



ITT

ROBOT PUMPS

Vortex stainless steel pump

RW2112DC

50 Hz

The vortex stainless steel pumps are designed to pump a wide variety of solids contaminated liquids in many applications. Vortex pumps are used for sewage and other waste water applications. The pump can be used in aggressive applications pH = 1-13. Standard elastomers are in FPM (Viton).

Pump

solids passage : 50 mm
 suction diameter : 65 mm
 discharge diameter : 65 mm
 impeller diameters : 150-110 mm
 recommended min. flow : 2 l/s (8 m³/h)

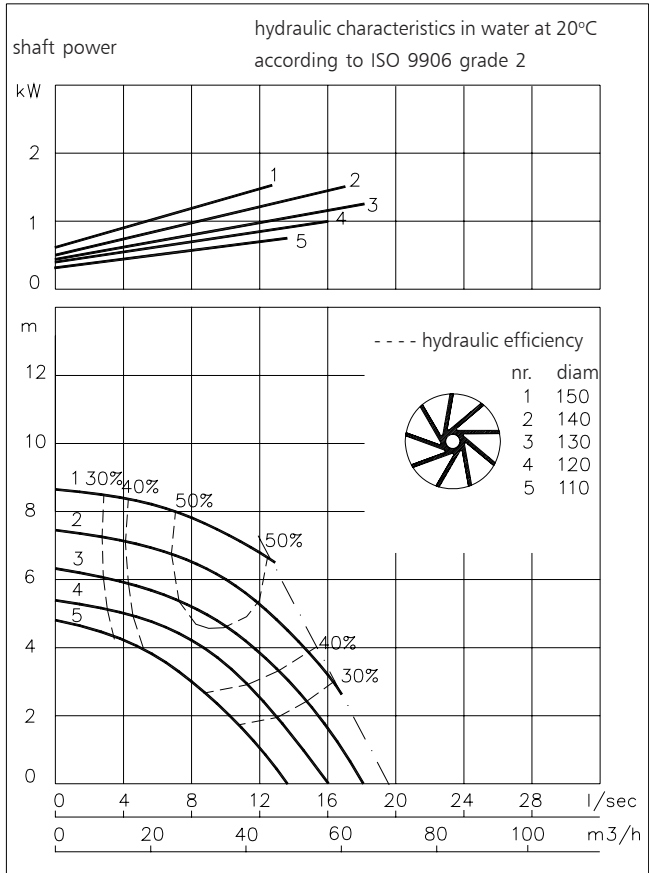
Motor

rated shaft power : 1.5 kW
 rated electrical power : 2.1 kW
 mains : 50 Hz - 3 phase
 nominal speed : 1420 rpm
 rated efficiency : 71 %
 rated power factor (cos phi) : 0.84
 degree of protection : IP 68
 isolation class : H (180 °C)
 max. water temperature : 40 °C
 (higher temperatures on request)
 standard cable length : 10 m

Materials

motor housing : 5 6
 seal housing : 5 6
 volute : 5 6
 impeller : 5
 shaft : 5
 bolts : 5

elastomers : 10
 electrical cable : 9
 seal lubrication : oil
 pump seal : silicon carbide-silicon carbide
 motor seal : carbon-ceramic



| | | |
|----|------------------------|--------------------|
| 1 | cast iron | EN-GJL-250 |
| 2 | sg cast iron | EN-GJS-400-15 |
| 3 | stainless steel 431 | X20 CrNi 17 2 |
| 4 | stainless steel 304 | X5 CrNi 18 10 |
| 5 | stainless steel 316 | X5 CrNiMo 17 12 2 |
| 6 | stainless steel 329 | X4 CrNiMoN 27 5 2 |
| 7 | wear resistant sg iron | HB 500 |
| 8 | nitrile | (NBR) |
| 9 | neoprene | (CR) |
| 10 | viton | (FPM) |
| 11 | Nihard 4 | G-X300CrNiSi 9 5 2 |

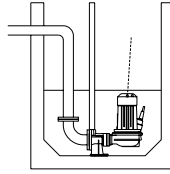
www.robotpumps.com

Engineered for life



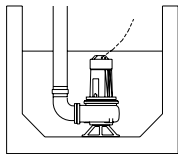
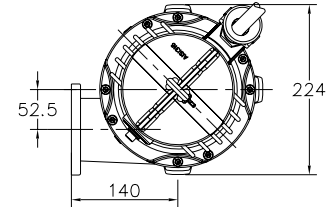
Installation options

RW2112DC



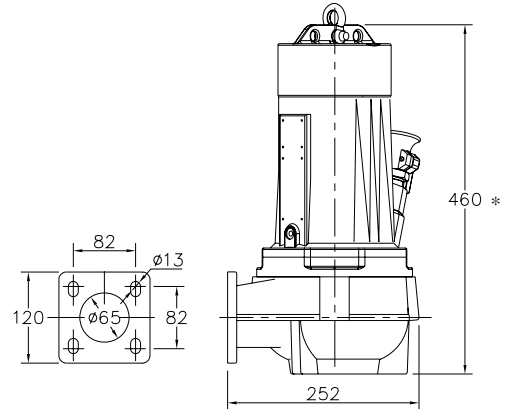
V

Guide bar coupling:
Type V65 or V80



F

Freestanding:
With support and
75mm hose adapter
or G3" threaded
connection



The motor is cooled by the surrounding water.

* version ER: 560

| Version | Weight | Optional: |
|---|--------|--|
| BR Basic Stainless Steel Standard with thermostiches All parts in stainless steel 316 | 43 kg | Flexible protective sheating for cable (AISI 316) Water detector in motor and oil housing (for explosion proof version only in oil housing with external cable) |
| BD Basic Duplex Steel Standard with thermostiches All casted parts in stainless steel 329 | 43 kg | |
| ER Explosion proof Certified according to: II 2 G Ex de IIB c T4 Standard with thermostiches All parts in stainless steel 316 | 55 kg | |

Motor connection details

| | | number of cables x number of cores x cross section [mm ²] | | | | | | |
|-----------------|---------------------|---|--|--|---|--|-------------------------|--|
| voltage [V]* | rated current[A] | | | | with waterdetector and/or thermostiches | | explosion proof version | |
| | | | | | DOL-start | | DOL-start | |
| 220 | 6.6 | | | | 1x7x2.5 | | 1x7x2.5 | |
| 380 | 3.8 | | | | 1x7x2.5 | | 1x7x2.5 | |
| 400 | 3.6 | | | | 1x7x2.5 | | 1x7x2.5 | |
| 415 | 3.5 | | | | 1x7x2.5 | | 1x7x2.5 | |
| 500 | 2.9 | | | | 1x7x2.5 | | 1x7x2.5 | |

starting current DOL-start : 4.8 x rated current

* other voltages on request

We reserve the right to alter specifications without prior notice.