

# Flow Booster Type ABS XSB 900 M

# SULZER

## 50 Hz

The compact flow boosters have been designed for a wide range of applications. The units are suitable to achieve flow pattern in large tanks and open waters for mixing and stirring applications.

## Construction

The flow booster type ABS XSB is designed as a compact, water pressure-tight unit including propeller and integrally lockable coupling system. The flow boosters are available in the material version: **Cast iron (EC)**.

Maximum allowable temperature of the medium for continuous operation is 40 °C.

### Motor:

Premium Efficiency IE3, squirrel cage, 3-phase, 4-pole, 50 Hz, insulation class F (155 °C), max. submergence 20 m.

### Propeller:

Technically optimized, axially operating 3-blade propellers with very good self-cleaning effect for vibration-free operation. The propellers are designed to achieve high thrusts and therefore a high flow capacity in axial direction.

### Solids deflection ring:

The patented solids deflection ring protects the mechanical seal from damage by ingress of solids or fibrous matter.

### Bearings:

All bearings are lubricated-for-life and maintenance-free, with a calculated lifetime of more than 100,000 h

### Gearbox:

Robust fatigue strength gearbox of high efficiency and very long operating life, oil lubricated.

### Shaft sealing:

Motor side radial seal, medium side silicon carbide mechanical seal independent of direction of rotation. O-Rings / lip seals: NBR.

### Seal monitoring:

DI-system with a sensor in the junction box, oil chamber, motor and gearbox.

### Temperature monitoring:

TCS-Thermo-Control-System with bimetallic contacts as thermal sensors in every phase of the stator give a timely warning or switch off the motor automatically before the permissible temperature limit e.g. due to overloading, high temperature medium, or other problem sources, has been exceeded.

### Cable:

10 m sewage resistant material.

### Optional lengths:

15 m, 20 m, 25 m, 30 m.

### Options:

Explosion-proof version, Insulation class H, seals in viton, EMC cable, cable protection sleeve, PTC or PT 100 in the stator, double mechanical seal.

### Weight of flow booster:

XSB 900 = 270 kg

### Weight of concrete pedestal and coupling device:

XSB 900 = 225 kg



## Motor data

Motor	PA 12/4	PA 19/4	PA 25/4
Rated power P <sub>2</sub> [kW]	1.2	1.9	2.5
Rated current at 400 V [A]	2.37	3.75	4.63
Motor efficiency [%]	87.8	88.3	89.6
Propeller speed [min <sup>-1</sup> ]	86	108	121 / 134

## Flow booster performance table

Hydraulic No.	Propeller dia. in mm	Mixer power P <sub>p</sub> in kW	Motor kW
XSB 931	900	0.6	1.2
XSB 932	900	1.2	1.9
XSB 933	900	1.9	2.5
XSB 934	900	2.4	2.5

## Materials

Part	Material
Motor housing	EN1563; EN-GJS-400-18 (GGG-40)
Motor shaft	1.0060 (St 60-2)
Propeller shaft	1.7225 fully encapsulated (42CrMo4)
Propeller shaft (double mech.seal)	1.4418
Propeller	1.4571 (AISI 316 Ti)
Coupling bracket	DIN 17 445; 1.4408 (AISI 316L)
Fasteners	1.4401 (AISI 316)

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