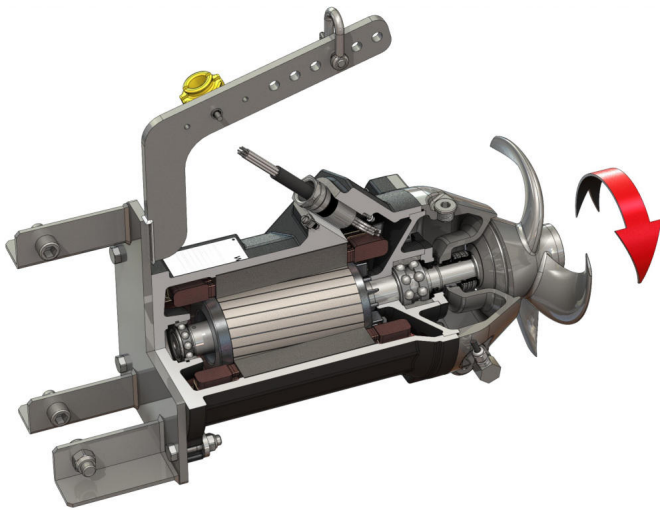


Pioneering for You

## Submersible Mixer

### Flumen EXCEL-TRE 30.145-4/16



#### Unit

Power consumption at duty point $P_{1,1}$	2.60 kW
Max. thrust $F$	520 N
Thrust to power ratio	200 N/kW
Max. weight* $m$	90 kg
Explosion protection ATEX	optional
Explosion protection FM	optional
Protection class motor	IP68

#### Propeller

Propeller model	3-blade propeller with self-cleaning hub; backward-curved as a result clogging- and entwining-free
Nominal propeller diameter	300 mm
Propeller speed $n$	1448 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	TE 17-4/16R (Ex)
Motor design	Submersible motor acc. IEC 60034-1
Mains connection	3~400 V, 50 Hz
Rated current $I_N$	7.30 A
Starting current - direct $I_A$	68.00 A
Starting current - star-delta $I_A$	23.00 A
Power consumption $P_{1 max}$	4.10 kW
Rated power $P_2$	3.45 kW
Speed original $n$	1448 1/min
Motor efficiency class	IE3
Efficiency $\eta_M$	84.7 %
Power factor $\cos \varphi$	0.81
Min. fluid temperature $T$	3 °C
Max. fluid temperature $T$	40 °C
Max. immersion depth	20 m
Insulation class	H
Max. switching frequency $t$	15 1/h
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
Seal on motor side	FKM Fluoro rubber
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