

# Flygt 4530

Mid-size low-speed mixer for space-constrained processes

**If you have space constraints in your wastewater treatment plant, Flygt 4530 gets the mixing job done with optimal mixing efficiency. With its state-of-the-art propeller and proven drive unit with IE3 motor efficiency, you can be sure of uninterrupted and clog-free mixing operation with low operational costs.**

## **Up to 50% energy savings**

Flygt 4530 is a mid-size low-speed mixer designed for space-constrained mixing processes where high-speed mixers often are used. Thanks to its innovative stainless-steel propeller and reliable drive unit with IE3 motor efficiency, Flygt 4530 delivers up to 50% in power savings compared to high-speed mixers in similar operations. In short, Flygt 4530 is the ideal choice for tanks when a full-size mixer is too large due to space constraints, but allow a mixer equipped with a propeller which is slightly larger compared to the propeller for a conventional high-speed mixer.



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## Easy installation and quick mixer replacement

For a straightforward mixer operation, Flygt 4530 is easily installed on a wall-mounted single guide bar system offering flexible positioning to direct and optimize mixing efficiency. Replacing an existing installation is quick and easy, as Flygt 4530 usually can be installed on the same guide bar system.

## Up to 50% savings in life-cycle cost

Flygt 4530 installations worldwide are confirming the reliability and robustness of the design. Thanks to its rigid and innovative propeller in stainless steel, rugged gearbox and IE3 motor with Class H insulation, the mixer ensures trouble-free operation and low maintenance costs.



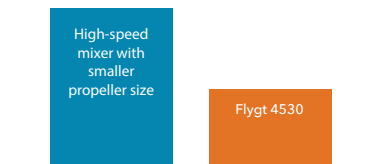
## Performance Data

|                                   | 50 Hz     |           | 60 Hz     |           |
|-----------------------------------|-----------|-----------|-----------|-----------|
|                                   | 2.3       | 4.3       | 2.6 (3.5) | 4.6 (6.2) |
| Rated power 50 / 60 Hz, kW ( hp ) |           |           |           |           |
| Propeller Speed, rpm              | 89 - 110  | 89-149    | 88-106    | 88-146    |
| Thrust, N                         | 910-1410  | 910-2680  | 890-1320  | 890-2550  |
| Mixer efficiency , N/kW*          | Up to 713 | Up to 687 | Up to 701 | Up to 685 |

\*Per ISO 21630

## Life-cycle Cost

(Investment + Operating Cost)



## Technical Data

|                            |   |   |
|----------------------------|---|---|
| Motor Data                 | Type<br>Insulation<br>Starting method   | Squirrel-cage 4-pole induction motor, with and without IE3 classification<br>In accordance with class H ( 180 C, 356 F ), trickle impregnated<br>* Direct on-line<br>* Star-delta<br>* VFD  |
| Materials                  | Gear housing<br>Stator housing<br>Oil housing<br>Shaft<br>Propeller<br>Lifting Device<br>Stand Unit<br>Oil (oil-housing)<br>Oil (gear-housing)<br>O-rings | Cast iron, ASTM 35B<br>Cast iron, ASTM 35B<br>Cast iron, ASTM 35B<br>Stainless steel, ASTM/AISI 431<br>Stainless steel, ASTM 316L<br>Stainless steel, ASTM 316L<br>Stainless steel, ASTM 316L<br>Stainless steel, ASTM 316L<br>Paraffin oil ISO VG32<br>Mineral oil with additives, viscosity close to ISO VG 220<br>Nitrile rubber |
| Monitoring                 | Thermal contacts<br>Leakage sensor in the stator housing (FLS)<br>Leakage sensor in the oil housing (KOD)   | Opening temperature 125 C (257 F)<br>(Optional feature)<br>(Optional feature)   |
| Cable                      | SUBCAB heavy-duty submersible cable<br>SUBCAB screened heavy-duty submersible cable   | 10, 16 or 20 m (30, 53 or 65 ft)<br>10 or 20 m (30 or 65 ft)  |
| Application limits         | Liquid temperature<br>Liquid viscosity<br>pH of the mixed liquid<br>Chlorides in the mixed liquid<br>Depth of immersion                                   | Max.40 C (104 F)<br>Max.5000 cp<br>6-11<br>Max.200 ppm<br>Max.20 m (65 ft)  |
| Weight and dimensions      | Max weight<br>Max length (from guide bar)<br>3-bladed propeller, diameter<br>Guide bar  | 260 kg (570 lb)<br>1000 mm (39 in.)<br>1200 mm (47 in.)<br>* Single guide bar system:100 x 100 mm (4x4 in) or 100 x 150 mm (4x6 in)<br>* Tripod guide bar system : 100 x 150 mm (4x6 in)  |
| Certificates and Approvals | Approvals for product safety and usage in hazardous zones   | EN, IECEx, UKEx, CSA and FM   |