

Amamix C 4128/48 UDG

Medium

Pumped medium	Sludge Activated sludge (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 2.42 lb/(ft h) 189.00 1/s
Density	62.428000 lb/ft ³		
Operating temperature	68.0 °F		

Tank

Liquid volume	77558.06 gal US	Basin length	24.00 ft
Material	Concrete	Basin width	24.00 ft
Tank shape	Rectangular tank (E)	Number of mixers	1
Fill level	18.00 ft	Energy density	0.35 W/ft ³
Tank depth	20.00 ft		

Creation of flow

Average flow velocity required	0.984 ft/s	The average flow velocity can only be achieved if inflows are oriented in flow direction.
Calculated minimum average flow velocity	0.984 ft/s	

Design

Max. temperature	104.0 °F	Manufacturer	KSB
weight	201 lbm	Type (propeller side)	MG
Type	Amamix C 4128 / 4 8	Material code (propeller side)	SIC/SIC/FPM
Execution of drive	direct	Mixer standard	KSB-Aggregate North American execution
Number of blades	2		
Propeller diameter	16.14 in	Ex protection	No
Propeller speed	840 rpm	Norm	Without
Absorbed power P1 at operating point based on pure water	4.87 HP	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	91

Amamix C 4128/48 UDG**Motor**

FI operation permitted	Yes (acc. motor manufacturer)	Winding	460 V
Driver type	Electric motor	Poles	8
Motor manufacturer	KSB	Starting mode	Direct-on-line starting
Motor generation	D	Starting mode	
Motor supplied by	Standard motor supplied by KSB - mounted by KSB	Connection mode	Delta
Rated voltage	460 V	Cooling method	Surface cooling
Frequency	60 Hz	Motor version	U
Motor speed	840 rpm	Operation with Frequency Inverter.	No
Rated power	5.99 HP	Cable design	Rubber hose
Rated current	9.9 A	Cable entry	Sealed along entire length
Starting current ratio	3	Sales description power cable	AWG 15-12
Insulation class	F to IEC 34-1	Number of power cables	1
Type of protection	Without	Motor moisture sensor	1
Motor enclosure	IP68	Cable length	32.81 ft
Temperature classes	without	Number of additional cable support including catch hook	0
Temperature sensor	PTC resistor		

Material variant

Axial propeller (ECB)	Stainless steel A 276 Type 316 Ti	Motor housing	Cast iron A 48 Class 35 B
Gear casing		Shaft	Stainless steel A 276 Type 316 Ti
Jet pipe	Without	Studs	A4
Gasket	FKM 80		

Nameplates

Nameplates language	International	Duplicate nameplate	With
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Installation parts

Scope of supply	Mixer without installation parts	Additional fastening set	Without
Type of Installation	Universal Instalation (Accessories 22)	lower holder	Without
Holder for square guide rail	Yes	Number of center supports	0
Claw material	Grey cast iron EN-GJL-250	Adapter for tilt adjustment	Without
Bracket	Without		

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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.

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

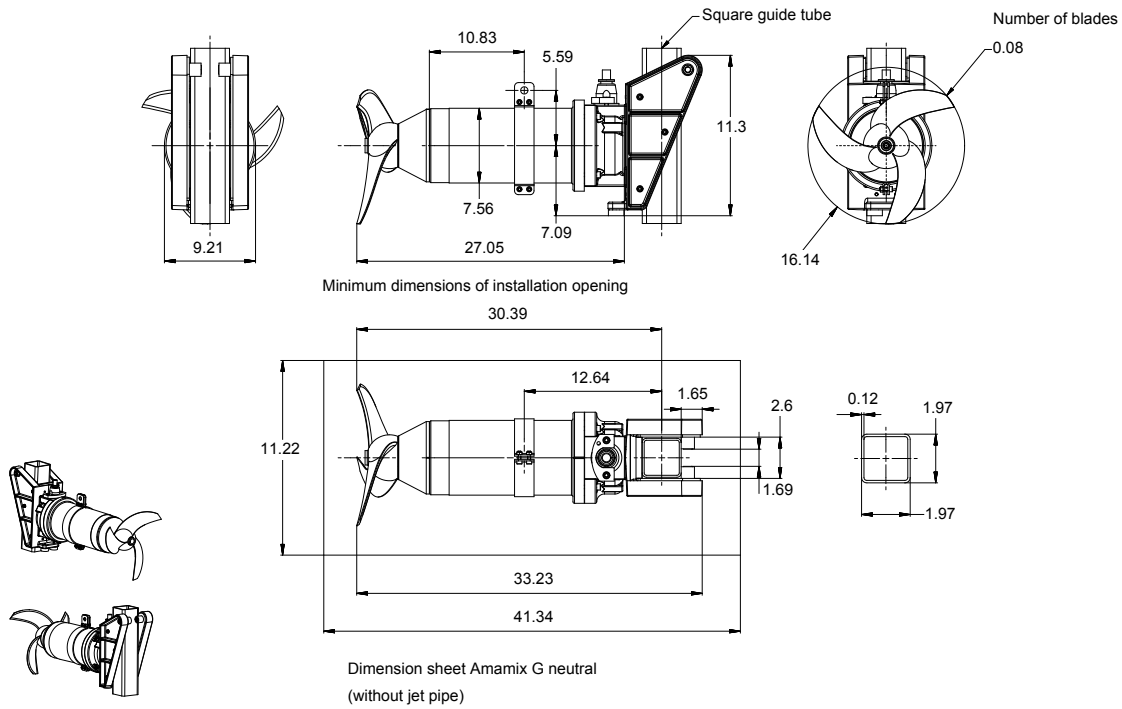
Possible unexpected on-site conditions may result in the reduction of the average flow velocity. In addition, tolerances in the average flow velocity may occur when conforming with the mixer-relevant standards and directives.

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

The 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.

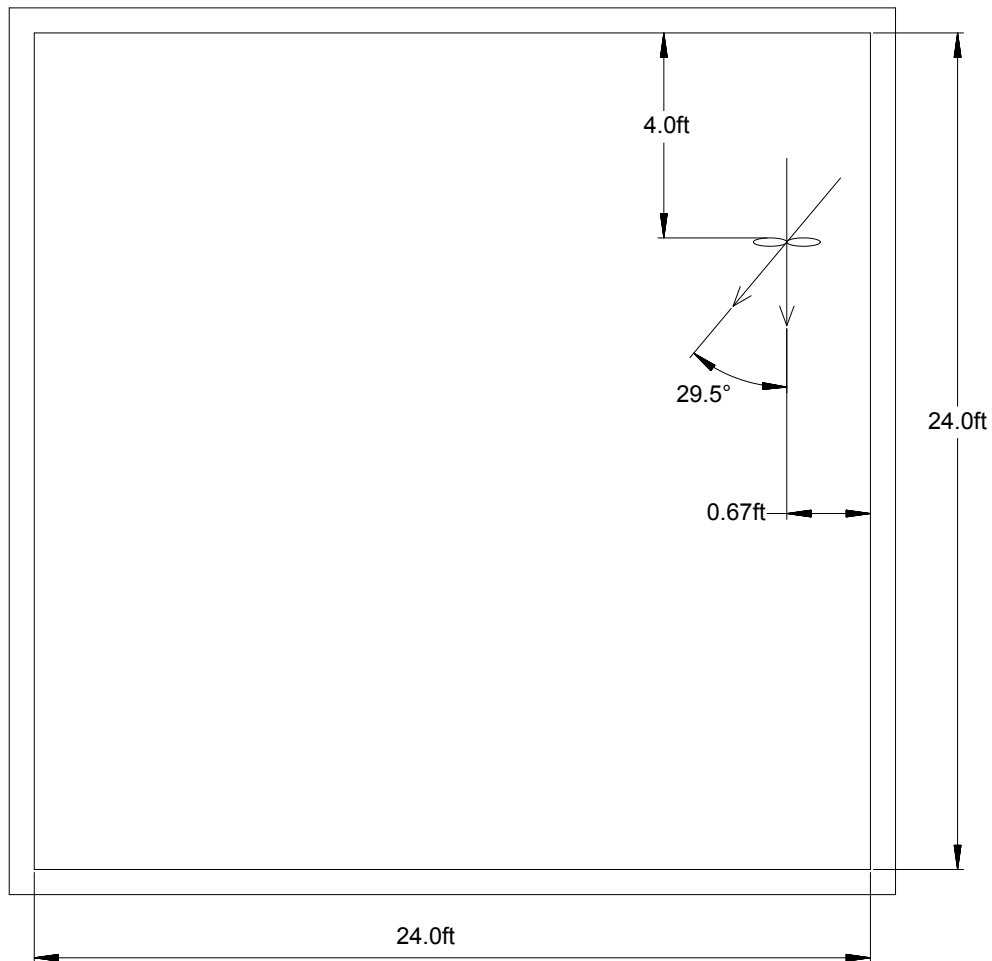
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Drawing is not to scale

Dimensions in in

Amamix C 4128/48 UDG



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 4128/48 UDG

Comments

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