

## The Low Profile Automatic Bilge Pump

new 2009

SWIB

**Electric Field  
Sensor Technology**

### The low profile automatic bilge pump

- Fully automatic bilge water removal
- Market leading flow rate

### Quick and Easy Installation

**Unaffected by wave motion**

**Environmentally friendly - mercury free**

**Includes manual override facility**

**Solid state switching - No moving parts**

#### Whale Water Systems

Old Belfast Road, Bangor, BT19 1LT, N.Ireland.  
tel: +44 (0)28 9127 0531 fax: +44 (0)28 9146 6421  
whalepumps.com info@whalepumps.com

#### Whale Water Systems Inc

PO Box 1788, 91 Manchester Valley Road,  
Manchester Center, VT 05255, USA.  
tel: +1 802 367 1091 fax: +1 802 367 1095  
whalepumps.com usasales@whalepumps.com

Whale's policy is one of continuous improvement and we reserve the right to change specifications without prior notice.  
Illustrations are for guidance purposes only

# Supersub Smart650

## The Low Profile Automatic Bilge Pump

## Installation

**new**

### The low profile automatic bilge pump

- Fully automatic bilge water removal
- Market leading flow rate

**NO SEPARATE SWITCH REQUIRED**  
Waterproof protected electronics

**AUTOMATICALLY CONTROLLED**  
Patented electric field sensor automatically detects the water level

**ELECTRIC FIELD SENSOR TECHNOLOGY**

**VERTICAL / HORIZONTAL INSTALLATION**  
19mm (3/4") outlet port

**INTEGRATED BLEED BALL**  
Prevents Airlocks

**EASY CLEAN**  
Unique strainer  
Easy to remove for cleaning

**EASY INSTALL**  
Multi position pump head and body

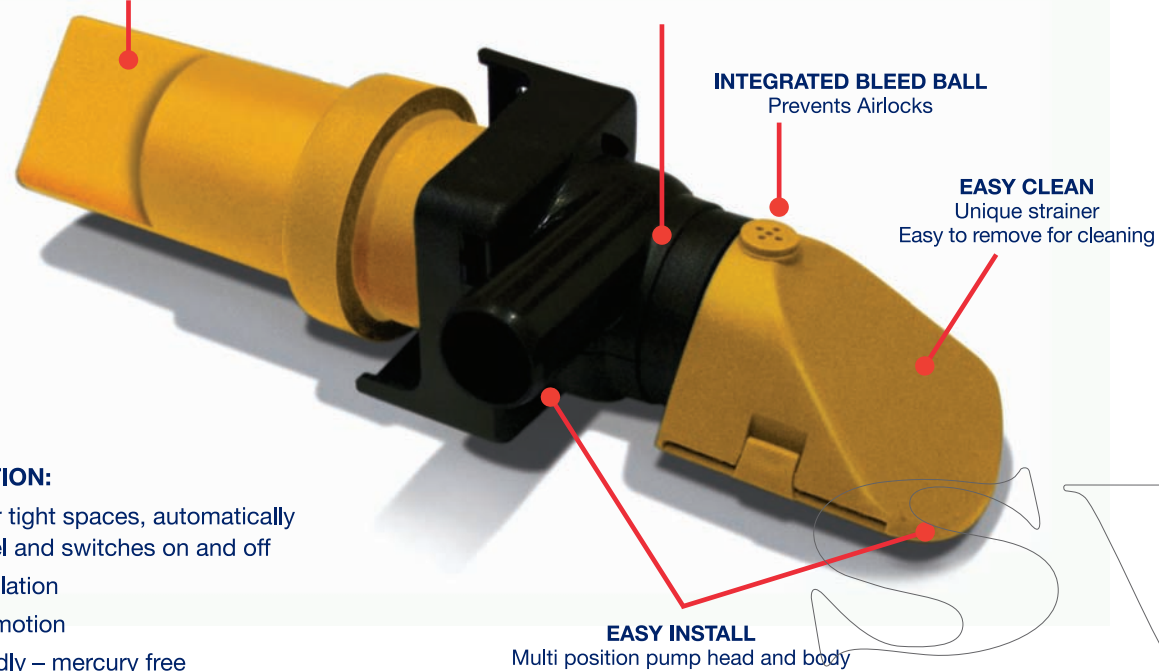
#### PRODUCT DESCRIPTION:

Narrow design ideal for tight spaces, automatically senses bilge water level and switches on and off

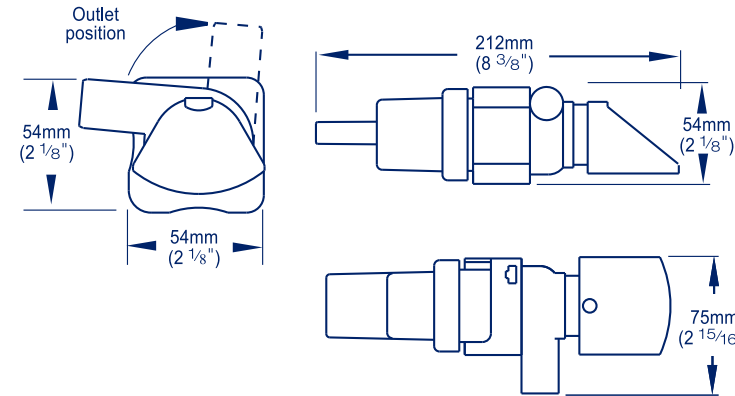
- Quick and easy installation
- Unaffected by wave motion
- Environmentally friendly – mercury free
- Includes manual override facility
- Solid state switching - No moving parts

#### Certifications and Standards

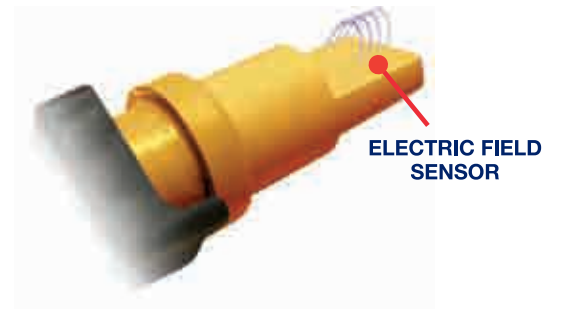
- Conforms to ISO 8849 and ISO 15083
- Ignition protected per ABYC and USCG standards
- CE Certified Directive 89/336/EEC - EMC compliant



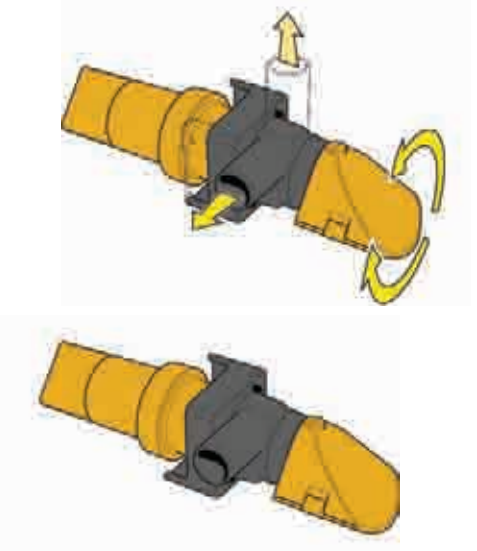
### [2] Low Profile, Narrow Width Design



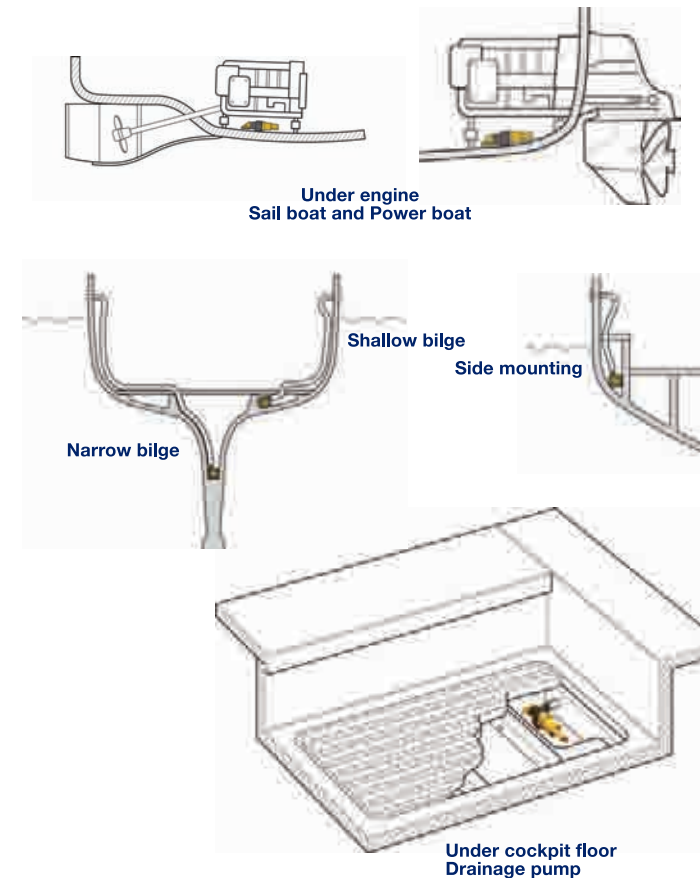
### [1] New Sensor Technology



### [3] Ease of Installation



### [4] Typical Installations

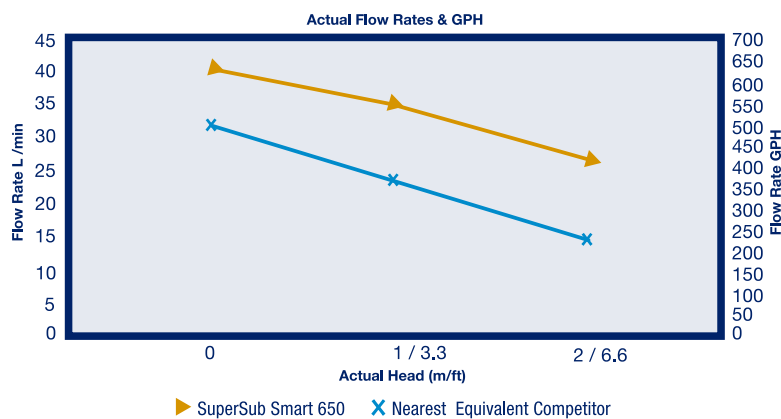


#### PERFORMANCE DATA

Model Size	SuperSub Smart 650 (Actual Head)					
	12			13.6		
Voltage V d.c. (nominal, design)						
Time (mins)	l/min	l/hour	US GPH	l/min	l/hour	US GPH
Flow rate @ open flow	37	2220	600	41	2400	650
Flow rate @ 1m/3.3ft head	30	1800	500	34	2040	550
Flow rate @ 2m/6.6ft head	20	1200	300	24	1440	400
Max Current (Amps)	3	3	3	3.4	3.4	3.4

#### MODEL SPECIFICATIONS

Model	Supersub Smart 650
Product Code	SS5212
Open Flow Rate at 13.6 V d.c.	2400 ltrs per hour (650 US GPH)
Flow Rate at 1m (3ft) head	2040 ltrs per hour (550 US GPH)
Nominal Voltage	12 V d.c.
Current Draw	3.4 amps
Recommended Automotive Fuse	5 Amp
Weight	0.326 kg. (0.71 lbs)
Hose Connection	19mm (3/4")
Wire Size	1.5 mm (16 AWG) Caulked Wire
Materials	Pump Body - Polypropylene. High temperature ABS, Fully potted circuitry. Locking Ring - Acetal. Impeller - Glass filled PBT. Seals - Nitrile. Fasteners - Stainless Steel.
Maximum Head Discharge	3 m (9.8ft)
Max. Overall Height	75mm (2 15/16")
Max. Overall Width	54mm (2 1/8")
Overall Length	212mm (8 3/8")



### [5] Maintenance Instructions

**EASY CLEAN**  
Unique strainer - easy to remove for cleaning

