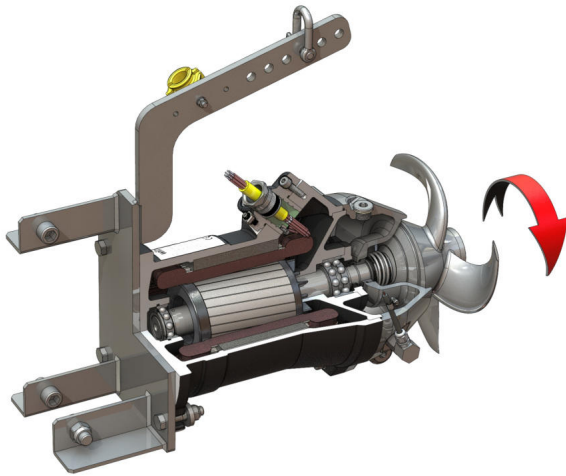


Pioneering for You

wilo

## Submersible mixer

### Flumen OPTI-TR 30-1.145-4/16



#### Unit

Power consumption at duty point $P_{1,1}$	2.55 kW
Max. thrust $F$	500 N
Thrust to power ratio	196 N/kW
Max. weight* $m$	90 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 $n$	1400 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 17-4/16R (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~400 V, 50 Hz
Rated current $I_N$	13.50 A
Starting current – direct $I_A$	68.00 A
Starting current – star-delta $I_A$	23.00 A
Power consumption $P_{1 max}$	8.20 kW
Rated power $P_2$	6.5 kW
Speed original $n$	1400 1/min
Motor efficiency class	–
Efficiency $\eta_M$	80.0 %
Power factor $\cos \varphi$	0.87
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 $M$	98 Nm
Moment of inertia	0.0134 kg/m <sup>2</sup>
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