

Submersible Aerators - TRN

TRN-series is a submersible self-aspirating aerator designed specifically for aeration and mixing of wastewater. As it uses negative pressure formed from the special semi-open impeller to draw air from water surface, blowers are not required for these aerators. This air drawn into the TRN also prevents the wastewater from coming into contact with mechanical seal, creating an air cushion and providing seal effect, resulting in prolonged mechanical seal life. The drawn air is mixed with water inside the impeller and guide vanes, which transforms it into tiny bubbles. This mixture of air and water in minute bubble form is then released into the tank from multiple discharges provided around the circumference.



The combined effect of discharged flow and the rise of air in the mixture generate an efficient aeration and agitation inside the tank, culminating in a state of increased dissolved oxygen in the water.

TRN aerators are available in wide range of motor outputs from 0.75kW to 40kW. The standard operable water depth is from 1.5m to 6m. However, Tsurumi has a system of stand and draft tube installation that allows the installation of TRN up to 7.5m. With the provision of stand the self-aspiration depth is maintained at the limit of TRN, and with draft tube (DT) the suction current is created at the floor of the water tank.

