



# ITT

## ROBOT PUMPS

### Vortex stainless steel pump

### RW2140DD

### 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 : 100 mm  
 suction diameter : 100 mm  
 discharge diameter : 100 mm  
 impeller diameters : 195-165 mm  
 recommended min. flow : 6 l/s (21 m<sup>3</sup>/h)

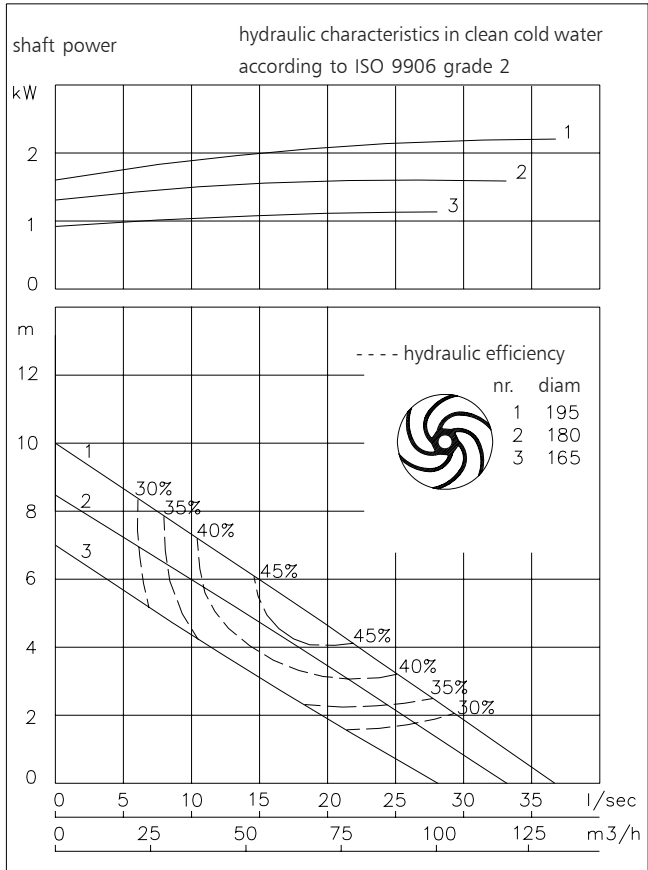
#### Motor

rated shaft power : 2.2 kW  
 rated electrical power : 3.0 kW  
 mains : 50 Hz - 3 phase  
 nominal speed : 1375 rpm  
 rated efficiency : 71 %  
 rated power factor (cos phi) : 0.89  
 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 6  
 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

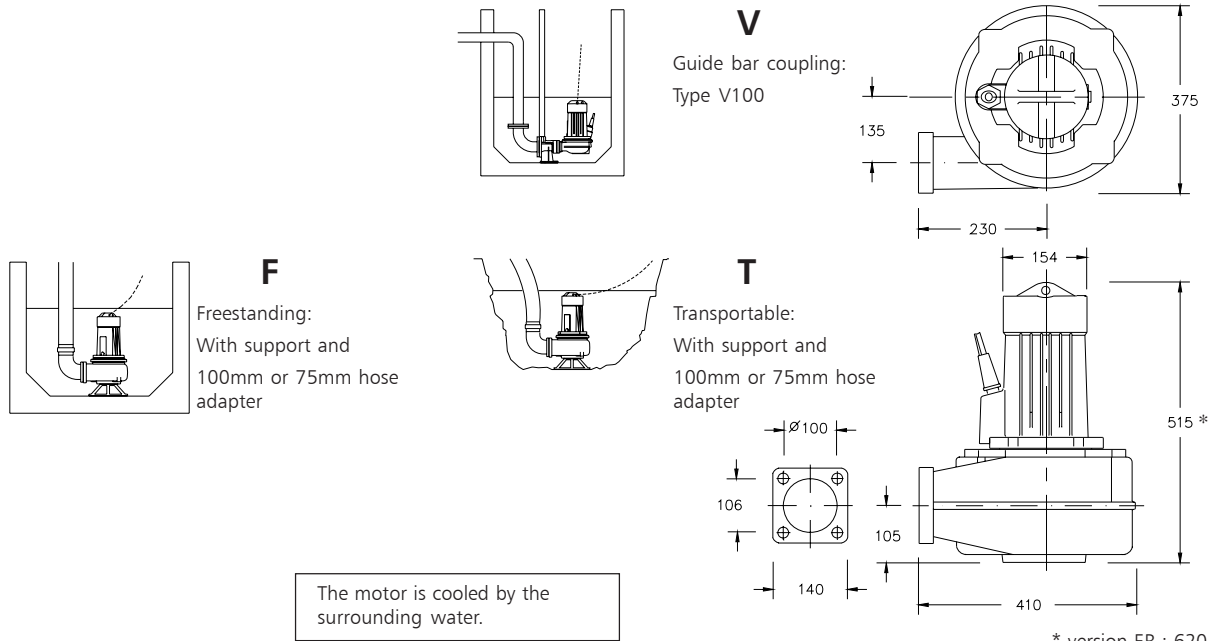
[www.robotpumps.com](http://www.robotpumps.com)

*Engineered for life*



### Installation options

### RW2140DD



#### Version

#### Weight

##### BR Basic Stainless Steel

Standard with thermostiches  
All parts in stainless steel 316

78 kg

##### BD Basic Duplex Steel

Standard with thermostiches  
All casted parts in stainless steel 329

78 kg

##### ER Explosion proof

Certified according to: II 2 G Ex de IIB c T4  
Standard with thermostiches  
All parts in stainless steel 316

90 kg

#### Optional:

**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)

### Motor connection details

		number of cables x number of cores x cross section [mm <sup>2</sup> ]					
voltage [V]*	rated current[A]					explosion proof version	
		with waterdetector and/or thermostiches					
		DOL-start	YD-start	DOL-start	YD-start	DOL-start	YD-start
220	9.1	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5
380	5.3	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5
400	5.0	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5
415	4.8	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5
500	4.0	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5	1x7x2.5	1x10x1.5

starting current DOL-start : 3.4x rated current

starting current YD-start : 1.1x rated current

\* other voltages on request

We reserve the right to alter specifications without prior notice.