

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 based in the Netherlands and carries an extensive stock of pumps and parts which is complemented by a modern workshop and testing facilities. Decades of pump experience ensures that you will receive the best service possible.





CONTENTS

DEWATERING PUMPS		6	- 15
	TANK	215 315 222 322 422 237 337 437 355 455 475 675 3110 4110 6110 4150 6150 4220 6220 8220	10 10 11 11 11 12 12 12
	TANK	6370 8370 6450 8450	13 13
	TANK SLIM	230 330 380	15 15
SLURRY & SAND PUMPS		16	- 23
	STORMY	337 437 355 455 475 4110 6110 6150 6150L 6220 8220	20 20 22 22 22 22
SEWAGE PUMPS		24	- 35
SEWAGE PUMPS	GOCUT	208 215 315 322 337 437	28 28 28
	GOCUT GOMAX	208 215 315	28 28
<section-header><section-header></section-header></section-header>		208 215 315 322 337 437 337 437 455 655 475 675 4110 6110 4150 6150	28 28 28 30 30 30 31 31 31 31
<section-header></section-header>	GOMAX	208 215 315 322 337 437 337 437 455 655 475 675 4110 6110 4150 6150 4220 6220 204	28 28 28 30 30 30 31 31 31 31 31 32 32 32
<section-header></section-header>	GOMAX GOVOX	208 215 315 322 337 437 337 437 455 655 475 675 4110 6110 4150 6150 4220 6220 204 208 315 322 337 437	28 28 28 30 30 30 31 31

HANDY & RESIDUE PUMPS



STAINLESS STEEL PUMPS X-SMA X-VOX

ACCESSORIES



TECHNICAL INFORMATION

INSTAI FRICT

	36 - 45
400 750 1500	39 39
400	39
400 750	40 40
400	40
150 300 600	43 44
300 600	44
300 600	44
	1500 400 750 400 150 300 600 300 600

		46 - 49
ART	400 750 215 315	49 49
x	208 215	49

	50 - 52
ECTOR PLUGS	50
T SWITCH	50
ION RING	51
T SWITCH HOLDER	51
HARGE HOSE CONNECTIONS	51
E RAIL SYSTEM	52

	53 - 55
ALLATION FION LOSS CALCULATION LLER TYPES	53 54 55

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.

PRORIL

PROFIL:



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 BSP Discharge Coupling

Discharge can be converted between vertical and horizontal directions. In pumps 7,5 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.

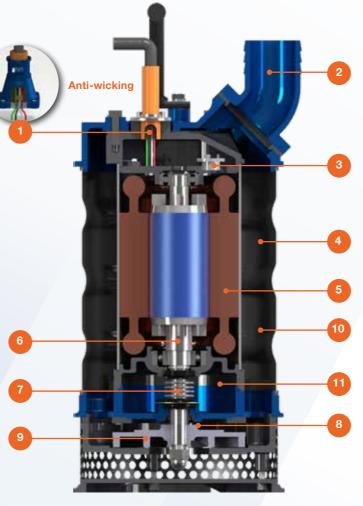
5 Submersible Motor

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 EagleBurgmann_® 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 Steel Impeller

PRORIL patent formula, ACrS Tech is applied to all high chrome steel 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 7,5 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.



Designed for high wear resistance and superb corrosion resistance, ACrS Tech is applied to all our TANK series impellers to tackle tough challenging applications. The use of ACrS Tech chromium steel material significantly reduces operational costs.









Advanced Chromium Steel Tech Material



Heavy Duty PUR Cable

As rugged as our pumps. Provides an ultra-solid solution to the weak spot of every submersible pump. Increases safety on the construction site with maximum visibility.

Adjustable BSP Discharge Coupling

The discharge coupling can be adjusted to vertical or horizontal directions. In 7,5 kW and larger pumps, a vertical discharge connection is standard.

Watertight Cable Entry

The cable entry features an anti-wicking block where each conductor is stripped and encased in epoxy. In doing so, water is effectively prevented from entering the motor chamber when the cable end is submerged or should the cable sheath become damaged.



TANK 237 337 437



TANK	237	337	437
Outlet	2" (BSP)	3" (BSP)	4" (
Rated Output	3.7 kW	3.7 kW	3.7
Shaft Speed	2850 rpm	2850 rpm	285
Solid Passage	10 mm	10 mm	10
Height	625 mm	630 mm	630
Diameter	Ø 291 mm	Ø 269 mm	Ø2
Weight	61 kg	42 kg	42

TANK

355 455

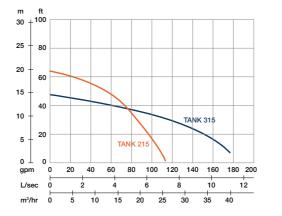
475 675

TANK	
------	--

PRORIL

TANK	215	315
Outlet	2" (BSP)	3" (BSP)
Rated Output	1.5 kW	1.5 kW
Shaft Speed	2850 rpm	2850 rpm
Solid Passage	9 mm	9 mm
Height	568 mm	568 mm
Diameter	Ø 253 mm	Ø 267 mm
Weight	33 kg	33 kg

Also available in 230 Volt (S)





TANK	355	455
Outlet	3" (BSP)	4" (BSP)
Rated Output	5.5 kW	5.5 kW
Shaft Speed	2850 rpm	2850 rpn
Solid Passage	10 mm	10 mm
Height	656 mm	656 mm
Diameter	Ø 306 mm	Ø 320 m
Weight	60 kg	60 kg

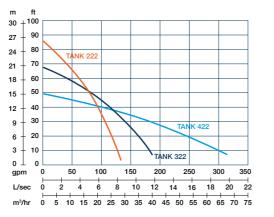
TANK 2

222 322 422

215 315

-	K	L	.)	
Ī				1
ļ	P	ROF	RILS	
Į		-	_	
			-	

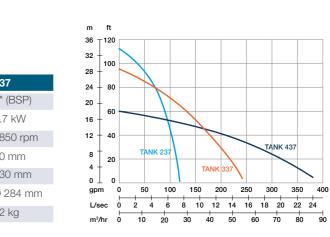
TANK	222	322	422
Outlet	2" (BSP)	3" (BSP)	4" (BSP)
Rated Output	2.2 kW	2.2 kW	2.2 kW
Shaft Speed	2850 rpm	2850 rpm	2850 rpm
Solid Passage	9 mm	9 mm	9 mm
Height	598 mm	598 mm	630 mm
Diameter	Ø 253 mm	Ø 267 mm	Ø 284 mm
Weight	35 kg	35 kg	43 kg

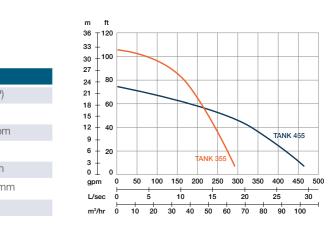


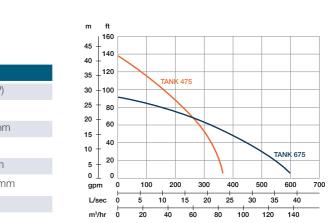


TANK

TANK	475	675
Outlet	4" (BSP)	6" (BSP)
Rated Output	7.5 kW	7.5 kW
Shaft Speed	2850 rpm	2850 rpm
Solid Passage	15 mm	15 mm
Height	801 mm	826 mm
Diameter	Ø 317 mm	Ø 317 m
Weight	93 kg	97 kg







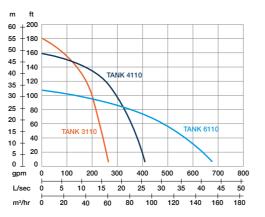
TANK 3110 4110 6110

ГЛ	NI	ĸ	

6370 8370

	alle
Ī	PRORILS
and the second se	

TANK	3110	4110	6110
Outlet	3" (BSP)	4" (BSP)	6" (BSP)
Rated Output	11 kW	11 kW	11 kW
Shaft Speed	2850 rpm	2850 rpm	2850 rpm
Solid Passage	12 mm	15 mm	15 mm
Height	863 mm	858 mm	870 mm
Diameter	Ø 354 mm	Ø 354 mm	Ø 354 mm
Weight	135 kg	135 kg	137 kg





TANK	6370	8370
Outlet	6" (BSP)	8" (BSF
Rated Output	37 kW	37 kW
Starting method	Star Delta	Star De
Shaft Speed	2850 rpm	2850 rp
Solid Passage	10 mm	20 mm
Height	1294 mm	1256 m
Diameter	Ø 532 mm	Ø 532 i
Weight	510 kg	510 kg

TANK

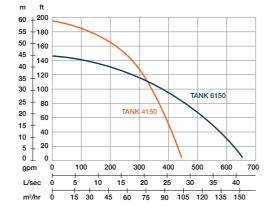
6450 8450

TANK

4150 6150

-			1	0
Í	PI	ROR	IL=	1
and the second s				

TANK	4150	6150
Outlet	4" (BSP)	6" (BSP)
Rated Output	15 kW	15 kW
Shaft Speed	2850 rpm	2850 rpm
Solid Passage	15 mm	15 mm
Height	887 mm	899 mm
Diameter	Ø 354 mm	Ø 354 mm
Weight	141 kg	142 kg



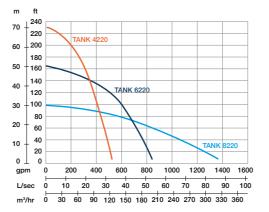


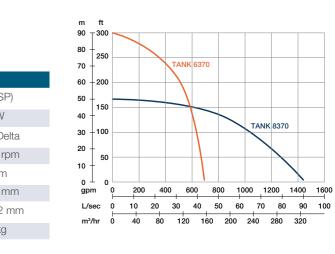
TANK	6450	8450
Outlet	6" (BSP)	8" (BSF
Rated Output	45 kW	45 kW
Starting method	Star Delta	Star De
Shaft Speed	2850 rpm	2850 rp
Solid Passage	10 mm	20 mm
Height	1294 mm	1256 m
Diameter	Ø 532 mm	Ø 532 i
Weight	530 kg	530 kg

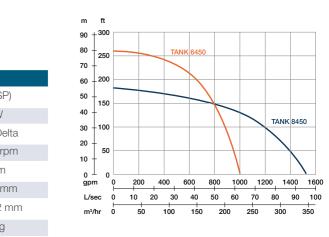
TANK 4220 6220 8220

Ĩ				
	PR	OR	L	
		_	-	

TANK	4220	6220	8220
Outlet	4" (BSP)	6" (BSP)	8" (BSP)
Rated Output	22 kW	22 kW	22 kW
Shaft Speed	2850 rpm	2850 rpm	2850 rpm
Solid Passage	15 mm	20 mm	20 mm
Height	1085 mm	1099 mm	1154 mm
Diameter	Ø 424 mm	Ø 424 mm	Ø 424 mm
Weight	256 kg	259 kg	264 kg









TANK SLIM

230 330

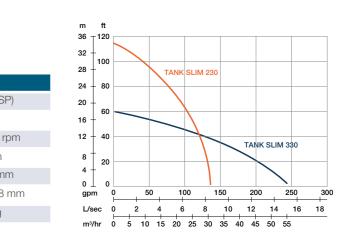


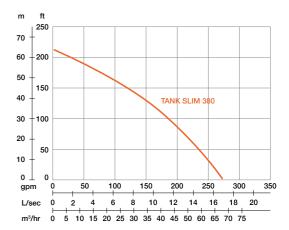
TANK SLIM	230	330
Outlet	2" (BSP)	3" (BS
Rated Output	3 kW	3 kW
Shaft Speed	2850 rpm	2850 r
Solid Passage	7 mm	7 mm
Height	659 mm	629 m
Diameter	Ø 188 mm	Ø 188
Weight	45 kg	38 kg

TANK SLIM



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

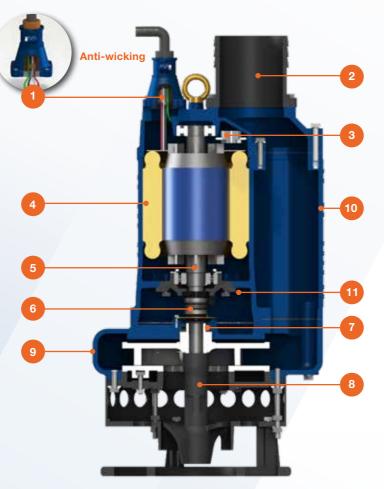
5 C3 Ball Bearings and Hardened SS Shaft

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

6 EagleBurgmann_® 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 Steel Impeller, Agitator, and Wear plate

PRORIL patent formula, ACrS Tech is applied to all high chrome steel 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.

10 Rugged Cast Iron Construction

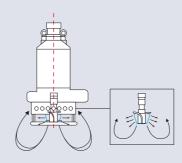
The whole cast iron pump features a simple, robust structure that provides durability and impact resistance to rough conditions.

11Food Grade Lubricant

PRORIL adopts eco-friendly lubricant to minimize environmental impacts.



How the agitator works



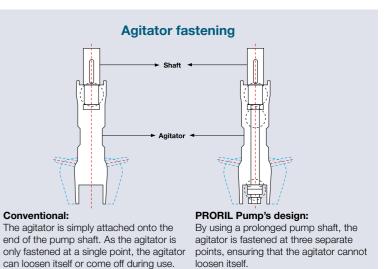
The rigid agitator delivers kinetic energy (energy of motion) to stir solids surrounding the pump intake, re-suspending them into a fluid state for easy pumping.





Heavy Duty PUR Cable

As rugged as our pumps. Provides an ultra solid solution to the weak spot of every submersible pump. Extra safety on the construction site and maximum visibility.



High Chrome Steel Impeller, Agitator and Wear plate

Designed for high wear resistance and superb corrosion resistance, ACrS Tech is applied to all our STORMY series impellers, agitators and wear plates to tackle tough challenging applications. The use of ACrS Tech chromium steel material significantly reduces operational



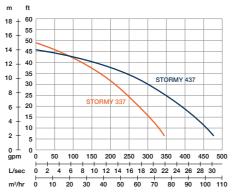
Watertight Cable Entry

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.

STORMY 337 437



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



(P) = open stand (S) = strainer

STORMY

355 455

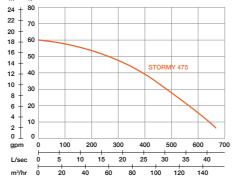
475

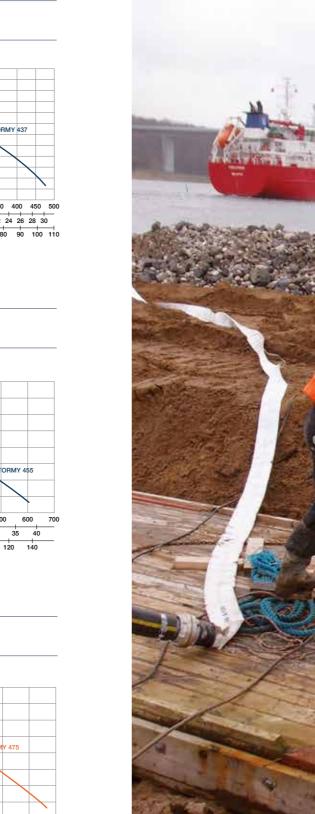


STORMY



STORMY	475
Outlet	4" (BSP)
Rated Output	7.5 kW
Shaft Speed	1450 rpm
Solid Passage	25 mm
Height (P) Height (S)	826 mm 826 mm
Diameter (P) Diameter (S)	Ø 420 mm Ø 412 mm
Weight (P) Weight (S)	124 kg 132 kg
(P) = open stand	(\$) = strainer



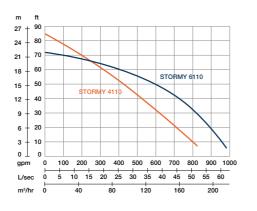




STORMY 4110 6110



STORMY	4110	6110
Outlet	4" (BSP)	6" (BSP)
Rated Output	11 kW	11 kW
Shaft Speed	1450 rpm	1450 rpm
Solid Passage	25 mm	35 mm
Height (P) Height (S)	901 mm 910 mm	913 mm 922 mm
Diameter (P) Diameter (S)	Ø 479 mm Ø 479 mm	Ø 479 mm Ø 479 mm
Weight (P) Weight (S)	191 kg 199 kg	192 kg 200 kg
(\mathbf{P}) = open stand	(s) = strainer	
	Outlet Rated Output Shaft Speed Solid Passage Height (P) Height (S) Diameter (P) Diameter (S) Weight (P) Weight (S)	Outlet4" (BSP)Rated Output11 kWShaft Speed1450 rpmSolid Passage25 mmHeight (P)901 mmHeight (S)910 mmDiameter (P)Ø 479 mmDiameter (S)Ø 479 mmWeight (P)191 kg

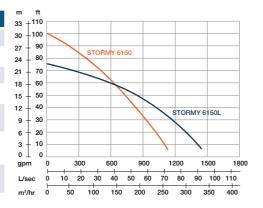


STORMY

6150 6150L



STORMY	6150	6150L
Outlet	6" (BSP)	6" (BSP)
Rated Output	15 kW	15 kW
Shaft Speed	1450 rpm	1450 rpm
Solid Passage	35 mm	35 mm
Height (P) Height (S)	913 mm 922 mm	913 mm 922 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
$(\mathbf{P}) = \text{open stand}$	$(\hat{s}) = strainer$	



STORMY 6220 8220

P

Rated Output 22 kW Shaft Speed 1450 rpm Solid Passage 30 mm 1204 mm Height 🕑 1210 mm Height (S) Diameter (P) Ø 592 mm Diameter (\$) Ø 592 mm Weight 🕑 345 kg S Weight (\$) 357 kg

STORMY

Outlet

Ø 592 mm 355 kg 367 kg (P) = open stand (S) = strainer

6220

6" (BSP)

8220

8" (BSP)

22 kW

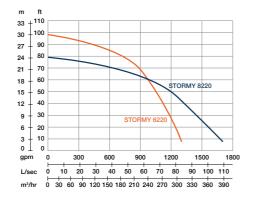
40 mm

1450 rpm

1166 mm

1172 mm

Ø 592 mm





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

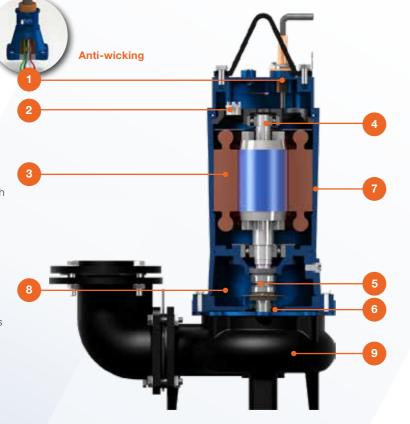
The motor incorporates a motor protection device which protects against overheating and dry-run. Pumps with a capacitor-run or direct-on line starting motor are equipped with a circle thermal protector. Pumps with a start-delta starting motor are equipped with miniature thermal protectors in each phase.

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 EagleBurgmann_® 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

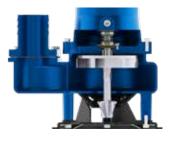
Discharge Bore: 50 - 100 mm Motor: 0.4 ~ 7.5 kW. 2-Pole Motor Impeller Type : Vortex impeller Features : A whirling action enables large solids and fibrous matters to be pumped out without obstruction.

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

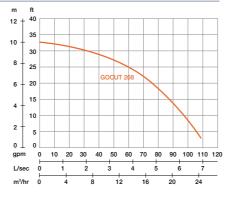
- GOCUT Series pumps are designed for handling raw sewages and various wastewater treatments.
- The cutting mechanism shreds fibrous materials into small pieces to prevent from clogging that would happen on a common pump.
- The cutting mechanism consists of a chopper plate and a tungsten carbide alloy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

208

GOCUT



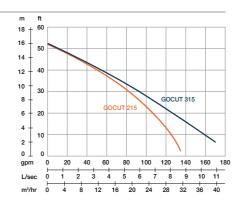
GOCUT	208
Outlet	2" (50 mm)
Rated Output	0.75 kW
Shaft Speed	2850 rpm
Solid Passage	26 mm
Height	434 mm
Diameter	Ø 301 mm
Weight	21.5 kg
Also available with	float switch (A)



215 315

GOCUT

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	230 Volt (S)	

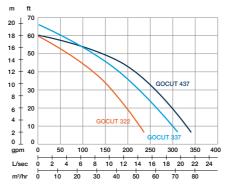


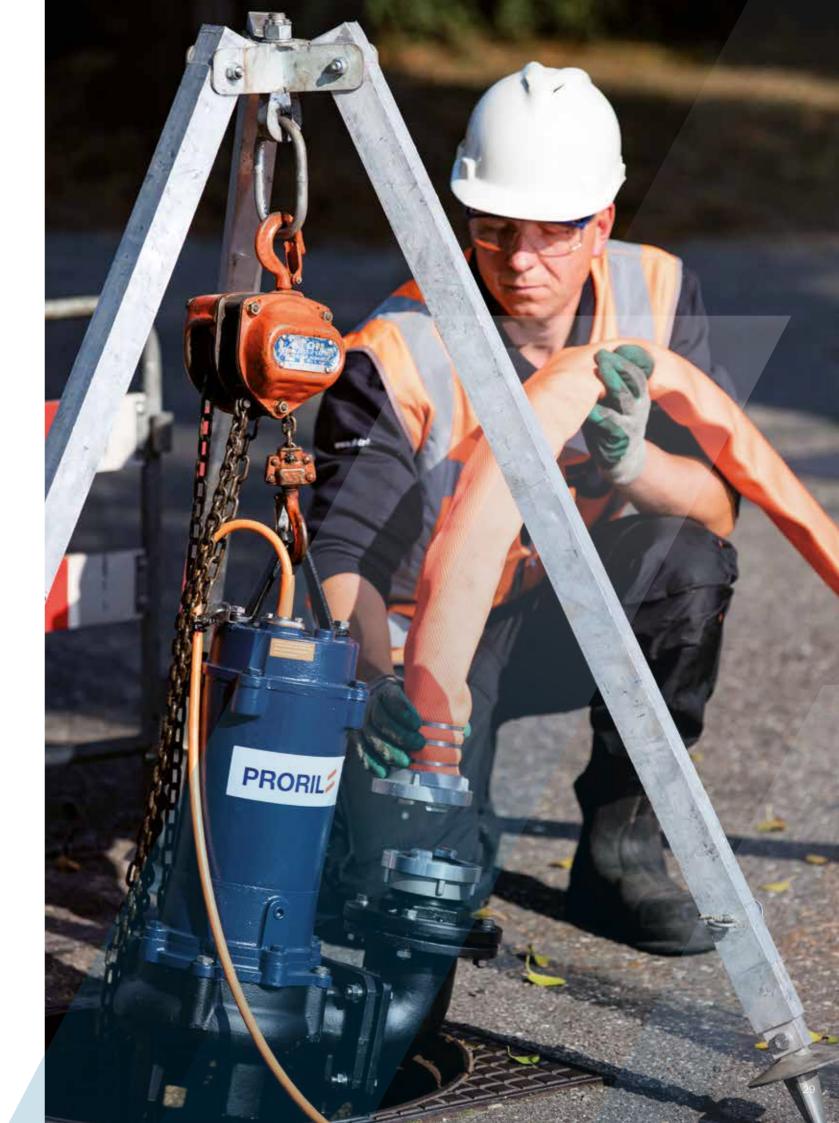
GOCUT 322

322 337 437

	1	1	
ŧ	1	IOPE I	
		-	

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.

97 kg

- 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.

Weight

94 kg

GOMAX	337 437				GOMAX	4110 6110
	GOMAX	337	437	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	bi .	GOMAX
ATR.	Outlet	3" (80 mm)	4" (100 mm)			Outlet 4
	Rated Output	3.7 kW	3.7 kW			Rated Output
	Shaft Speed	1450 rpm	1450 rpm	10 30 GOMAX 437		Shaft Speed
	Solid Passage	76 mm	76 mm	6 20 GOMAX 337 GOMAX 457		Solid Passage
	Height	673 mm	673 mm			Height 8
	Diameter	Ø 580 mm	Ø 589 mm	gpm 0 100 200 300 400 500 600 700	and the second	Diameter Ø
and the second second	\A/oight	04 kg	07 kg	L/sec 0 5 10 15 20 25 30 35 40		

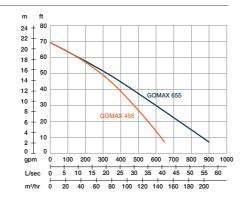
m³/hr

20

GOMAX 455 655



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

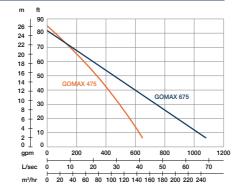


40 60 80 100 120 140

GOMAX 475 675

12.0	GC Ou
1 100	Ou
	Ra
	Sh
10. 14	So
	He
- Carrier	Dia
- 1	We

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
leight	810 mm	810 mm
Diameter	Ø 693 mm	Ø 752 mm
Veight	142 kg	148 kg



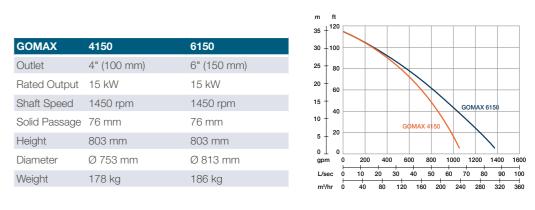




Outlet	4" (100 mm)	6" (
Rated Output	11 kW	11
Shaft Speed	1450 rpm	145
Solid Passage	76 mm	76 ו
Height	803 mm	803
Diameter	Ø 753 mm	Ø 8
Weight	167 kg	175

4150 6150

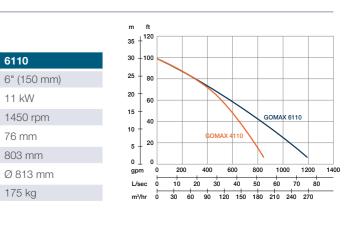


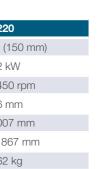


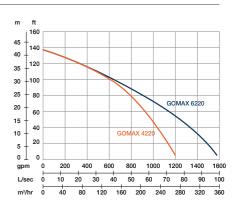
GOMAX



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







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	m ft 9 + ³⁰ 8 +
	Outlet	2" (50 mm)	7 - 25
	Rated Output	0.4 kW	6 + 20 5 +
PRORIL	Shaft Speed	2850 rpm	4 + 15
	Solid Passage	32 mm	3 10 GØVOX 204
	Height	395 mm	
Contraction of the	Diameter	Ø 243 mm	0 0 0 30 40 50 60 70 80
	Weight	13.5 kg	
			m³/hr 0 4 8 12 16

14 -

12 + 40

0

gpm

L/sec

m³/hr

45

35 10

30 8 -

25

15

20

60 40

80 100 120

0 1 2 3 4 5 6 7 8 9 10 11

0 5 10 15 20 25 30 35 40

e 20

Also available with float switch (A).

208 315

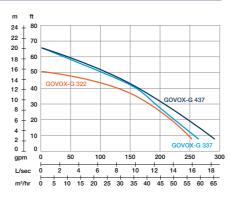
GOVOX



GOVOX	208	315	
Outlet	2" (50 mm)	3" (80 mm)	
Rated Output	0.75 kW	1.5 kW	
Shaft Speed	2850 rpm	2850 rpm	
Solid Passage	37 mm	50 mm	
Height	473 mm	501 mm	
Diameter	Ø 243 mm	Ø 302 mm	
Weight	19.5 kg	24 kg	
GOVOX 315 also available in 230 Volt (S). Also available with float switch (A).			



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



GOVOX 315

GOVOX-G 455 475



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 r
Height	695 mm	717
Diameter	Ø 464 mm	Ø 4
Weight	72.5 ka	75 k

GOVOX-U

322 337



GOVOX-U	322	337
Outlet	3" (BSP)	3" (BSP)
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 366 mm	Ø 376 mm
Weight	40 kg	49 kg

GOVOX-U

455 475

GOVOX-U	455	475
Outlet	4" (BSP)	4" (E
Rated Output	5.5 kW	7.5
Shaft Speed	2850 rpm	285
Solid Passage	55 mm	55 r
Height	720 mm	754
Diameter	Ø 376 mm	ØЗ
Weight	60 kg	67 k

GOVOX-S SERIES VORTEX & AGITATOR PUMPS

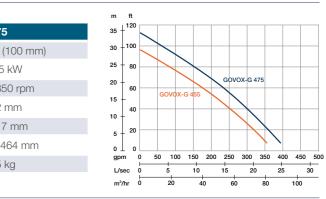
- GOVOX-S series pumps are equipped with an agitator, which forcibly agitates the fluid for easy and efficient transmission of sludge, sand, mud, and debris.
- The agitator prevents air lock that tends to take place on vortex pumps.

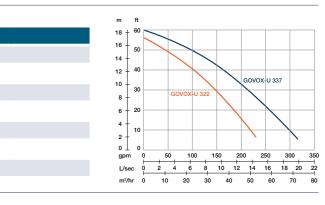
GOVOX-S

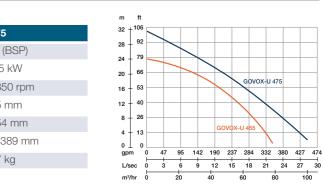


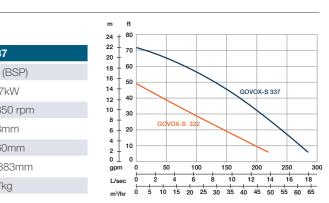


GOVOX-S	322	337
Outlet	3" (BSP)	3" (
Rated Output	2.2kW	3.7
Shaft Speed	2850 rpm	285
Solid Passage	13mm	13r
Height	603mm	660
Diameter	Ø373mm	Ø38
Weight	43kg	57k







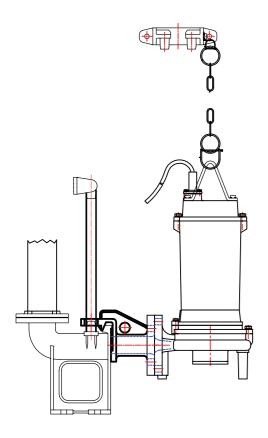


GUIDE RAIL FITTING SYSTEMS

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 sys	tem inc	ludes:
-------	----------	---------	--------

- Cast iron 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
	GOCUT 315
GRL-03F	GOVOX 315
GRF-03	GOCUT 322/337
GRF-03	GOVOX-G 322/337
GRF-04	GOCUT 437
	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 PUNDS 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.

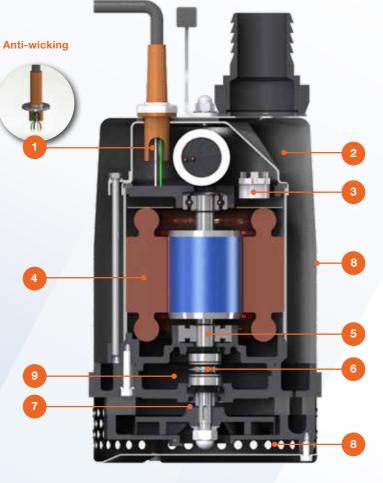
3 Motor Protector

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 EagleBurgmann_® 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" (BSP)	2" (E
Rated Output	0.4 kW	0.75
Shaft Speed	2850 rpm	285
Solid Passage	5.5 mm	7 m
Height	333 mm	361
Diameter	Ø 184 mm	Ø 18
Weight	12.5 kg	14 k

Also available with float switch (A).

SMART



	SMART	1500
	Outlet	2" (BSP)
	Rated Output	1.5 kW
	Shaft Speed	2850 rpm
	Solid Passage	9 mm
	Height	433 mm
	Diameter	Ø 225 mm
	Weight	23.5 kg

Also available in 230 Volt (S).

SMART BASE

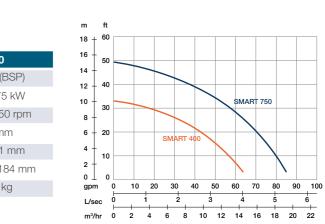
400

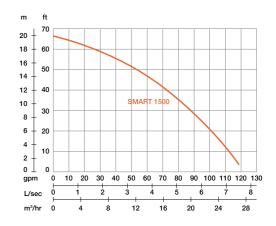


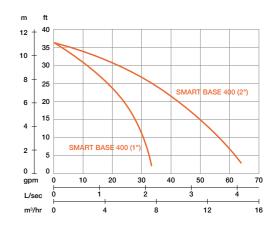
SMART BASE	400
Outlet	1" (BSP) 2" (BSP)
Rated Output	0.4 kW
Shaft Speed	2850 rpm
Solid Passage	2 mm
Height	336 mm
Diameter	Ø 206 mm
Weight	14 kg

SMART

400 750

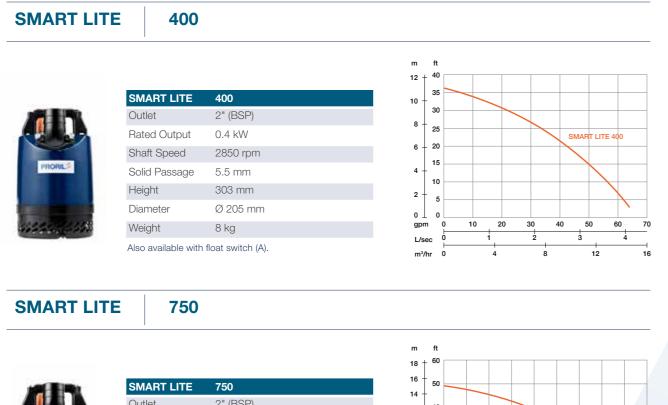






SMART LITE

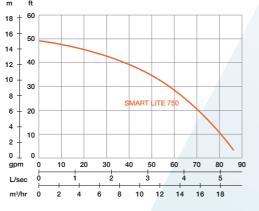
Small, lightweight and cost-effective, the SMART LITE pumps perform an excellent job for their size. These small but effective dewatering pumps are easily maintained and perfect for a variety of applications, such as small construction sites, rental industries, and municipal jobs.





SMART LITE	750
Outlet	2" (BSP)
Rated Output	0.75 kW
Shaft Speed	2850 rpm
Solid Passage	7 mm
Height	343 mm
Diameter	Ø 205 mm
Weight	12.5 kg
Also available with f	loat switch (A).

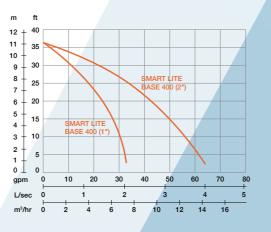
400



SMART LITE BASE

	SMART
	Outlet
	Rated (
PRORILS	Shaft S
	Solid Pa
a second second	Height
	Diamete
and the second se	Woight

400
1" (BSP) 2" (BSP)
0.4 kW
2850 rpm
2 mm
304 mm
Ø 215 mm
10,5 kg





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.

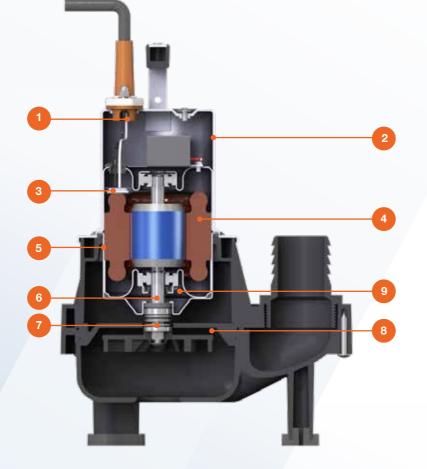
3 Motor Protector

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

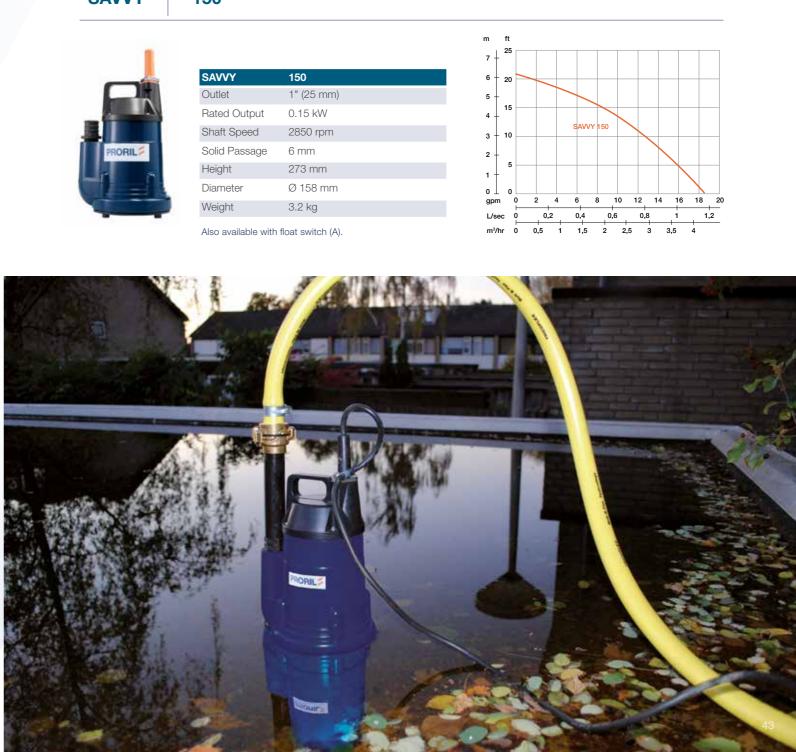
FEATURES

- 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



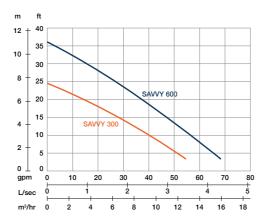
SAVVY	150	
Outlet	1" (25 mm)	
Rated Output	0.15 kW	
Shaft Speed	2850 rpm	
Solid Passage	6 mm	
Height	273 mm	
Diameter	Ø 158 mm	
Weight	3.2 kg	



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	306 mm	341 mm
Diameter	Ø 244 mm	Ø 244 mm
Weight	4 kg	6 kg

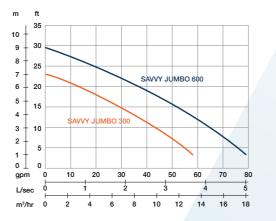


SAVVY JUMBO

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 372 mm Height 337 mm Ø 245 mm Ø 245 mm Diameter Weight 4.2 kg 6 kg

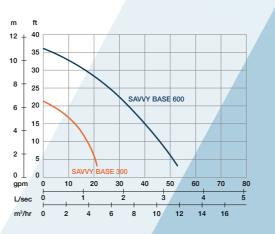
Also available with float switch (A).

300 600



SAVVY BASE

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	304 mm	357 mm
Diameter	Ø 244 mm	Ø 244 mm
Weight	4 kg	6 kg
Also available with fl	oat switch (A).	





STAINLESS STEEL 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.

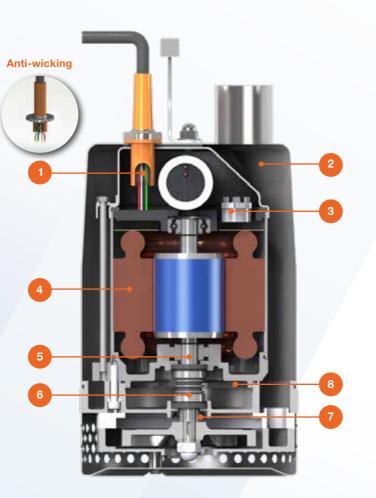
4 Submersible Motor

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 EagleBurgmann_® 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.



PROFIL



Also available with float switch (A).

X-SMART

215 315



X-SMART	215	315
Outlet	2" (BSP)	3" (BSP)
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 186 mm	Ø 186 mm
Weight	19 kg	19 kg

Also available in 230 Volt (S).

X-VOX

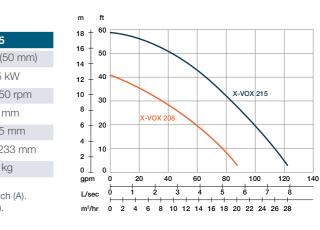
208 215

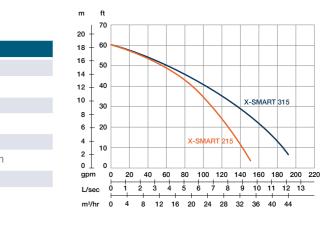
HORLS	

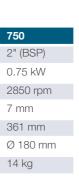
X-VOX	208	215
Outlet	2" (50 mm)	2" (
Rated Output	0.75 kW	1.5
Shaft Speed	2850 rpm	285
Solid Passage	40 mm	37 r
Height	415 mm	445
Diameter	Ø 233 mm	Ø 2
Weight	12 kg	15 k

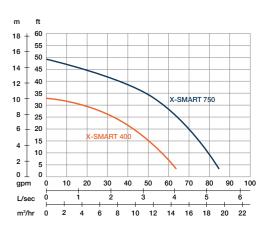
X-Vox 208 also available with float switch (A). X-Vox 215 also available in 230 Volt (S).

X-SMART









ACCESSORIES

PROTECTOR PLUGS

THERMAL AND CURRENT OVERLOAD MOTOR PROTECTOR PLUGS

Standard with phase inverter and sequence indicator.



Setting range	Type plug	16A 5 pole	32A 5 pole
1 - 1,6 A	MP plug ph.inv. 16/5 1.0-1.6A IP67	Code 10	Code 21
1,6 - 2,5 A	MP plug ph.inv. 16/5 1.6-2.5A IP67	Code 11	Code 22
2,5 - 4 A	MP plug ph.inv. 16/5 2.5-4.0A IP67	Code 12	Code 23
4 - 6,3 A	MP plug ph.inv. 16/5 4.0-6.3A IP67	Code 13	Code 24
6,3 - 10 A	MP plug ph.inv. 16/5 6.3-10A IP67	Code 14	Code 25
10 - 16 A	MP plug ph.inv. 32/5 10-16A IP67		Code 26
16 - 20 A	MP plug ph.inv. 32/5 16-20A IP67		Code 27
20 - 25 A	MP plug ph.inv. 32/5 20-25A IP67		Code 28
25 - 32 A	MP plug ph.inv. 32/5 20-25A IP67		Code 29

FLOAT SWITCH SOLUTION FOR 400 VOLT PUMPS WITH CURRENT OVERLOAD PROTECTION

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



Setting range	Type plug	16A 5 pole	32A 5 pole
1,6 - 2,4 A	MP plug c/w fl.sw.:1,6/2,4A/400V/16A/5p	Code 30	
2,4 - 4 A	MP plug c/w fl.sw.:2,4-4,0A/400V/16A/5p	Code 31	
4 - 6 A	MP plug c/w fl.sw.:4,0-6,0A/400V/16A/5p	Code 32	
6 - 10 A	MP plug c/w fl.sw.:6,0-10A/400V/16A/5p	Code 33	
9 - 12 A	MP plug c/w fl.sw.:9,0-12A/400V/16A/5p	Code 34	
12 - 16 A	MP plug c/w fl.sw.:12-16A/400V/16A/5p	Code 35	
16 - 20 A	MP plug c/w fl.sw.:16-20A/400V/32A/5p		Code 36
20 - 25 A	MP plug c/w fl.sw.:20-25A/400V/32A/5p		Code 37
25 - 32 A	MP plug c/w fl.sw.:25-32A/400V/32A/5p		Code 38

FLOAT SWITCH



Length mtr.	No. wire	Volt
10	2	230
20	2	230

ACCESSORIES

SUCTION RING

The rubber suction ring makes the pump designed for multi-purpose pumping. Ideal for residual drainage, the suction ring ensures a simple, reliable and immediate solution for pumping down to floor level on the jobsite.

COMPATIBLE PRODUCTS:

TANK 215, TANK 315 TANK 222, TANK 322, TANK 422 TANK 337, TANK 437



FLOAT SWITCH HOLDER

The rubber float switch holder can easily be set up in any of the pumps provided with a standard float switch. While using the float switch holder the pump can continue draining the water levels lower than the float switch OFF position. In addition, it provides easiest for carrying/storing the float switch.



FLOAT SWITCH INSTALLATION EXAMPLE

DISCHARGE HOSE CONNECTIONS

Discharge hose connections are optionally available for all models and can be converted between vertical and horizontal directions.



5mm



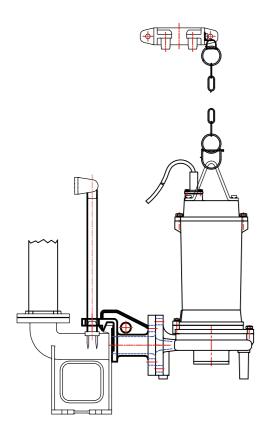


GUIDE RAIL FITTING SYSTEMS

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 ra	il system	n incluc	les:
----------	-----------	----------	------

- Cast iron upper holder.
- 5 meter stainless steel chain.
- Required fixtures.

Guide Rail Type	Applicable Models	
GRL-02	GOVOX 204/208	
GHL-02	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	
GHF-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

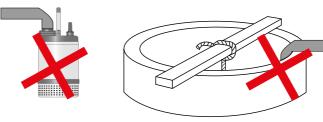


CORRECT INSTALLATION OF THE PUMPS

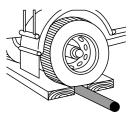
Although installing PRORIL submersible pumps is fairly straightforward, there are a few basic things that need to be taken into consideration to ensure optimal performance and to prevent excessive wear and/or damages.

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.

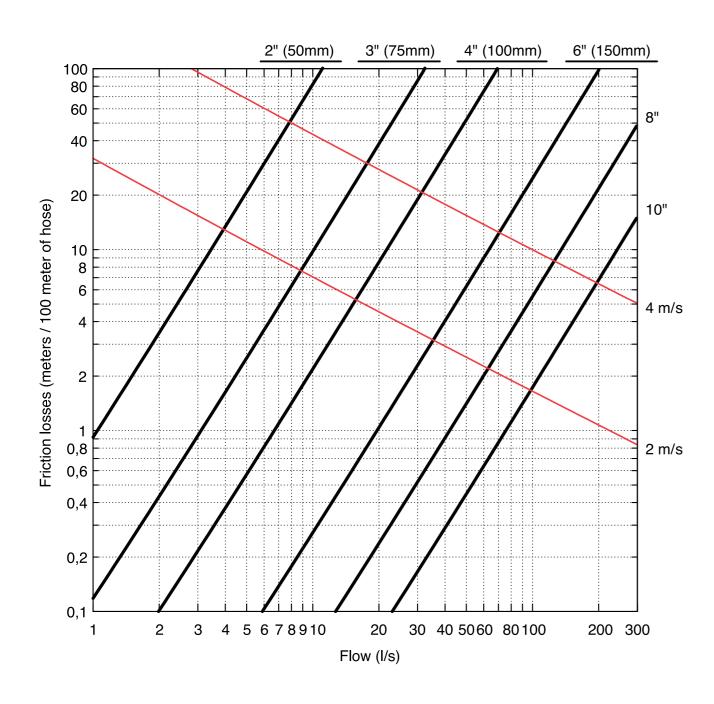






TECHNICAL INFORMATION

CHART FOR CALCULATING FRICTION LOSSES IN HOSES



TECHNICAL INFORMATION

TYPE OF IMPELLER



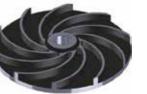
SEMI-OPEN IMPELLER

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.



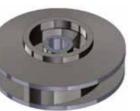
VORTEX IMPELLER

impeller.



PERIPHERAL IMPELLER

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.



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 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 +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.)