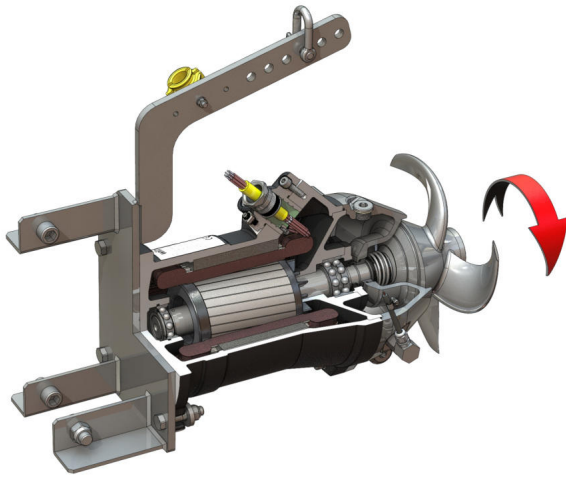


Pioneering for You

Submersible mixer

Flumen OPTI-TR 30-1.174-4/12



Unit

Power consumption at duty point $P_{1,1}$	6.03 hp
Max. thrust F	157.4 lbf
Thrust to power ratio	26 lbf/hp
Max. weight* m	176.4 lb
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}	11.8 in (*)
Propeller speed n	1680 RPM
Transmission ratio	1.000

Filling quantities and types

Filling sealing chamber	White oil
Fill volume sealing chamber V	0.3 US gal

Motor/electronics

Motor type	T 17-4/12R (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~230 V, 60 Hz
Rated current I_N	21.00 A
Starting current – direct I_A	90.00 A
Starting current – star-delta I_A	30.00 A
Power consumption $P_{1 max}$	9.5 hp
Rated power P_2	7.4 hp
Speed original n	1680 RPM
Motor efficiency class	-
Efficiency η_M	78.0 %
Power factor $\cos \varphi$	0.86
Min. fluid temperature T_{min}	37 °F
Max. fluid temperature T_{max}	104 °F
Max. immersion depth	66 ft
Insulation class	H
Max. switching frequency t	15 rph
min. switching break t	3 min
Starting torque M	49.4 lbf ft
Moment of inertia	0.26 lb ft ²
Motor bearings	1 grooved ball bearing, 1 two-row inclined ball bearing

Materials

Motor housing	ASTM A48, Class No. 35
Static gaskets	FKM Fluoro rubber
Motor shaft	AISI 420
Sealing chamber	AISI 316
Propeller	AISI 316

*maximum weight including accessories