

STANDARD  
EQUIPMENT



## Maxi-Rotor



Krüger's Maxi-Rotor is fitted with a baffle plate offering maximum oxygen transfer efficiency relative to power consumption.

The rotor can also be equipped with aerosol and noise reduction equipment satisfying stringent working environment standards.

### ADVANTAGES

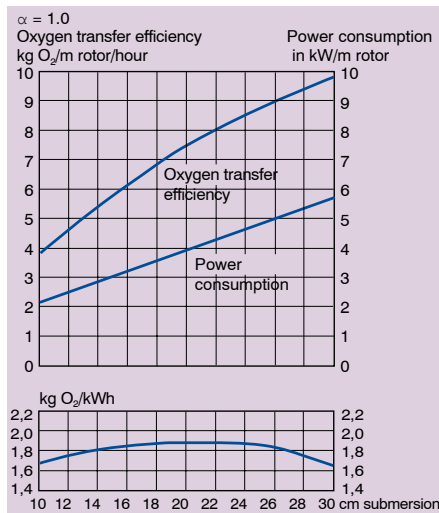
- ▶ Simple and sturdy design
- ▶ High degree of reliability
- ▶ Only a minimum of maintenance

## Design

The maxi-rotor consists of a horizontal shaft with mounted-on blades, end bearing, gear and electric motor. The rotor is suspended from a concrete bridge which offers effective protection against splashes and noise.

The rotor is fitted with a baffle plate increasing the oxygen transfer efficiency and is available with aerosol reduction equipment in various designs.

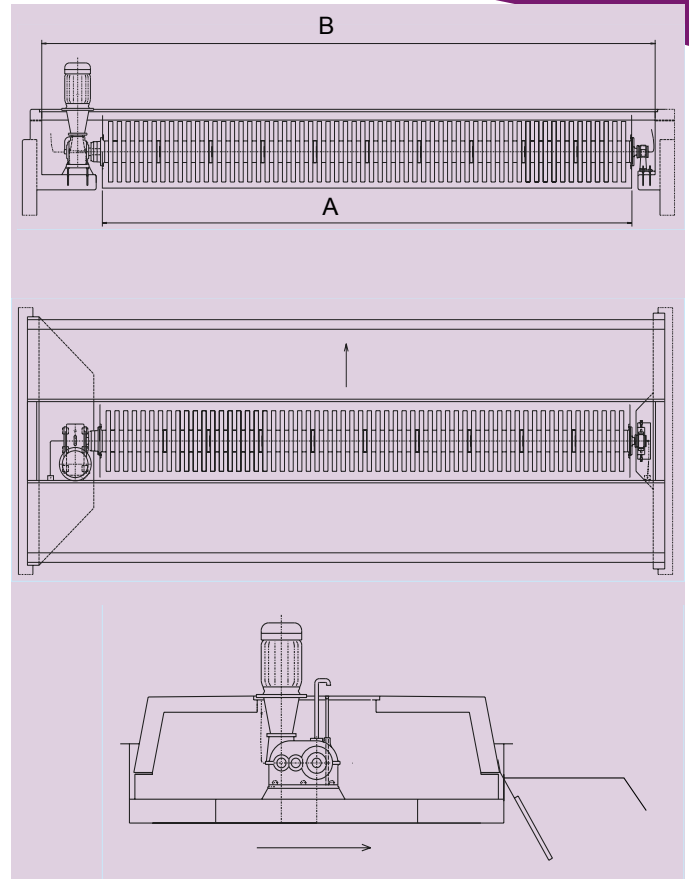
All parts of the rotor are protected effectively against corrosion by hot-dip galvanisation, two-component epoxy tar paint and neoprene rubber as base for the mounted-on blades. The rotor is driven by an electric motor of high quality and with reinforced bearings. The gear unit is specially designed to ensure a high degree of reliability. The motor is protected by a silencing casing.



## Operation

The operation of the maxi-rotor is controlled automatically by an oxygen meter in the tank. The oxygen transfer efficiency depends on the submersion of the rotor (min. 10 cm - max. 30 cm).

The motor is also an effective stirring device and is available with a two-speed motor. When operating at slow speed of rotation, the rotor serves as a stirring device only.



maxi-Rotor with concrete bridge, baffle plate and aerosol reduction equipment

## Oxygen transfer efficiency and power consumption

The oxygen transfer efficiency is based on operation in clean water at 10°C under standard conditions. The oxygen transfer efficiency and the power consumption are shown in the figure below. The conversion into activated sludge is based on factor  $a$ . The test data refer to a rotor with a baffle plate and a water depth of 3.5 m.

The power consumption refers to the input to the electric motor.

## Range of equipment

The maxi-rotor is available in three standard lengths: 6.0 m, 7.5 m and 9 m.

| Technical specifications for Maxi-Rotor  |       | DA 60-63  | DA 75-78  | DA 90-93   |
|--|-------|-----------|-----------|------------|
| Rotor diameter                           | mm    | 1000      | 1000      | 1000       |
| A (rotor length) B (installation length) | mm    | 6140/7590 | 7640/9090 | 9140/10590 |
| Electric motor (standard)                | kW    | 30        | 37        | 45         |
| Rotor speed (standard)                   | rpm.. | 73-73/49  | 73-73/49  | 73-73/49   |
| Net weight, excl. shipping equipment     | kg    | 2650      | 3080      | 3245       |

Krøger A/S reserves the right to change technical specifications without prior notice