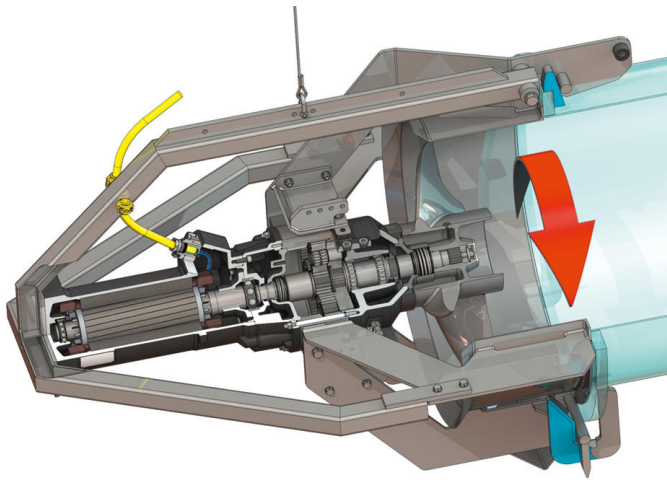


Pioneering for You

wilo

Recirculation pump

Flumen OPTI-RZP 80-3.24-6/32



Unit

| | |
|---------------------------|----------|
| Max. weight* <i>m</i> | 500 kg |
| Explosion protection ATEX | optional |
| Explosion protection FM | optional |
| Protection class motor | IP68 |

Propeller

| | |
|---|--|
| Propeller model | 3-blade propeller with self-cleaning hub; clogging- and entwining-free |
| Nominal propeller diameter <i>D_{nom}</i> | 800 mm |
| Propeller speed <i>n</i> | 245 1/min |
| Transmission ratio | 4.000 |

Filling quantities and types

| | |
|--------------------------------------|-----------------|
| Filling prechamber | Gear oil CLP220 |
| Filling volume prechamber <i>V</i> | 2.00 l |
| Filling gear chamber | Gear oil CLP220 |
| Fill volume gear chamber <i>V</i> | 1.10 l |
| Filling sealing chamber | White oil |
| Fill volume sealing chamber <i>V</i> | 2.00 l |

Motor/electronics

| | |
|--|---|
| Motor type | T 20-6/32R (Ex) |
| Motor design | Submersible motor – surface-cooled |
| Mains connection | 3~400 V, 50 Hz |
| Rated current <i>I_N</i> | 26.00 A |
| Starting current – direct <i>I_A</i> | 140.00 A |
| Starting current – star-delta <i>I_A</i> | 47.00 A |
| Power consumption <i>P_{2max}</i> | 14.90 kW |
| Rated power <i>P₂</i> | 12.5 kW |
| Speed original <i>n</i> | 930 1/min |
| Motor efficiency class | – |
| Efficiency <i>η_M</i> | 84.0 % |
| Power factor <i>cos φ₁₀₀</i> | 0.84 |
| Min. fluid temperature <i>T_{min}</i> | 3 °C |
| Max. fluid temperature <i>T_{max}</i> | 40 °C |
| Max. immersion depth | 20 m |
| Insulation class | H |
| Max. switching frequency <i>t</i> | 15 rph |
| min. switching break <i>t</i> | 3 min |
| Starting torque <i>M</i> | 246 Nm |
| Moment of inertia | 0.0778 kg/m ² |
| 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, gear/sealing chamber | SiC/SiC, Q1Q1VGG |
| Gear housing | 5.1301, EN-GJL-250 |
| Planetary gear | 1.7131, 16MnCr5 |
| Hollow gear | 1.5216, 17MnV6 |
| Sun gear | 1.7131, 16MnCr5 |
| Output shaft | 1.4462, X2CrNiMoN22-5-3 |
| Seal, gear chamber/prechamber | FKM |
| Sealing chamber | 5.1301, EN-GJL-250 |
| Seal on the fluid side | SiC/SiC, Q1Q1VGG |
| Seal bushing | 1.4571, X6CrNiMoTi17-12-2 |
| Propeller | 1.4408, GX5CrNiMo19-11-2 |
| Flow housing | 1.4571, X6CrNiMoTi17-12-2 |

Gear

| | |
|-------------------------------------|---|
| Gear construction type | m 3.0 as per DIN 780-1:1977-05 /P10 (ISO54:1996-12); sun and planetary gears case hardened and sanded, internal gear butt-jointed |
| Gear bearings | 3x2 needle roller bearing (planetary), two roller bearings (output shaft) |
| Service life <i>L_{h20}</i> | 100,000 operating hours, ISO 281:2007-02 |

*maximum weight including accessories

Subject to change without prior notice.