



# Flygt mid-size mixers

OPTIMAL EFFICIENCY IN A NEW DIMENSION

**FLYGT**  
a xylem brand

# A step up in mid-size mixing

The newest addition to the Flygt range of innovative mixers and agitators, the Flygt 4530 incorporates a state-of-the-art propeller and proven drive unit for optimal efficiency in medium size treatment tanks. Typical applications are mixing in activated sludge processes, sludge holding tanks, and digesters.

## Improved energy consumption

Our aim is to help you achieve operational efficiency in energy intensive treatment facilities. Getting the right design and size in your mixing application can make the difference for cost effective operations.

The Flygt 4530 mixer is an excellent choice when the propeller diameter of a full-size low-speed mixer is too large, but there's room for something larger than a compact mixer. Compared to a direct-drive compact mixer, for example, the energy savings with the Flygt 4530 can be over 50% for a similar duty. With the most advantageous size, you'll also get a dynamic duo of innovative propeller geometry and proven drive unit that's all the better for high efficiency and smaller carbon footprint.

## Reliability you can count on

Hundreds of thousands of mixer installations around the world are confirmation of the reliability and robustness of our solutions. Designed and built to the same consistent high standards, the Flygt 4530 ensures minimum maintenance and fewer unexpected process interruptions, which add up to lower overall life-cycle costs.

## Simplicity in the exchange

Changing out an existing installation is simple with the Flygt 4530. The mid-size mixer can be easily installed on a wall-mounted single guide bar, just like a compact mixer. What's more, rapid, straightforward installation helps to reduce expenditure on your staff time and your budget.



## Let's solve the mixing challenge

We understand that efficient, uninterrupted treatment operations are critical to communities and industries. Mixing is an important part of the equation.

Flygt pioneered the use of thrust as the main performance parameter for mixing. In fact, you'll benefit from over fifty years of engineering know-how and practical field experience that lie behind our full range of compact, mid-size and low-speed mixers. We can help you evaluate the tank geometry, liquid characteristics, installation restrictions and mixing duty, and deliver the mixer technology, size and tank layout suited to just your requirements.

Lean, robust, smart, reliable and thoroughly field tested, our comprehensive portfolio of mixers and agitators ensures you get just the solution you need for optimum mixing and best energy use.

### Innovative propeller design

Finding inspiration in the standard-setting Flygt low-speed mixer, the 4530 propeller takes hydraulic efficiency and clog-free performance to new levels. A thin-section design that incorporates generous backsweep and double-curvature, the rigid propeller is built for the best in efficiency and dependability.

### Patented propeller assembly

Mounting is simple and easy. The attachment of the propeller requires no special tools - the design itself ensures correct mounting so you can be certain of optimal performance. In addition, the propeller bending and torsional loads are not taken by bolts, but rather recessed faces in the hub, for the assurance of reliability.

### Standard guide bar installation

The Flygt 4530 can replace mixers installed on single guide bar systems. There is no special floor-mounted pedestal required on which to place the mixer. This makes it easier to exchange out a compact mixer for the Flygt 4530, and achieve up to 50% savings on energy consumption.

Robust and adjustable, Flygt installation equipment directs thrust exactly where it is required and can withstand the weight and reaction forces exerted by the mixer throughout its operating life.

### Proven drive unit

The drive unit design is based on the Flygt low-speed mixer, with its Class H insulation, trickle-impregnated stator and rugged gearbox. Proof of design for the utmost in dependability and non-stop operations is demonstrated in tens of thousands of drive installations worldwide.

### Global service network

Should you have questions or need support regarding your Flygt mixers and agitators, professional assistance and original spare parts are always nearby through our extensive worldwide service network.



Replacing your mixer is a simple, rapid procedure with Flygt 4530 - for a long life of efficiency.

	50 Hz	60 Hz
Thrust range (N) <sup>1</sup>	800 - 2150	800 - 2200
Efficiency (N/kW) <sup>1</sup>	up to 780	up to 740
Propeller speed range (rpm)	88 - 145	88 - 148
Rated motor power	2.3 kW 4.3 kW	2.6 kW (3.5hp) 4.6 kW (6.2hp)
Propeller diameter	1.2 m (47 in.)	
Explosion proof versions	Yes	
Installation method	100x100 mm (4x4 in.) guide bar or tripod 100x150 mm (4x6 in.) guide bar	

<sup>1</sup> Per ISO 21630



Greater reliability comes with the three-blade design which minimizes dynamic loading on installation equipment.

# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

**For more information on how Xylem can help you, go to [www.xyleminc.com](http://www.xyleminc.com)**



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