



# ITT

## ROBOT PUMPS

### Vortex stainless steel pump

### RW2120BB

### 50 Hz

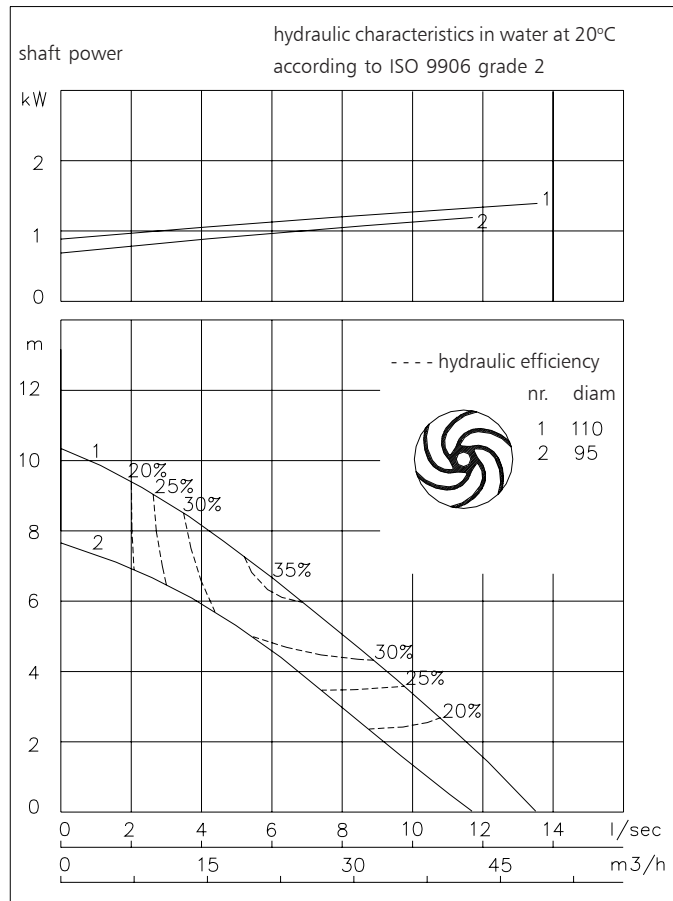
The vortex stainless steel pumps are designed to pump a wide variety of solids contaminated liquids in many applications. Vortex pumps are used for sewage and other waste water applications. The pump can be used in aggressive applications pH = 1-13. Standard elastomers are in FPM (Viton).

#### Pump

solids passage : 65 mm  
 suction diameter : 65 mm  
 discharge diameter : 65 mm  
 impeller diameters : 110 - 95 mm  
 recommended min. flow : 2 l/s (8 m<sup>3</sup>/h)

#### Motor

rated shaft power : 1.5 kW  
 rated electrical power : 2.1 kW  
 mains : 50 Hz - 3 phase  
 nominal speed : 2790 rpm  
 rated efficiency : 69 %  
 rated power factor (cos phi) : 0.91  
 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

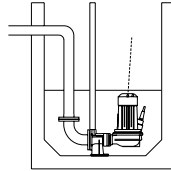
[www.robotpumps.com](http://www.robotpumps.com)

*Engineered for life*



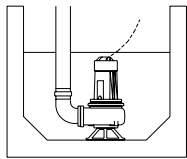
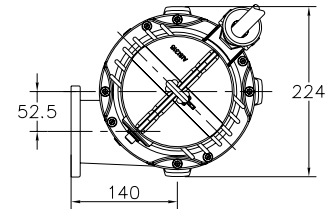
### Installation options

### RW2120BB



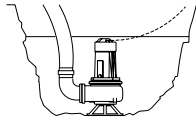
**V**

Guide bar coupling:  
Type V65 or V80



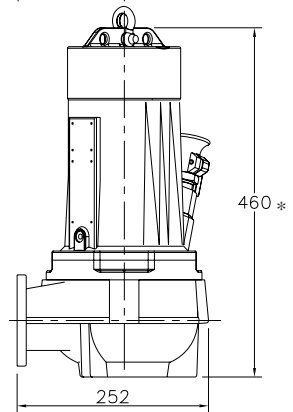
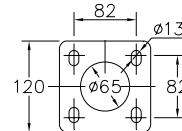
**F**

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



**T**

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



\* version ER: 560

The motor is cooled by the surrounding water.

### Version

### Weight

#### BR Basic Stainless Steel

Standard with thermostats  
All parts in stainless steel 316

36 kg

#### BD Basic Duplex Steel

Standard with thermostats  
All casted parts in stainless steel 329

36 kg

#### ER Explosion proof

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

49 kg

### Optional:

**Flexible protective sheathing 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]				with waterdetector and/or thermostatches		explosion proof version	
					DOL-start		DOL-start	
220	6.1				1x7x2.5		1x7x2.5	
380	3.5				1x7x2.5		1x7x2.5	
400	3.3				1x7x2.5		1x7x2.5	
415	3.2				1x7x2.5		1x7x2.5	
500	2.7				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.