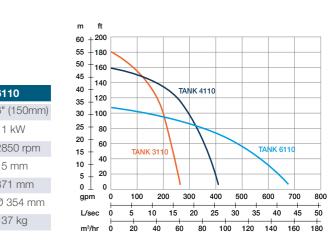
| | 4 | V |
|---|-------|----|
| Î | PRORI | |
| | | |
| | H | H |
| 1 | | Te |
| | | |

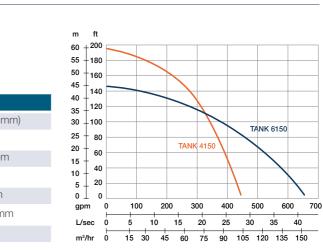
| TANK | 475 | 675 |
|---------------|-------------|-------------|
| Outlet | 4" (100 mm) | 6" (150 mm) |
| Rated Output | 7.5 kW | 7.5 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 15 mm | 15 mm |
| Height | 796 mm | 826 mm |
| Diameter | Ø 317 mm | Ø 317 mm |
| Weight | 93 kg | 97 kg |

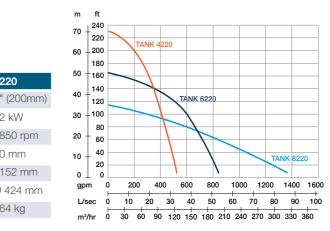




| TANK | 4220 | 6220 | 822 |
|---------------|------------|------------|-----|
| Outlet | 4" (100mm) | 6" (150mm) | 8" |
| Rated Output | 22 kW | 22 kW | 22 |
| Shaft Speed | 2850 rpm | 2850 rpm | 285 |
| Solid Passage | 15 mm | 20 mm | 20 |
| Height | 1083 mm | 1097 mm | 11 |
| Diameter | Ø 424 mm | Ø 424 mm | Ø |
| Weight | 256 kg | 259 kg | 264 |
| | | | |





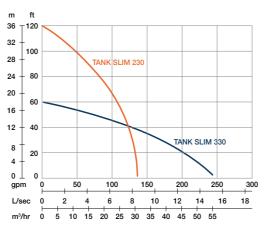


TANK SLIM 230 330

6370 8370



| TANK SLIM | 230 | 330 |
|---------------|------------|------------|
| Outlet | 2" (50 mm) | 3" (80 mm) |
| Rated Output | 3 kW | 3 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 7 mm | 7 mm |
| Height | 659 mm | 629 mm |
| Diameter | Ø 188 mm | Ø 188 mm |
| Weight | 45 kg | 38 kg |
| | | |



| 2 | A | 0 |
|---|---------|---|
| Í | PRORILS | |
| | 16- | |
| | | |

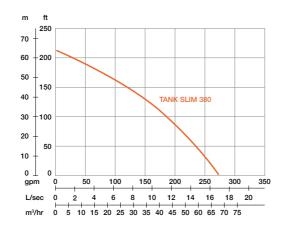
| TANK | 6370 | 8370 |
|---------------|-------------|--------|
| Outlet | 6" (150 mm) | 8" (20 |
| Rated Output | 37 kW | 37 kW |
| Shaft Speed | 2850 rpm | 2850 1 |
| Solid Passage | 10 mm | 20 mn |
| Height | 1294 mm | 1256 (|
| Diameter | Ø 532 mm | Ø 532 |
| Weight | 510 kg | 510 kę |
| | | |

TANK SLIM

| | I | |
|----|------|---|
| PR | ORIL | 1 |
| | I | |
| ė | - | |

| TANK SLIM | 380 |
|---------------|------------|
| Outlet | 3" (80 mm) |
| Rated Output | 8 kW |
| Shaft Speed | 2850 rpm |
| Solid Passage | 8 mm |
| Height | 798 mm |
| Diameter | Ø 283 mm |
| Weight | 92 kg |

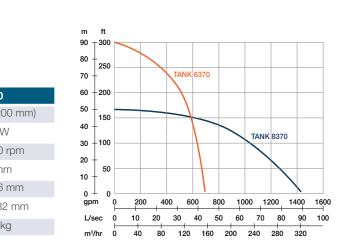
380

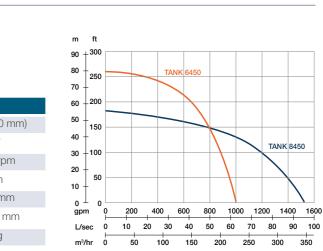




TANK

| TANK | 6450 | 8450 |
|---------------|-------------|---------|
| Outlet | 6" (150 mm) | 8" (200 |
| Rated Output | 45 kW | 45 kW |
| Shaft Speed | 2850 rpm | 2850 rp |
| Solid Passage | 10 mm | 20 mm |
| Height | 1294 mm | 1256 m |
| Diameter | Ø 532 mm | Ø 532 n |
| Weight | 530 kg | 530 kg |
| | | |





SLURRY & SAND PUMPS

Serving a wide range of slurry transport applications, PRORIL's slurry pumps are designed for long wear life, low energy consumption, excellent performance, and easy maintenance. With our patented ACrS Tech and rugged construction, these abrasion and corrosion resistant slurry pumps provide economical solutions for challenging slurry transportation.



STORMY SERIES

OPEN STAND AND AGITATOR, STRAINER AND AGITATOR

Rugged, reliable and cost effective, the Stormy series pumps come complete with patented high chrome impellers, agitators, and wear plates to withstand tough slurry transportation. STORMY pumps are designed with two different types of pump stands, the open stand and the strainer. Our slurry pumps serve a wide range of slurry transport applications like mining, quarrying, construction sites, and other demanding industries.

FEATURES

1 Watertight Cable Entry

The cable entry employs an anti-wicking block where each conductor is stripped and encapsulated in epoxy. This feature effectively prevents water from penetrating the motor chamber when the cable end is submerged or the cable sheath is damaged.

2 Top Discharge and Side Flow Design

Designed to cool the motor with pumped water even at low water level, this feature forms the cylindrical and slim shape of the pump and enables the pump to be installed in confined spaces.

3 Motor Protector

The motor incorporates a circle thermal protector which protects against overheating and dry-run.

4 Submersible 4-Pole Motor

Air filled motor, housed in a watertight casing, conforms to Class F insulation. The 4-pole motor helps reducing impeller wears.

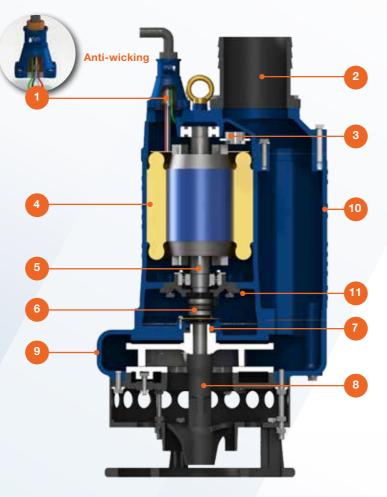
5 C3 Ball Bearings and Hardened SS Shaft

High quality of C3 ball bearings and the well-balanced, hardened stainless steel shaft enhance stability during continuous pumping operations.

6 Double Mechanical Seals

Located in the oil chamber, the device is made of quality materials with highly wear-resistant silicon carbide in lower side that provides extra protection against leakage and dry-run.





7 Extra Protection for Mechanical Seals and Shaft

Lip seals and shaft sleeves are utilized for additional protection against wear.

8 High Chrome Iron Impeller, Agitator, and Wear plate

PRORIL patent formula, ACrS Tech is applied to all high chrome iron components, including impellers, agitators, and wear plates. This technology increases wear resistance to particle abrasion.

9 Hardened Pump Volute

The pump volute is made from hardened cast ductile iron. This technology enhances the hardness and wear life of the pump casing.

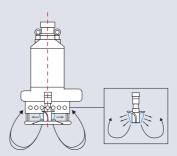
10Rugged Cast Iron Construction

The whole cast iron pump features a simple, robust structure that provides durability and impact resistance to rough conditions.

1Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.

How the agitator works



The rigid agitator delivers kinetic energy (energy of motion) to stir solids surrounding the pump intake, re-suspending them into a fluid state for easy pumping.



STORMY

337 437



| STORMY | 337 | 437 |
|------------------------------|----------------------|------------|
| Outlet | 3" (80 mm) | 4" (|
| Rated Output | 3.7 kW | 3.7 |
| Shaft Speed | 1450 rpm | 145 |
| Solid Passage | 25 mm | 25 |
| Height (P) Height (S) | 762 mm 793 mm | 783 814 |
| Diameter (P) Diameter (S) | Ø 385 mm Ø 382 mm | Ø3 Ø3 |
| Weight (P) Weight (S) | 110 kg 115 kg | 11(115 |

P = open stand (S) = strainer

STORMY

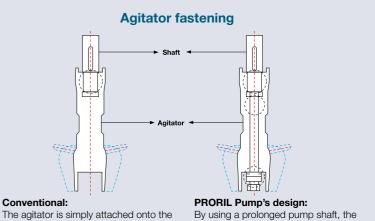
355 455

 (\mathbf{S})

 (\mathbf{P})

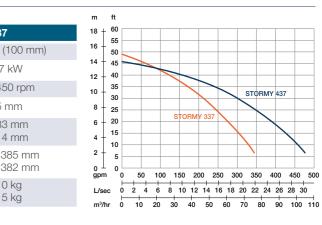
| STORMY | 355 | 45 |
|------------------------------|----------------------|----------|
| Outlet | 3" (80 mm) | 4" |
| Rated Output | 5.5 kW | 5. |
| Shaft Speed | 1450 rpm | 14 |
| Solid Passage | 25 mm | 25 |
| Height (P) Height (S) | 806 mm 806 mm | 82 82 |
| Diameter (P) Diameter (S) | Ø 420 mm Ø 412 mm | Ø |
| Weight (P) Weight (S) | 123 kg 131 kg | 12 13 |
| | | |

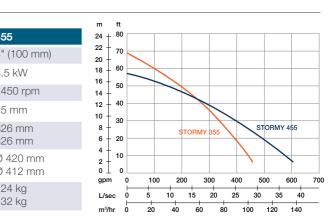
(P) = open stand (S) = strainer



end of the pump shaft. As the agitator is only fastened at a single point, the agitator can loosen itself or come off during use.

By using a prolonged pump shaft, the agitator is fastened at three separate points, ensuring that the agitator cannot loosen itself.





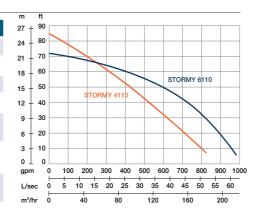
STORMY 475 24 + 80 STORMY 475 22 + 70 -4" (100 mm) Outlet 20 + 18 - 60 Rated Output 7.5 kW 16 + 50 Shaft Speed 1450 rpm 14 -STORMY 475 12 - 40 Solid Passage 25 mm 10 -30 Height (P) 8 -826 mm 6 + 20 Height (S) 826 mm 4 10 Diameter (P) Ø 420 mm 2 0 1 0 Diameter (\$) Ø 412 mm gpm 0 100 200 300 400 500 600 700 Weight 🕑 124 kg L/sec 0 5 10 15 20 25 30 35 40 Weight (\$) 132 kg (\mathbf{P}) S m³/hr 0 20 40 60 80 100 120 140 (P) = open stand (S) = strainer

STORMY 4110 6110



P

STORMY 4110 6110 Outlet 4" (100mm) 6" (150mm) Rated Output 11 kW 11 kW Shaft Speed 1450 rpm 1450 rpm Solid Passage 25 mm 35 mm 914 mm Height P 926 mm Height (\$ 923 mm 935 mm Diameter (P) Ø 479 mm Ø 479 mm Diameter (\$) Ø 479 mm Ø 479 mm Weight P 191 kg 192 kg Weight (\$) 199 kg 200 kg (P) = open stand (S) = strainer

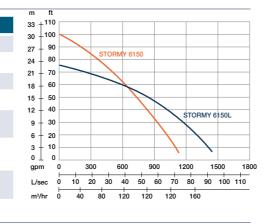


STORMY 6150 6150L

 (\mathbf{S})



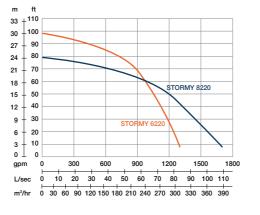
| STORMY | 6150 | 6150L |
|------------------------------|----------------------|----------------------|
| Outlet | 6" (150 mm) | 6" (150mm) |
| Rated Output | 15 kW | 15 kW |
| Shaft Speed | 1450 rpm | 1450 rpm |
| Solid Passage | 35 mm | 35 mm |
| Height (P) Height (S) | 926 mm 935 mm | 926 mm 935 mm |
| Diameter (P) Diameter (S) | Ø 479 mm Ø 479 mm | Ø 479 mm Ø 479 mm |
| Weight (P) Weight (S) | 201 kg 208 kg | 201 kg 208 kg |
| (P) = open stand | (s) = strainer | |



STORMY 6220 8220



| | STORMY | 6220 | 8220 |
|-----|------------------------------|----------------------|----------------------|
| 1 | Outlet | 6" (150mm) | 8" (200mm) |
| Th. | Rated Output | 22 kW | 22 kW |
| 4 | Shaft Speed | 1450 rpm | 1450 rpm |
| | Solid Passage | 30 mm | 40 mm |
| 복 | Height (P) Height (S) | 1204 mm 1210 mm | 1166 mm 1172 mm |
| | Diameter (P) Diameter (S) | Ø 592 mm Ø 592 mm | Ø 592 mm Ø 592 mm |
| | Weight (P) Weight (S) | 345 kg 357 kg | 355 kg 367 kg |
| | (P) = open stand | (\$) = strainer | |





| 8 | |
|---|--|
| _ | |



SUBMERSIBLE SEVAGE PUNPS PRORIL

3

CUTTER PUMPS SINGLE CHANNEL PUMPS VORTEX SEWAGE PUMPS VORTEX & AGITATOR PUMPS

Robust Design, Real Quality

Designed for excellent performance, low energy consumption, and easy maintenance, PRORIL submersible sewage pumps serve a wide range of sewage transport applications. They are ideal for residential, commercial, industrial sewage transferring, wastewater treatment plant, site drainage, etc.



PRORIL

RORIL

SEWAGE PUMPS

COMMON FEATURES

1 Watertight Cable Entry

The cable entry employs an anti-wicking block where each conductor is stripped and encapsulated in epoxy. This feature effectively prevents water from penetrating the motor chamber when the cable end is submerged or the cable sheath is damaged.

2 Motor Protector

The motor incorporates a motor protection device which protects against overheating and dry-run. Pumps with a capacitor-run or direct-on line starting motor are equipped with a circle thermal protector. Pumps with a start-delta starting motor are equipped with miniature thermal protectors in each phase.

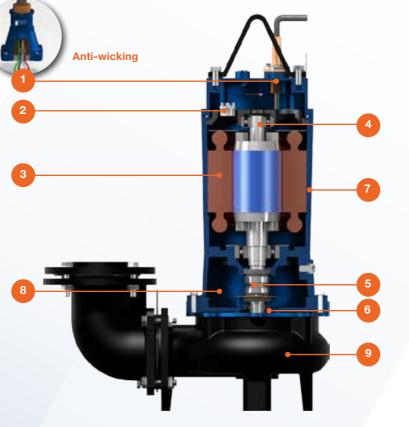
3 Submersible Motor

Air filled motor, housed in a watertight casing, conforms to Class F insulation.

4 C3 Ball Bearings and Hardened SS Shaft

High quality of C3 ball bearings and the well-balanced, hardened stainless steel shaft enhance stability during continuous pumping operations.





5 Double Mechanical Seals

Located in the oil chamber, the device is made of quality materials with highly wear-resistant silicon carbide in lower side that provides extra protection against leakage and dry-run.

6 Extra Protection for Mechanical Seals and Shaft

Lip seals and shaft sleeves are utilized for additional protection against wear.

7 Rugged Cast Iron Design

The whole cast iron pump features a simple, robust structure that provides durability and impact resistance to rough conditions.

8 Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.

9 Impellers and Volutes

Types of impellers and volutes are varied with pump models, cultivated through years of experience in the pump manufacturing industry. They include singe channel impellers, vortex impellers, semiopen impellers, grinders, and agitators.

GOCUT SERIES CUTTER PUMPS

Discharge Bore : 50 - 100 mm Motor: 0.4 ~ 3.7 kW, 2-Pole Motor Impeller Type : Semi-Open Channel Cutter impeller Features : Utilizing a cutter mechanism and tungsten carbide alloy to cut fibrous matters and to prevent clogging.

GOMAX SERIES SINGLE CHANNEL PUMPS

Discharge Bore : 80 - 150 mm Motor: 3.7 ~ 22 kW, 4-Pole Motor Impeller Type : Single Channel impeller Features : Passing 76mm diameter solids without clogging.

GOVOX SERIES VORTEX PUMPS

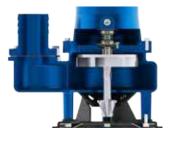
Discharge Bore : 50 - 100 mm Motor: 0.4 ~ 7.5 kW. 2-Pole Motor Impeller Type : Vortex impeller Features : A whirling action enables large solids and fibrous matters to be pumped out without obstruction.

GOVOX-S SERIES VORTEX & AGITATOR PUMPS

Discharge Bore: 80 - 100 mm Motor: 2.2 ~ 3.7 kW, 2-Pole Motor Impeller Type : Vortex impeller Features : Coupled with an agitator, which significantly and efficiently improves solids handling.







GOCUT SERIES CUTTER PUMPS

- GOCUT Series pumps are designed for handling raw sewages and various wastewater treatments.
- The cutting mechanism shreds fibrous materials into small pieces to prevent from clogging that would happen on a common pump.
- The cutting mechanism consists of a chopper plate and a tungsten carbide alloy tipped onto each vane of the semi-open channel impeller.
- Guide rail fittings are available on request.

| GOCUT | 208 | | |
|--------|---------------------|---------------------|--|
| | GOCUT | 208 | $\begin{array}{c} m & \text{ft} \\ 12 + 40 \\ 35 \\ 10 + 35 \end{array}$ |
| | Outlet | 2" (50 mm) | 30 |
| | Rated Output | 0.75 kW | 6 - 20 GOOUT 208 |
| =ORUL# | Shaft Speed | 2850 rpm | 15 |
| | Solid Passage | 26 mm | 4 + 10 |
| A AN A | Height | 434 mm | 2 5 |
| | Diameter | Ø 301 mm | gpm 0 10 20 30 40 50 60 70 80 90 100 110 |
| THE W | Weight | 21.5 kg | L/sec 0 1 2 3 4 5 6 7 |
| | Also available with | ı float switch (A). | m³/ħr 0 4 8 12 16 20 24 |
| GOCUT | 215 315 | | |
| | | | m ft |
| | | | |

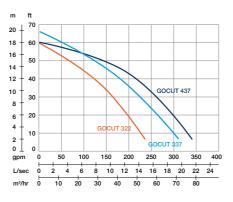
| -ORILS |
|--------|
| Mink |
| |

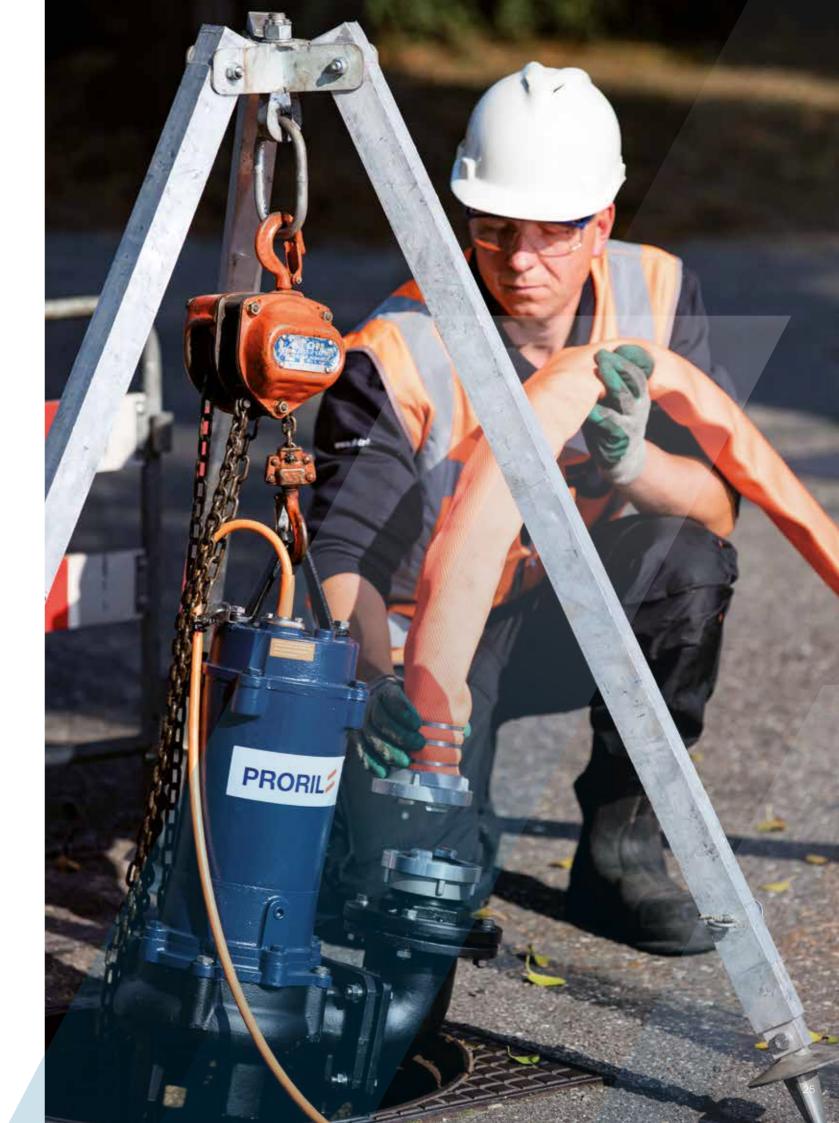
| GOCUT | 215 | 315 |
|---------------------|--------------|------------|
| Outlet | 2" (50 mm) | 3" (80 mm) |
| Rated Output | 1.5 kW | 1.5 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 27 mm | 27 mm |
| Height | 463 mm | 463 mm |
| Diameter | Ø 301 mm | Ø 301 mm |
| Weight | 26.5 kg | 26.5 kg |
| Also available in 2 | 230 Volt (S) | |





| GOCUT | 322 | 337 | 437 |
|---------------|------------|------------|-------------|
| Outlet | 3" (80 mm) | 3" (80 mm) | 4" (100 mm) |
| Rated Output | 2.2 kW | 3.7 kW | 3.7 kW |
| Shaft Speed | 2850 rpm | 2850 rpm | 2850 rpm |
| Solid Passage | 27 mm | 37 mm | 37 mm |
| Height | 642 mm | 642 mm | 642 mm |
| Diameter | Ø 482 mm | Ø 482 mm | Ø 482 mm |
| Weight | 55 kg | 59.5 kg | 59.5 kg |





GOMAX SERIES

SINGLE CHANNEL PUMPS

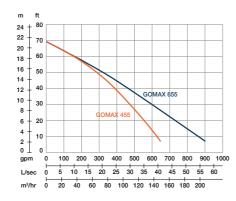
- Designed for passing 76mm diameter solids without clogging, GOMAX series employ a single-channel enclosed impeller to efficiently and reliably transfer raw sewage.
- GOMAX series featured high efficiency, non-clogging, long life, and energy saving.
- The design of air release valve in pump casing prevents air lock.
- GOMAX series are suitable for commercial and industrial wastewater applications.
- Guide rail fittings are available on request.

| GOMAX | 337 437 | | | | GOMAX | 4110 611 | 0 |
|----------------|---------------|------------|-------------|---|----------------|---------------|------------|
| | GOMAX | 337 | 437 | $ \begin{array}{c} m & \text{ft} \\ 24 & + & 80 \\ 22 & + & 70 \\ 20 & + & 80 \end{array} $ | b. | GOMAX | 4110 |
| Ann. | Outlet | 3" (80 mm) | 4" (100 mm) | | | Outlet | 4" (100 mm |
| | Rated Output | 3.7 kW | 3.7 kW | | | Rated Output | t 11 kW |
| | Shaft Speed | 1450 rpm | 1450 rpm | 10 - 30 8 - GOMAX 337 - GOMAX 437 | | Shaft Speed | 1450 rpm |
| | Solid Passage | e 76 mm | 76 mm | | the second | Solid Passage | e 76 mm |
| 1 miles in the | Height | 673 mm | 673 mm | | | Height | 803 mm |
| | Diameter | Ø 580 mm | Ø 589 mm | gpm 0 100 200 300 400 500 600 700 //sec 0 5 10 15 20 25 30 35 40 | and the second | Diameter | Ø 753 mm |
| | Weight | 94 kg | 97 kg | 1320 20 20 20 20 30 30 30 $40m3/hr 0 20 40 60 80 100 120 140$ | - | Weight | 167 kg |

GOMAX 455 655

| T |
|---|

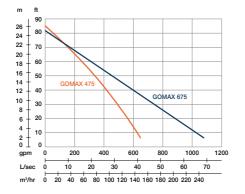
| GOMAX | 455 | 655 |
|---------------|-------------|-------------|
| Outlet | 4" (100 mm) | 6" (150 mm) |
| Rated Output | 5.5 kW | 5.5 kW |
| Shaft Speed | 1450 rpm | 1450 rpm |
| Solid Passage | 76 mm | 76 mm |
| Height | 810 mm | 810 mm |
| Diameter | Ø 693 mm | Ø 752 mm |
| Weight | 132 kg | 138 kg |



GOMAX 475 675

| - | |
|---|-----|
| 2 | 100 |

| GOMAX | 475 | 675 |
|---------------|-------------|-------------|
| Outlet | 4" (100 mm) | 6" (150 mm) |
| Rated Output | 7.5 kW | 7.5 kW |
| Shaft Speed | 1450 rpm | 1450 rpm |
| Solid Passage | 76 mm | 76 mm |
| Height | 810 mm | 810 mm |
| Diameter | Ø 693 mm | Ø 752 mm |
| Weight | 142 kg | 148 kg |





GOMAX

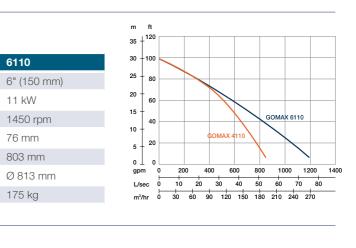
GOMAX

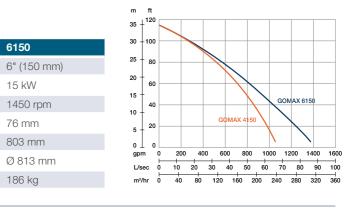
4220 6220

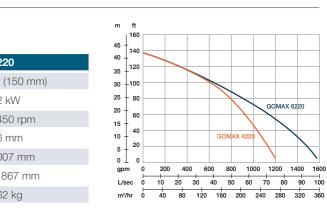
| GOMAX | 4220 | 622 |
|---------------|-------------|------|
| Outlet | 4" (100 mm) | 6" (|
| Rated Output | 22 kW | 22 |
| Shaft Speed | 1450 rpm | 145 |
| Solid Passage | 76 mm | 76 |
| Height | 1007 mm | 100 |
| Diameter | Ø 808 mm | Ø 8 |
| Weight | 256 kg | 262 |
| | | |



| 26 | |
|----|--|







GOVOX SERIES VORTEX SEWAGE PUMPS

- GOVOX series features its vortex impeller coupled with a wide pump casing. The rotation of the impeller produces a whirling, centrifugal action between the impeller and pump casing. The action enables large solids and fibrous matters to be pumped out without obstruction, leading to less impeller wear and longer pump life.
- Guide rail fittings are available on request.

| GOVOX | 204 | | |
|--------|---------------------|-------------------|---|
| - | GOVOX | 204 | $ \begin{array}{c} m & \text{ft} \\ 9 & + & 30 \\ 8 & + & 25 \\ 7 & + & 25 \\ \end{array} $ |
| | Outlet | 2" (50 mm) | 6 20 |
| | Rated Output | 0.4 kW | |
| PROBIL | Shaft Speed | 2850 rpm | 3 + 10 G0VOX 204 |
| | Solid Passage | 32 mm | 2 - 5 |
| | Height | 396 mm | |
| C. How | Diameter | Ø 243 mm | gpm 0 10 20 30 40 50 60 70 80 |
| | Weight | 13.5 kg | m ³ /hr 0 4 8 12 16 |
| | Also available with | float switch (A). | |

GOVOX



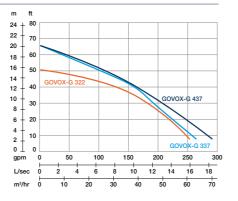


| iovox | 208 | 315 | m ft 14 + 50 |
|------------------------------------|------------|------------|-----------------------------------|
| Dutlet | 2" (50 mm) | 3" (80 mm) | |
| Rated Output | 0.75 kW | 1.5 kW | 35 |
| Shaft Speed | 2850 rpm | 2850 rpm | 30 6 + 25 |
| Solid Passage | 37 mm | 50 mm | 4 - 20 GOVOX 208 |
| Height | 474 mm | 502 mm | 2 - 15 |
| Diameter | Ø 243 mm | Ø 302 mm | 2 - 5 |
| Veight | 19.5 kg | 24 kg | gpm 0 20 40 60 80 100 120 140 160 |
| OVOX 315 also Iso available wit | | () | |

GOVOX-G 322 337 437



| GOVOX-G | 322 | 337 | 437 |
|---------------|------------|------------|-------------|
| Outlet | 3" (80 mm) | 3" (80 mm) | 4" (100 mm) |
| Rated Output | 2.2 kW | 3.7 kW | 3.7 kW |
| Shaft Speed | 2850 rpm | 2850 rpm | 2850 rpm |
| Solid Passage | 47 mm | 52 mm | 52 mm |
| Height | 643 mm | 643 mm | 643 mm |
| Diameter | Ø 464 mm | Ø 464 mm | Ø 464 mm |
| Weight | 59.5 kg | 64 kg | 64 kg |



455 475 **GOVOX-G**



| GOVOX-G | 455 | 475 |
|---------------|-------------|------|
| Outlet | 4" (100 mm) | 4" (|
| Rated Output | 5.5 kW | 7.5 |
| Shaft Speed | 2850 rpm | 285 |
| Solid Passage | 52 mm | 52 1 |
| Height | 695 mm | 717 |
| Diameter | Ø 464 mm | Ø 4 |
| Weight | 72.5 kg | 75 |

GOVOX-U

322 337



| GOVOX-U | 322 | 337 |
|---------------|------------|------------|
| Outlet | 3" (80 mm) | 3" (80 mm) |
| Rated Output | 2.2 kW | 3,7 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 55 mm | 55 mm |
| Height | 655 mm | 712 mm |
| Diameter | Ø 255 mm | Ø 255 mm |
| Weight | 40 kg | 49 kg |
| | | |

GOVOX-U

455 475



| GOVOX-U | 455 | 475 |
|---------------|-------------|------|
| Outlet | 4" (100 mm) | 4" (|
| Rated Output | 5.5 kW | 7.5 |
| Shaft Speed | 2850 rpm | 285 |
| Solid Passage | 55 mm | 55 |
| Height | 720 mm | 754 |
| Diameter | Ø 255 mm | Ø2 |
| Weight | 60 kg | 67 |
| | | |

GOVOX-S SERIES VORTEX & AGITATOR PUMPS

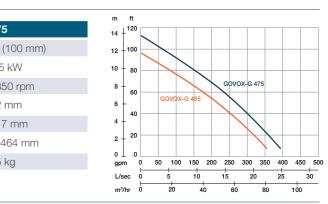
- GOVOX-S series pumps are equipped with an agitator, which forcibly agitates the fluid for easy and efficient transmission of sludge, sand, mud, and debris.
- The agitator prevents air lock that tends to take place on vortex pumps.

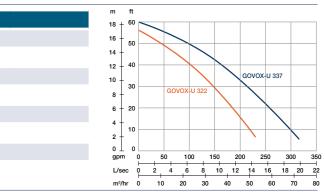
GOVOX-S

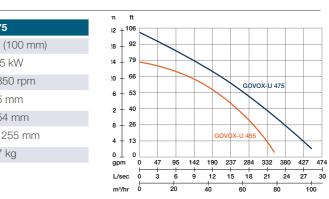


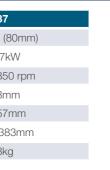


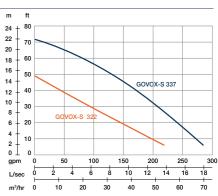
| _ | | |
|---------------|-----------|-----|
| GOVOX-S | 322 | 33 |
| Outlet | 3" (80mm) | 3" |
| Rated Output | 2.2kW | 3.7 |
| Shaft Speed | 2850 rpm | 28 |
| Solid Passage | 13mm | 13 |
| Height | 600mm | 65 |
| Diameter | Ø373mm | Ø3 |
| Weight | 43kg | 53 |
| | | |









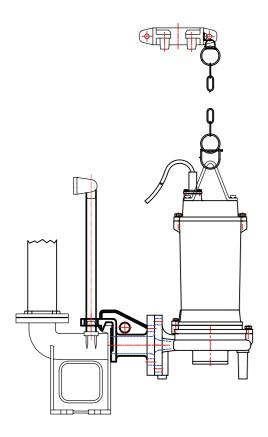


GUIDE RAIL FITTING SYSTEMS

The guide rail fitting system connects the pump to and from the piping simply just by lowering and elevating the pump. The mechanism allows easy maintenance and inspection without the need to enter the sump.

Pump models used in combination with the guide rail fitting system can be identified by the following index and reference.





| Guide rail | system | includes: |
|------------|--------|-----------|
|------------|--------|-----------|

- Stainless steel upper holder.
- 5 meter stainless steel chain.
- Required fixtures.

| Guide Rail Type | Applicable Models |
|-----------------|-----------------------|
| GRL-02 | GOVOX 204/208 |
| | X-VOX 208/215 |
| GRL-02F | GOCUT 208/215 |
| GRL-03F | GOCUT 315 |
| GHL-001 | GOVOX 315 |
| GRF-03 | GOCUT 322/337 |
| GHF-03 | GOVOX-G 322/337 |
| GRF-04 | GOCUT 437 |
| GRF-04 | GOVOX-G 437/455/475 |
| GRN-03 | GOMAX 322/337/437 |
| | GOMAX 455/655/475/675 |
| | GOMAX 475/675 |
| GRN-04 | GOMAX 4110/6110 |
| | GOMAX 4150/6150 |
| | GOMAX 4220/6220 |
| | |



HANDY & RESIDUE PUMPS Stude

Simple Structure, Real Quality Designed for light weight, excellent performance, low energy consumption, and easy maintenance, PRORIL's submersible handy and residue pumps serve a wide range of pumping applications on utility, construction, industrial, and municipal job sites.



PRORIL

PRORIL

SMART SERIES

HANDY & RESIDUE PUMPS

Compact, lightweight and easy to use, the SMART series pumps deliver high performance for their size. These small but effective dewatering pumps are easily maintained and perfect for a variety of applications, such as small construction sites, rental industries, and municipal jobs.

FEATURES

Watertight Cable Entry

The cable entry employs an anti-wicking block where each conductor is stripped and encapsulated in epoxy. This feature effectively prevents water from penetrating the motor chamber when the cable end is submerged or the cable sheath is damaged.

2 Top Discharge and Double Housing Design

Designed to construct a water jacket that provides maximum motor cooling effect for continuous operation at low water level, this feature forms the cylindrical and slim shape of the pump and enables the pump to be installed in confined spaces.

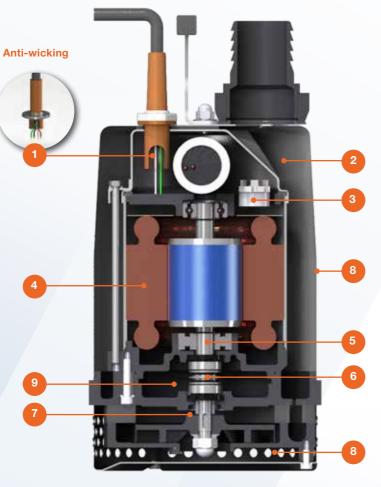
3 Motor Protector

The motor incorporates a circle thermal protector which protects against overheating and dry-run.

4 Submersible Motor

Air filled motor, housed in a watertight casing, conforms to Class F insulation.





5 C3 Ball Bearings and Hardened SS Shaft

High quality of C3 ball bearings and the well-balanced, hardened stainless steel shaft enhance stability during continuous pumping operations.

6 Double Mechanical Seals

Located in the oil chamber, the device is made of quality materials with highly wear-resistant silicon carbide in lower side that provides extra protection against leakage and dry-run.

7 Extra Protection for Mechanical Seals and Shaft

Lip seals and shaft sleeves are utilized for additional protection against wear.

8 Durable Outer Jacket and Strainer

The outer housing and strainer made of 304 stainless steel provide impact resistant to harsh handling and conditions.

9 Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.



| SMART | 400 | 750 |
|---------------|------------|-------|
| Outlet | 2" (50 mm) | 2" (5 |
| Rated Output | 0.4 kW | 0.75 |
| Shaft Speed | 2850 rpm | 2850 |
| Solid Passage | 5.5 mm | 7 m |
| Height | 329 mm | 356 |
| Diameter | Ø 184 mm | Ø 18 |
| Weight | 12.5 kg | 14 k |

Also available with float switch (A).

SMART

Г 1500



SMART1500Outlet2" (50 mm)Rated Output1.5 kWShaft Speed2850 rpmSolid Passage9 mmHeight432 mmDiameterØ 225 mmWeight23.5 kg

Also available in 230 Volt (S).

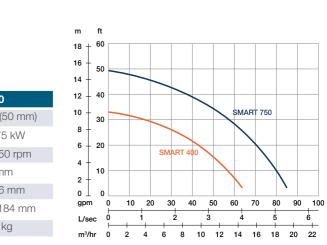
SMART BASE

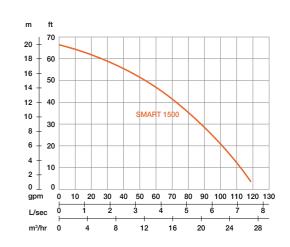
400

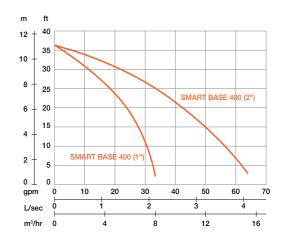


| SMART BASE | 400 | |
|---------------|------------|------------|
| Outlet | 1" (25 mm) | 2" (50 mm) |
| Rated Output | 0.4 kW | |
| Shaft Speed | 2850 rpm | |
| Solid Passage | 2 mm | |
| Height | 337 mm | |
| Diameter | Ø 206 mm | |
| Weight | 14 kg | |
| | | |

SMART 40







SMART LITE

Small, lightweight and cost-effective, the SMART LITE pumps perform an excellent job for their size. These small but effective dewatering pumps are easily maintained and perfect for a variety of applications, such as small construction sites, rental industries, and municipal jobs.

FEATURES

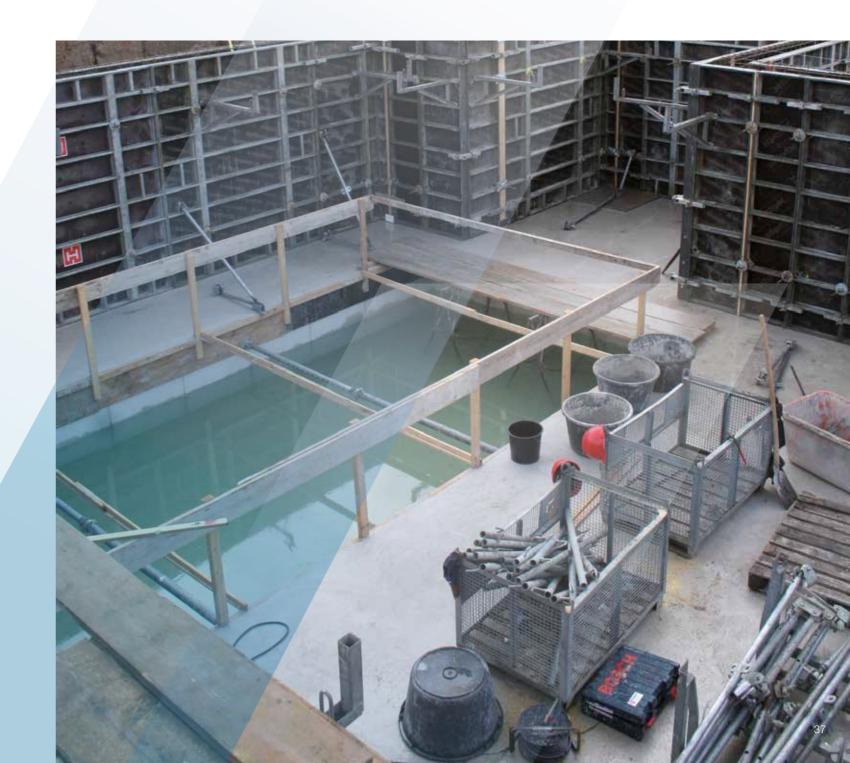
- Watertight cable entry prevents water incursion from the capillary wicking.
- Multi-Direction Discharge can be changed between vertical and horizontal ways.
- Slim line design allows access into limited space.
- **Double housing** forms a water jacket to greatly cool the motor.
- A thermal protector is used on the motor to protect against overheating and dry-run.
- Air filled motor, housed in a watertight casing, conforms to Class F insulation.
- C3 Ball Bearings and Hardened SS Shaft enhance stability during operation.
- Mechanical Sic Seal in lower side provides extra protection against leakage and dry-run.
- A Lip Seal works as an extra protection for mechanical seal from wear.
- **PU Impeller** is adopted for easy maintenance.
- Food Grade Lubricant helps minimizing environmental impacts.

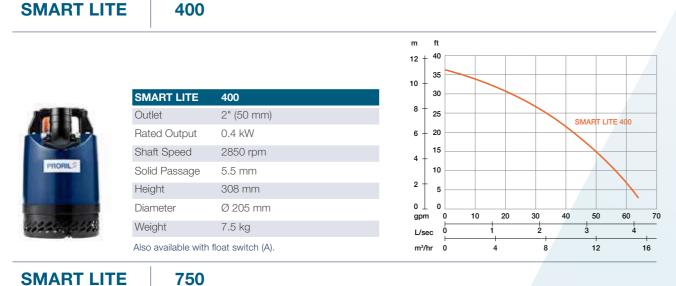
.



SMART LITE BASE

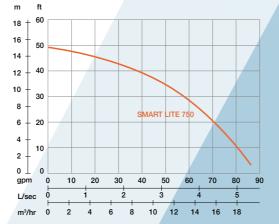
| SMART LITE BASE | 400 | |
|-----------------|------------|--------|
| Outlet | 1" (25 mm) | 2" (50 |
| Rated Output | 0.4 kW | |
| Shaft Speed | 2850 rpm | |
| Solid Passage | 2 mm | |
| Height | 304 mm | |
| Diameter | Ø 206 mm | |
| Weight | 10,5 kg | |
| | | |

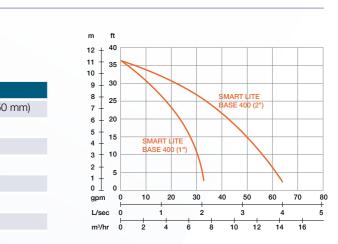






| SMART LITE | 750 |
|---------------------|-------------------|
| Outlet | 2" (50 mm) |
| Rated Output | 0.75 kW |
| Shaft Speed | 2850 rpm |
| Solid Passage | 7 mm |
| Height | 348 mm |
| Diameter | Ø 205 mm |
| Weight | 12.5 kg |
| Also available with | float switch (A). |





SAVVY SERIES

HANDY & RESIDUE PUMPS

The SAVVY series pumps are suitable for a variety of domestic applications, including draining basements and garages, emptying swimming pool and fountains, gardening, and hobby applications in general.

FEATURES

1 Watertight Cable Entry

Watertight cable entry prevents water incursion from the capillary wicking.

2 Durable Outer Housing

The outer housing made of 304 stainless steel provides impact resistant to harsh handling and conditions.

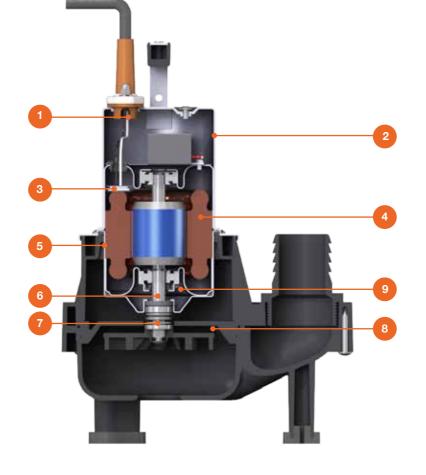
3 Motor Protector

The motor incorporates a miniature thermal protector which protects against overheating and dry-run.

4 Submersible Motor

Air filled motor, housed in a watertight casing, conforms to Class F insulation.





5 Stainless Steel 304 Motor Housing

The material provides superior corrosion resistance.

6 C3 Ball Bearings and Hardened SS Shaft

High quality of C3 ball bearings and the well-balanced, hardened stainless steel shaft enhance stability during continuous pumping operations.

7 Mechanical Seal

The premium mechanical seal provides extra protection against leakage and longer life span.

8 Impact-resistant Nylon pump casing and

suction grid Lightweight design and corrosion-resistance.

9 Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.

SAVVY 150

FEATURES

- Compact, lightweight, and easy-to-use design
- SAVVY 150 : Aluminum alloy outer case with lightweight top cover, impeller, and suction grids.
- Air filled motor with Class F insulation.
- Thermal protection on motor.
- Built-in high torque capacitor.
- Triple seals design.
- Removable filter screen for easy maintenance.

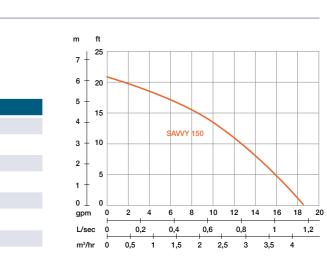
| | SAVVY | 150 | |
|--|-------|-----|--|
|--|-------|-----|--|



| SAVVY | 150 |
|---------------|------------|
| Outlet | 1" (25 mm) |
| Rated Output | 0.15 kW |
| Shaft Speed | 2850 rpm |
| Solid Passage | 6 mm |
| Height | 273 mm |
| Diameter | Ø 132 mm |
| Weight | 3.2 kg |

Also available with float switch (A).

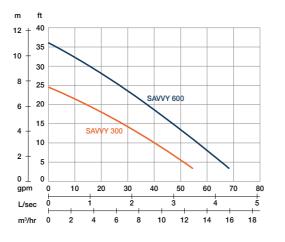




SAVVY 300 600



| SAVVY | 300 | 600 |
|---------------|------------|------------|
| Outlet | 2" (50 mm) | 2" (50 mm) |
| Rated Output | 0.25 kW | 0.55 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 6 mm | 6 mm |
| Height | 307 mm | 341 mm |
| Diameter | Ø 244 mm | Ø 244 mm |
| Weight | 4 kg | 6 kg |
| | | - |



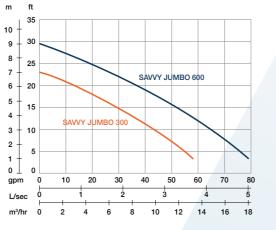
Also available with float switch (A).

SAVVY JUMBO

300 600

| KOIL |
|------|
| P |

| SAVVY JUMBO | 300 | 600 |
|---------------|------------|------------|
| Outlet | 2" (50 mm) | 2" (50 mm) |
| Rated Output | 0.25 kW | 0.55 kW |
| Shaft Speed | 2850 rpm | 2850 rpm |
| Solid Passage | 35 mm | 35 mm |
| Height | 338 mm | 372 mm |
| Diameter | Ø 245 mm | Ø 245 mm |
| Weight | 4.2 kg | 6 kg |



Also available with float switch (A).

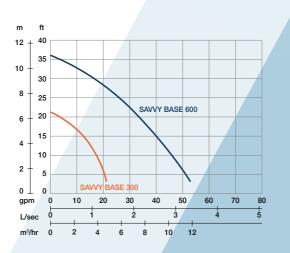
SAVVY BASE 3

300 600

| Ē |
|---|
| |

| | SAVVY BASE | 300 | 600 |
|---|---------------|------------|------------|
| | Outlet | 1" (25 mm) | 2" (50 mm) |
| | Rated Output | 0.25 kW | 0.55 kW |
| | Shaft Speed | 2850 rpm | 2850 rpm |
| | Solid Passage | 2 mm | 5 mm |
| | Height | 305 mm | 357 mm |
| ł | Diameter | Ø 244 mm | Ø 244 mm |
| | Weight | 4 kg | 6 kg |
| | | | |

Also available with float switch (A).





STAINLESSISTEEL PUMPS

PRORIL stainless steel pumps consist of four dewatering pumps and two sewage pumps. All components in contact with the liquid are made of 304 stainless steel.



STAINLESS STEEL PUMPS

DEWATERING & SEWAGE VORTEX

PRORIL stainless steel pumps consist of four dewatering pumps and two sewage pumps. All components in contact with the liquid are made of 304 stainless steel.

These pumps are designed for handling clean water or screened wastewater, also applicable to the aquaculture industry with the use of the food-grade lubricant.

FEATURES

1 Watertight Cable Entry

The cable entry employs an anti-wicking block where each conductor is stripped and encapsulated in epoxy. This feature effectively prevents water from penetrating the motor chamber when the cable end is submerged or the cable sheath is damaged.

2 Top Discharge and Double Housing Design

Designed to construct a water jacket that provides maximum motor cooling effect for continuous operation at low water level, this feature forms the cylindrical and slim shape of the pump and enables the pump to be installed in confined spaces.

3 Motor Protector

The motor incorporates a circle thermal protector which protects against overheating and dry-run.

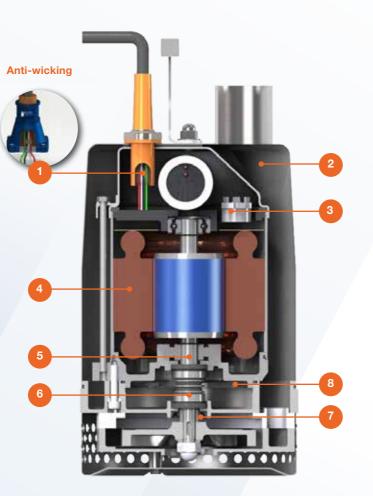
4 Submersible Motor

Air filled motor, housed in a watertight casing, conforms to Class F insulation.

5 C3 Ball Bearings and Hardened SS Shaft

High quality of C3 ball bearings and the well-balanced, hardened stainless steel shaft enhance stability during continuous pumping operations.





6 Double Mechanical Seals

Located in the oil chamber, the device is made of quality materials with highly wear-resistant silicon carbide in lower side that provides extra protection against leakage and dry-run.

7 Extra Protection for Mechanical Seals and Shaft

Lip seals and shaft sleeves are utilized for additional protection against wear.

8 Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.





| X-SMART | 400 | 750 |
|---------------|------------|------|
| Outlet | 2" (50 mm) | 2" (|
| Rated Output | 0.4 kW | 0.7 |
| Shaft Speed | 2850 rpm | 285 |
| Solid Passage | 5.5 mm | 7 n |
| Height | 329 mm | 356 |
| Diameter | Ø 180 mm | Ø 1 |
| Weight | 13 kg | 14 |
| | | |

Also available with float switch (A).

X-SMART

215 315



X-SMART 215 315 Outlet 2" (50 mm) 3" (80 mm) Rated Output 1.5 kW 1.5 kW Shaft Speed 2850 rpm 2850 rpm Solid Passage 7 mm 7 mm Height 449 mm 449 mm Diameter Ø 187 mm Ø 187 mm Weight 19 kg 19 kg

Also available in 230 Volt (S).

X-VOX

208 215

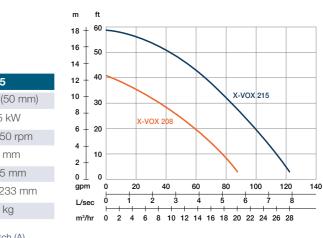


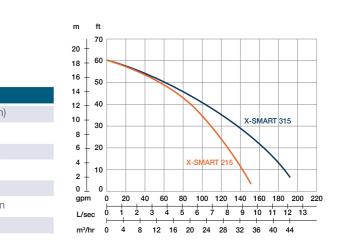
| X-VOX | 208 | 215 |
|---------------|------------|------|
| Outlet | 2" (50 mm) | 2" (|
| Rated Output | 0.75 kW | 1.5 |
| Shaft Speed | 2850 rpm | 285 |
| Solid Passage | 40 mm | 37 r |
| Height | 415 mm | 445 |
| Diameter | Ø 233 mm | Ø 2 |
| Weight | 12 kg | 15 I |
| | | |

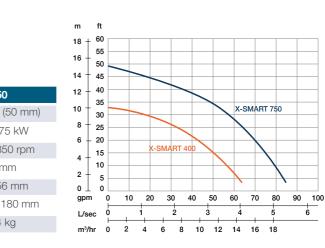
X-Vox 208 also available with float switch (A). X-Vox 215 also available in 230 Volt (S).

X-SMART









ACCESSORIES

PROTECTOR PLUGS

THERMAL AND CURRENT OVERLOAD MOTOR PROTECTOR PLUGS

Standard with phase inverter and sequence indicator.

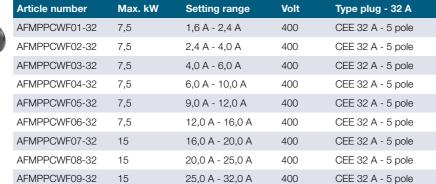


| | Article number | MPP code 28 | Setting range | Volt | Type plug - 32 A |
|--|----------------|-------------|-----------------|------|-------------------|
| | AFMPP03-32 | 28 | 2,5 A - 4,0 A | 400 | CEE 32 A - 5 pole |
| | AFMPP05-32 | 29 | 4,0 A - 6,3 A | 400 | CEE 32 A - 5 pole |
| | AFMPP07-32 | 30 | 6,3 A - 10,0 A | 400 | CEE 32 A - 5 pole |
| | AFMPP09-32 | 31 | 10,0 A - 16,0 A | 400 | CEE 32 A - 5 pole |
| | AFMPP11-32 | 32 | 16,0 A - 20,0 A | 400 | CEE 32 A - 5 pole |
| | AFMPP13-32 | 33 | 20,0 A - 25,0 A | 400 | CEE 32 A - 5 pole |
| | AFMPP15-32 | 34 | 25,0 A - 32,0 A | 400 | CEE 32 A - 5 pole |

FLOAT SWITCH SOLUTION FOR 400 VOLT PUMPS TOGETHER WITH THERMAL AND CURRENT OVERLOAD PROTECTION

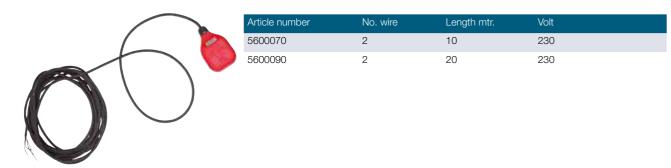
To be used in combination with the floatswitches. Auto - 0 - Manual.





FLOAT SWITCH

FLOAT SWITCH TO BE USED IN COMBINATION WITH MPPCWF PLUGS

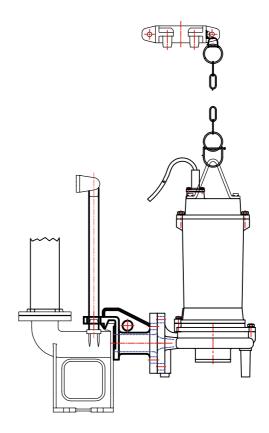


GUIDE RAIL FITTING SYSTEMS

The guide rail fitting system connects the pump to and from the piping simply just by lowering and elevating the pump. The mechanism allows easy maintenance and inspection without the need to enter the sump.

Pump models used in combination with the guide rail fitting system can be identified by the following index and reference.





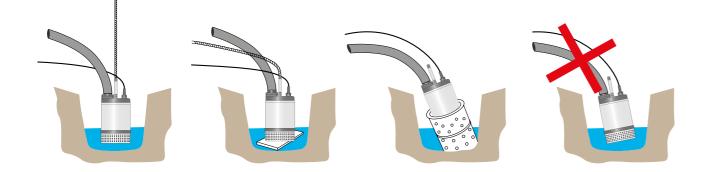
Guide rail system includes:

- Stainless steel upper holder.
- 5 meter stainless steel chain.
- Required fixtures.

| Guide Rail Type | Applicable Models | |
|-----------------|-----------------------|--|
| GRL-02 | GOVOX 204/208 | |
| | X-VOX 208/215 | |
| GRL-02F | GOCUT 208/215 | |
| GRL-03F | GOCUT 315 | |
| | GOVOX 315 | |
| GRF-03 | GOCUT 322/337 | |
| GHF-03 | GOVOX-G 322/337 | |
| GRF-04 | GOCUT 437 | |
| GUL-04 | GOVOX-G 437/455/475 | |
| GRN-03 | GOMAX 322/337/437 | |
| | GOMAX 455/655/475/675 | |
| | GOMAX 475/675 | |
| GRN-04 | GOMAX 4110/6110 | |
| | GOMAX 4150/6150 | |
| | GOMAX 4220/6220 | |

TECHNICAL INFORMATION

INSTALLATION

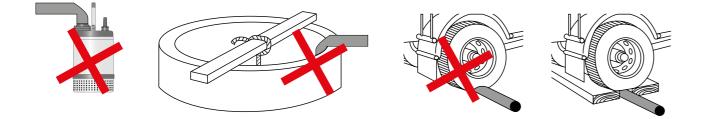


CORRECT INSTALLATION OF THE PUMPS

Although installing PRORIL submersible pumps is fairly straightforward, there are a few basic things that need to be taken into consideration to ensure optimal performance and to prevent excessive wear and/or damages.

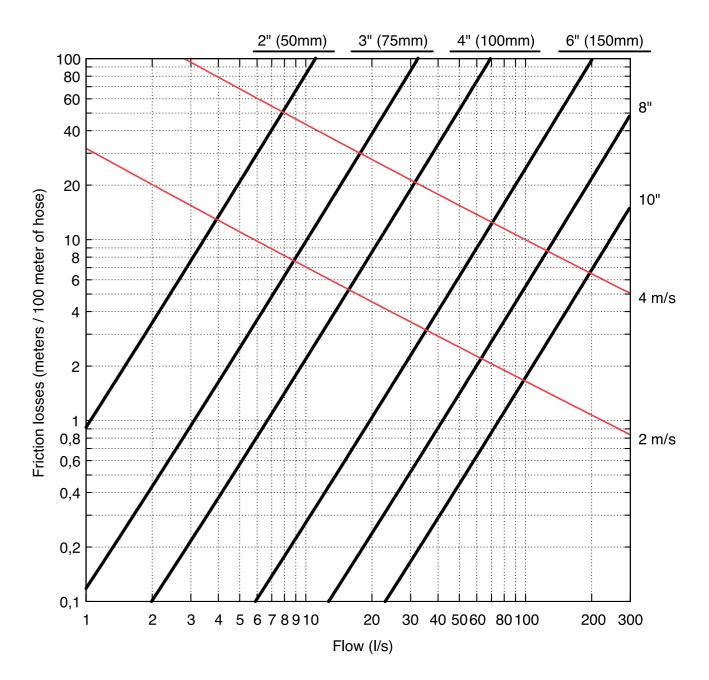
Firstly, it is paramount that the pump is prevented from digging itself into the soil, which is particularly common on sites with sandy- or clay type soils. This can be achieved by suspending the pump above the bottom of the casing using a rope/chain in case of deepwell applications, or by placing the pump on a base of some sort (e.g. wooden plank or coarse gravel) in case of open sump pumping.

Secondly you should prevent tight bends and kinks in the discharge hose at all times. When bent strongly, the maximum flow capacity of the hose is reduced and it will create additional friction losses and will reduce the overall flow performance of the pump.



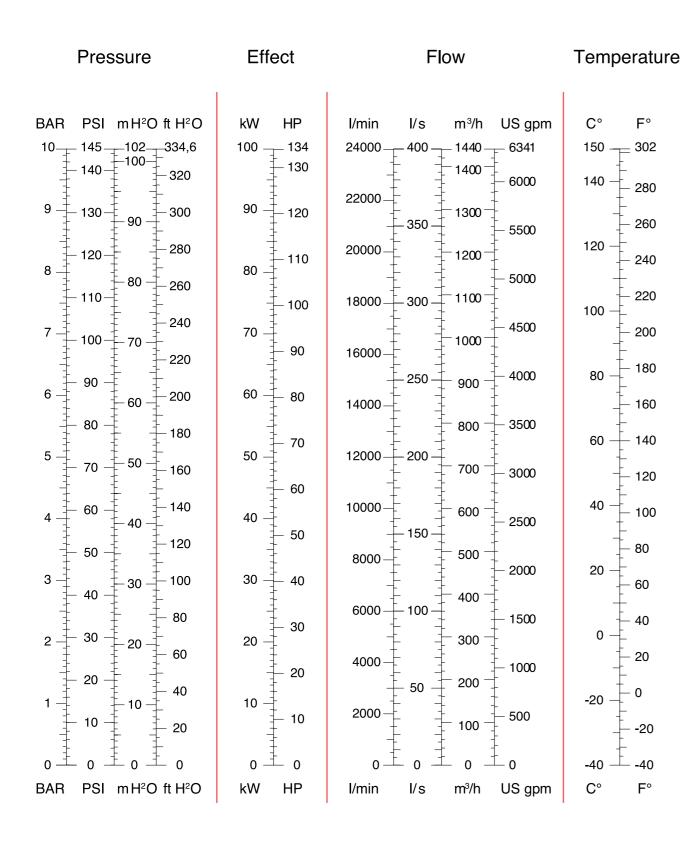
TECHNICAL INFORMATION

CHART FOR CALCULATING FRICTION LOSSES IN HOSES



TECHNICAL INFORMATION

CONVERSION CHARTS



TECHNICAL INFORMATION

TYPE OF IMPELLER



SEMI-OPEN IMPELLER

An impeller that has no bottom shroud. Liquid which passes through the impeller is deflected, forming a plain perpendicular to the spindle. Most of submersible contractors' pumps employ this type of impeller.



VORTEX IMPELLER

impeller.





CLOSED IMPELLER

pumping.

AGITATOR

pumping.

SEMI-OPEN CHANNEL IMPELLER

This type of impeller is designed with single or twin circular shaped vanes. This construction is effective in the prevention of blockage by solid matters.

An indented impeller produces a whirling, centrifugal action which allows long and fibrous material, solid materials, etc. to be pumped without contacting the

The impeller has a number of slots on its periphery, and the rotation gives energy to the liquid. Low volume and high head, and widely used in shallow pumps.

The impeller vanes are enclosed in a unified contruction. Suited for high-head

The rigid agitator delivers kinetic energy (energy of motion) to stir solids surrounding the pump intake, re-suspending them into a fluid state for easy

PRORIL Pumps Europe BV

Edisonstraat 12a 7006 RD Doetinchem The Netherlands

P.O. Box 384 7000 AJ Doetinchem The Netherlands

+31 (0) 314 625 125

info@prorilpumpseurope.com www.prorilpumpseurope.com

PRORIL PUMPS COORPORATION

60 Lana 251, Zhongzheng Rd. Dashe Dist. Kaohsiung 815 Taiwan (R.O.C.)

