ITT

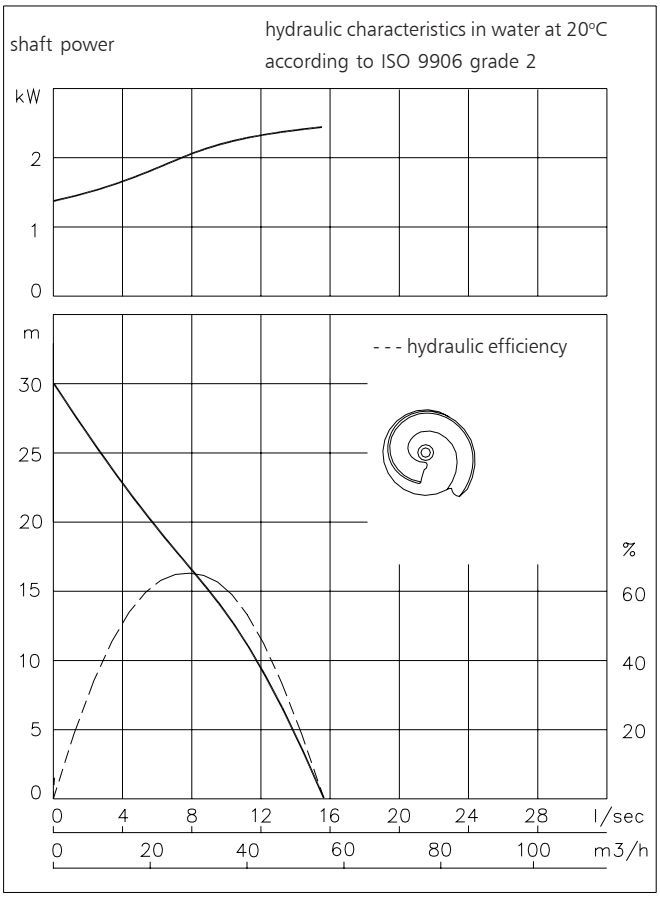
ROBOT PUMPS

Channel pump

RC2210BE

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.



Pump curves are for cast iron only.

Pump

	1 channel
solids passage	: 30x50 mm
suction diameter	: 50 mm
discharge diameter	: 50 mm
impeller diameter	: 127 mm
recommended minimum flow	: 1.5 l/s (5 m³/h)

Motor

rated shaft power	: 2.6 kW
rated electrical power	: 3.5 kW
mains	: 50 Hz - 3 phase
speed	: 2900 rpm
motor efficiency	: 74 %
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

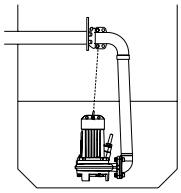
Materials

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)

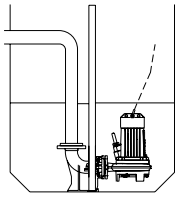
Installation options

RC2210BE



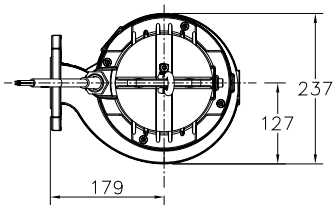
H

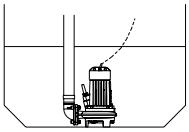
Header coupling
type HK65 or HK80



V

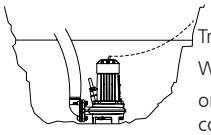
Guide bar coupling:
Type V50 or V65-N





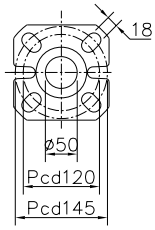
F

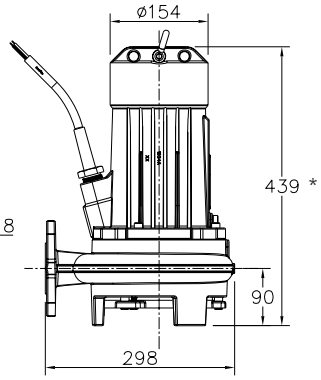
Freestanding:
With 75mm hose adapter
or R2.5" or R3" threaded connection



T

Transportable:
With 75mm hose adapter
or R2.5" or R3" threaded connection





The motor is cooled by the surrounding water.

* version E: 539

Version

		Weight
B	**Basic**	51 kg
E	**Explosion proof version** Certified according to: II 2 G Ex de IIB c T4	58 kg

Optional:

Thermoswitches in motorwindings
Standard for explosion proof version (2 sets)

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 [mm²]					
voltage	rated			with waterdetector and/or thermoswitches		explosion proof version	
[V]*	current[A]	DOL-start	YD-start	DOL-start	YD-start	DOL-start	
220	10.2	1x4x1.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	
380	5.9	1x4x1.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	
400	5.6	1x4x1.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	
415	5.4	1x4x1.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	
500	4.5	1x4x1.5	1x7x1.5	1x7x1.5	1x10x1.5	1x7x2.5	

starting current DOL-start : 4.6 x rated current

starting current YD-start : 1.5 x rated current

* other voltages on request

We reserve the right to alter specifications without prior notice.