

# SCUBAMIX<sup>®</sup> Type E

## PLANETARY REDUCER SUBMERSIBLE AGITATOR

- Utilized in wastewater treatment processes involving biomembrane technology
- Built-in high-torque planetary gear reducer
- A streamlined impeller designed to prevent damage to the packing
- The installation inclination angle has been designed for the biomembrane reaction process.



Applications: Water treatment

**MIXING**  
**PLUG FLOW**

### Propeller

- The optimized self-cleaning impeller provides excellent mixing performance.
- High thrust without vibration during operation to guarantee mixing performance.
- Prevent damage to the packing by streamlined design.

### Reducer

- Built-in planetary gear reducer.
- High torque, high efficiency.
- Ensure stable output of the agitator.

### Installation

- Combine the biological membrane reaction process.
- The installation angle options include 15°, 23°, and 30°.

### Self-cleaning ring

- Prevent ingress of solids or fibrous materials to safeguard the mechanical seal.

### Shaft sealing

- Adopt double independent mechanical seals.
- Prevent the ingress of media and solid materials.
- Safeguard the submerged operation of motors and gearboxes.

### Motor

- High efficiency 3-phase Motor with protection degree IP68. Waterproof sealing.
- Dynamic balance check of rotor to ensure the smooth operation. The stator embedded with thermal sensor can timely monitor the running state of the motor.
- Optional explosion-proof motor and high-efficiency permanent magnet version according to requirements.

Type	Φ Propeller [mm]	Output speed [1/min]	Axial thrust [N]	Weight [kg]	Power [kW]	Rate current [A]	Efficiency η [%]	efficiency η (permanent magnet motor) [%]
E1.5-1080-100	1080	100	1860	140	1.5	4.5	72.6	90.2
E3-1080-100	1080	100	2240	160	3	7.8	74.8	89.3
E4-1080-100	1080	100	2870	175	4	10.2	75.3	88.5
E5.5-1080-120	1080	120	3690	215	5.5	13.2	80.1	90.1
E7.5-1080-120	1080	120	4850	220	7.5	17.9	81.4	89.2

(380V,50HZ)