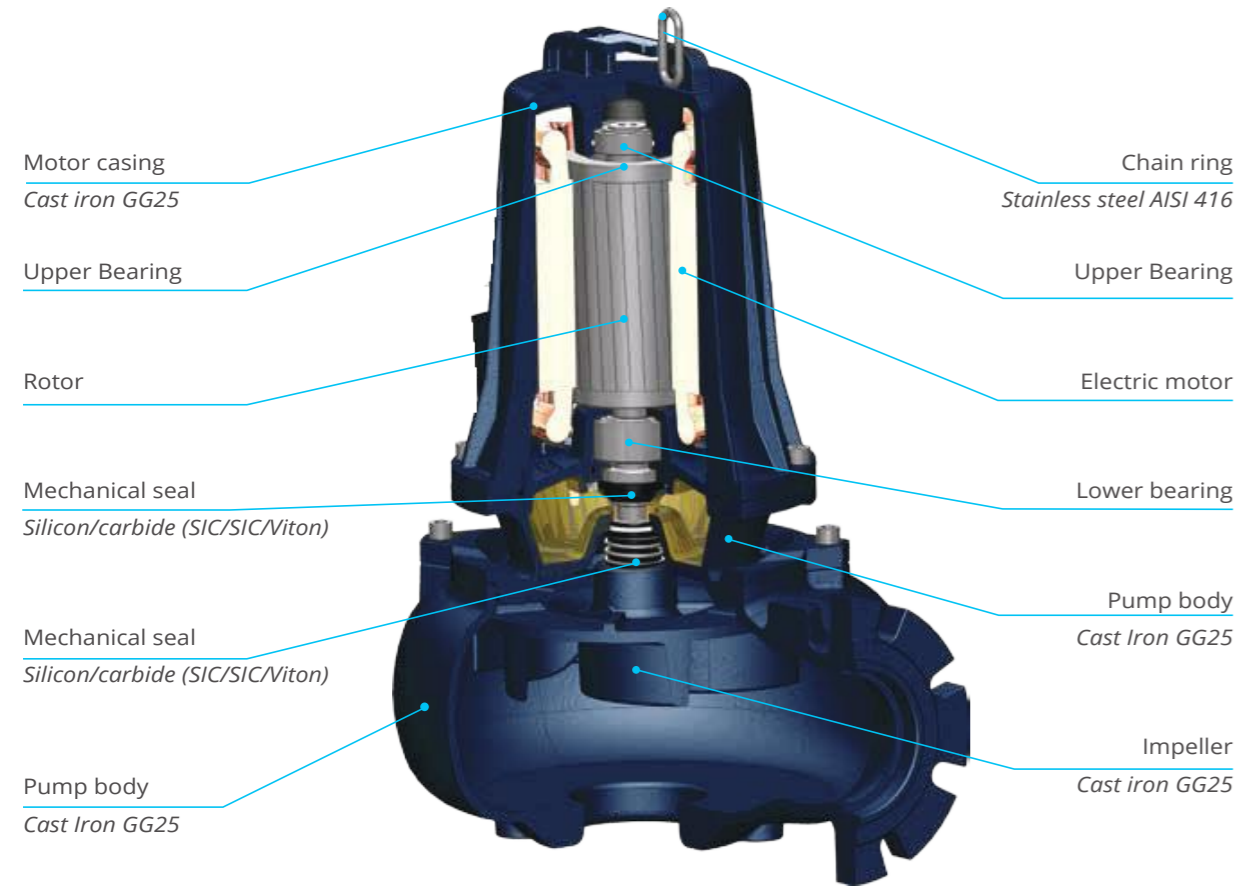


## COMPONENTS & MATERIALS



## 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<sup>®</sup> 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

**Progressive Cavity (PC)**  
IDEAL FOR  
• Constant flow  
• High efficiency  
• Green water / small solids

### FOR IRRIGATION & TRANSFER



**Horizontal Pump**  
IDEAL FOR  
• Flood feed applications  
• High speed Irrigation or transfer pump  
• Green water with solids

**Vertical Pump**  
IDEAL FOR  
• Floating Frames  
• High speed Irrigation or transfer pump  
• Green water with solids

**Extender Pump**  
IDEAL FOR  
• Deep Sumps  
• High speed irrigation or transfer pump  
• Green water with solids

### TRANSFER



**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 TANKS, SUMPS & PONDS



**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

**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  
• Inline Cutter & Blades  
• Automatic Greaser  
• Float Control Switch  
• Headworks  
• Wash Down System & MORE

REID & HARRISON **Yardmaster**<sup>®</sup>  
Pumps & Systems

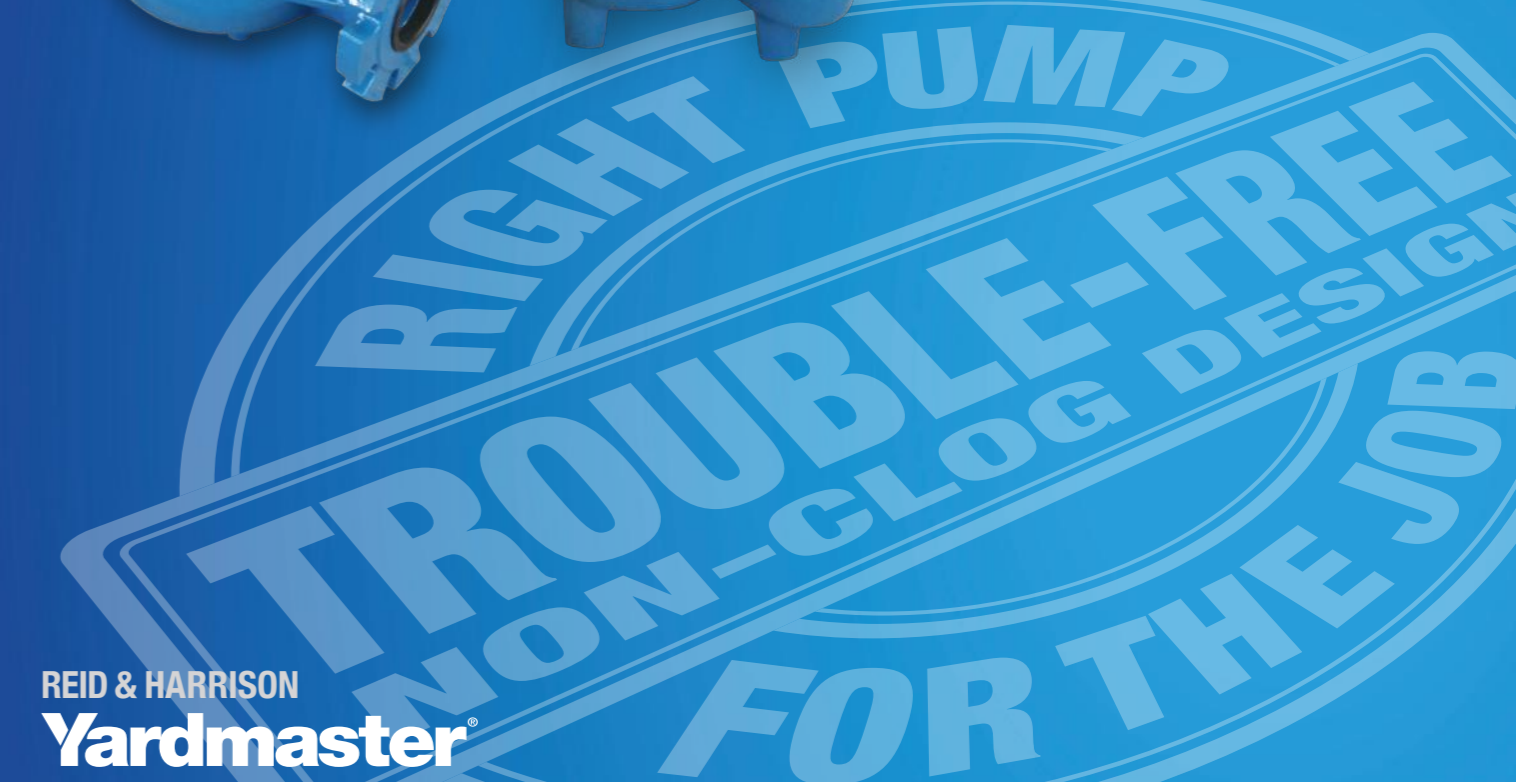
BY REID & HARRISON (1980) Ltd  
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[www.yardmaster.co.nz](http://www.yardmaster.co.nz)

REID & HARRISON  
**Yardmaster**<sup>®</sup>

# YARDMASTER<sup>®</sup> SUBMERSIBLE PUMPS

## V-SERIES

## ALPHA SERIES



Specification Sub\_v24b



## 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/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 RHAAlphaEVO60T and RHAAlphaPRO55T)
- Class F insulation (155°C)
- IP 68 protection
- The motor is kept cool by the liquid in which it is submerged

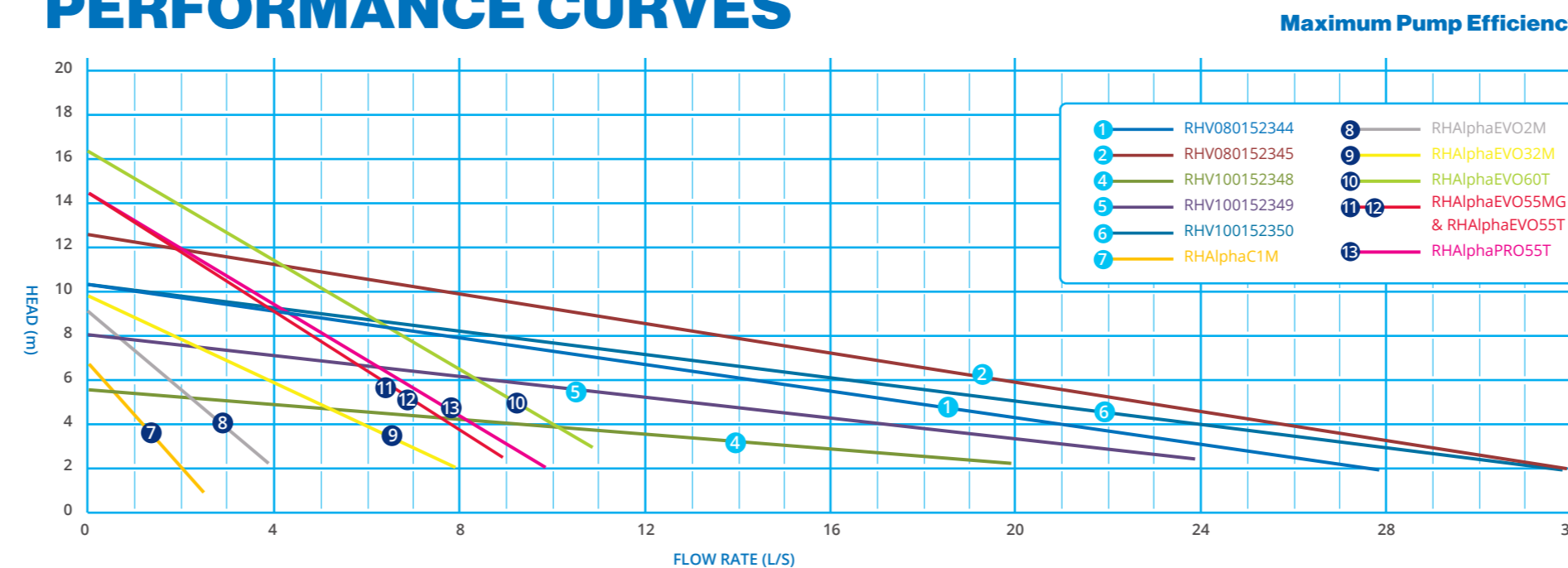
### Limits of Use

- 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        |      | HP   | RPM<br>1/min | A              |                | Float Switch<br>Optional | Type    | Cables          |            | Foot | Weight (kg) | Impeller<br>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    | DN100 PN16 | 100mm        | 2.1       | 1.7  | 2.3  |              |                |                |                          |         |                 |            |      | 3.9         | 70                 | 155    |     |     |
| 5  | RHV100152349    |            |              | 2.8       | 2.2  | 3    |              |                |                |                          |         |                 |            |      | 5.2         | 71                 | 190    |     |     |
| 6  | RHV100152350    |            |              | 3.8       | 3    | 4    |              |                |                |                          |         |                 |            |      | 7.2         | 74                 | 207    |     |     |
| 7  | RHAAlphaC1M     |            |              | "G 1"1/4" | 30mm | 0.33 |              |                |                |                          |         |                 |            |      | 0.28        | 0.4                |        | 1.9 | ✓   |
| 8  | RHAAlphaEVO2M   | "G 1"1/2"  | 35mm         | 0.77      | 0.56 | 0.75 |              | 4              | ✓              | 15.5                     | 96      |                 |            |      |             |                    |        |     |     |
| 9  | RHAAlphaEVO32M  | G 2"       | 40mm         | 0.95      | 0.75 | 1    | 2850         | 5.2            | 5.2            | ✓                        | 3x1Ø9   | N/A             | 16.5       | 104  |             |                    |        |     |     |
| 10 | RHAAlphaEVO60T  |            |              | 50mm      | 2.6  | 2.2  |              |                |                |                          |         |                 | 3          | 5.2  | 26          | 125                |        |     |     |
| 11 | RHAAlphaEVO55MG |            |              | 45mm      | 2.1  | 1.5  |              |                |                |                          |         |                 | 2          |      | 9.9         | ✓                  | 3x1 Ø9 | 21  | 120 |
| 12 | RHAAlphaEVO55T  |            |              | 2.1       | 1.5  | 2    |              |                |                |                          |         |                 |            | 3.6  | 4x1 Ø10     | 120                |        |     |     |
| 13 | RHAAlphaPRO55T  |            |              | 50mm      | 1.8  | 1.5  |              |                |                |                          |         |                 | 2          |      | 3.7         | 4x1.5+2x0.5 Ø12    | 26     | 110 |     |

## PERFORMANCE CURVES



## OPTIONAL ACCESSORIES

| Pump      | Flanged Hose Connection |
|-----------|-------------------------|
| RHV080152 | RHN2                    |
| RHV100152 | RHN3                    |
| RHA100152 | RHN3                    |



### Lifting Frames

- IDEAL FOR
- Servicing Submersible pumps and stirrers

