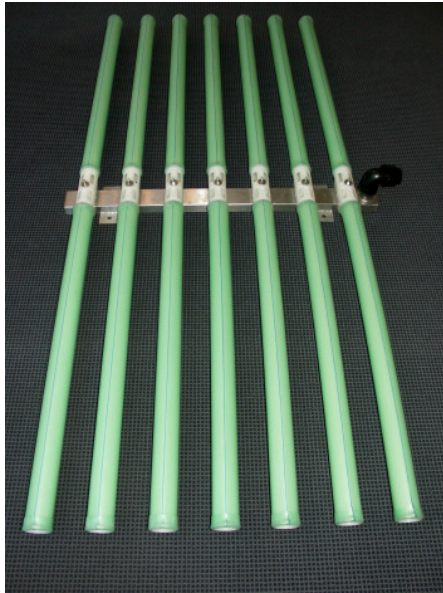


# MAGNUM® AD 2000

## Product Manual



The MAGNUM® AD 2000 is a compact aeration unit based on the approved MAGNUM 2000 diffuser technology. The AD 2000 is a membrane diffuser for fine bubble aeration. It can be operated continuously as well as in on/off mode.

The MAGNUM® AD 2000 can be used in municipal and industrial waste water treatment plants. In addition it is the ideal diffuser for small applications like fish farming basins, ponds or lagoons.

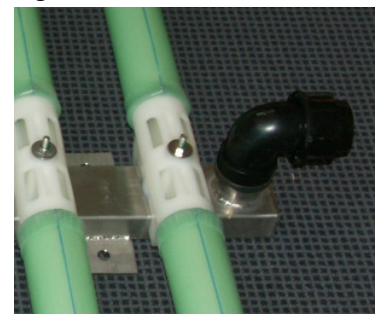
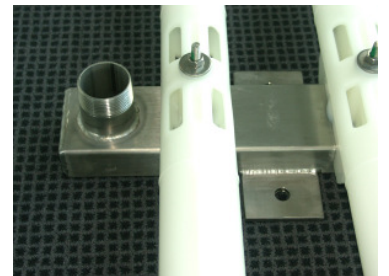
The unit is made of ss 316 Ti (V4A (1.4571)), and Polypropylen. It is equipped with the approved OTT FLEXSIL® membrane.

The MAGNUM® AD 2000 can be connected to pipes and hoses with 1" up to 2.5" adapters.

The compact size of the MAGNUM® AD 2000 provides replacement and upgrade options for aeration systems based on plate diffusers or surface aerators.

The MAGNUM® AD 2000 is available preassembled. It can be installed to the basin ground with 4 anchor bolts. The unit can easily be levelled. A retrievable design is available, too.

OTT provides technical data and individual layout for your design of AD 2000 aeration systems.



## Technical Data

### Size:

length: 2.20 m  
width: 1.20 m  
height: 0.14 m

### Weight:

weight: with 8 Membranes: 15 kg  
weight: with 14 Membranes: 23 kg

### buoyancy in water:

with 8 membranes:  
with 14 membranes

### Materials:

material of header: ss316Ti (1.4571)  
material of membrane supports: PP

### Membranes:

number of membranes: 8 up to 14  
length per membrane: 1060 mm  
active length: 1000 mm  
active area: 1.28 up to 2.24 m<sup>2</sup>

membrane material: OTT FLEXSIL®

### diffuser throughput rate:

with 14 membranes: 0 - 168 sm<sup>3</sup>/hr/unit  
with 8 membranes: 0 - 96 sm<sup>3</sup>/hr/unit

### Oxygen transfer rate and efficiency

SOTR up to 450 gO<sub>2</sub>/hr/m<sup>3</sup><sub>water</sub>  
SOTE up to 12.0 %/m

Achievable SOTRs and SOTE are depending on the actual conditions of the application. OTT provides detailed layouts and designs on request.

### Connection:

pipe adapter material: PE od ss316 Ti  
possible pipe sizes: 1" up to 2.5"

### Fastening and adjustment:

The diffuser provides 4 suspension points. The AD unit can be levelled by using long threaded anchor bolts.

### Packaging:

The AD 2000 consists of 1 header and 4 to 7 membrane diffuser units. Headers and diffusers are packed separately. Up to 20 diffusers are packed in one box.

Size of box:

2250 mm x 410 mm x 370 mm

Weight of box with 20 diffusers: 59 kg

also available

- installation instructions
- operation and maintenance provisions