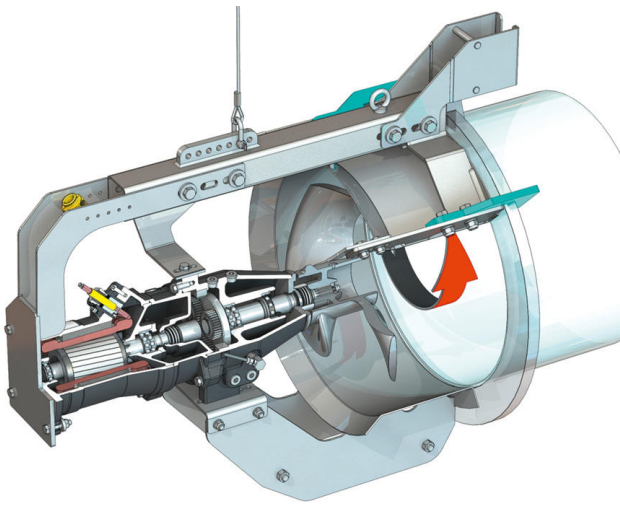


Pioneering for You

wilo

Recirculation pump

Flumen OPTI-RZP 60-4.32-4/8



Unit

| | |
|---------------------------|----------|
| Max. weight* <i>m</i> | 429.9 lb |
| 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> | 23.6 in (*) |
| Propeller speed <i>n</i> | 322 RPM |
| Transmission ratio | 5.330 |

Filling quantities and types

| | |
|--------------------------------------|-----------------|
| Filling prechamber | Gear oil CLP220 |
| Filling volume prechamber <i>V</i> | 0.3 US gal |
| Filling gear chamber | Gear oil CLP220 |
| Fill volume gear chamber <i>V</i> | 0.1 US gal |
| Filling sealing chamber | White oil |
| Fill volume sealing chamber <i>V</i> | 0.3 US gal |

Motor/electronics

| | |
|----------------------------------------------------|---------------------------------------------------------|
| Motor type | T 17-4/8R (Ex) |
| Motor design | Submersible motor – surface-cooled |
| Mains connection | 3~460 V, 60 Hz |
| Rated current <i>I_n</i> | 8.00 A |
| Starting current – direct <i>I_A</i> | 33.00 A |
| Starting current – star-delta <i>I_A</i> | 11.00 A |
| Power consumption <i>P_{2max}</i> | 7.2 hp |
| Rated power <i>P₂</i> | 5.6 hp |
| Speed original <i>n</i> | 1690 RPM |
| Motor efficiency class | – |
| Efficiency <i>η_M</i> | 79.0 % |
| Power factor <i>cos φ₁₀₀</i> | 0.84 |
| Max. fluid temperature <i>T_{max}</i> | 104 °F |
| Min. fluid temperature <i>T_{min}</i> | 37 °F |
| Max. immersion depth | 65.62 ft |
| Insulation class | H |
| Max. switching frequency <i>t</i> | 15 rph |
| min. switching break <i>t</i> | 3 min |
| Starting torque <i>M</i> | 31.0 lbf ft |
| Moment of inertia | 0.17 lb ft ² |
| Motor bearings | 1 grooved ball bearing, 1 two-row inclined ball bearing |

Materials

| | |
|-------------------------------|------------------------|
| Motor housing | ASTM A48, Class No. 35 |
| Static gaskets | FKM Fluoro rubber |
| Motor shaft | AISI 420 |
| Seal, gear/sealing chamber | SiC/SiC, Q1Q1VGG |
| Gear housing | ASTM A48, Class No. 35 |
| Planetary gear | AISI 5115 |
| Hollow gear | Grade 60 |
| Sun gear | AISI 5115 |
| Output shaft | AISI 329 |
| Seal, gear chamber/prechamber | FKM Fluoro rubber |
| Sealing chamber | ASTM A48, Class No. 35 |
| Seal bushing | AISI 316Ti |
| Propeller | AISI 316 |
| Flow housing | AISI 316Ti |

Gear

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Gear construction type | m 2.0 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 | Three needle roller bearing (planetary), one two-row inclined ball bearing and one grooved ball bearing (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.