

# Catalogue Crustea Indonesia



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# Let's Get to Know Crustea Indonesia!





# What's Crustea?

your Hand"

**Crustea Indonesia** is a technology procurement company that focuses on aquaculture sector. We are determined to contribute to creating environmentally friendly IoT-based technology that meets the needs of Indonesian pond farmers to maximize the shrimp pond production as well as increase productivity and efficiency in every shrimp cultivation process.

Moreover, we will continue to develop and provide our best services, which will have a significant impact on pond farmers throughout Indonesia

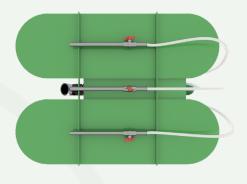
Let's Upgrade your Pond with Crustea!



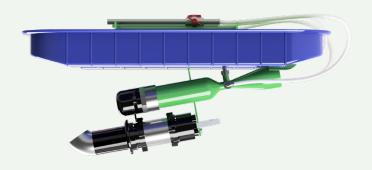


**Eco-Aerator** is the ultimate solution for improving water quality in your ponds. With its advanced technology, Eco-Aerator can supply Dissolved Oxygen (DO) levels that are essential for fish and shrimp farming, resulting in healthier and more

productive aquatic environments. Equipped with an SCC (Solar Charge Controller) and battery, Eco-Aerator stores up energy during the day using solar panels, ensuring that it can keep running efficiently even in low light conditions or at night.







Side View

### **Product Specifications**

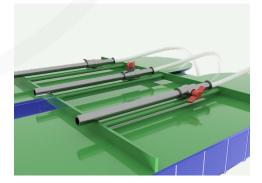


- Motor
   750 watt / 1 HP / 1

   Phase
- Pump Submersible

- Operational Volt
   AC 220V-240V, 50 Hz
- Operating Current4 Ampere
- Maximum
   Reach

±2-3 meter





# The Benefits You Will Get After Using Eco-Aerator

Eco Aerator can increase microbubble levels with higher oxygen levels with operational cost savings of up to 73%



# What Makes Eco-Aerator Different?

Eco-Aerator uses the best environmentally friendly technological innovations. The following is a comparison of the **Eco-Aerator** with other conventional pond aerators.



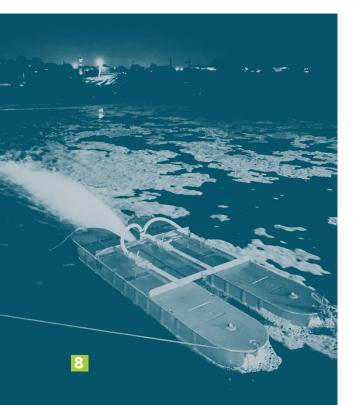








Sunlight
Eco-Friendly
± 5 years
X
Paddle Wheel





#### **Eco-Friendly**

The use of sunlight and batteries as the main source of energy



#### **Smart IoT System**

The convenience of monitoring and controlling pond quality remotely through a website



#### Save Operational Cost up to 73%

Saving operational costs for pond farmers with Eco-Aerator



## Crustea's Solar Panel

**Photovoltaic** is another name for solar cells that convert sunlight into electrical energy. These photovoltaic cells are connected to an inverter which then channels the electricity to the Eco-Aerator.



#### **ELECTRICAL DATA**

CS1U	410MS		
Nominal Max. Power (PMax)	410 WP		
Opt. Operating Voltage (Vmp)	44.5 V		
Opt. Operating Current (Imp)	9.23 A		
Open Circuit Voltage	53.6 V		
Short Cirvuit Current	9.70 A		
<b>Module Efficiency</b>	19.89%		
Operating Temperature	-40°C ∼ +85°C		
Max. System Voltage	1500V or 1000 (IEC/UL)		
Module Fire Performance TYPE 1 (UL 1703) c			
Max. Series Fuse Rating	20 A		
Application Classification	Class A		
Power Tolerance	$0 \sim + 5 W$		

#### MECHANICAL DATA

Specification	Data			
Cell Type	Mono-crystalline			
Dimensions	2078 x 992 x 35 mm			
Weight	23.4 kg			
Front Cover	3.2 mm Tempered Glass			
Frame	Anodized Aluminium Alloy			
J-Box	IP67, 4 bypass diodes			
Cable	-40°C 4.0 mm (IEC), 12 AWG (UL)			
Connector	T4 series			
Per Pallet	30 pieces			
Per Container (40' HQ)	600 pieces			

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# EBII Monitoring & Controlling System

# EBII Monitoring & Controlling System is a

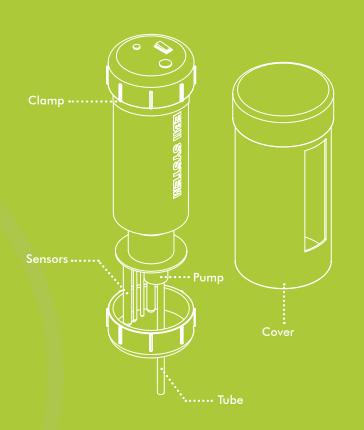
sensor device that has several outstanding sensor features to help pond farmers control the condition of their ponds anytime, anywhere.

With several sensor features that can monitor pH, temperature, salinity, and dissolved oxygen (DO) levels in the pond, which can be connected to the microcontroller system on the Eco Aerator installed in the pond.

Furthermore, the water condition data in the pond can be viewed directly through the Eco Aerator application and website.







# 1 Product, Real Time Reading, 4 Parameters









## Different than Other Water Sensors!

EBII System equipped with 4 crucial parameters that can be directly accessed through the Crustea website. Shrimp farming becomes much easier with Crusteal

PARAMETER	PRECISION	RANGE	ACCURACY	UNIT
DO	0.01 mg/L	0 to 20 mg/L 20 to 0 mg/L	0.1 mg/L	mg/L, % saturation, pm
Salinity	0.1 PSU	0 to 350 ppt	-	ppt, PSU
рН	0.01 pH	0 to 14 pH	0.1 pH	рН
Temperature	0.01 °C	-5 to 50 °C	0.1 °C	Celcius



# Integrated with Eco-Aerator

EBII Monitoring & Controlling System is directly connected to the Eco-Aerator. You can easily monitor your pond through your mobile device.

### **Easy to Calibrate**

The calibration process of the EBII Monitoring & Controlling System is very easy. The calibration steps are listed in the manual book.

### **Robust & Secure Casing**

The durable and rust-resistant casing of EBII extends the lifespan of the product.



## Effective • Easy • Budget-Friendly



Monitor Your Ponds Anytime, Anywhere with Ease!







Smart Energy System

Smart Energy
System is a
technology that aims
to determine the
level of efficiency
and energy savings
generated when
pond farmers apply
Crustea technologies
in their aquaculture
processes.





## **Product Specification**

### **INPUT: 220 V AC** CT: 100 A

Voltage : Volt

Current : Ampere

Power : Watt

: kWh Energy

Power Factor : Cos Phi

: Hz Frequency

Calculation : Rupiah

of Tariffs and

Savings

All of your pond savings data can be directly viewed on the Crustea website!

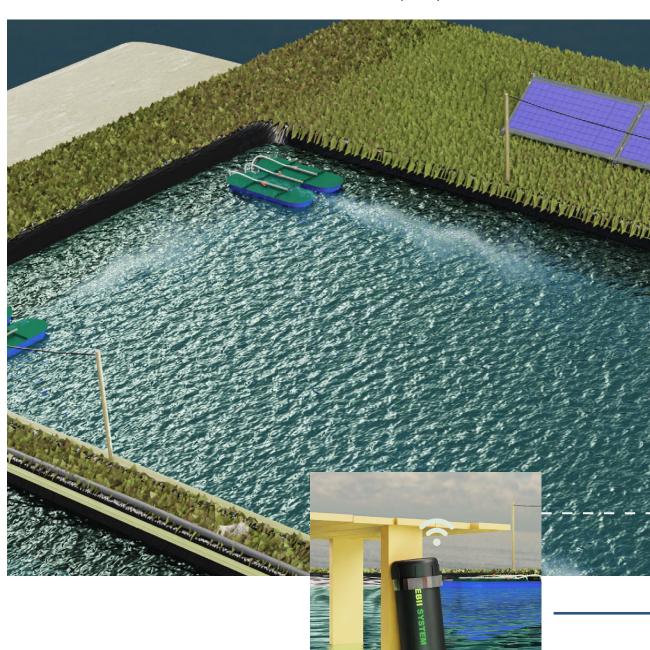






**Control** sends data from EBII System and give feedback that will automatically drive the aerator based on the water quality and indicator that have been set.

**Smart Energy** performs aerator energy loads monitoring in 4 aspects: voltage, power, current, power factor, and frequency.



# How Crustea Technologies Work?









### Crustea Indonesia





