



# ITT

## ROBOT PUMPS

### Channel pump

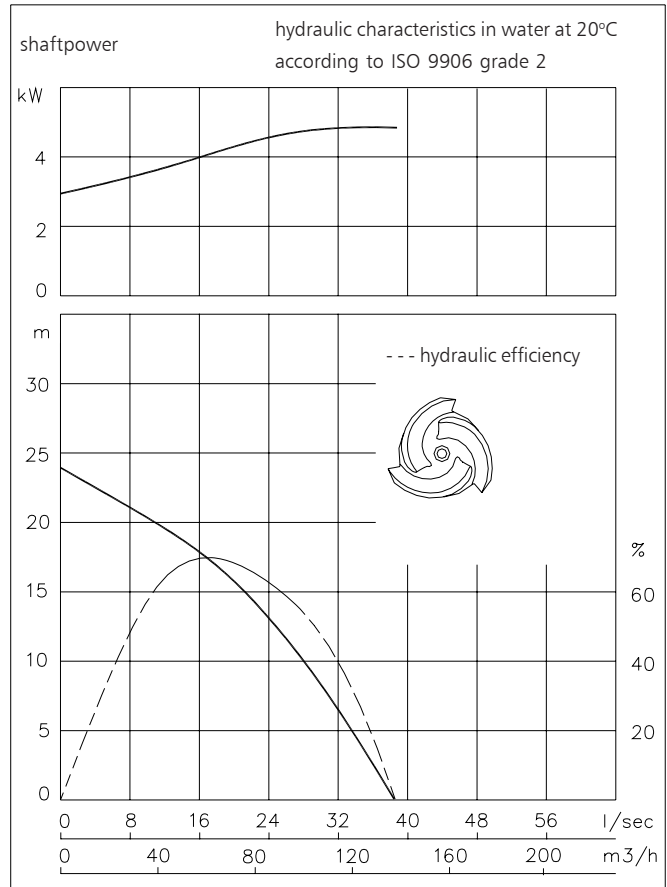
### RC4115BJ

### 50 Hz

The channel impeller pumps are designed to pump lightly contaminated waste water at high efficiencies. RC pumps are equipped with an open channel impeller running against an adjustable suction cover. Excellent for drainage or leakage water.

<b>Pump</b>	3 channels
solids passage	: 30 mm
suction diameter	: 80 mm
discharge diameter	: 80 mm
impeller diameter	: 107 mm
recommended minimum flow	: 3.5 l/s (13 m <sup>3</sup> /h)

<b>Motor</b>	
rated shaft power	: 5.0 kW
rated electrical power	: 6.1 kW
mains	: 50 Hz - 3 phase
speed	: 2900 rpm
motor efficiency	: 82 %
rated power factor (cos phi)	: 0.90
degree of protection	: IP 68
isolation class	: F (155 °C)
max. water temperature (higher temp. on request)	: 40 °C
standard cable length	: 10 m



Pump curves are for cast iron only.

### Materials

motor housing	: 1
seal housing	: 1
volute	: 1
impeller	: 1
suction cover	: 1
shaft	: 3 5
bolts	: 4 5
elastomers	: 8+9 10
electrical cable	: 9
mechanical seals	: oil lubricated
pump seal	: silicon carbide-silicon carbide
motor seal	: carbon-ceramic
primer	: Alkyd primer
top coating	: Two component high-build polyurethane coating

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)

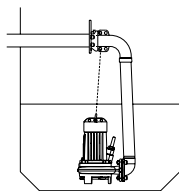
[www.ittwwwalphen.com](http://www.ittwwwalphen.com)

*Engineered for life*

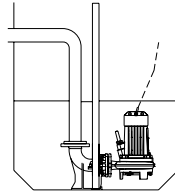


### Installation options

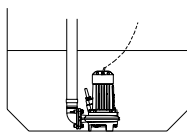
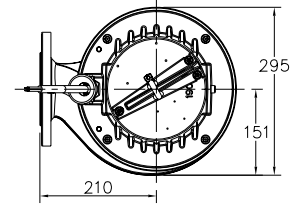
### RC4115BJ



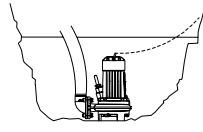
**H**  
Header coupling:  
Type HK80



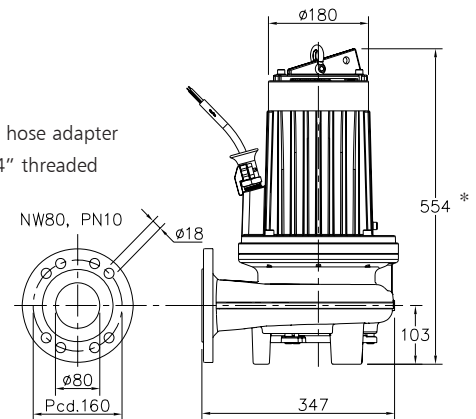
**V**  
Guide bar coupling:  
Type V80-N



**F**  
Freestanding:  
With 75mm hose adapter  
or R3" or R4" threaded  
connection



**T**  
With 75mm hose adapter  
or R3" or R4" threaded  
connection



The motor is cooled by the surrounding water.

\* version E: 604

Version	Weight
<b>B Basic</b>	84 kg
<b>E Explosion proof version</b> Certified according to: II 2 G EEx de IIB c T4	103 kg
<b>C Version with coolingsystem</b> Internal or external circulation (external cooling water flow minimal 0.15 l/s)	99 kg

**Optional:**  
**Thermoswitches** in motorwindings. Standard for explosion proof version (2 sets) and coolingsystem  
**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

voltage [V]*	rated current[A]	number of cables x number of cores x cross section [mm <sup>2</sup> ]					
				with waterdetector and/or thermoswitches		explosion proof version	
		DOL-start	YD-start	DOL-start	YD-start	DOL-start	YD-start
220	17.8	1x4x2.5	1x7x1.5	1x7x2.5	1x10x1.5	1x7x2.5	1x7x2.5 + 1x4x2.5
380	10.3	1x4x2.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	1x7x2.5 + 1x4x2.5
400	9.8	1x4x2.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	1x7x2.5 + 1x4x2.5
415	9.4	1x4x2.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	1x7x2.5 + 1x4x2.5
500	7.8	1x4x2.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	1x7x2.5 + 1x4x2.5

starting current DOL-start : 6.2 x rated current

starting current YD-start : 2.1 x rated current

\* other voltages on request

We reserve the right to alter specifications without prior notice.