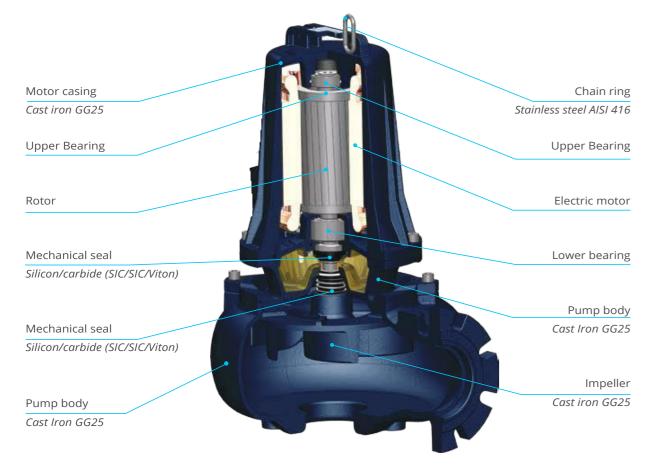
COMPONENTS & MATERIALS



TECHNOLOGY & FEATURES

V-SERIES



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.





Solids Handling

Excellent free passage for up to 50mma solids

Relay (Optional)

For the correct operation of a float switch

Seals



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

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YARDMASTER[®] PRODUCTRANGE

EFFLUENT PUMPS FOR 'PROCESSED' IRRIGATION **Multi-stage** Multi-stage Self-Primin Progressive Cavity (PC) Vertical Horizonta Multi-stag Floating Frames
High efficie /pressure
Green wate Shore Mounting
High efficiency Constant flow High efficiency
Green water / High efficie /pressure Green water small solids /pressure • Green water **EFFLUENT PUMPS** FOR VOLUME TRANSFER SUBMERSIBLE High Volume Pump PTO Pump Heavy Duty Pump Pump IDEAL FC IDEAL FO Volume transfer Green water with solide Feeding mechani transfer
Liquid with solids
Industrial separators • Transfer pump transfer

SEPARATORS



DEAL FOR

Entry level separator

Easiest installation in existing effluent system

dles most duties

May be used as primary



Static Screen Separator (SS) IDEAL FOR

No power
No moving part
Can be used as primary separat

REID & HARRISON" Yardmaster Pumps & Systems

IDEAL FOR

Low power requirements
 Moderate dry solids

Low wear & maintenance



TRANSFER Trough Pump Extender

SUBMERSIBLE

Submersible

Small sumps or

• Easy access when fitted with

a Yardmaster lifting frame

ACCESSORIES

Stirrer

Pump

High spee irrigation or transfe pump

. Green wate

Pump

High speed Irrigation or transfer pump

STIRRERS

FOR TANKS, SUMPS & PONDS

Vertical Stirrer

IDEAL FOR



Right Angle Stirrer IDEAL FOR Large pond



Floating Frames
 High speed Irrigation or transfer pur
 Green water

Shore Mo Stirrer IDEAL FOR Large pond Safe access



EFFLUENT MANAGEMENT



Yardmaster HALO SUPERSMART Monitoring & Control

IDEAL FOR Flow control for varving Control of irrigation ra Control by cell phone



BY REID & HARRISON (1980) Ltd 1 Waihou St, Matamata 3440, New Zealand. Ph: 07 888 8224 www.vardmaster.co.nz

YARDMASTER SUBMERSBL PUMPS

V-SERIES

ALPHA SERIES

REID & HARRISON Yardmaster

REID & HARRISON Yardmaster[®]

Specification Sub_v24b



VSERIES

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/m3
- 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 RHAlphaEVO60T and RHAlphaPRO55T)
- Class F insulation (155°C)
- IP 68 protection
- The motor is kept cool by the liquid in which it is submerged

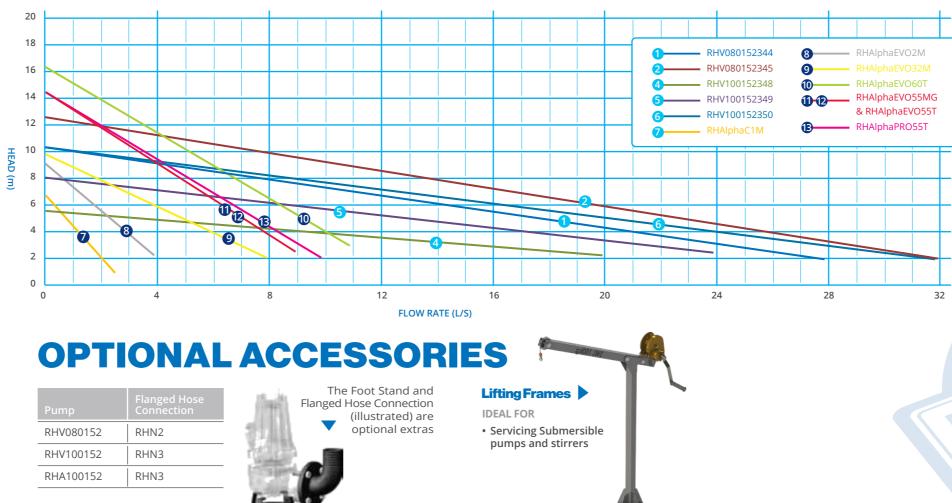
Limits of Use

- 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/m3
- Allowed voltage: 230/400V±5%
- Allowed frequency: 50Hz ±2%

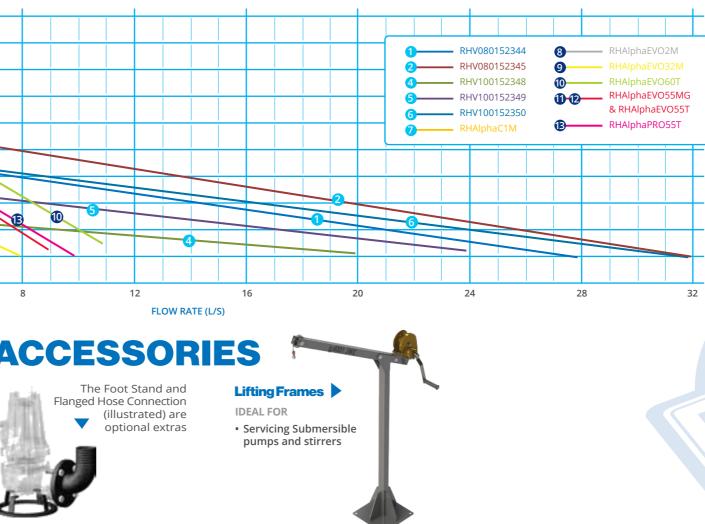
SUBMERSIBLE SPECIFICATIONS

No	Pump	Delivery	Free Passage	kW		НР	RPM A		A	Float Switch		Cables				Impleller	
				P1	P2		1/min	3 Phase - 400V	1 Phase - 230V	Opitional	Туре	Cross Section	Length (m)	Foot	Weight (kg)	Ø (mm)	
1	RHV080152344	DN80 PN16	80mm	2.8	2.2	3	1450	5.2				4x1.5+3x0.5 Ø15	10	RHP5	68	190	
2	RHV080152345			3.8	3	4		7.2							69	207	
4	RHV100152348	DN100 PN16		2.1 1.7	1.7	2.3		3.9						RHP5	70	155	
5	RHV100152349		100mm	2.8	2.2	3		5.2							71	190	
6	RHV100152350			3.8	3	4		7.2							74	207	
7	RHAlphaC1M	"G 1‴1/4"	30mm	0.33	0.28	0.4).4		1.9	1	 H07RN8F 	3x1Ø9			11	90	
8	RHAlphaEVO2M	"G 1‴1/2"	35mm	0.77	0.56	0.75			4	1					15.5	96	
9	RHAlphaEVO32M		40mm	0.95	0.75	1			5.2	1					16.5	104	
10	RHAlphaEVO60T		50mm	2.6	2.2	3	2850	5.2				4x1.5+2x0.5 Ø12		N/A	26	125	
11	RHAlphaEVO55MG	G 2″	G 2″	45mm	2.1	1.5	2	_		9.9	1	į į	3x1 Ø9				120
12	RHAlphaEVO55T			2.1	1.5	2		3.6				4x1 Ø10	ĺ	ĺ	21	120	
13	RHAlphaPRO55T		50mm	1.8	1.5	2	_	3.7			Ì	4x1.5+2x0.5 Ø12			26	110	

PERFORMANCE CURVES



Pump	Flanged Hose Connection
RHV080152	RHN2
RHV100152	RHN3
RHA100152	RHN3



Maximum Pump Efficiency

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

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