

Malmberg Disc diffuser



Fine bubble aeration for best oxygenation



Smart and efficient construction

Malmberg Membrane disc diffusers are fine-blown to provide very high oxygen yields in relation to air volume. A property that can cut energy costs by half. Minimal clogging risk also results in lower operating costs. Diameter is 520 mm.

The disc body is made of fiberglass reinforced plastic and with a rubber perforated membrane, specially designed to withstand an aggressive environment. All metal parts are made of stainless steel.

Small holes in the rubber membrane produce small bubbles and thus efficient oxygenation.

When the air supply is switched off the rubber membrane flattens flat against the disc body, providing a non-return valve function. In addition there is an additional check valve function at the inlet section. Thus, water cannot enter backwards into the aerator or pipe system. It is of great importance in wastewater treatment plants for biological phosphorus and nitrogen removal where zones should occasionally be aerated.

The high oxygen exchange rate and the minimal risk of clogging are of great importance. The wide working area of the membrane, 1-20 Nm³/h in operation, makes it meet the high demands on variations in the oxygen demand which among other things, nitrogen reduction plants require.

It is a simple design and avoids forked systems, which reduces investment costs while reducing efficiency and reliability significantly reducing operating costs.

