

JUNG PUMPEN OXYPERL 3 + 5 SUBMERSIBLE AERATOR



Oxyperl 5

APPLICATION

Oxyperl submersible aerators are ideal for aeration and mixing in activated sludge tanks in small sewage treatment plants. The fact that they were specially developed for gentle handling of the activated sludge plus high energy efficiency and the very fine air bubbles produced make these aerators the ideal selection for SBR treatment systems.

The specially shaped protection ring and the optimised propeller design avoid unnecessary disintegration of the sensitive activated sludge and ensure ultra fine air bubbles. Good settling properties and the retention of the developed sludge structure leads to ideal conditions for nitrification and by this means ensure an excellent treatment performance by the biological process.

The new design with mechanical seal achieves maximum service life in comparison with other sealing systems. A new standard for this category of aerators.

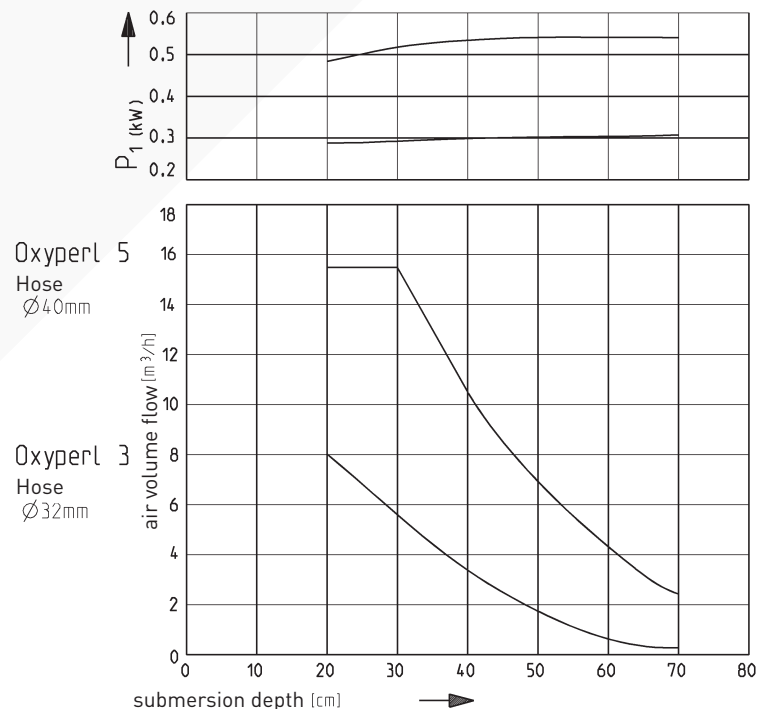
A novel labyrinth seal attached to the propeller and a particularly for problematic cases developed optional air reflux valve prevents a pressure compensation when switching off the aggregate. This also ensures that no solids get into the propeller and largely avoids the danger of blockage.

The detachable cable gland fitted on the pump head enables the free choice between different cable lengths and avoids troublesome cable repair works.

Depending on chemical resistance and usage limits the submersible aerator is also suitable for other applications (pond aeration, stirring and mixing of liquids with no solids present).

- High air input with ultra air fine bubbles
- Replaceable moisture sealed cable inlet
- 1 : 1 exchangeability with other common units on the market
- Air reflux valve
- Oxyperl 3 and Oxyperl 5: Both versions with mechanical seal for long service life and a labyrinth seal that reduces the danger of blockage

PERFORMANCE



45210-00

We reserve the right to specifications without notice

Pump performance is subject to ISO 9906 tolerances

JUNG PUMPEN OXYPERL

SUBMERSIBLE AERATOR

OXYPERL

| Type | Cable quality H07RN | Max. Height x Width | Intake connection | Weight approx. | Code No. |
|-----------|-----------------------|---------------------|-------------------|----------------|----------------|
| Oxyperl 3 | without cable gland | 318 x 150 mm | 1" | 3.0 kg | JP44431 |
| Oxyperl 3 | with 10 m cable gland | 318 x 150 mm | 1" | 4.2 kg | JP44432 |
| Oxyperl 5 | without cable gland | 347 x 156 mm | 1¼" | 4.0 kg | JP45228 |

ELECTRICAL DATA

| Type | Type of current | Voltage Volt | Motor rating kW | | RPM min ⁻¹ | Current Ampere | Motor protection |
|-----------|-----------------|--------------|-----------------|----------------|-----------------------|----------------|------------------|
| | | | P ₁ | P ₂ | | | |
| Oxyperl 3 | 1-phase | 1/N/PE~230 | 0.31 | 0.21 | 2765 | 1.37 | integrated |
| Oxyperl 5 | 1-phase | 1/N/PE~230 | 0.54 | 0.39 | 2700 | 2.36 | integrated |

ACCESSORIES

| | | | Cable quality | Code No. |
|------------------|--------|---------------------------------------|---------------|----------------|
| Cable gland | 1.5 m | For all aggregats without cable gland | H07RN-F3G1.0 | JP46925 |
| Cable gland | 4.0 m | | H07RN-F3G1.0 | JP46926 |
| Cable gland | 10.0 m | | H07RN-F3G1.0 | JP45084 |
| Cable gland | 20.0 m | | H07RN-F3G1.0 | JP46927 |
| Air reflux valve | | For all aggregats | | JP44074 |

TECHNICAL DATA

Aerator

Vertical, submersible, aerator housing with diffuser and intake socket 1" male thread (Oxyperl 3) and 1¼" male thread (Oxyperl 5), propeller with flow optimised air channels and labyrinth seal.

Bearings

Common shaft for pump and motor, mounted in ball bearings, maintenance free with permanent grease lubrication.

Seal

Medium side mechanical seal, intermediate oil chamber, rotary shaft seal towards the motor section, safe to run dry.

Motor

Submersible, type of enclosure IP68, insulation class F (Oxyperl 3), insulation class B (Oxyperl 5), large cooling surface, motor thermostat for safety switch-off on overheating with automatic switch-on after sufficient cooling, replaceable moisture sealed cable inlet.

Materials

Motor housing Oxyperl 3 (1.4571), Oxyperl 5 (1.4301), encapsulated shaft and screws in stainless steel, aerator, intake housing and propeller in plastic (GRP), rubber insulated cable.

Scope of supply

Submersible aerator alternatively with 10 m or without cable gland. Further cable lengths see above under accessories.

