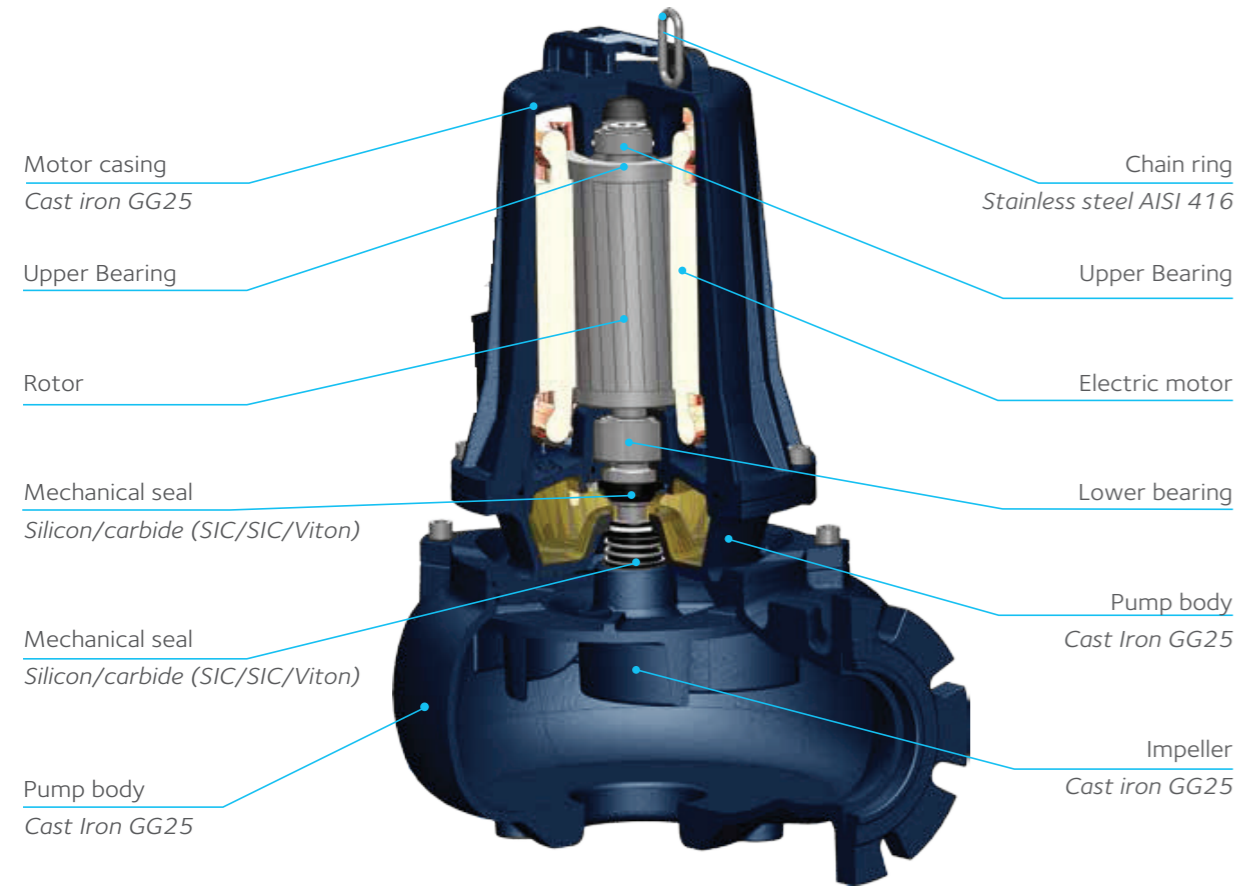


## COMPONENTS & MATERIALS



## TECHNOLOGY & FEATURES

### V-SERIES



#### Impeller

Recessed vortex impeller granting ample solids handling thus avoiding clogging problems



#### Seal Leak Detector

The seal leak detector is certified according to the norm ATEX through safety barrier EN 60079-0, EN 60079-1 and fitted standard on all series.



#### Cable Gland

The cable gland is made of stainless steel AISI 316 and certified according to the norm ATEX EN 60079-0, EN 60079-1. Standard on all series.

### ALPHA-SERIES



#### Solids Handling

Excellent free passage for up to 50mm solids



#### Relay (Optional)

For the correct operation of a float switch



#### Seals

Two mechanical seals. Motor side: carbon/ceramic (CA/CE/Viton) Impeller side: Silicon carbide (SIC/SIC/Viton). Easily inspectionable oil chamber.

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# YARDMASTER® PRODUCT RANGE

### EFFLUENT PUMPS

#### FOR 'PROCESSED' IRRIGATION



##### Multi-stage Vertical

IDEAL FOR  
• Floating Frames  
• High efficiency /pressure  
• Green water /Small solids

##### Multi-stage Horizontal

IDEAL FOR  
• Flood feed applications  
• High efficiency /pressure  
• Green water /Small solids

##### Self-Priming Multi-stage

IDEAL FOR  
• Shore Mounting  
• High efficiency /pressure  
• Green water /Small solids

##### Horizontal Pump

IDEAL FOR  
• Flood feed applications  
• High speed irrigation pump  
• Green water with solids

##### Vertical Pump

IDEAL FOR  
• Floating Frames  
• High speed irrigation pump  
• Green water with solids

##### Extender Pump

IDEAL FOR  
• Deep Sumps  
• High speed irrigation pump  
• Green water with solids

##### Horizontal Pump

IDEAL FOR  
• Flood feed applications  
• Transfer pump  
• Green water with solids

##### Vertical Pump

IDEAL FOR  
• Floating Frames  
• Transfer pump  
• Green water with solids

##### Extender Pump

IDEAL FOR  
• Deep Sumps  
• Transfer pump  
• Green water with solids

##### Trough Pump

IDEAL FOR  
• Emptying of troughs  
• Water with solids

### EFFLUENT PUMPS

#### FOR VOLUME TRANSFER



##### High Volume Pump

IDEAL FOR  
• Volume transfer  
• Green water with solids

##### Heavy Duty Pump

IDEAL FOR  
• Volume transfer  
• Liquid with solids  
• Industrial applications

##### PTO Pump

IDEAL FOR  
• Volume transfer  
• Green water with solids

#### SUBMERSIBLE



##### Submersible Pump

IDEAL FOR  
• Feeding mechanical separators  
• Transfer pump  
• Green water with solids

### STIRRERS

#### FOR PONDS, SUMPS OR TANKS



##### Vertical Stirrer

IDEAL FOR  
• Floating Frame mounting  
• Smaller ponds or round tanks

##### Right Angle Stirrer

IDEAL FOR  
• Floating Frame mounting  
• Large ponds  
• Strong agitation

##### Shore Mounted Stirrer

IDEAL FOR  
• Shore Mounting  
• Large ponds  
• Safe access

#### SUBMERSIBLE



##### Submersible Stirrer

IDEAL FOR  
• Small sumps or tanks  
• Easy access when fitted with a Yardmaster lifting frame

### SEPARATORS



##### Inclined Screw Separator (YS)

IDEAL FOR  
• Entry level separator  
• Easiest installation in existing effluent systems  
• Handles most duties  
• May be used as primary separator

##### Horizontal Screw Separator (HSS)

IDEAL FOR  
• All effluent ponds  
• Driest solids  
• Can be used as a primary separator

##### Rotary Drum Separator (RDS)

IDEAL FOR  
• Low power requirements  
• Moderate dry solids  
• Low wear & maintenance

##### Static Screen Separator (SS)

IDEAL FOR  
• No power  
• No moving parts  
• Can be used as primary separator

### EFFLUENT MANAGEMENT



##### Yardmaster HALO SUPERSMART Monitoring & Control

IDEAL FOR  
• Flow control for varying applications  
• Control of irrigation rates  
• Control by cell phone  
• Flow protection

### ACCESSORIES



INCLUDING  
• Floating Frames, Lifting Frames & Platforms  
• Trough Pump  
• In-line Cutter & Blades  
• Automatic Greaser  
• Float Control Switch  
• Headworks  
• Wash Down System & MORE

REID & HARRISON  
**Yardmaster®**

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1 Waihou St, Matamata 3440, New Zealand. Ph: 07 888 8224  
[www.yardmaster.co.nz](http://www.yardmaster.co.nz)

# YARDMASTER® SUBMERSIBLE PUMPS

### V-SERIES

### ALPHA SERIES



REID & HARRISON  
**Yardmaster®**





## V SERIES

POWER	DISCHARGE
1.7-3kW	DN80 - DN100

### Application

The V-Series of submersible pumps are ideal for feeding a Yardmaster separator or used as a transfer pump where a high solids loading is present.

### Features

All main components are manufactured from grey cast iron. Two individual mechanical seals. One on the motor side in the oil chamber. The other on the impeller side in contact with the liquid. This along with high quality components, ensures trouble free functioning and reliability of the pump.

### Motor Features

- Squirrel cage motor 2 & 4 poles
- Thermal protection T1 and T2 embedded in the motor winding (to be wired to the three pole contactor in the control panel)
- Class F insulation (155°C)
- IP 68 protection
- The motor is kept cool by the liquid in which it is submerged

### Limits of Use

- Max. permissible liquid temperature: 40°C with pump fully submerged
- Maximum depth of immersion: 20 m
- Permissible pH value: 6-11
- Suitable for liquids with density <1,100 kg/m<sup>3</sup>
- Allowed voltage: 230/400V±5%
- Allowed frequency: 50Hz ±2%



## ALPHA SERIES

POWER	DISCHARGE
0.28 - 2.2kW	G1"1/4 - G2"

### Application

The Alpha series of submersible pumps are ideal for feeding a Yardmaster separator where a moderate solids loading is present along with a lower flow requirement. These pumps are also suitable as an underpass pump.

### Features

All main components are manufactured from grey cast iron. Two individual mechanical seals. One on the motor side in the oil chamber. The other on the impeller side in contact with the liquid. This along with high quality components, ensures trouble free functioning and reliability of the pump.

### Motor Features

- Squirrel cage motor 2 pole
- Thermal protection in the motor winding (only with RAlphaEVO60T and RAlphaPRO55T)
- Class F insulation (155°C)
- IP 68 protection
- The motor is kept cool by the liquid in which it is submerged

### Limits of Use

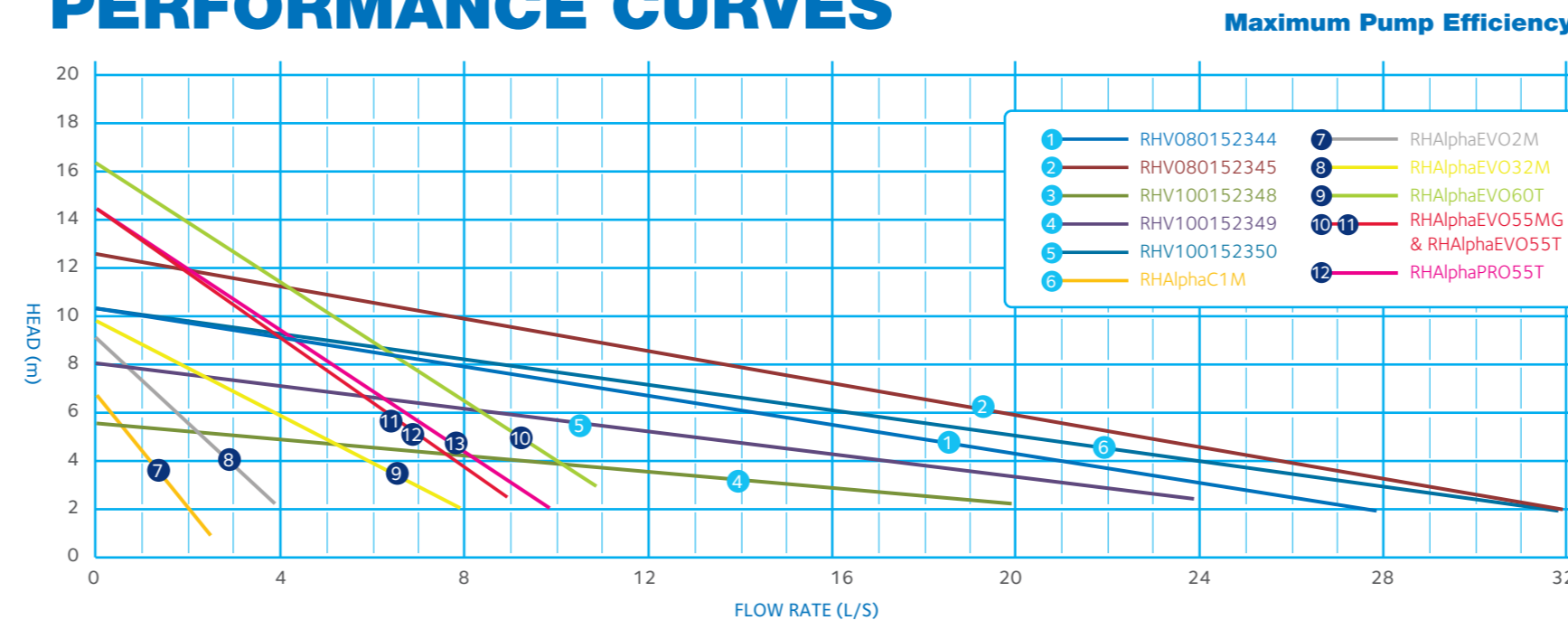
- Max. permissible liquid temperature: 40°C with pump fully submerged
- Maximum depth of immersion: 20m
- Permissible pH value: 6-11
- Suitable for liquids with density <1,100 kg/m<sup>3</sup>
- Allowed voltage: 230/400V±5%
- Allowed frequency: 50Hz ±2%

## SUBMERSIBLE SPECIFICATIONS

No	Pump	Delivery	Free Passage	kW		HP	RPM 1/min	A		Float Switch Optional	Type	Cables		Foot	Weight (kg)	Impeller Ø (mm)	
				P1	P2			3 Phase - 400V	1 Phase - 230V			Cross Section	Length (m)				
1	RHV080152344	DN80 PN16	80mm	2.8	2.2	3	1450				H07RN8F	4x1.5+3x0.5 Ø15	10	RHP5	68	190	
2	RHV080152345			3.8	3	4		7.2							69	207	
4	RHV100152348			2.1	1.7	2.3		3.9							70	155	
5	RHV100152349	DN100 PN16	100mm	2.8	2.2	3		5.2							RHP5	71	190
6	RHV100152350			3.8	3	4		7.2								74	207
7	RAlphaC1M			"G 1"1/4"	0.33	0.28		0.4		1.9						✓	11
8	RAlphaEVO2M	"G 1"1/2"	75mm	0.77	0.56	0.75		4	✓	15.5	96						
9	RAlphaEVO32M	G 2"	50mm	0.95	0.75	1		5.2	✓	16.5	104						
10	RAlphaEVO60T			2.6	2.2	3	2850	5.2		4x1.5+2x0.5 Ø12	26	125					
11	RAlphaEVO55MG			45mm	2.1	1.5	2		9.9	✓	3x1 Ø9	N/A	21	120			
12	RAlphaEVO55T				2.1	1.5	2	3.6			4x1 Ø10		120				
13	RAlphaPRO55T			50mm	1.8	1.5	2	3.7			4x1.5+2x0.5 Ø12	26	110				

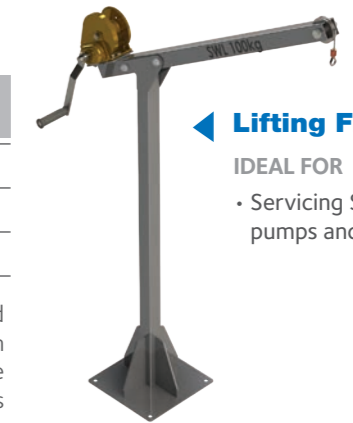
No	Pump	l/s l/m m <sup>3</sup> /h	1 60 3.6	2 120 7.2	4 240 14.4	6 360 21.6	8 480 28.8	12 720 43.2	16 960 57.6	20 1200 72	24 1440 86.4	28 1680 100.8	32 1920 115.2	
1	RHV080152344	Head (m)	10	9.5	9.2	8.5	8	6.8	5.5	4.5	3.2	2		
2	RHV080152345		12.5	12	11.5	10.5	10	8.8	7.5	6.2	4.8	3.5	2	
4	RHV100152348		5.5	5.4	5	4.6	4.2	3.5	3	2.2				
5	RHV100152349		7.7	7.5	7	6.5	6	5	4.5	3.5	2.5			
6	RHV100152350		10	9.3	9	8.8	8.5	7	6	5	4	3	2	
7	RAlphaC1M		4.6	2.2	10									
8	RAlphaEVO2M		8	6	2									
9	RAlphaEVO32M		9.5	8.5	6.5	4.5	2							
10	RAlphaEVO60T		16.5	15.5	13.5	11	8							
11	RAlphaEVO55MG		13.5	12.5	10	7.5	4.2							
12	RAlphaEVO55T		13.5	12.5	10	7.5	4.2							
13	RAlphaPRO55T		13.5	12.5	10.5	8	5.5							

## PERFORMANCE CURVES



### Optional Accessories

Pump	Flanged Hose Connection
RHV080152	RHN2
RHV100152	RHN3
RHA100152	RHN3



### Lifting Frames

- IDEAL FOR
- Servicing Submersible pumps and stirrers



The Foot Stand and Flanged Hose Connection (illustrated) are optional extras

Due to continuous product development, Reid & Harrison reserve the right to change specification without notice. Performance figures are based on average test results from production pumps. Specific performance test curves can be supplied against order

