Submersible Mixer Type ABS RW 200 and 280

Compact submersible mixer for flushing and cleaning of pump sumps.

Applications

The compact submersible mixers of the RW 200 / RW 280 series are designed for mixing applications in pump sumps, i.e. the prevention of sedimentation deposits and floating scum. They have a maximum continuous running time of one hour, and up to a total of eight hours in every twenty four.

The RW 200 / 280 series can be installed regardless of the tank shape and is suitable for the cleaning of pump sumps up to \emptyset 5 m or 24 m². Depending on the intensity of mixing required, one or more mixers may be installed.

The optimum flow direction for a particular application can be achieved quite simply by adjusting the mixer position horizontally or vertically (± 30°) on the mounting bracket.

Horizontal adjustment is not possible in a guide rail installation. In a hanging installation, swivelling in the horizontal plane is facilitated by the conical threaded pipe connection.

The coupling bracket, adjusting plate, and 10 m cable with free cable ends, are supplied as standard.

For optimum selection in general mixing applications the following information is required:

- Application
- Tank / sump dimensions
- · Medium to be mixed
- Viscosity and specific weight of medium
- Temperature, dry matter content etc.

Construction

- Water-pressure-tight encapsulated modular motor with cast iron housing, oil chamber and propeller, form a compact, robust, unit construction.
- Single- and three-phase, 4-pole motor, 1 450 minimum r/min, insulation class F, protection class IP 68.
- Rotor shaft supported in lubricated-for-life ball bearings.
- Tandem shaft sealing with lip seal and silicon carbide mechanical seal as standard; option of Viton double mechanical seal.
- Patented solids deflection ring protects the mechanical seal from damage by ingress of solid or fibrous matter.
- Blockage-free, cast iron, 2-blade propeller.
- Thermal sensors in the stator give a warning and switch off the unit if excessive temperatures are reached in the motor.
- Maximum allowable temperature of the medium is 40 °C.

Materials

Description	Material
Motor housing	Cast iron EN-GJL-250
Motor shaft	Stainless steel 1.4021 (AISI 420)
Oil chamber	Cast iron EN-GJL-250
Propeller	Cast iron EN-GJL-250
Fasteners	Stainless steel 1.4401 (AISI 316)





Features

- · Easy installation
- Small space requirements
- · Adjustable bracket allows direction to be altered
- Guide rail mounting option
- · Cast iron housing
- · Wear-resisting propeller
- · High power reserves
- · Patented solids deflection ring
- Modular motor
- Available as standard or explosion-proof

Identification code: e.g. RW 2022 13/4 Ex Hydraulics:

yaı	adiioo.
RW	Mixer series
20	Propeller diameter (cm) nomina
2	Propeller type
2	Hydraulic number

Motor:

13	Motor power P ₂ kW x 10
4	Number of poles
Ex	Motor version (EX only on request

Accessories

Description		Part no.
Mounting brackets	wall or floor	62995000
	wall (extended)	62990006
	pipe G 11/2"	62990007
	guide rail 60 x 60 mm open	61265048
	guide rail 60 x 60 mm closed	61265049
	guide rail 50 x 50 mm open	61265050
	guide rail 50 x 50 mm closed	61265051
Concrete base		62990008

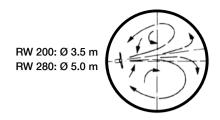
60 Hz

Technical Data

RW	2022	2022	2821
Motor	S16/4	S18/4	S28/4
Propeller diameter [mm]	200	200	280
Propeller angle	16°	16°	16°
Speed [r/min]	1 750	1 750	1 750
Motor power [kW]*	P ₂ = 1.57	P ₂ = 1.79	$P_2 = 2.83$
Rated voltage [V]	Three phase 208, 230, 380 460, 575	Single phase 115 (not Ex) 208, 230	Three phase 208, 230, 380 460, 575
Rated current [A]: 230 V 460 V 575 V	7.2 3.6 2.9	12.1 - -	10.9 5.5 4.4
Cable type	SOW-A 14/7	SOW-A 14/7	SOW-A 14/7
Cable length [m]	10, 20, 30, 40, 50	10, 20, 30, 40, 50	10, 20, 30, 40, 50
Weight [kg]	25.85	31.75	31.75

^{*} P_1 = Power taken from mains. P_2 = Power at motor shaft.

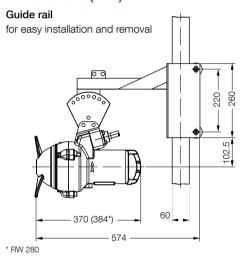
Maximum Tank Sizes



RW 200: 3.0 x 5.0 m RW 280: 4.0 x 6.0 m

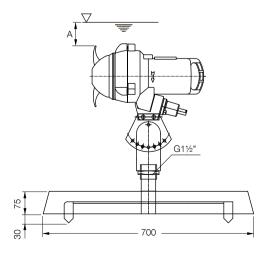


Dimensions (mm)



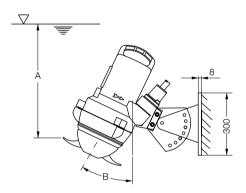
Floor mounted

on moveable concrete base



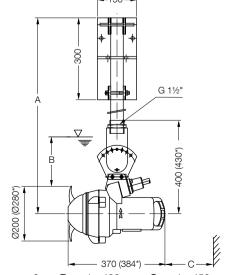
A = min. 400 mm

Wall mounted



A = min. 500 mm B = max. 30°

Hanging installation



A = max. 2 m B = min. 400 mm C = min. 450 mm *RW 280

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