



# ITT

## ROBOT PUMPS

### Vortex stainless steel pump

### RW2122DD

### 50 Hz

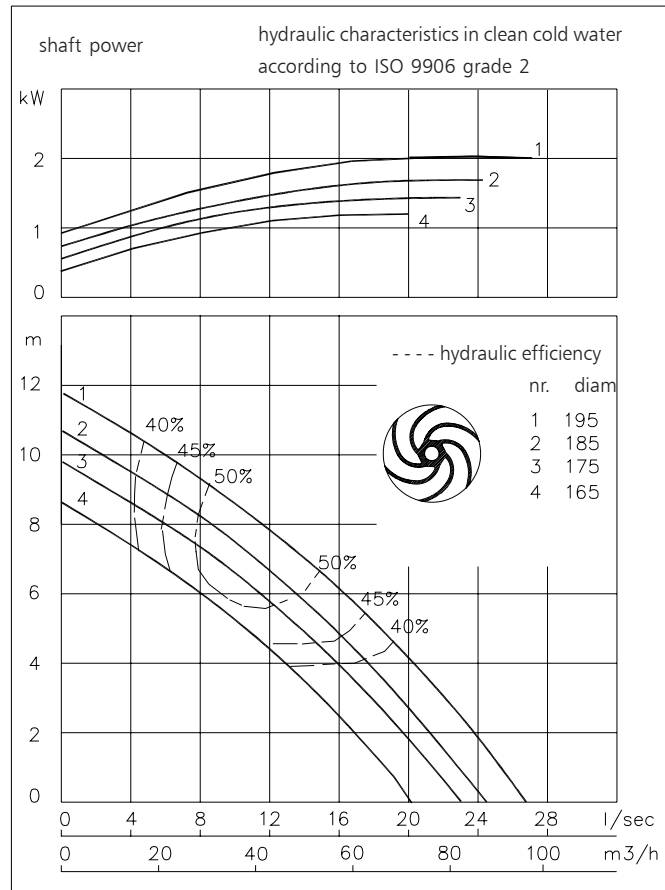
The vortex stainless steel pumps are designed to pump a wide variety of solids contaminated liquids in many applications. Vortex pumps are used for sewage and other waste water applications. The pump can be used in aggressive applications pH = 1-13. Standard elastomers are in FPM (Viton).

#### Pump

solids passage : 65 mm  
 suction diameter : 72 mm  
 discharge diameter : 65 mm  
 impeller diameters : 195-165 mm  
 recommended min. flow : 2 l/s (8 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

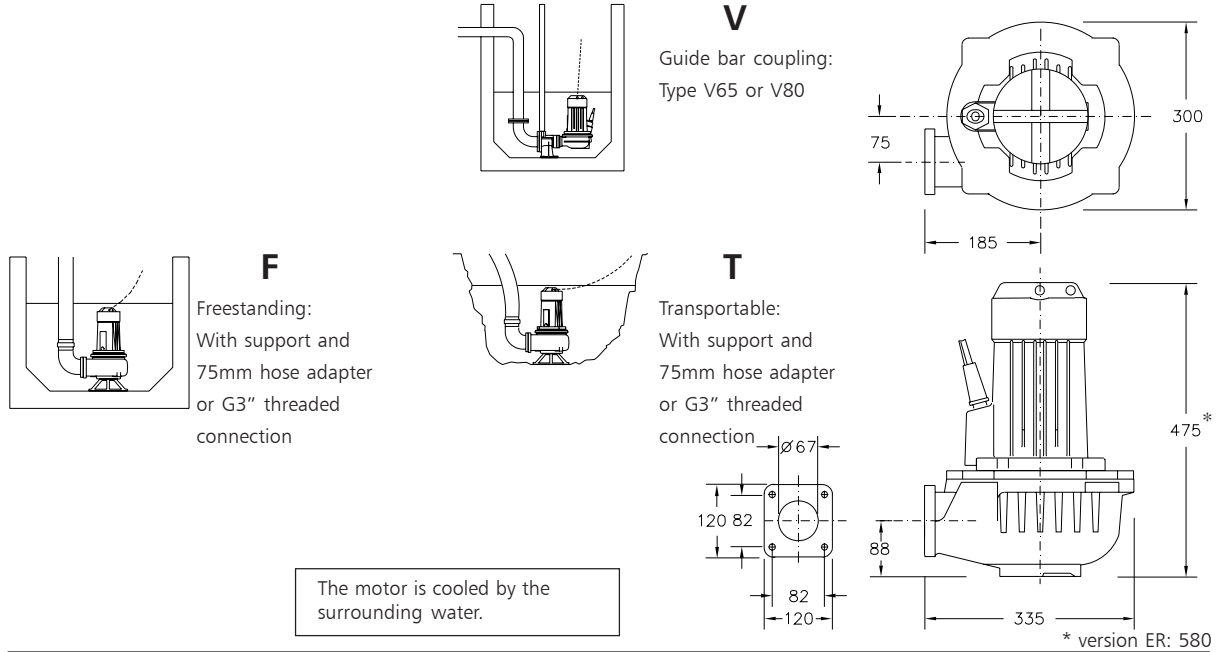
[www.robotpumps.com](http://www.robotpumps.com)

*Engineered for life*



### Installation options

### RW2122DD



Version	Weight	Optional:
<b>BR Basic Stainless Steel</b> Standard with thermostiches All parts in stainless steel 316	62 kg	<b>Flexible protective sheating for cable</b> (AISI 316)
<b>BD Basic Duplex Steel</b> Standard with thermostiches All casted parts in stainless steel 329	62 kg	<b>Water detector</b> in motor and oil housing (for explosion proof version only in oil housing with external cable)
<b>ER Explosion proof</b> Certified according to: II 2 G Ex de IIB c T4 Standard with thermostiches All parts in stainless steel 316	75 kg	

### Motor connection details

voltage [V]*	rated current[A]	number of cables x number of cores x cross section [mm²]					
				with waterdetector and/or thermostiches		explosion proof version	
				DOL-start	YD-start	DOL-start	
220	9.1			1x7x2.5	1x10x1.5	1x7x2.5	
380	5.3			1x7x2.5	1x10x1.5	1x7x2.5	
400	5.0			1x7x2.5	1x10x1.5	1x7x2.5	
415	4.8			1x7x2.5	1x10x1.5	1x7x2.5	
500	4.0			1x7x2.5	1x10x1.5	1x7x2.5	

starting current DOL-start : 3.4 x rated current \* other voltages on request  
 starting current YD-start : 1.1 x rated current We reserve the right to alter specifications without prior notice.