

waterix



Waterix MIXIT™ Mixers

APPLICATIONS

Municipal and industrial wastewater mixing

Quick mixing of chemicals in wastewater process

Mixing of liquids in industrial processes

BENEFITS

Simple and reliable structure

Waterix MIXIT mixers have a robust design. The motor does not have any contact with wastewater and therefore it is more reliable than submerged mixers.

Adjustable mixing speed

The optional AC drive can adjust the mixing speed and thrust. This enables correct mixing speed / thrust and optimized energy consumption. Also the AC drive protects the mixer from overloading. Waterix MIXIT 3000 mixer comes always with an AC drive.

Several options for mounting

Waterix MIXIT mixers are either motor flange mounted or supporting beam mounted. The mounting with pontoons is also available with some models.

Maintenance free

Waterix MIXIT mixers do not have parts that should be replaced or maintained regularly. The optional AC drive has a program, which time to time cleans the propeller by changing the rotation direction.

Downward flow pipe

The mixer is equipped with pipe that guides the water close to the bottom of basin. The pipe enables mixing of deep basins with only one propeller. The downward flow pipe enforces the mixing effect. Quick mixing of chemicals is also powerful because of the downward flow pipe. Chemicals can be added directly into the downward flow pipe.

KEY INFORMATION

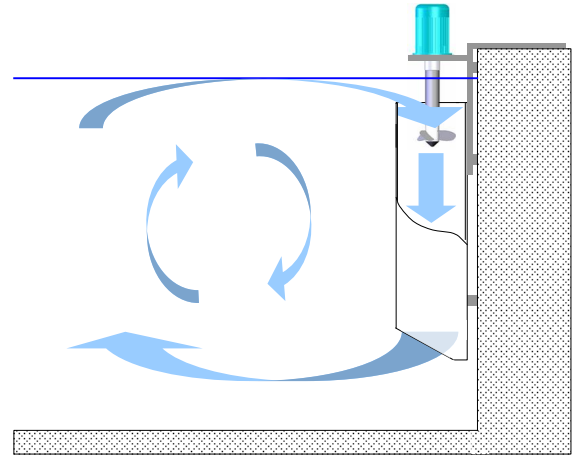
Waterix MIXIT mixers are suitable for wastewater and industrial process water mixing. The mixer can be equipped with AC drive to adjust the mixing speed and thrust to find the optimal circulation in the basin. The control unit comes with intelligent software changing the direction of the rotation regularly and hence cleaning the impurities from the propeller.

The flow can be directed to the bottom of the basin with the optional downward flow pipe. Waterix can help on choosing the correct frequency parameters for Waterix MIXIT mixers so that optimal circulation can be achieved. Chemicals can be mixed efficiently with the pipe.

Options:

- Supporting structure
- Downward flow pipe length (1 – 6 m)
- AC drive (standard with MIXIT 3000)

OPERATING PRINCIPLE



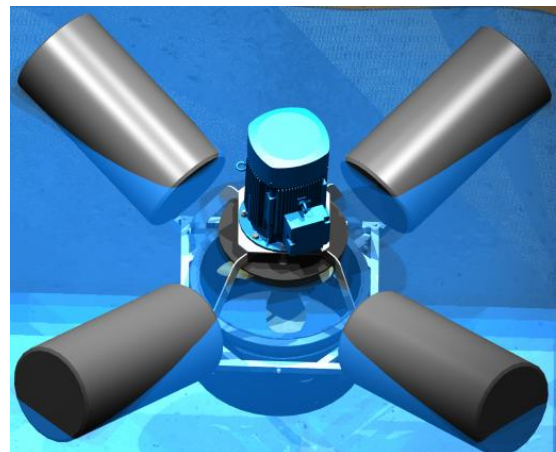
Waterix MIXIT mixer installed with downward flow pipe that guides the flow and increases the water circulation. With downward pipe it is possible to only have one propeller with short axle, which is saving motor bearings.

The mixer and downward flow pipe can be mounted to service bridge or to the wall of the basin with supporting beam.

SPECIFICATIONS

The main specifications of Waterix MIXIT mixers are shown in the table below. The material of the mixers are PE plastic, aluminium / alloyed bronze and stainless steel.

		MIXIT 150	MIXIT 400	MIXIT 800	MIXIT 1200	MIXIT 3000
Thrust	N	160	410	810	1250	3050
Propeller Diameter	inches	5"	14"	20"	25"	40"
Motor	kW	1,1	2,2	5,5	7,5	22
Motor Input Power	kW	1,3	2,1	4,3	6,7	14,0
Motor Speed	rpm	1500	750	750	750	750
Water Flow	l/s	47	190	388	606	1 800
Water Flow	m ³ /h	169	684	1 396	2 181	6 480
Unit Weight	kg	15	51	118	147	360



Waterix MIXIT mixer equipped with pontoons.

WATERIX IN BRIEF

Waterix Ltd is a company established in 2003, specializing in advanced environmental technology having three product lines focusing on aerating, mixing and cooling. Waterix has developed a unique wastewater aerator, which can be used also as an effective mixer. The Waterix aerators fit well for municipal, food processing, pulp and paper industry's wastewater treatment. The aerators can be used in addition for natural water aeration, small scale community wastewater treatment and golf courses. Expensive cooling towers can be easily replaced by cost effective Waterix coolers. Typical applications for the Waterix coolers are e.g. pulp and paper industry's wastewater and process water cooling.

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