

Flow Booster Type ABS XSB 900 M

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 (104 °F).

Motor

Premium Efficiency IE3, squirrel cage, 3-phase, 4-pole, 60 Hz, insulation class F (155 °C/311 °F), max. submergence 20 m (66 ft).

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 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

Thermal sensors in the stator which open at 140 °C (284 °F).

Cable

10 m (33 ft) sewage resistant material.
Optional lengths: 15 m (49 ft), 20 m (66 ft), 25 m (83 ft), 30 m (98 ft).

Options

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



Weight of flow booster

XSB	Weight (kg / lbs)
PA 12 / 4	261 kg (575 lbs)
PA 19 / 4	266 kg (586 lbs)
PA 25 / 4	271 kg (597 lbs)
PA 35 / 4	276 kg (608 lbs)

Weight of concrete pedestal and coupling device

XSB	Weight (kg / lbs)
XSB 900	225 kg (496 lbs)

Motor data

Motor	PA 12/4	PA 19/4	PA 25/4	PA 35/4
Rated power (kW/hp)	1.2 / 1.6	1.9 / 2.5	2.5 / 3.4	3.5 / 4.7
Rated current at 480 V (A)	2.0	3.3	4.0	7.0
Motor efficiency (%)	88.0	88.3	89.7	88.6
Propeller speed (rpm)	82	104	130	146

Flow booster performance table

Hydraulic No.	Propeller dia. in mm / ft	Mixer power P _p in kW / hp	Motor kW / hp
XSB 931	900 / 3	1.9 / 2.5	2.5 / 3.4
XSB 932	900 / 3	3.3	4.0
XSB 933	900 / 3	88.3	89.7
XSB 934	900 / 3	104	130

Materials

Part	Material
Motor housing	EN-GJS-400-18/ASTM A536, 60-40-18
Motor shaft	1.0060/ASTM/AISI A276 Gr. 65
Propeller shaft	1.7225 fully encapsulated (42CrMo4)
Propeller shaft (double mech.seal)	1.4418

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