

## Amamix C 2925/06 UDC

**Tank**

Liquid volume	222.14 m <sup>3</sup>	Basin length	12.30 m
Material	Concrete	Basin width	4.30 m
Tank shape	Rectangular tank (E)	Number of mixers	2
Fill level	4.20 m	Energy density	10.63 W/m <sup>3</sup>
Tank depth	5.00 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	Stainless steel 1.4571
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	1.4581
Gear casing		Shaft	Stainless steel 1.4571
Jet pipe	Without	Studs	A4
Gasket	FKM 80		

**Medium**

Pumped medium	Sludge Raw sewage (agitator) Not containing chemical and mechanical substances which affect the materials	Dry substance content [DS] Loss on ignition Sludge volume index (SVI) Viscosity Share rate	1.00 % 70.00 % 80.00 ml/g 1.00 mPa s 189.00 1/s
Density	1000 kg/m <sup>3</sup>		
Operating temperature	20.0 °C		

**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	

**Design**

Max. temperature	40.0 °C	Manufacturer	KSB
weight	47 kg	Type (propeller side)	MG
Type	Amamix C 2925 / 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	294.0 mm	Ex protection	No
Propeller speed	920 rpm	Norm	Without
Absorbed power P1 at operating point based on pure water	1.18 kW	Temperature classes aggregate	without
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir	additional leakage control	Without
Sealing plan	T Tandem mechanical seal	Weight	47

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**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.

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 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.

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

**Motor**

Fl operation permitted	Yes (acc. motor manufacturer)	Motor moisture 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 8G1.5
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

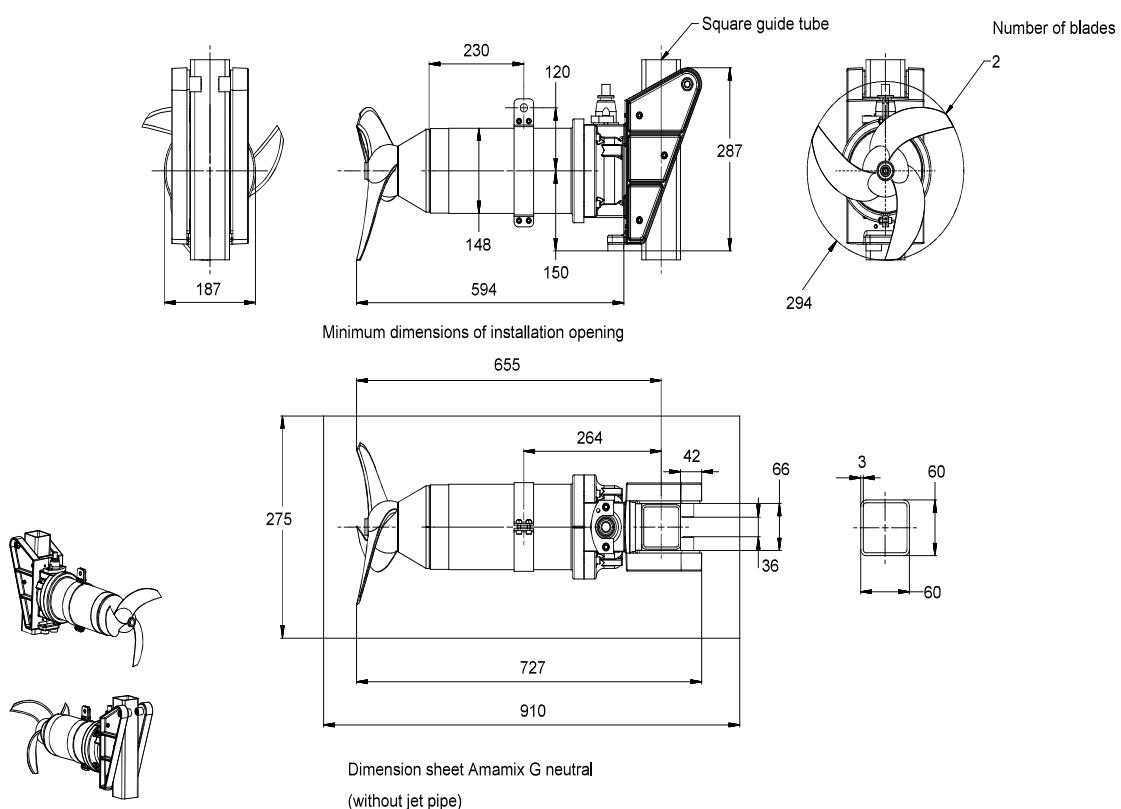
**Nameplates**

Nameplates language	International	Duplicate nameplate	With
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**Packaging**

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

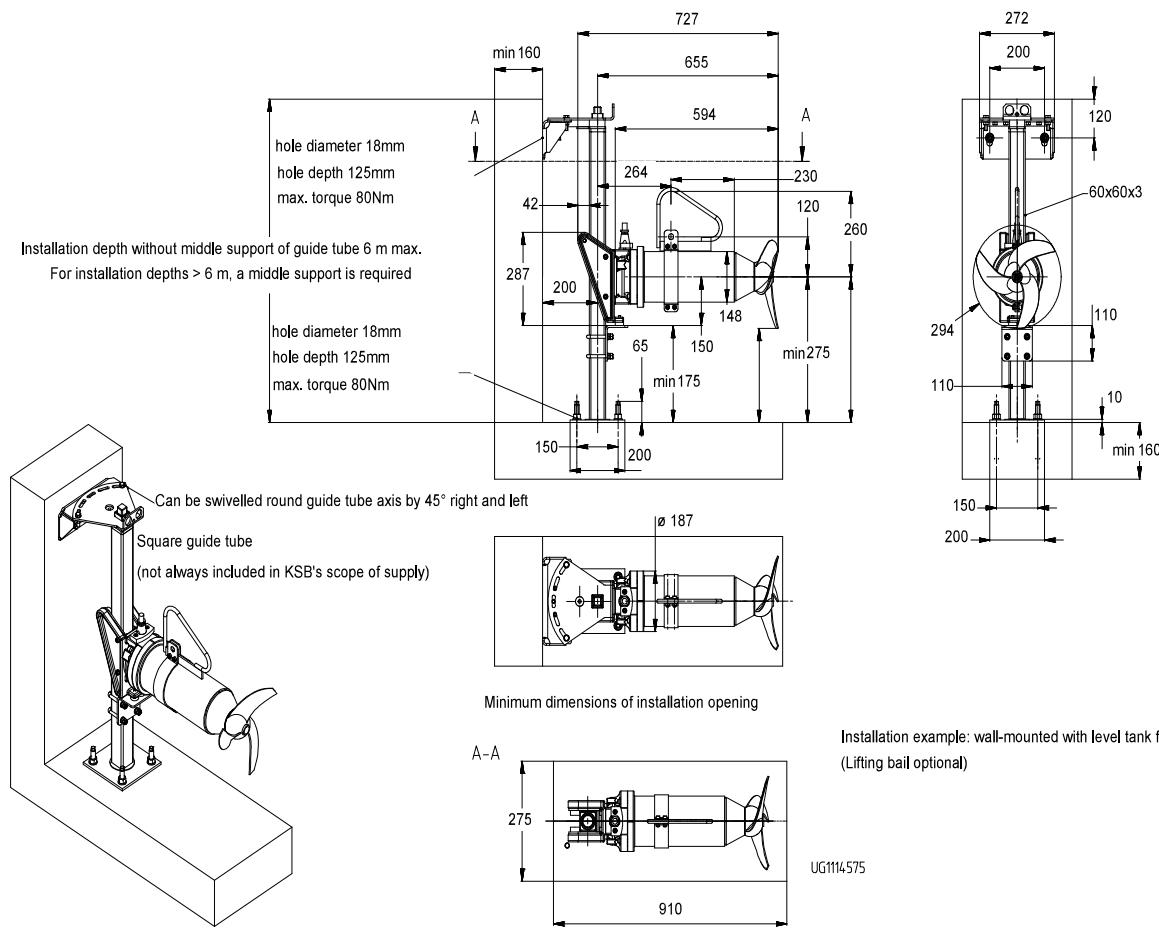
**Amamix C 2925/06 UDC**



*Drawing is not to scale*

*Dimensions in mm*

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*Drawing is not to scale*

*Dimensions in mm*

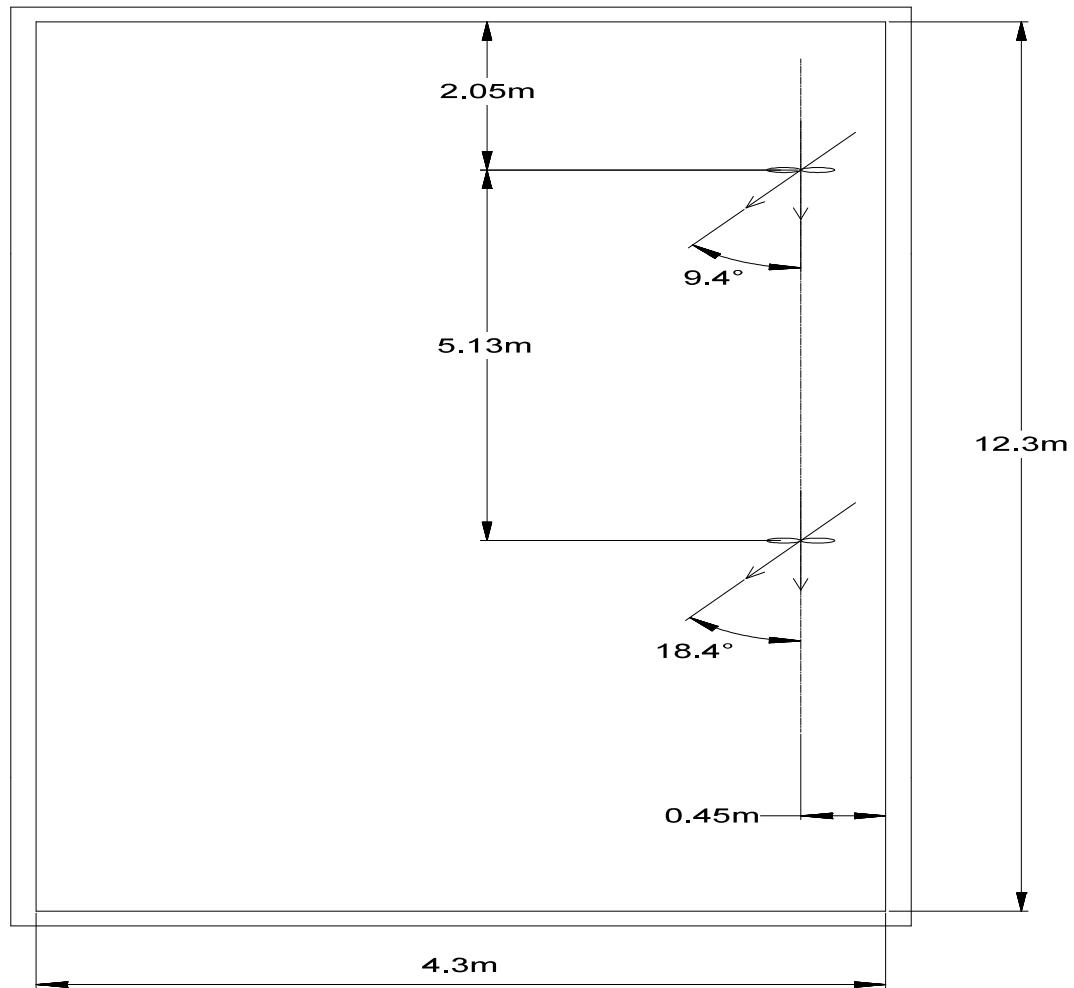
## Universal Installation (Accessories 22)

## Positioning



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*Drawing is not to scale*

*The propeller centre is the reference point.*

**Tank shape: Rectangular tank (E)**  
**Type of Installation: Wall mounting**

**RW1: Amamix C 2925/06 UDC**  
**RW2: Amamix C 2925/06 UDC**

### Comments

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