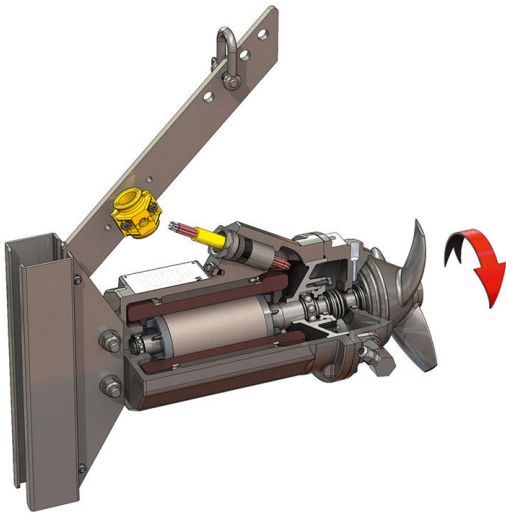


Pioneering for You

wilo

## Submersible mixer

### Flumen OPTI-TR 20-1.174-4/13 S0



#### Materials

Motor housing	AISI 316
Static gaskets	FKM Fluoro rubber
Motor shaft	AISI 420
Sealing chamber	AISI 316
Propeller	AISI 316

#### Unit

Power consumption at duty point $P_{1,1}$	1.74 hp
Max. thrust $F$	54.0 lbf
Thrust to power ratio	31 lbf/hp
Max. weight* $m$	88.2 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 $D_{nom}$	7.9 in (")
Propeller speed $n$	1658 RPM
Transmission ratio	1.000

#### Filling quantities and types

Filling sealing chamber	White oil
Fill volume sealing chamber $V$	0.1 US gal

#### Motor/electronics

Motor type	T 12-4/13GRF (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~460 V, 60 Hz
Rated current $I_N$	3.85 A
Starting current - direct $I_A$	13.70 A
Power consumption $P_{1 max}$	3.2 hp
Rated power $P_2$	2.4 hp
Speed original $n$	1658 RPM
Motor efficiency class	-
Efficiency $\eta_M$	77.8 %
Power factor $\cos \varphi$	0.76
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 $M$	13.5 lbf ft
Moment of inertia	0.05 lb ft <sup>2</sup>
Motor bearings	2 grooved ball bearing

\*maximum weight including accessories