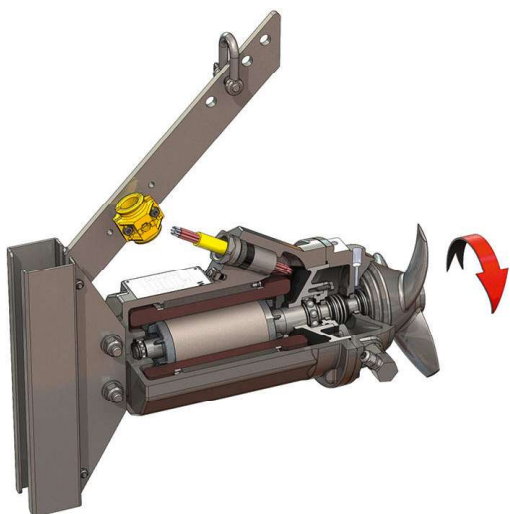


Pioneering for You

wilo

Submersible Mixer

Flumen EXCEL-TRE 20.145-4/13 S7



Unit

Power consumption at duty point $P_{1.1}$	0.57 kW
Max. thrust F	105 N
Thrust to power ratio	184 N/kW
Max. weight* m	40 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 D_{nom}	200 mm
Propeller speed n	1416 1/min
Transmission ratio	1.000

Filling quantities and types

Filling sealing chamber	White oil
Fill volume sealing chamber V	0.40 l

Motor/electronics

Motor type	TE 12-4/13GRF (Ex)
Motor design	Submersible motor acc. IEC 60034-1
Mains connection	3~400 V, 50 Hz
Rated current I_N	2.95 A
Starting current – direct I_A	14.00 A
Power consumption $P_{1\ max}$	1.40 kW
Rated power P_2	1.10 kW
Speed original n	1416 1/min
Motor efficiency class	IE3
Efficiency η_M	78.0 %
Power factor $\cos \varphi$	0.69
Min. fluid temperature T_{min}	3 °C
Max. fluid temperature T_{max}	40 °C
Max. immersion depth	20 m
Insulation class	F/B (optionally H/B)
Max. switching frequency t	15 1/h
min. switching break t	3 min
Starting torque M	18.3 Nm
Moment of inertia	0.0021 kg/m²
Motor bearings	2 grooved ball bearing

Materials

Motor housing	1.4408, GX5CrNiMo19-11-2
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