Intelligent Water Systems for Intelligent Boats

A new innovation in freshwater and waste systems control.
What is Whale IC?

At the heart of every Whale IC product lies innovative electronic control circuitry. This enables IC sensor accessories to communicate directly with IC pumps to control their performance.

Why Whale IC?

Simple, fast, low cost installation every time
- High integrity, pre-wired linked components
- Built in sensors reduce component count
- Marine grade waterproof electric connectors

Longer system life
- Soft start/stop technology
- No mechanical switching
- Less on/off cycling
- No moving parts

Whale’s best boater experience ever
- Peace of mind - Intelligent control monitors variables continuously
- Trouble free operation - Fully integrated and protected circuitry
- Eliminate interference - Low current electronic control
- Quiet System - Innovative control features result in a quiet system
- A new range of pumps, strainers and waste outlets
A new era of fresh and waste water control on board

Whale Intelligent Control

How does Whale IC work?

Intuitive Pumps
No longer just a simple on/off pump control, IC systems monitor relevant aspects of the system.
- Grey IC - Grey IC accessories sense waste levels and communicate with Gulper IC.
- Fresh IC - New freshwater pump monitors back pressure, current and flow.
- Bilge IC - Strainer IC senses water in the bilge and communicates to Gulper IC.

Continuous Monitoring
Pump performance is continually monitored and adjusted depending on demand and supply voltage.

No Interference - EMC compliant.

Reliability
No longer just a simple on/off pump control, IC systems monitor relevant aspects of the system.
- Integrated sensors - no moving parts
- Protected against water ingress - fully potted circuitry
- High integrity - pre wired connection systems
- Marine grade waterproof electric connectors

Low Current Switching
- No need to fit a separate relay

On/Off Delays
- Compensates for wave motion
- No cycling
- Less pump wear

Soft Start/Stop
- Ensures less wear on switches and pumps

Contents

04  GREY  IC  Automatic Grey Waste Systems
06  FRESH  IC  Freshwater Systems
08  BILGE  IC  Automatic Bilge Systems
12  IC Range IC  Overview of IC

Gulper IC
- Solid-state construction
- Proven technology

IC Accessories
- Electric field-effect technology - integrated in all IC accessories
- Utilizes digital switching
- Fully potted to protect against water ingress
- Low power - 16 micro-amp supply

Fresh IC
- Revolutionizes freshwater pump control
- Digital control
- System monitoring
- Prevents rapid cycling without sacrificing flow and performance

Supersub Smart
- Low profile automatic pumps
- Low, narrow design for confined spaces
Automated Grey Waste Systems

Whale Grey IC pump systems have intelligent control electronics built in ensuring that the pump operates only when required.

**Gulper® IC**
High Capacity Waste Pump with Intelligent Control

**Grey IC System Options**

Electrical signals are sent from either the Gulley IC or Two Way Manifold IC only when grey waste water needs to be pumped out.

Intelligent electronic control - built in:
- Automatic control - receives electrical signals to turn on/off as required
- Soft start - protects the pump for long life
- Electronics enable use with lower current switches
- Electronics are all internally housed
- One pump handles waste from multiple drains
- Fast drainage - high capacity up to 19 ltrs/min (5 US gals/min)
- Self primes and runs dry
- Easy to install - including uneven surfaces
- Time delay to allow for optimum drainage
- Override wire included to allow for manual activation

Pre-wired with waterproof electric connectors - prevents damage from capillary action and electrolysis

IC built in intelligent control
Microprocessor electronics sealed for protection against water ingress

Easy connect

No filter to block or clean
Non-choke valves

Typical installation - Gulper® IC used with Gulley IC

Typical installation - Gulper® IC used with Two Way Manifold IC
Grey IC System Options

Option 1
Gulper IC with Gulley IC

Option 2
Gulper IC with Two Way Manifold IC for use with multiple drains

Grey IC Accessories

Gulley IC
Single outlet shower drain gulley
Compact shower gulley with intelligent control built in
Easy clean cover
Sleek Modern design
Large or Small options

Two Way Manifold IC
Manifold to manage waste from multiple drains with intelligent control built in.
Compact automatic system handles waste drainage from two outlets
Allows easy upgrade - compatible with existing grey waste gulleys.
Time delay to allow for optimum drainage.
These connection sizes available to suit all needs.

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NEW Fresh IC
Freshwater pressure pump with automatic intelligent control built in

The new Fresh IC intelligent freshwater pump prevents rapid cycling without sacrificing flow and performance.

Monitors and responds to variations in the whole system:
- Eradicates water cycling and hammering
- Maintains flow in restrictive systems, giving consistent flow even at high back pressure
- Soft start - protects the pump for longer life and eliminates current spikes
- High performance at a range of outlets
- Runs dry without damage
- Eliminates the need for an accumulator tank
- Strainer included
- EMC compliant

Please note: This is not VSD Technology
Fresh revolutionizes pump and system control. Don’t sacrifice flow and performance to prevent hammering. Whale Fresh IC not only monitors pressure, but also energy consumption and flow to provide a stabilized water system.

**FRESH IC - FRESHWATER PRESSURE PUMP**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>FW5082B</th>
<th>FW5084B</th>
<th>FW7582B</th>
<th>FW7584B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>12 V d.c.</td>
<td>24 V d.c.</td>
<td>12 V d.c.</td>
<td>24 V d.c.</td>
</tr>
<tr>
<td>Open Flow Rate</td>
<td>14ltrs (3.8 gals)</td>
<td>14ltrs (4.2 gals)</td>
<td>19ltrs (4.2 gals)</td>
<td>19ltrs (4.2 gals)</td>
</tr>
<tr>
<td>Ingress Protection Rating</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
</tr>
<tr>
<td>Recommended Fuse Size</td>
<td>6 Amp</td>
<td>6 Amp</td>
<td>6 Amp</td>
<td>6 Amp</td>
</tr>
<tr>
<td>Minimum Wire Size</td>
<td>2.5 mm² (13 AWG)</td>
<td>2.5 mm² (13 AWG)</td>
<td>2.5 mm² (13 AWG)</td>
<td>2.5 mm² (13 AWG)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.6 kg (5.7 lbs)</td>
<td>2.6 kg (5.7 lbs)</td>
<td>3.2 kg (7 lbs)</td>
<td>3.2 kg (7 lbs)</td>
</tr>
<tr>
<td>Static System Pressure</td>
<td>2.5 bar (36 psi)</td>
<td>2.5 bar (36 psi)</td>
<td>2.5 bar (36 psi)</td>
<td>2.5 bar (36 psi)</td>
</tr>
<tr>
<td>Maximum Running Pressure</td>
<td>4.3 bar (62 psi)</td>
<td>4.3 bar (62 psi)</td>
<td>4.3 bar (62 psi)</td>
<td>4.3 bar (62 psi)</td>
</tr>
<tr>
<td>Hose Connections</td>
<td>Whale Quick Connect 15mm female. For 1/2” (12.5mm) flexible hose use WX1584 (supplied with pump)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials</td>
<td>Pump Body: Glass-filled polypropylene</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Motor Casing: Powdercoated steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feet, diaphragm &amp; valves: Monoprene®, Santoprene®</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seals: Nitrile</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fasteners: Stainless steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials in Contact with Fluid</td>
<td>Glass-filled polypropylene, Monoprene®, nitrile, stainless steel, Santoprene®</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service Kits</td>
<td>AK1319 - Replacement strainer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: gallons quoted are US gallons.

**Fresh Thinking**

While the marine water system appears to be a simple application, the variety of fixtures and boat to boat variations mean that demands on pumps are extremely high.

A commonly held myth is that a higher capacity pump results in better flow. This ignores a number of important influencing factors such as, high back pressure, number and variety of outlets along with operating conditions.

Until now, typical marine water systems have been controlled by measuring levels in back pressure only. This often results in cycling, hammering, and power spikes.

Whale combats these problems by revolutionizing pump and system control.

Don’t sacrifice flow and performance to prevent hammering. Whale Fresh IC not only monitors back pressure, but also energy consumption and flow, and only turns off when no flow is required. By responding to all these inputs, Fresh IC ensures that high performance is maintained in restrictive systems and at a range of outlets.
NEW Pre-wired Remote Mounted Bilge System
with automatic intelligent control built in

Save time and money by reducing four separate components to one pre-wired system. Remote mounting automatic Gulper IC receives signals from Strainer IC and switches on and off automatically.

Bilge IC
Remote Mount Pump & Strainer with Intelligent Control built in

- Pre-wired and assembled - just connect power
- Remote mounted pump for easy inspection
- Soft start - protects the pump for long life
- Small footprint strainer fits into very confined bilge spaces
- Low current controlled switching - no switch failure from high currents
- On/off delay - prevents cycling
- Environmentally friendly - no mercury
- Time delay to allow for optimum drainage
- Override wire included to allow for manual activation

One pre-wired system
Remote mounting electric bilge pump with intelligent control electronics built in

- Easy inspect & protected - can be mounted up to 4 metres away from bilge area*
- Non-choke valves - no filter to block/clean
- Easy to install - including uneven surfaces
- Secure fit - new wrap around mounting feature
- Self primes and runs dry

Strainer with integrated electronic sensor (IC)

- 3 products in one: Strainer, non return valve & electronic control switch
- Fits in confined bilge spaces
- Fit and forget - no maintenance

GULPER®IC - EASY ACCESS REMOTE MOUNTING BILGE PUMP

<table>
<thead>
<tr>
<th>Product code</th>
<th>Voltage</th>
<th>Voltage Range</th>
<th>Recommended Fuse Size</th>
<th>Minimum wire size</th>
<th>Cable Length</th>
<th>Current Profile</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI8222B</td>
<td>12 V d.c.</td>
<td>10 V to 13.6 V</td>
<td>10 Amp</td>
<td>1.5 mm² (14-AWG)</td>
<td>2m (6ft)</td>
<td>Soft start/stop</td>
<td>1.6kg (3.5lbs)</td>
</tr>
<tr>
<td>SI8224B</td>
<td>12 V d.c.</td>
<td>10 V to 13.6 V</td>
<td>10 Amp</td>
<td>1.5 mm² (14-AWG)</td>
<td>4m (12ft)</td>
<td>Low power</td>
<td>3.0kg (6.6lbs)</td>
</tr>
<tr>
<td>SI8422B</td>
<td>24 V d.c.</td>
<td>21.6 V to 27.2 V</td>
<td>5 Amp</td>
<td>1.5 mm² (16-AWG)</td>
<td>2m (6ft)</td>
<td>Soft start/stop</td>
<td>2.5kg (5.5lbs)</td>
</tr>
<tr>
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<td>24 V d.c.</td>
<td>21.6 V to 27.2 V</td>
<td>5 Amp</td>
<td>1.5 mm² (16-AWG)</td>
<td>4m (12ft)</td>
<td>Low power</td>
<td>4.0kg (8.8lbs)</td>
</tr>
</tbody>
</table>

Performance Data

- Suction Lift: 0m (0ft)
- Discharge Head: 1m (3ft)
- Hose Size: 3/4" (19mm)
- Flow Rate/minute**: 300 GPH

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Certifications and Standards
Conforms to ISO 8849 and ISO 15083. Ignition protected per ABYC and USCG standards.

Notes:
*Please Note: Maximum vertical lift not more than 3m (10ft)
**Note - gallons quoted are US gallons
Supersub Smart Family

New higher capacity models with intelligent control built in
Low profile automatic bilge pump senses bilge water level and switches on and off automatically

Fits deep down in small bilge spaces or under engines.

Supersub Smart Family - 650/1100/1500
Narrow Low Profile Automatic Bilge Pump with Intelligent Control built in

- Fully automatic bilge water removal
- No separate bilge switch required - water proof electronics
- Protected against capillary action water ingress
- Extra long caulked tinned electric wires
- Automatically controlled patented electric field sensor
  automatically detects water level
- Quick and easy installation
- Unaffected by wave motion
- Environmentally friendly - mercury free
- Includes manual override facility
- Solid State switching - no moving parts

Intelligent Control
Built in

Integrated electronics
- Fully potted for protection against water ingress

Vertical / horizontal installation
19mm(3/4'') outlet port for Supersub Smart 650
25mm(1'') / 28mm(1 1/8'') stepped outlet port for Supersub Smart 1100 / 1500

Ease of installation - rotating head and ports

AWARD WINNING DESIGN

Qualtec award - Menzione Speciale 2009
NMMA Innovation Award - Honourable Mention 2009
Sailing Today - Editor's Choice August 2009

Intelligent Control
Built in

Integrated Bleed Ball
Prevents Airlocks

Easy Install Multi-position pump head and body

Easy Clean - unique strainer easy to remove for cleaning

Extra long caulked tinned electrical wires
Bilge

- No separate bilge switch required
- Low, narrow design for confined spaces
- 650, 1100 and 1500 flow capacity models

Typical installation in confined spaces

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Open Flow Rate (per hour)</th>
<th>Flow Rate @ 1m Head</th>
<th>Nominal Voltage</th>
<th>Current Draw</th>
<th>Recommended Fuse Size</th>
<th>Wire Size (Caulked Wire)</th>
<th>Weight</th>
<th>Maximum Discharge Head</th>
<th>Hose Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS5212B</td>
<td>650 Gals* (40 ltrs/min)</td>
<td>550 Gals* (34 ltrs/min)</td>
<td>12 V d.c.</td>
<td>3.4 Amps</td>
<td>7 Amp automotive</td>
<td>0.326 kg (0.71 lb)</td>
<td>0.326 kg (0.71 lb)</td>
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<td>0.326 kg (0.71 lb)</td>
</tr>
<tr>
<td>SS1212B</td>
<td>1100 Gals* (69 ltrs/min)</td>
<td>710 Gals* (45 ltrs/min)</td>
<td>12 V d.c.</td>
<td>4.3 Amps</td>
<td>7 Amp automotive</td>
<td>0.45 kg (0.99 lb)</td>
<td>0.45 kg (0.99 lb)</td>
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<td>710 Gals* (45 ltrs/min)</td>
<td>24 V d.c.</td>
<td>2.2 Amps</td>
<td>7 Amp automotive</td>
<td>0.45 kg (0.99 lb)</td>
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<tr>
<td>SS9212B</td>
<td>1500 Gals* (95 ltrs/min)</td>
<td>1200 Gals* (76 ltrs/min)</td>
<td>12 V d.c.</td>
<td>8 Amps</td>
<td>10 Amp automotive</td>
<td>0.45 kg (0.99 lb)</td>
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<tr>
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<td>1500 Gals* (95 ltrs/min)</td>
<td>1200 Gals* (76 ltrs/min)</td>
<td>24 V d.c.</td>
<td>4 Amps</td>
<td>10 Amp automotive</td>
<td>0.45 kg (0.99 lb)</td>
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Materials:

*Note - gallons quoted are US gallons per hour

Certifications and Standards
Conforms to ISO 8849 and ISO 15083. Ignition protected per ABYC and USCG standards.
CE certified Directive 89/336/EEC. NMMA type accepted.
Intelligent Control Overview
Summary of product numbers and technical information

**Grey**

**Gulper® IC**
High Capacity Grey Waste Pump with intelligent control links via one-click Deutsch® Connectors to other grey waste accessories.

- **BP2082B** 12V d.c.
- **BP2084B** 24V d.c.

**Small Gulley IC**
Gulley for one waste input with intelligent control built in. Also available in chrome.

- **SG3482B** 2m(6ft) cable
- **SG3484B** 4m(12ft) cable

**Large Gulley IC**
Gulley for one waste input with intelligent control built in.

- **SG1982B** 2m(6ft) cable
- **SG1984B** 4m(12ft) cable

**Two Way Manifold IC**
Manifold unit for two waste inputs with intelligent control built in.

- **WM1982B** 2m(6ft) cable 19mm ports
- **WM1984B** 4m(12ft) cable 19mm ports
- **WM2582B** 2m(6ft) cable 25mm ports
- **WM2584B** 4m(12ft) cable 25mm ports
- **WM3882B** 2m(6ft) cable 38mm ports
- **WM3884B** 4m(12ft) cable 38mm ports
Range

Bilge

Gulper® IC
Remote mounting bilge pump with intelligent control, low voltage switching - no burn outs/interference. Performance meets ISO15083.

<table>
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<th>Model</th>
<th>Voltage</th>
<th>Cable Length</th>
<th>Connections</th>
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<tr>
<td>SI8222B</td>
<td>12 V d.c.</td>
<td>2m</td>
<td>18mm (3/4”)</td>
</tr>
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<td>2m</td>
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</tr>
<tr>
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<td>4m</td>
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Strainer IC
Strainer with intelligent control built in. Electronic sensors to automatically control bilge water level - pre wired connection to Gulper® IC. Fits in confined spaces. Strainer, non-return valve and electronic control in one product.
**Intelligent Control Overview**

Summary of product numbers and technical information

**Fresh IC**

NEW freshwater pressure pump with intelligent control built in.

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<tr>
<th>Model</th>
<th>Voltage</th>
<th>Flow Rate</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW5082B</td>
<td>12V d.c.</td>
<td>14 ltrs</td>
<td>(3.8 US GPH)</td>
</tr>
<tr>
<td>FW5084B</td>
<td>24V d.c.</td>
<td>14 ltrs</td>
<td>(3.8 US GPH)</td>
</tr>
<tr>
<td>FW7582B</td>
<td>12V d.c.</td>
<td>19 ltrs</td>
<td>(4.2 US GPH)</td>
</tr>
<tr>
<td>FW7584B</td>
<td>24V d.c.</td>
<td>19 ltrs</td>
<td>(4.2 US GPH)</td>
</tr>
</tbody>
</table>

- Eradicate water cycling and hammering
- Maintains performance and pressure throughout the system
- Runs dry without damage
- Consistent flow even at high back pressure
- Eliminates the need for an accumulator tank
Bilge

**Supersub Smart**
Automatic low profile narrow bilge pump with intelligent control built in - ideal to fit in confined spaces in the bilge or under engines.

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Flow Rate</th>
<th>Outlet Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS5212B</td>
<td>12V d.c.</td>
<td>650 US GPH (40 ltrs/min)</td>
<td>212mm (8 3/4&quot;)</td>
</tr>
<tr>
<td>SS1212B</td>
<td>12V d.c.</td>
<td>1100 US GPH (69 ltrs/min)</td>
<td>133mm (5 1/8&quot;)</td>
</tr>
<tr>
<td>SS1224B</td>
<td>24V d.c.</td>
<td>1100 US GPH (69 ltrs/min)</td>
<td>133mm (5 1/8&quot;)</td>
</tr>
<tr>
<td>SS9212B</td>
<td>12V d.c.</td>
<td>1500 US GPH (95 ltrs/min)</td>
<td>239mm (9 1/4&quot;)</td>
</tr>
<tr>
<td>SS9224B</td>
<td>24V d.c.</td>
<td>1500 US GPH (95 ltrs/min)</td>
<td>239mm (9 1/4&quot;)</td>
</tr>
</tbody>
</table>
Intelligent Control Retail Range

Whale’s best boater experience ever • Peace of mind • Intelligent control monitors variables continually
• Trouble free operation • Fully integrated and protected circuitry • Eliminate interference
• Low current electronic control • Quiet System • Innovative control features result in quiet system

Grey & Bilge Kit

Bilge IC Retail Kit
Remote mounted bilge IC kit with automatic intelligent control built in.

SI8284
12V d.c.

SI8484
24V d.c.

Includes Gulper®IC and Strainer IC with 4m (12ft) of cable

Grey IC Retail Kit
High capacity grey waste management system with automatic intelligent control built in.

WM8284
12V d.c.

WM8484
24V d.c.

Includes Gulper®IC and 1” Two Way Manifold IC with 4m (12ft) of cable

Grey IC Retail Kit

SG8284
12 V d.c.

SG8484
24V d.c.

Includes Gulper®IC and Small Gulley IC with 4m of cable
Retail Range

Fresh IC Retail
NEW freshwater pressure pump with intelligent control built in.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Voltage</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW5082</td>
<td>DC</td>
<td>12V</td>
<td>14 ltrs/min (3.8 US GPH)</td>
</tr>
<tr>
<td>FW5084</td>
<td>DC</td>
<td>24V</td>
<td>14 ltrs/min (3.8 US GPH)</td>
</tr>
</tbody>
</table>

Supersub Smart Retail Automatic Bilge Pumps
Automatic low profile narrow bilge pump with intelligent control built in - ideal to fit in confined spaces.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Voltage</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS5212</td>
<td>DC</td>
<td>12V</td>
<td>650 US GPH (40 ltrs/min)</td>
</tr>
<tr>
<td>SS1212</td>
<td>DC</td>
<td>12V</td>
<td>1100 US GPH (69 ltrs/min)</td>
</tr>
<tr>
<td>SS1224</td>
<td>DC</td>
<td>24V</td>
<td>1100 US GPH (69 ltrs/min)</td>
</tr>
<tr>
<td>SS9212</td>
<td>DC</td>
<td>12V</td>
<td>1500 US GPH (95 ltrs/min)</td>
</tr>
<tr>
<td>SS9224</td>
<td>DC</td>
<td>24V</td>
<td>1500 US GPH (95 ltrs/min)</td>
</tr>
</tbody>
</table>
In 2010, Whale marked 200 years since the company’s origins.

Since the 1940s, Whale has pioneered a stream of revolutionary innovations.

- World leading manual bilge pump designs
- The marine world’s first all plastic Quick Connect plumbing system
- Market leading Gulper non-clog waste pumps. The first specifically designed filter-free shower waste pumps featuring twin-outlet valve technology
- First low profile horizontal automatic bilge pump designed for confined bilge space.
- Whale’s most recent innovation - Whale Twist® Deck Shower with a unique handset with integrated flow and temperature controls, and easy to install housing options (7 international patents and design registrations).
- Award winning design: DAME AWARD Shortlisted Overall winner IDI Institute of Designers in Ireland Innovation Design Award.
- Whale IC - Intelligent control on board. Whale now introduces a new standard for freshwater, bilge and waste systems with our new IC range. New integrated electronics link pumps, strainers, and waste outlets for automatic control.
All Whale products are rated and appropriate for use with water unless otherwise specified. Compatibility and suitability for other liquids should be verified prior to such use. All specification information on products included in this literature is based on tests using clean cold water unless otherwise specified. The performance / specification figures shown have been calculated using standard testing procedures. Where maximum output is stated, such maximum output refers to pumps acting at zero lift and zero head. Actual performance may vary depending on the application, installation and environmental factors.

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Whale Support

Proud to design and manufacture in the UK. Whale is an internationally recognized ISO certified company and supplies major boat builders throughout the world.

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