

Amamix C 3228/06 UDG**Aeration**

Type	Tube aerator	Selection air input	0.00 Nm ³ /h
Number of aeration fields	1	Aerated area	90.00 %
Alternating mixing	Yes	Distance betw. aeration fields	0.00 m
Max. air input	30.00 Nm ³ /h		

Tank

Liquid volume	62.10 m ³	Fill level	4.60 m
Material	Concrete	Basin length	5.00 m
Tank shape	Rectangular tank (E)	Basin width	2.70 m

Installation parts

Scope of supply	Mixer with installation parts	Holder for square guide rail	Yes
Type of Installation	Universal Installation (Accessories 22)	Claw material	Grey cast iron EN-GJL-250
considered mounting depth (guide tube length)	5.00 m	Bracket	Yes
Material guide tube	Stainless steel 1.4301	Additional fastening set	Adjustable (universal)
Guide tube 1	60 x 60 x 3	lower holder	level tank floor
Quantity	1	Number of center supports	0
Length	6.00 m	Adapter for tilt adjustment	Without

Material variant

Axial propeller (ECB)	Stainless steel 1.4571	Motor housing	Grey cast iron EN-GJL-250
Gear casing		Shaft	Stainless steel 1.4571
Jet pipe	Without	Studs	A4
Gasket	FKM 80		

Medium

Pumped medium	Sludge Activated sludge (agitator) Not containing chemical and mechanical substances which affect the materials	Dry substance content [DS]	1.00 %
		Loss on ignition	70.00 %
		Sludge volume index (SVI)	80.00 ml/g
		Viscosity	1.00 mPa s
		Share rate	189.00 1/s

Creation of flow

Average flow velocity required	30.00 cm/s	The average flow velocity can only be achieved if inflows are oriented in flow direction.
Calculated minimum average flow velocity	30.00 cm/s	

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Design

Max. temperature	40.0 °C	Manufacturer	KSB
weight	54 kg	Type (propeller side)	MG
Type	Amamix C 3228 / 0 6	Material code (propeller side)	SIC/SIC/FPM
Execution of drive	direct	Mixer standard	KSB-Aggregate international execution
Number of blades	2		
Propeller diameter	325.0 mm		
Propeller speed	920 rpm	Ex protection	No
Absorbed power P1 at operating point based on pure water	1.70 kW	Norm	Without
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir	Temperature classes aggregate	Without
Sealing plan	T Tandem mechanical seal	additional leakage control	Without
		Weight	53.5

Please note

KSB quotations and the selection of mixers are exclusively based on the operating parameters specified above as well as the relevant physical variables. Consequently, KSB only accepts warranty obligations for the mixing equipment to the extent of the data provided. It is therefore important that the customer verifies whether the system data considered by KSB in the mixer data sheet does, in fact, conform with the data of the application, and that KSB is informed of any deviations. As the overall function substantially depends on the correct positioning of the mixing equipment, KSB does not accept any warranty claims resulting from a mixer positioning which has not explicitly been approved of by us. Neither low-flow areas (flow separation) resulting from the tank geometry nor the hydraulic solids transportation of the overall system are subject to the KSB warranty. Furthermore, the utilisation of KSB mixers in protected procedures, and any resultant infringement of the industrial property rights of third parties, are similarly excluded.

Mixer(s) positioning in accordance with the system drawing!

Possible unexpected on-site conditions may result in the reduction of the average flow velocity. In addition, tolerances in the average flow velocity may occur when conforming with the mixer-relevant standards and directives.

Please observe that velocities higher than the average flow velocity may be present locally.

The average flow velocity calculated by KSB considers the loss coefficients of a standardised aeration system situated near the bottom of the tank. Consequently, it is important to verify the calculation of the average flow velocity using the loss coefficients of the aeration system actually put into use.

The required flow velocity for a sediment-free operation is determined by the operational quality of the systems upstream of the tank, essentially by the quantity of solids reaching the tank. Activated sludge flocs settle at flow velocities < 10 cm/s or in case of lack of local turbulence.

Without addition of polymeric flocculation aid.

Amamix C 3228/06 UDG**Motor**

Fl operation permitted	Yes (acc. motor manufacturer)	Moisture and motor temperature sensor	1
Driver type	Electric motor	Frequency	50 Hz
Motor manufacturer	KSB	Motor speed	920 rpm
Motor generation	D	Rated current	4.8 A
Motor supplied by	Standard motor supplied by KSB - mounted by KSB	Starting current ratio	4.3
Efficiency class	not classified	Insulation class	F to IEC 34-1
Rated voltage	400 V	Poles	6
Rated power	1.80 kW	Starting mode	Direct-on-line starting
Type of protection	Without	Operation with Frequency	No
Motor enclosure	IP68	Inverter.	
Temperature classes	Without	Cable design	Rubber hose
Temperature sensor	PTC resistor	Cable entry	Sealed along entire length
Winding	400 V	Sales description power cable	S1BN8-F 7G1.5
Connection mode	Star	Number of power cables	1
Cooling method	Surface cooling	Cable length	10.00 m
Motor version	U	Number of additional cable support including catch hook	0

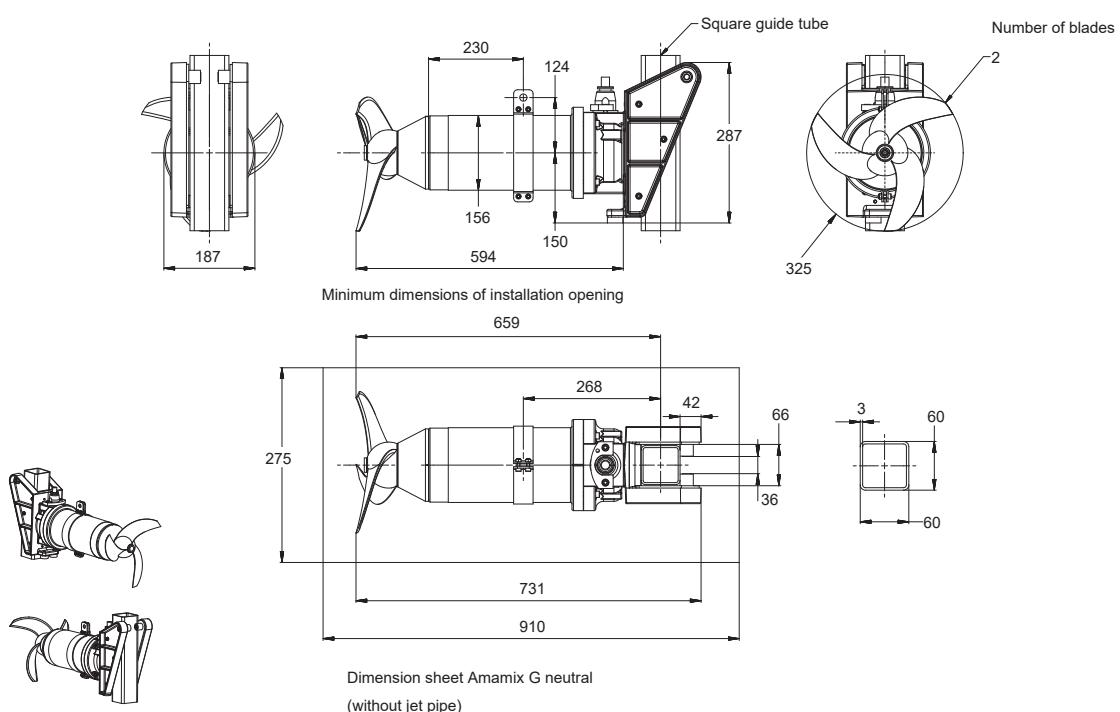
Nameplates

Nameplates language	International	Labelling text	""
Duplicate nameplate	With	Location	""

Packaging

Packaging category	A0 Packing acc. to KSB choice	Packaging for transport	Truck
Packaging for storage	Indoor	Packaging for country	Poland

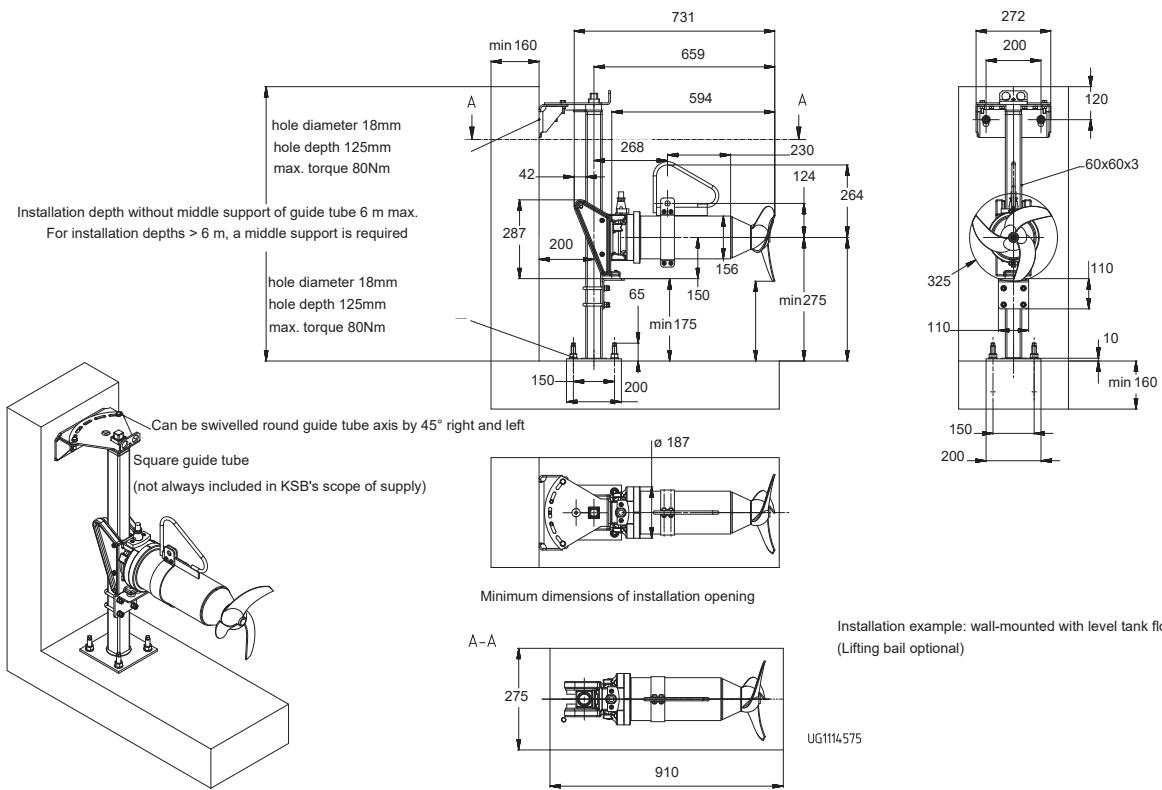
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Drawing is not to scale

Dimensions in mm

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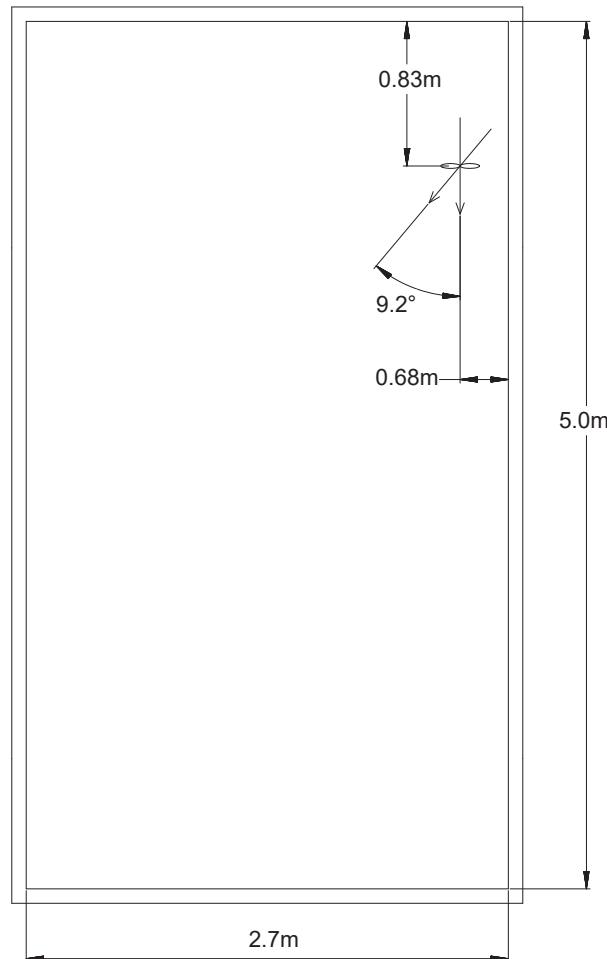


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Dimensions in mm

Universal Installation (Accessories 22)

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Drawing is not to scale

The propeller centre is the reference point.

Tank shape: Rectangular tank (E)

Type of Installation: Mounting with bridge

RW1: Amamix C 3228/06 UDG

Comments

Tank installations are not shown in the positioning options. Please check whether the positioning is suitable for the local conditions.

The selected aeration equipment is not shown in the positioning options. Please check whether the positioning is suitable for the local conditions.

Minimum distance of aeration equipment downstream of propeller: 4.60 m