



## Aerators

**Model: PE6PWA120R3P:**



	3 HP 6Paddle		Qty
1	Floats	HDPE	4
2	Motor cover	HDPE	1
3	3 HP Motor	ARDIS	1
4	Gear Box	Bevel Gear	1
5	Impellers	PPCP	6
6	Frame	SS 304/FRP	1
7	Shaft	SS 304	2
8	Shaft Supporter	NYLON	4
9	Joint	Cast iron	2
10	Nuts & Bolts	SS 304	1 set
	Oxygen Transfer rate	4.5 kg/h	
	Power Consumption	3.6 amps	
	Dimensions (L*W*H)	(3.34*1.65*0.915)Meters	

**Ardis Enviro Solutions**



### **Working Principle:**

- High speed working Impellers splash the water into the air, this splashing water mix the oxygen in the air and be brought into the water. The dissolved oxygen in the water increase.
- The working impellers produce waves and currents, which make the saturated ammonia, CO<sub>2</sub>, Methane, Hydrogen, etc. go out of water and Improves the water quality.

### **Features:**

- Our paddle wheel aerator are improved & Produced according to international standards.
- High efficient electric motor with low power consumption and metal gear system. A mechanical seal is available to prevent oil leakage.
- This electric motor works in low and high voltage.
- L angle SS frame holds the aerator very stable & performance is achieved.
- All 'UV Resistance' Plastic parts are used for better life in sunlight also harmless for aqua animals.

All the spare parts are available and can be procured easily.

### **Warranty Terms:**

- **One Year replacement warranty** with respect due to any manufacturing defect on all spares i.e.,
  - ✓ HDPE Floats,
  - ✓ SS304 Frame,
  - ✓ Nylon Shaft Supporters,
  - ✓ SS 304 Solid Rods,
  - ✓ Impellers,
  - ✓ Couplers,
  - ✓ Motor (other than motor winding),
  - ✓ Gear Box and Starter.
- **Warranty Includes on Motor Winding if used with ARDIS starter.**

### **Aerator Motor**

- Single phase and three phase application.
- Product Range is 1 Hp, 2 HP and 3 Hp.
- 'F' Class insulation. High efficiency results in saving of energy bills
- Lower heat generation better heat dissipation.
- Copper wire is used.
- Totally enclosed fan cooled, degree of protection-IP44.
- Double side shield high quality imported bearings for long life

Available 1 ,2 & 3 HP

- One and only Motor comes with 27 Kgs.
- Self Designed Patent Motor.

Input : single & 3 Phase

- **3 HP 6 paddle wheel Aerator: 3.4-3.6 Amps**



### **GEARBOX:**

- Our Bevel gear box comes with 6 ball bearings to achieve higher performance with 120RPM
- On special order we supply: Actual-bevel gears are used instead of worm gears, thereby economizing on energy with high efficiency, and saving over 20% electric energy over traditional models.
- A mechanical seal is available to prevent oil leakage.



## **HIGH PERFORMANCE SINGLE MOULD IMPELLER:**

### **HIGH PERFORMANCE SINGLE MOULD IMPELLER:**

- 304 Bush is used in impeller.
- Toughness against corrosion and sunburn resistance.
- Professional designed paddle and best angle, substantial water splash, strong water current and high Replaceable paddle, lower maintenance cost.
- Raw material Virgin UV protected PPCP.
- SS oxygenation performance.
- Tested @1.5 times of actual working parameter.
- In-house manufacturing facility which achieves high quality in product
- PPCP Wt: 2.2 Kgs ; Nylon wt.3.3 Kgs
- On special order we supply the product with nylon impellers.

**Raw material procured from Reliance-[Reliance Industries Limited](#).**



**HDPE FLOAT:**

- Made of 100% Virgin HDPE material to optimize full ductility.
- Resistant impact, acid-alkalinity and sun exposure
- One piece blow moulded with absolutely no seeping
- Dimension :  
L X B X H : 1700\*330\*210  
Weight : 6 kgs

We have experience of 10 years in blowmolding.

Raw material procured from Reliance-  
[Reliance Industries Limited](#)



**HDPE Motor Cover:**

- Made of 100% Virgin HDPE material to optimize full ductility
- Resistant impact, acid-alkalinity and sun exposure
- One piece blow moulded with absolutely no seeping

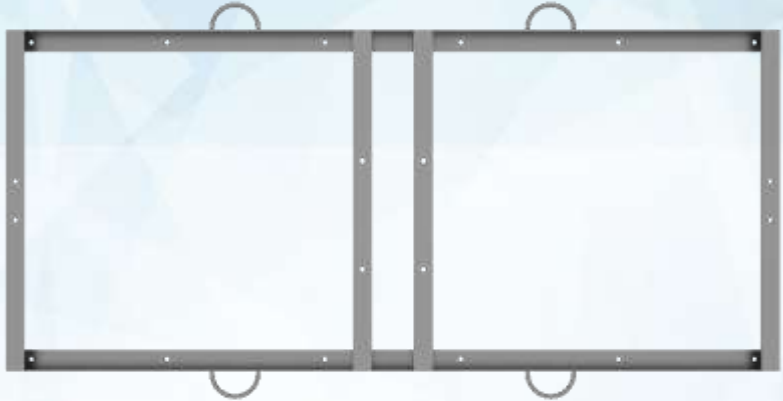
Wt: 2 Kgs

Raw material procured from Reliance-  
[Reliance Industries Limited](#)



**SS L-Angular Frame:**

- Made of 100% SS304 L material .
- Milling and slotting of frame as per our aerator design.
- L material mainly designed for highly salt contained water with rust proof.



**SS Shaft :**

- Made of 100% SS304 Shaft.
- Milling and slotting of shaft as per our aerator design.



### **Shaft Coupler Cast Iron / Nylon:**

- Regular cast iron based coupler are available.
- As cast iron coupler is very weak towards the corrosion, we made of 100% Virgin Nylon material to optimize full ductility.
- No other company in India offer coupler in nylon.
- Resistant impact, acid-alkalinity and sun exposure.

Raw material procured from GUJLON ([Gujarat State Fertilizer & Chemicals Limited](#))



### **Nylon Stand / Shaft supporter:**

- Heavy duty design to long life span & High Durability.
- Designed to be sturdy and without deformation.

Raw material procured from GUJLON ([Gujarat State Fertilizer & Chemicals Limited](#))

Wt. 300 Grams NYLON GLASS FILLED.



### **SS 304 Nuts & bolts:**

- Heavy Duty SS304 Nuts & bolts are supplied.
- Procured from reputed manufacturer in India.

