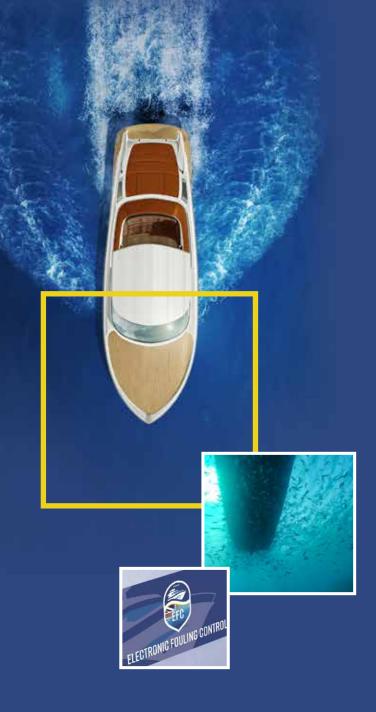


## **ELECTRONIC FOULING CONTROL**

## **Product Kits**





## How it works

EFC uses pulses of Ultrasonic frequencies to deter micro organisms from attaching themselves to your motor boat or sail boats hull. The removal of these micro organisms is important in the antifouling process as their presence create a habitat / food source for larger aquatic organisms such as barnacles.

The Ultrasonic frequencies are delivered to the boats hull through a series of transducers that are attached to the inside of the bilge area meaning no through hull drilling is required.

The transducers are then connected to a control unit that is intelligently controlled to ensure the optimum power (12v/24v or 110V - 240V) is supplied for maximum cleaning efficiency.

The pulsing of the transducers creates areas of negative and positive pressure resulting in micro jets surrounding the boats hull leading to the destruction of the single cell micro organisms (Algae). This pulsing effectively creates an invisible shield around the boats hull protecting it from these micro organisms commonly referred to as Bio-foul. This Bio-foul is the first stage in the overall marine food chain and the removal of such Bio-foul results in the removal of the food source for larger aquatic wildlife such as barnacles.

The ultra high frequencies are not harmful to humans, fish, plant life or any other marine based life forms.

UK Designed, Developed and Manufactured.

Disclaimer

The system does not remove the requirement for boat maintenance and the system has a return to base warranty. Existing antifoul or bottom paint applied will deteriorate over time and repainting may still be required.



#### Includes:

- 1 x Intelligent IP65 Rated Control Unit
- 1 x 50W IP69 Transducers
- 2 Year Return to UK base Warranty

Electronic Fouling Control - EFC100 Installation Kit

- 1 x 6M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors
- 1 x 12v / 24v H05RN Silicon DC Power Cable
- 1 x Araldite Rapid Epoxy Kit
- 1 x Blade Fuse and Holder
- 1 x Installation Manual
- Sandpaper, Gloves, Cables Ties

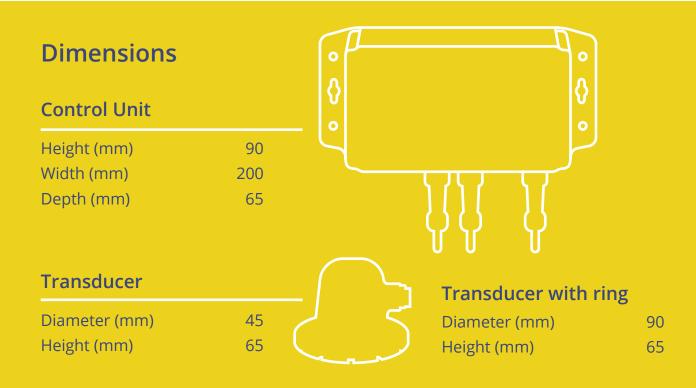
## **£** 1,257.50 + VAT

#### **Optional Solar Kit:**

PV Logic Solar Power
2 x STPVF020 – 20wp solar panel
2 x 4m Cable (attached)
2 x 10A Charge Control
2 x Fuse
12 x Ring Terminals
2 x Simson 70-03 Adhesive
1 x Waterproof Cable feed gland
8 x Stainless steel fixing screws
1 x Instruction Sheet
1 x MPPT Pro Charge Controller

## **£** 358.33 +VAT

Complete Kit Price With All Options:



#### Voltage & Consumption

AC Input N/A DC Input 12-30VC DC Consumption @ 12v DC 0.4 Amps/HR

Certification CE, FCC & ULC

#### **Transducer Output**

#### Power

50W Peak per transducer Frequency auto ranging 20-40Khz

#### **Safety Features**

Internal Temperature Control with auto shutoff Over voltage protection reverse polarity protection Output monitoring IP69 Transducer IP68 Enclosure Marine Grade Silicon H05RN Cabling IP69 rated connectors

#### **System Functions**

Power off on low voltage Over voltage / temperature shut down Individual Transducer output monitoring for over and under current

### **Optional Solar Kit**



#### Includes

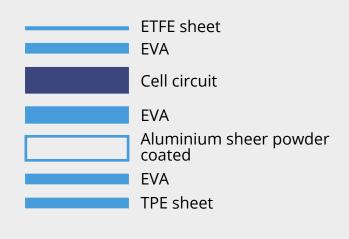
PV Logic Solar Power

- 2 x STPVF020 20wp solar panel
- 2 x 4m Cable (attached)
- 2 x 10A Charge Control
- 2 x Fuse
- 12 x Ring Terminals
- 2 x Simson 70-03 Adhesive
- 1 x Waterproof Cable feed gland
- 8 x Stainless steel fixing screws
- 1 x Instruction Sheet
- 1x MPPT Pro Charge Controller

#### Dimensions

Height	505 (mm)	
	(Junction box 10mm)	
Width	345 (mm)	
Depth	3 (mm)	

#### 7 Layer construction



\*\* Based on 6 hours of average daily peak sunlight hours



#### Includes:

- 1 x Intelligent IP65 Rated Control Unit
- 2 x 50W IP69 Transducers
- 2 Year Return to UK base Warranty

#### Electronic Fouling Control - EFC200 Installation Kit

- 1 x 6M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors
- 1 x 8M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 1 x 12y / 24y H05RN Silicon DC Power
- 1 x 12v / 24v H05RN Silicon DC Power Cable
- 1 x Araldite Rapid Epoxy Kit
- 1 x Blade Fuse and Holder
- 1 x Installation Manual
- Sandpaper, Gloves, Cables Ties

#### **Optional Solar Kit:**

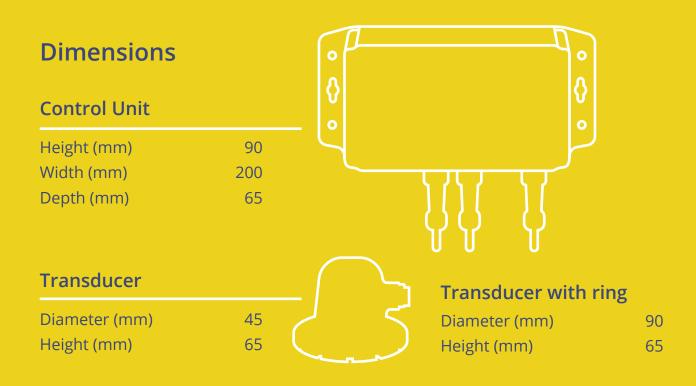
PV Logic Solar Power 2 x STPVF020 – 20wp solar panel 2 x 4m Cable (attached) 2 x 10A Charge Control 2 x Fuse 12 x Ring Terminals 2 x Simson 70-03 Adhesive 1 x Waterproof Cable feed gland 8 x Stainless steel fixing screws 1 x Instruction Sheet 1x MPPT Pro Charge Controller

## **£** 358.33 +VAT

**1,382.50**+VAT

Complete Kit Price With All Options:

£1,740.83 +VAT



#### Voltage & Consumption

AC Input N/A DC Input 12-30VC DC Consumption @ 12v DC 0.4 Amps/HR

Certification CE, FCC & ULC

#### **Transducer Output**

#### Power

50W Peak per transducer Frequency auto ranging 20-40Khz

#### **Safety Features**

Internal Temperature Control with auto shutoff Over voltage protection reverse polarity protection Output monitoring IP69 Transducer IP68 Enclosure Marine Grade Silicon H05RN Cabling IP69 rated connectors

#### **System Functions**

Power off on low voltage Over voltage / temperature shut down Individual Transducer output monitoring for over and under current

### **Optional Solar Kit**



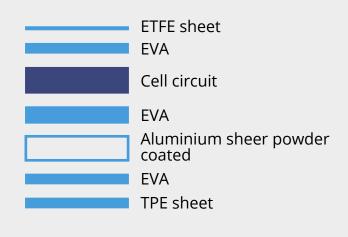
#### Includes

- PV Logic Solar Power
- 2 x STPVF020 20wp solar panel
- 2 x 4m Cable (attached)
- 2 x 10A Charge Control
- 2 x Fuse
- 12 x Ring Terminals
- 2 x Simson 70-03 Adhesive
- 1 x Waterproof Cable feed gland
- 8 x Stainless steel fixing screws
- 1 x Instruction Sheet
- 1x MPPT Pro Charge Controller

#### **Dimensions**

Height	505 (mm)	
	(Junction box 10mm)	
Width	345 (mm)	
Depth	3 (mm)	

#### 7 Layer construction





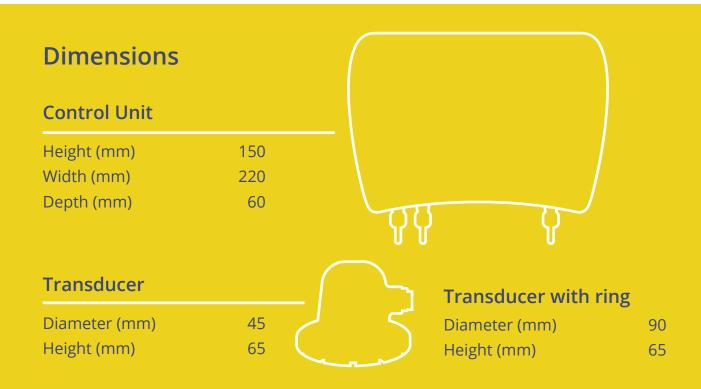
#### Includes:

1 x Intelligent Control Unit 3 x 50W IP69 Transducers 1 x 110-240V AC Power Supply Unit 1 x UK Plug

2 Year Return to UK base Warranty

Electronic Fouling Control - EFC300 Installation Kit 1 x 6M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 2 x 8M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 1 x 12v / 24v H05RN Silicon DC Power Cable 1 x Araldite Rapid Epoxy Kit 1 x Blade Fuse and Holder 1 x Installation Manual Sandpaper, Gloves, Cables ties etc





#### Voltage & Consumption

AC Input 110-240AC 50/60Hz DC Input 12-30VC DC Consumption @ 12v DC 0.4 Amps/HR

Certification CE, FCC & ULC

#### **Transducer Output**

#### Power

50W Peak per transducer Frequency auto ranging 20-40Khz

#### **Safety Features**

Internal Temperature Control with auto shutoff Over voltage protection reverse polarity protection Output monitoring IP69 Transducer IP65 Enclosure Marine Grade Silicon H05RN Cabling IP69 rated connectors

#### **System Functions**

Power off on low voltage Over voltage / temperature shut down Individual Transducer output monitoring for over and under current

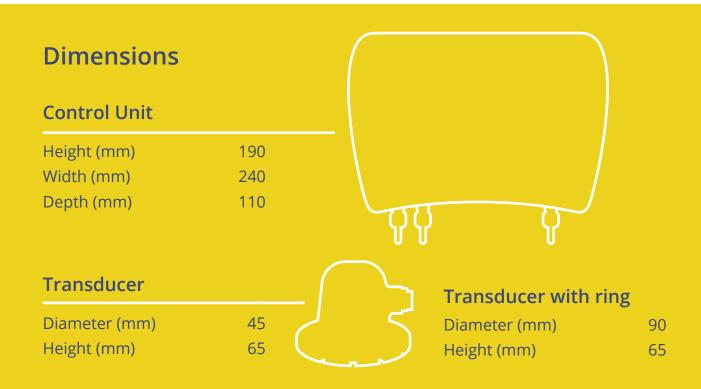


#### Includes:

1 x Intelligent Control Unit
 6 x 50W IP69 Transducers
 1 x 110-240V AC Power Supply Unit
 1 x UK Plug
 2 Year Return to UK base Warranty

Electronic Fouling Control - EFC600 Installation Kit 2 x 6M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 4 x 8M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 2 x 12v / 24v H05RN Silicon DC Power Cable 2 x Araldite Rapid Epoxy Kit 2 x Blade Fuse and Holder 1 x Installation Manual Sandpaper, Gloves, Cables ties etc

£3,505 +VAT



#### Voltage & Consumption

AC Input 110-240AC 50/60Hz DC Input 12-30VC DC Consumption @ 12v DC 0.8 Amps/Hr

Certification CE, FCC & ULC

#### **Transducer Output**

#### Power

50W Peak per transducer Frequency auto ranging 20-40Khz

#### **Safety Features**

Internal Temperature Control with auto shutoff Over voltage protection reverse polarity protection Output monitoring IP69 Transducer IP68 Enclosure Marine Grade Silicon H05RN Cabling IP69 rated connectors

#### **System Functions**

Power off on low voltage Over voltage / temperature shut down Individual Transducer output monitoring for over and under current



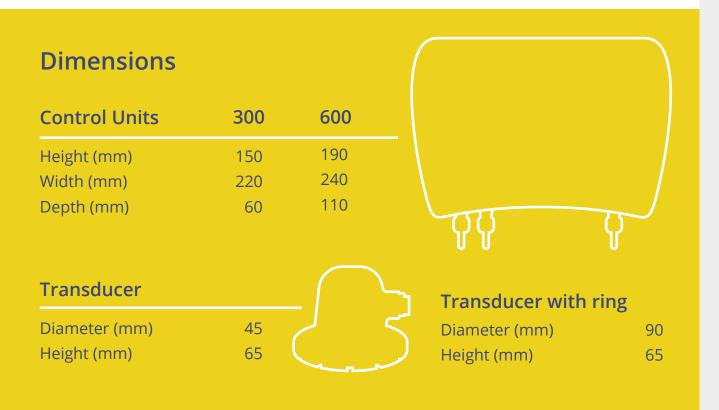
#### Includes:

2 x Intelligent Control Unit 9 x 50W IP69 Transducers 2 x 110-240V AC Power Supply Unit 2 x UK Plugs

2 Year Return to UK base Warranty

Electronic Fouling Control - EFC900 Installation Kit 3 x 6M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 6 x 8M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 2 x 12v / 24v H05RN Silicon DC Power Cable 3 x Araldite Rapid Epoxy Kit 3 x Blade Fuse and Holder 1 x Installation Manual Sandpaper, Gloves, Cables ties etc

## £5,252.50 +VAT



#### Voltage & Consumption

AC Input 110-240AC 50/60Hz DC Input 12-30VC DC Consumption @ 24v DC 0.6 Amps/Hr

Certification CE, FCC & ULC

#### **Transducer Output**

#### Power

50W Peak per transducer Frequency auto ranging 20-40Khz

#### **Safety Features**

Internal Temperature Control with auto shutoff Over voltage protection reverse polarity protection Output monitoring IP69 Transducer IP68 Enclosure IP65 Enclosure Marine Grade Silicon H05RN Cabling IP69 rated connectors

#### **System Functions**

Power off on low voltage Over voltage / temperature shut down Individual Transducer output monitoring for over and under current

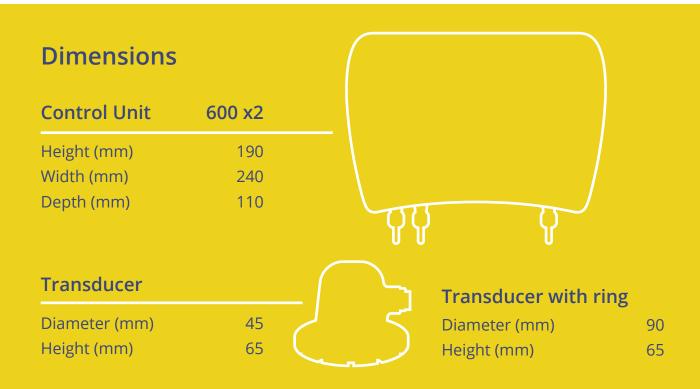


#### Includes:

2 x Intelligent Control Unit 12 x 50W IP69 Transducers 2 x 110-240V AC Power Supply Unit 2 x UK Plugs 2 Year Return to UK base Warranty

Electronic Fouling Control - EFC1200 Installation Kit 4 x 6M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 8 x 8M H05RN Silicon Transducer Cable with IP69 Plug and Play connectors 3 x 12v / 24v H05RN Silicon DC Power Cable 4 x Araldite Rapid Epoxy Kit 3 x Blade Fuse and Holder 1 x Installation Manual Sandpaper, Gloves, Cables ties etc

## £7,000 +VAT



#### Voltage & Consumption

AC Input 110-240AC 50/60Hz DC Input 12-30VC DC Consumption @ 24v DC 0.8 Amps/Hr

Certification CE, FCC & ULC

#### **Transducer Output**

#### Power

50W Peak per transducer Frequency auto ranging 20-40Khz

#### **Safety Features**

Internal Temperature Control with auto shutoff Over voltage protection reverse polarity protection Output monitoring IP69 Transducer IP68 Enclosure Marine Grade Silicon H05RN Cabling IP69 rated connectors

#### **System Functions**

Power off on low voltage Over voltage / temperature shut down Individual Transducer output monitoring for over and under current

# Electronic Fouling Control Boat Size Guide

Boat Size	Туре	<b>Recommended Solution</b>
Less than 10m (32ft)	Boat	EFC200
	Catamaran	2 x EFC200
Potycon 10m to 20m (22ft - 6Eft)	Boat	EFC300
Between 10m to 20m (32ft – 65ft)	Catamaran	2 x EFC300
Greater than 20m (65ft)		Contact us to determine best solution based on individual boat
Commercial Vessels	All	
Sea Chest and Pipes		



## **ELECTRONIC FOULING CONTROL**

www.electronic-fouling-control.com