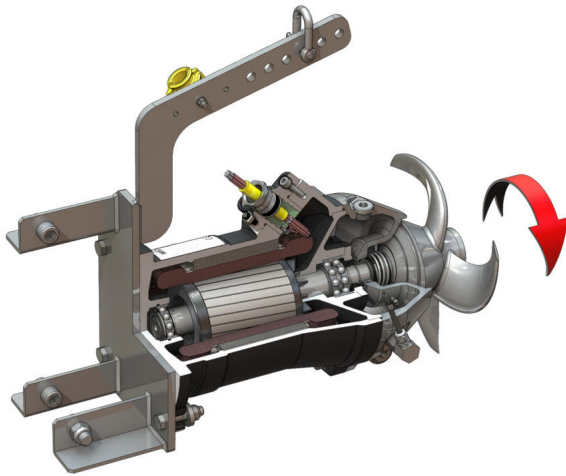


Pioneering for You

Submersible mixer

Flumen OPTI-TR 30-1.145-4/12



Unit

Power consumption at duty point $P_{1,1}$	2.50 kW
Max. thrust F	490 N
Thrust to power ratio	196 N/kW
Max. weight* m	80 kg
Explosion protection ATEX ATEX	optional
Explosion protection FM FM	optional
Protection class motor	IP68

Propeller

Propeller model	3-blade propeller with self-cleaning hub; clogging- and entwining-free
Nominal propeller diameter D_{nom}	300 mm
Propeller speed n	1405 1/min
Transmission ratio	1.000

Filling quantities and types

Filling sealing chamber	White oil
Fill volume sealing chamber V	1.20 l

Motor/electronics

Motor type	T 17-4/12R (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~400 V, 50 Hz
Rated current I_N	9.40 A
Starting current – direct I_A	47.00 A
Starting current – star-delta I_A	16.00 A
Power consumption $P_{1 max}$	5.80 kW
Rated power P_2	4.5 kW
Speed original n	1405 1/min
Motor efficiency class	–
Efficiency η_M	78.0 %
Power factor $\cos \varphi$	0.89
Min. fluid temperature T_{min}	3 °C
Max. fluid temperature T_{max}	40 °C
Max. immersion depth	20 m
Insulation class	H
Max. switching frequency t	15 rph
min. switching break t	3 min
Starting torque M	67 Nm
Moment of inertia	0.0108 kg/m ²
Motor bearings	1 grooved ball bearing, 1 two-row inclined ball bearing

Materials

Motor housing	5.1301, EN-GJL-250
Static gaskets	FKM
Motor shaft	1.4021, X20Cr13
Sealing chamber	1.4408, GX5CrNiMo19-11-2
Seal on the fluid side	SiC/SiC, Q1Q1VGG
Propeller	1.4408, GX5CrNiMo19-11-2

*maximum weight including accessories