



ROTADYNE



**PACKAGED
PUMPING STATIONS**

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LLDPE Packed Sewage Pumping Station

Rotadyne Packaged Pumping solution is a plug and play setup. With a range of Polyethylene tanks up to 10,000L and up to 5m in depth, it can service a large catchment area. The system can be customised to add additional storage as required via a range of Polyethylene storage logs and other ancillary setups such as external valve boxes. Ideally suited to the needs of privately owned and operated infrastructure, this cost-effective solution is with a control panel which can be configured for local alarm setup or SMS remote alarms. The station is ideally suited to small to medium multi-level living, gated communities such as retirement villages and small light industrial parks.



Application: Multi-level living, gated communities, and light industrial parks

Key Features

Plug & Play Packaged Solution:

- Minimal site works & rapid deployment.
- Corrosion Free: Linear Low-Density Polyethylene (LLDPE) collection chamber & customisable class rated lid.
- Compatibility with Acid sulphate Soils.
- Sized for your duty and control needs.
- Expandable extra emergency storage via Storage Logs
- Internal or external isolation and check valve setup.
- Stainless Steel guide rails and chain hoist.
- Custom configurable tank setups to maximum depth of 5m.
- Compact Plug and play control cabinet IP65, set with full automation control, inclusive of level control instrumentation.
- Configurable local and remote SMS Alarms.
- Australian owned manufacturing operation – 50 Years.
- Supporting Buoyancy calcs and anchorage guidelines for site installation purposes.



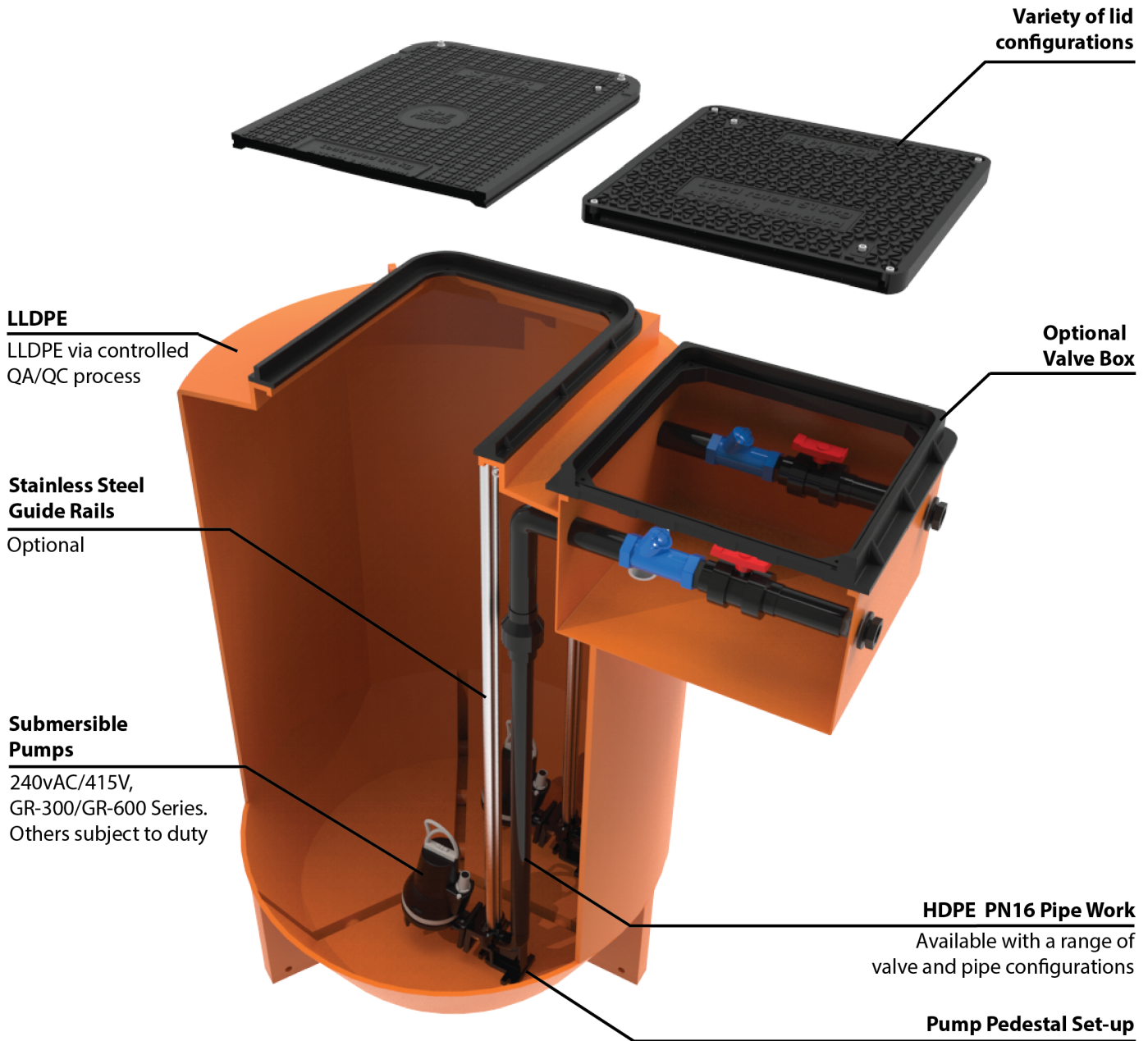
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Variety of lid configurations

LLDPE
LLDPE via controlled QA/QC process

Optional Valve Box

Stainless Steel Guide Rails
Optional

Submersible Pumps
240vAC/415V, GR-300/GR-600 Series. Others subject to duty

HDPE PN16 Pipe Work
Available with a range of valve and pipe configurations

Pump Pedestal Set-up



Relevant Standards & Product Accreditation

Australia Manufacturer producing to:

AS/NZS: 1546:1 2008 -Underground Collection Tank (Cert SMK 40227), test compliance on Finite Element Analysis

Top Load/ Impact/Ultrasonic/Hydrostatic

NSW Dept Of Health Certificate SEPS009

AS/NZ 3000 – Compliance of Plug and Play Control Cabinet

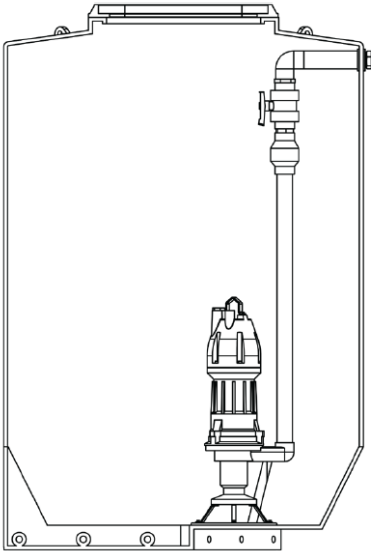


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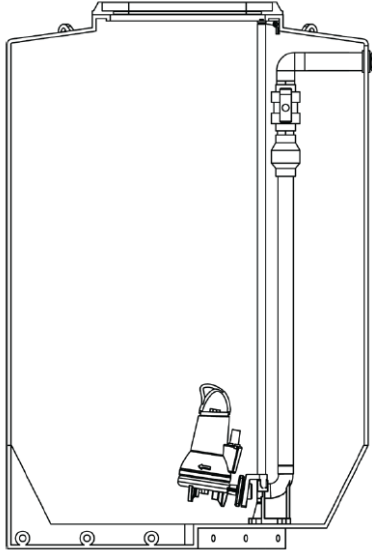
LLDPE Packed Sewage Pumping Station

Standard Sizes and Configurations

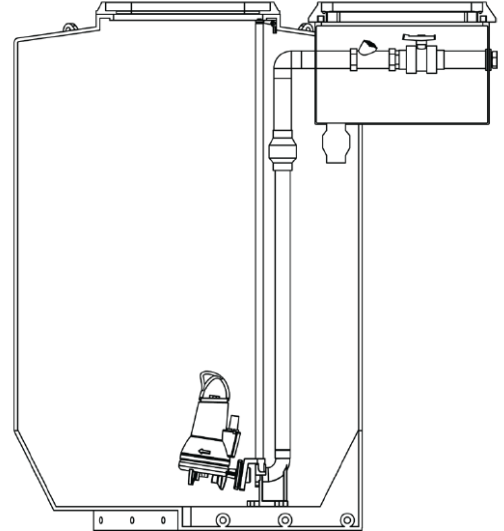
Free Standing with Flexible Camlock Connections



Guide Rails with Internal Valves



Guide Rails with External Valve Chamber



Model	Litres	Diameter	Depth	Pumps	Pipe Size	Valve Chamber		
2154	250	615	960	Single	32/40/50	No		
2155	345		1220					
2161	450		1410					
2162	590	800	Single/Dual					
2156	1050	850	2160	Single				
2152	1050	1000	1440	Single/Dual	32/40/50/80	Yes		
2153	1460		2100					
2163	1880	1400	1480					
2158	2780		2100					
2159	3150		2350					
2157	4000		3000					
2166A/2	4500		3250					
2163A/4	6000	4350	Single/Dual				32/40/50/80	Yes
2163A/5	7100	5285						
2164/1	3200	1400						
2164	6000	2390						
2164A/2	8300	1950	3270	Single/Dual	32/40/50 80/100	Yes		
2164A/4	10600		4080					

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ROTADYNE LLDPE Packed Sewage Pumping Station

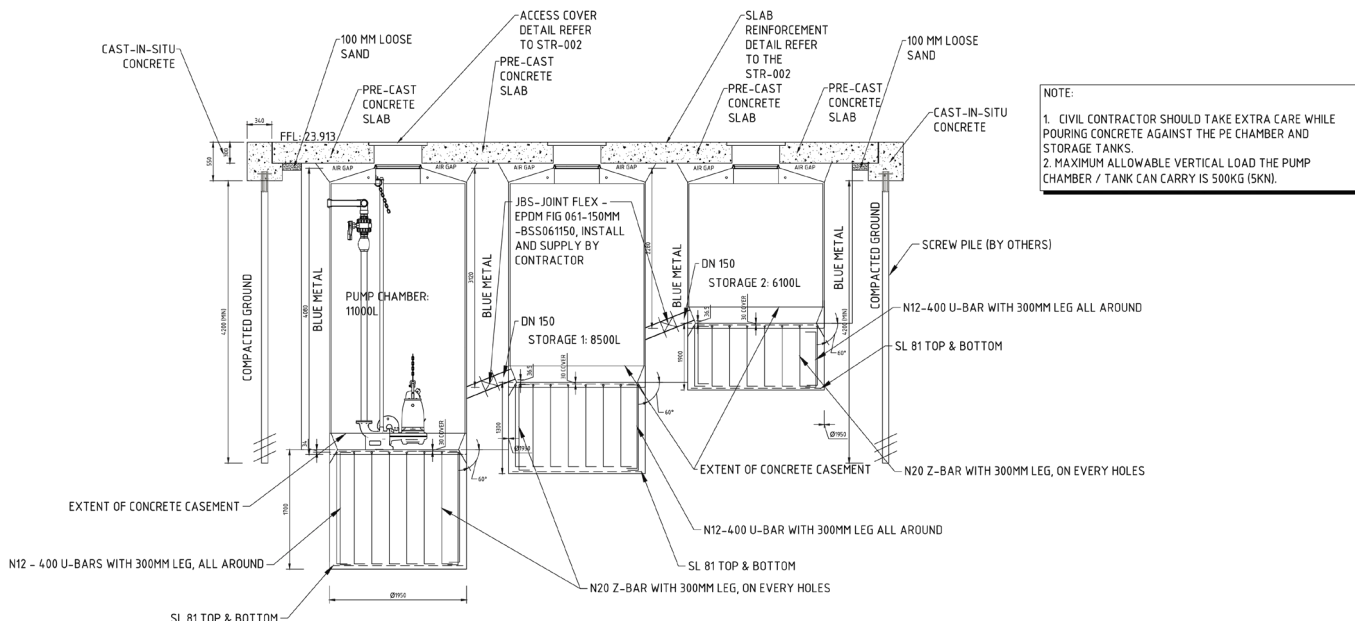
Production Capability

A range of fit out options subject duty needs:

- LLDPE tank/ LLDPE External valve box, complete with drainage check Valve
- Pump specification subject to duty and individual site-specific needs
- Duty/Standby Configuration of pumps within single pumping stage, subject to Duty
- Pressure rated PE/PVC Pressure Pipe/ Flexible Hose setup with Stainless Camlocks
- Check and Isolation valving, Cast Iron 2 Paint Epoxy Coated/ PVC – subject to requirements: typical
- sizes subject to pump sizing – 50mm to 80mm" – larger sizes on application
- Stainless steel guide rails and chain
- Stainless Steel Discharge Pedestal and support base plates – subject to pump size.
- Stainless Steel eye bolts
- Level float control setup (Low/Start/Stop/High), complete with counterweight
- Typical Items Provided loose for setup on site by contractor/plumber
 - 2 x 100mm/150mm EPDM rubber seals for gravity intake
 - 2 x 50mm PVC Electrical conduit penetrations
 - 1 x suitably load rated access cover, subject to loading requirements
 - Pumps

Custom Pump Station Set Ups & Civil Design Support

We know that not all sites are easy to install your pumping system within. Your site may be in water charged grounds, unstable soil or your pumping station may need to contend with lateral loads from heavy traffic or even have to contend with service vehicles driving over the pumping station. For all these sort of difficult scenarios, we can support you with an overall functional site specific design to support civil construction, inclusive of structural slab designs as necessary, to limit load transfer to the pumping chamber.



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Standard Lid Configurations



Composite Weather Hatches

Available as a 600 Diameter, 600 x 600 square or a 600x900 rectangle

Lockable and "O" ring sealed to prevent water ingress from weather events.

Supplied with stainless steel lock spanner and lifting handle.

Rated to 510kg in accordance with AS1546.

Flat layout avoids tripping hazards.

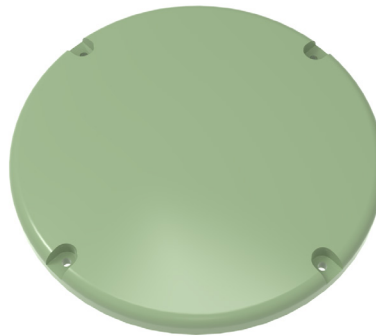
Dome PE Hatch

600 diameter unfilled polyethylene "garden style".

Non - trafficable, rubber strip sealed.

Load rated to 110-300kg.

Typically suitable and used for installations with the portion of tank protruding above finish surface level.

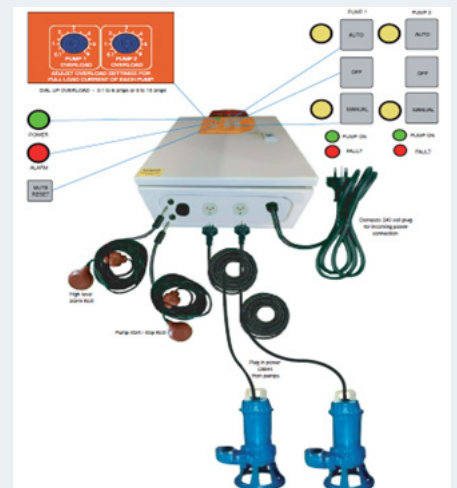


Customisable Access

We are also able to supply Iron hatches and covers with integrated safety grates for jobs where these are requirements.

Pump Controller Set up

- Powder Coated weatherproof steel cabinet with dial up overload protection, 4G
- Touch pad control and LED indicator lights
- Suitable for use up to 10amp
- Toggling pump operation for duty/standby control operation
- High level alarm
- Alarms functions with time delay
- Auto and manual bypass operation



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Production Capabilities

Our national production facility NSW has been supporting the water & wastewater and chemical industries for storage, handling, and pumping solutions since 1973.

With suitably qualified machine operators, fitters & turners, and in-house electrical capabilities, we operate from a strong technical base with all things relating to rotational moulding and systems design. Some of our staff are with over 40 years' experience, bringing a wealth of knowledge experience to the table.

Most importantly we are not afraid to customize and cater for unique needs - in fact we take great pride in it.

We have a track record in being able to value add and help our customers grow their businesses whilst minimising their ongoing costs from:

- Product development and R & D;
- Detailed design to relevant Australian standards, supported by necessarily finite element analysis simulations.
- Prototyping and small-scale additive manufacturing.
- Development of production tooling including rotational moulds and injection moulds and all necessary, jigs and production accessories to facilitate interface with machines, for rota moulding and injection moulding.
- Type testing of your product and attainment of compliance to standards and necessarily certification, within an Australian Standards certified manufacturing facility.
- Full production and machining; and mechanical fit out with any necessary hydraulic and electrical testing, supported by Quality Assurance documentation.



Free Up Capacity & Create Focus:

Need to focus on the marketing and sale of your product? We focus on the development, manufacturing, warehousing, and logistics for you, so that you can have peace of mind and keep your focus where it's needed. We help you to:

- Minimize your cost of on-going labour and realise genuine economies of scale;
- Keep CAPEX outlays to an absolute minimum;
- Have a finished product fully fitted out with suitable QA and certification to your satisfaction; and
- Drastically reduce your cost of warehousing to an absolute minimum by using our warehousing facilities and eliminate the potential double handling in the supply chain.

Contact us today to ask how we can help to streamline your production needs, to make you even more competitive and help you focus on the important business of selling.

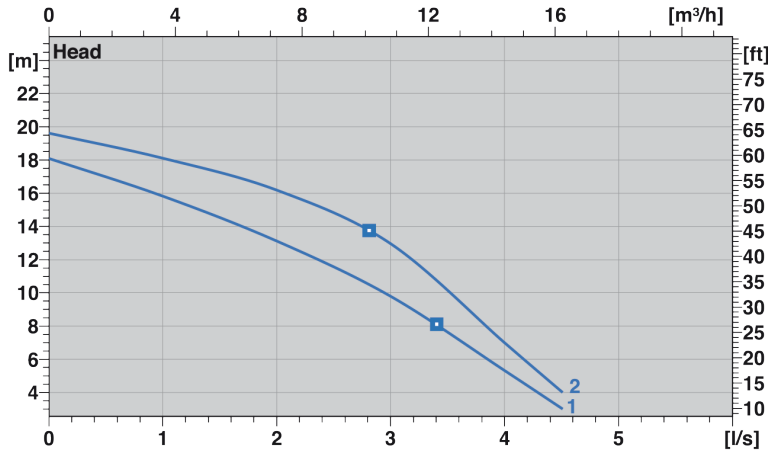
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Waste Water Grinder Pumps

S-GR 300

Performance Curves

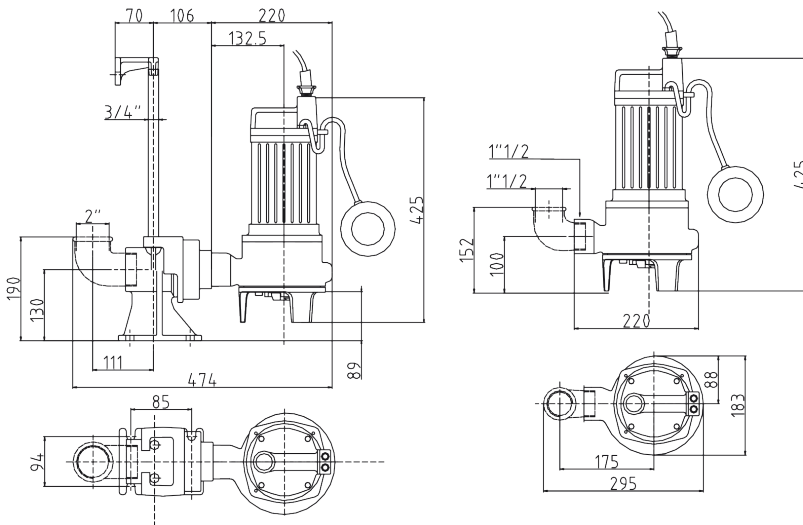


General Features

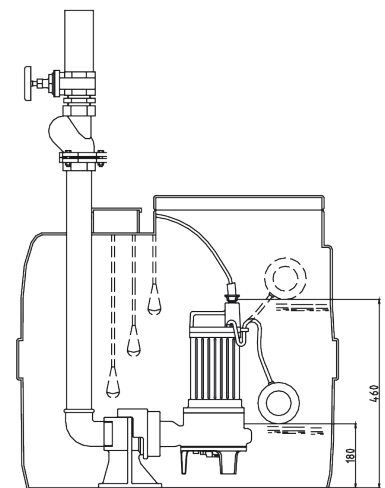
Performances

No	Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	DN	Ø mm	V	KG	Flow							
												l/sec	0	1	2	3	4	4,5	5
												m³/h	0	4	7	10.8	14.4	16.2	18
1	S-GR 320.0,75-2/128.7 ms/ A	0.9	0.75	1x230-240	22	5.5	2850	1" 1/2	6	40N	24	H	18.1	15.8	13.1	9.8	5.3	3	
1	S-GR 320.0,75-2/128.7	0.9	0.75	3x400-415		2.7	2850	1" 1/2	6	40N	24		18.1	15.8	13.1	9.8	5.3	3	
2	S-GR 321.1,1-2/128.7 ms/ A	1.3	1.1	1x230-240	30	7.5	2850	1" 1/2	6	40N	25	m	19.6	18.1	16.2	13	7	4	
2	S-GR 321.1,1-2/128.7	1.3	1.1	3x400-415		3.2	2850	1" 1/2	6	40N	25		19.6	18.1	16.2	13	7	4	

Dimension Drawings



Installation Type

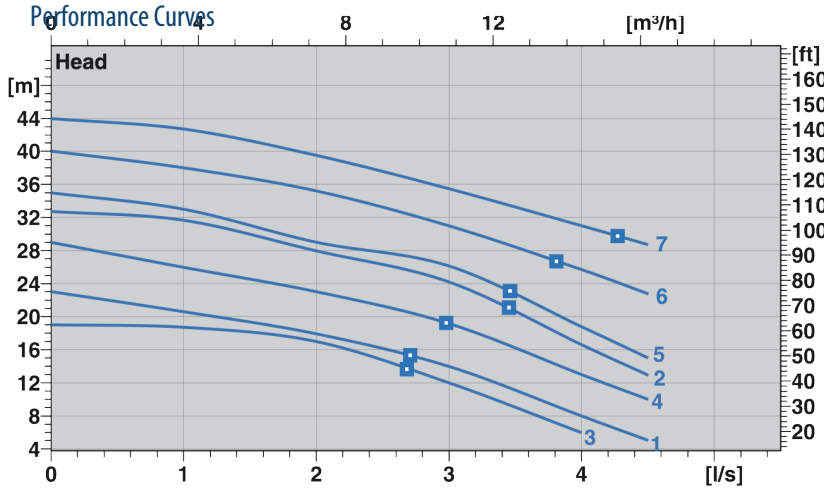


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Waste Water Grinder Pumps

S-GR 600



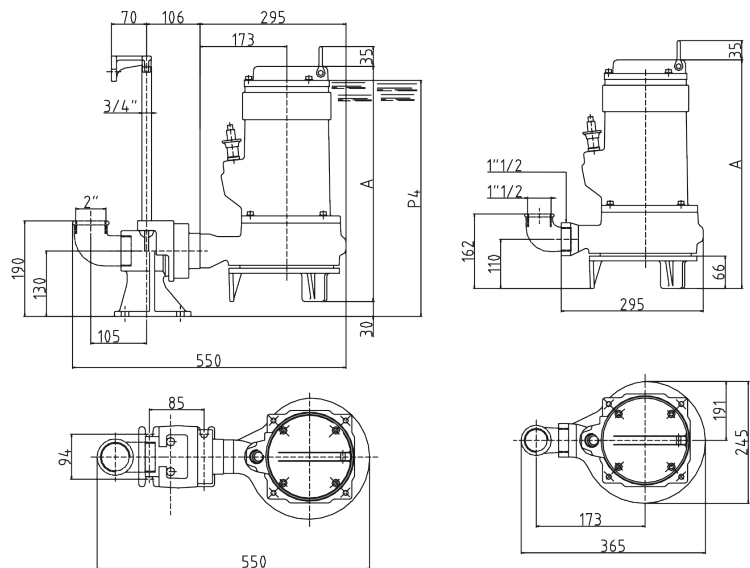
General Features

No	Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	DN	Ø mm	Performances						
										l/sec m³/h	0	1	2	3	4	4,5
1	S-GR 622.1,6-2/140.7 ms	2	1.6	1x230-240	40	10	2850	1" 1/2	7	H	23	20,7	18	14	8	5
3	S-GR 615.1,1-2/131.7	1.5	1.1	3x400-415		3	2850	1" 1/2	7	m	19	17,8	15	12	6	
4	S-GR 626.1,85-2/151.7	2.2	1.85	3x400-415		4,5	2850	1" 1/2	7		29	26	23	19,1	13	10
5	S-GR 635.2,6-2/165.7	3.3	2.6	3x400-415		5,9	2850	1" 1/2	7		35	33	29	26,1	18,9	15
6	S-GR 648.3,6-2/173.7	4	3.6	3x400-415		7	2850	1" 1/2	7		40	38	35,2	31	25,8	22,8
7	S-GR 656.4,2-2/184.7	5	4.2	3x400-415		9	2850	1" 1/2	7		44	42,8	39,5	35,5	31	28,8

Installation Sizes

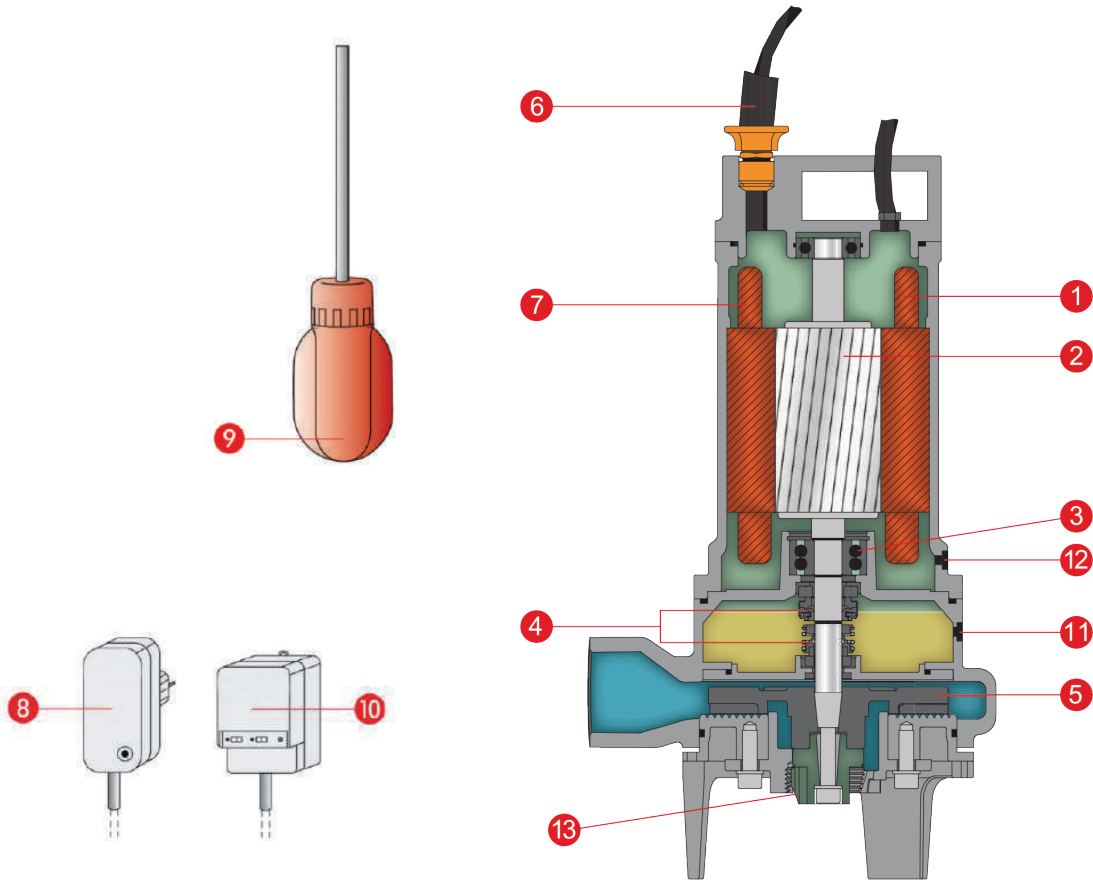
No	Type	A max	P4	V	KG
1	S-GR 622.1,6-2/140.7 ms	455	470	40N	44
3	S-GR 615.1,1-2/131.7	420	435	40N	38
4	S-GR 626.1,85-2/151.7	420	435	40N	39
5	S-GR 635.2,6-2/165.7	455	470	40N	44
6	S-GR 648.3,6-2/173.7	470	485	40N	54
7	S-GR 656.4,2-2/184.7	470	485	40N	55

Dimension Drawings



ROTADYNE PTY LTD

Technical Features



1. Fully submersible pressure tight electric motor
Insulation class H. Protection degree IP 68
Speed: 2850 rpm. Voltage: single-phase 1x230V-50 Hz Three-phase 3x380/415V-50 Hz
Different voltage and frequency on request. ATEX certification in progress
2. Shaft in stainless steel AISI 420
3. Bearings over-dimensioned long-life
4. Double mechanical seal in oil chamber
Water side: silicon carbide/silicon carbide
Motor side: graphite/alumina
5. Open Impeller with cutting device
6. Cable H07RNF
7. Thermal protection embedded in winding
8. Plug with capacitor
9. Float switch regulator
10. AET-AEM electrical gear for three-phase and single-phase execution
11. Oil inspection plug
12. Hole for the motor watertightness control
13. Cutting device

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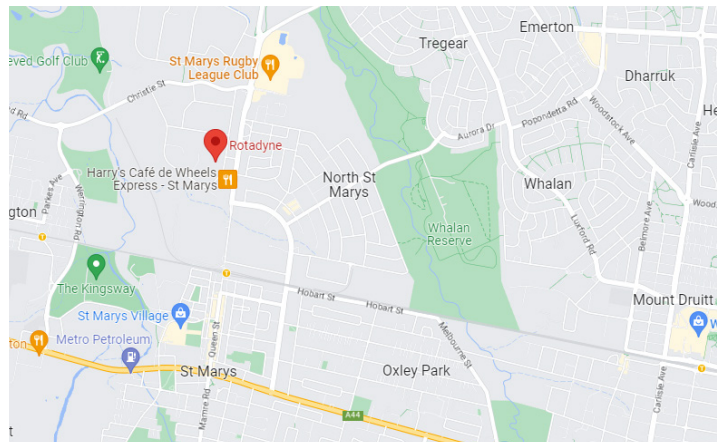
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