



HRZ RECIRCULATION PUMPS

Reliable recirculation

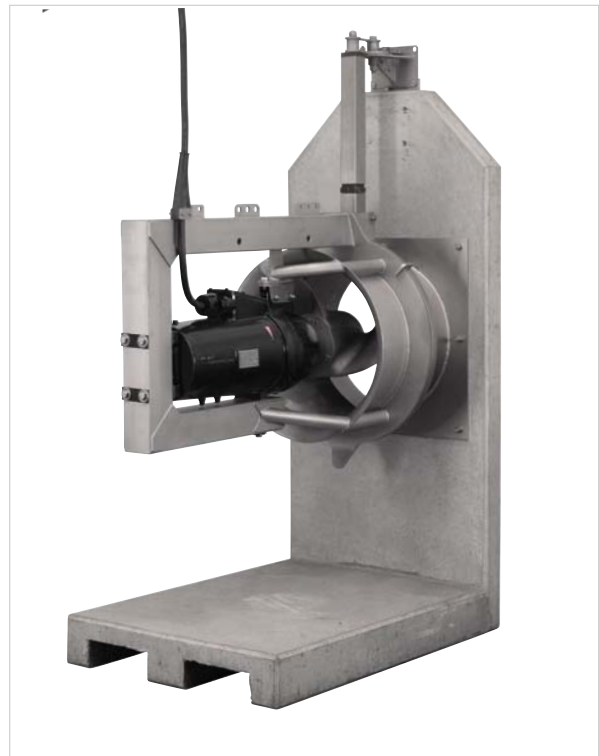
With their high level of reliability and enormous performance capacity, HRZ recirculation pumps will always keep your systems in motion.

The ideal solution for waste water treatment and flooding protection

- For pump applications with a high flow rate and low delivery head, up to a maximum dry matter content of 1.5 %
- Flow optimised propeller blade design

Possible application areas:

- Pumping activated sludge from nitrification to denitrification
- Fish farming
- Leisure parks (water slides)
- Natural bathing ponds



Example of a pump installation. Recirculation pumps are usually equipped with a hydraulic inlet part, which is mounted to the connecting flange.

KEY TO DESIGNATIONS

Series	Diameter (mm)	Motor input	Motor pole number	Propeller rotational speed
HRZ	300	08	/2	526
	300 mm 500 mm 800 mm	(kW x 10)	2 = 2-pole 4 = 4-pole	(rpm)

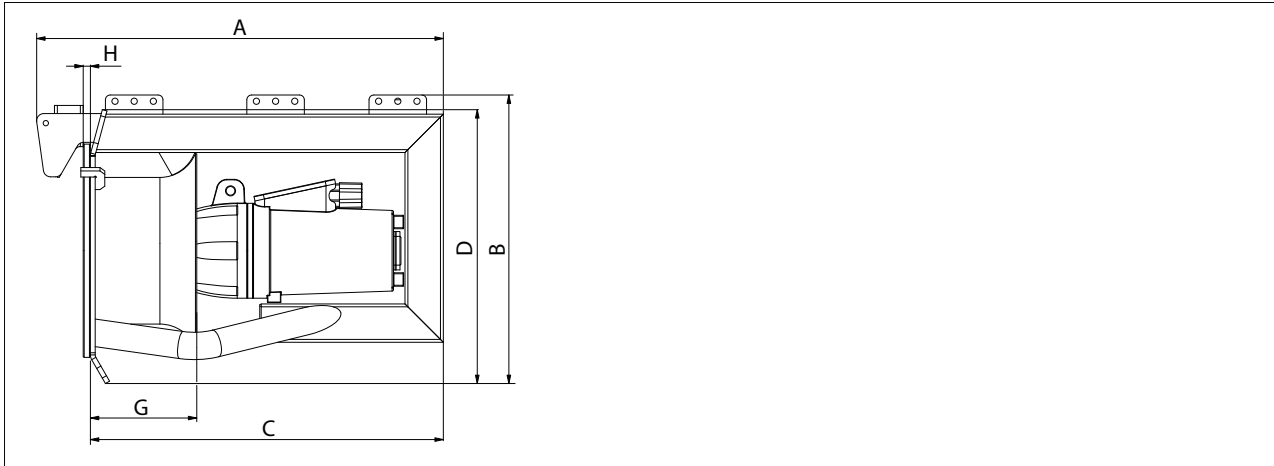
TECHNICAL DATA

Model	Voltage (50 Hz)	Motor input P ₁ (kW)	Motor input P ₂ (kW)	Nominal current (A)	Rotational speed Propeller (rpm)	Number of propeller blades	Weight (kg)
HRZ 300-08/2-526	400 V / 3 Ph	0.9	0.8	2.0	526	3	109
HRZ 300-10/2-606	400 V / 3 Ph	1.2	1.0	2.3	606	3	109
HRZ 300-13/2-678	400 V / 3 Ph	1.5	1.3	2.7	678	3	109
HRZ 300-16/2-745	400 V / 3 Ph	1.9	1.6	3.2	745	3	109
HRZ 300-18/2-806	400 V / 3 Ph	2.1	1.8	3.6	806	3	109
HRZ 300-30/2-517	400 V / 3 Ph	3.4	3.0	5.8	517	3	112
HRZ 300-40/2-593	400 V / 3 Ph	4.5	4.0	7.5	593	3	112
HRZ 300-50/2-684	400 V / 3 Ph	5.8	5.0	9.5	684	3	112
HRZ 300-60/2-752	400 V / 3 Ph	7.0	6.0	14.0	752	3	120
HRZ 300-70/2-814	400 V / 3 Ph	8.1	7.0	15.4	814	3	120
HRZ 500-35/4-257	400 V / 3 Ph	4.0	3.5	7.0	257	3	150
HRZ 500-50/4-291	400 V / 3 Ph	5.6	5.0	12.5	291	3	240
HRZ 500-65/4-343	400 V / 3 Ph	7.2	6.5	14.0	343	3	240
HRZ 500-80/4-378	400 V / 3 Ph	8.7	8.0	19.5	378	3	256
HRZ 500-100/4-412	400 V / 3 Ph	10.9	10.0	22.0	412	3	256
HRZ 800-70/4-263	400 V / 3 Ph	7.7	7.0	14.2	263	3	334
HRZ 800-100/4-303	400 V / 3 Ph	10.9	10.0	22.0	303	3	350
HRZ 800-120/4-323	400 V / 3 Ph	13.1	12.0	28.0	323	3	430
HRZ 800-130/4-340	400 V / 3 Ph	14.3	13.0	26.0	340	3	350
HRZ 800-130/4-375	400 V / 3 Ph	14.3	16.0	26.0	375	3	350
HRZ 800-160/4-355	400 V / 3 Ph	17.3	13.0	33.0	355	3	430
HRZ 800-200/4-388	400 V / 3 Ph	21.7	20.0	40.0	388	3	430
HRZ 800-240/4-417	400 V / 3 Ph	26.2	24.0	47.0	417	3	430

MATERIALS

Propeller	Stainless steel
Gearbox housing	Grey cast iron EN-GJL-250
Mechanical seal	Tungsten carbide/SiC-SiC
Motor housing	Grey cast iron EN-GJL-250
Other seals	NBR
Installation system	Stainless steel
Motor bearing housing	Grey cast iron EN-GJL-250

CONSTRUCTION DIMENSIONS



DIMENSIONS IN MM

Model	A	B	C	D	G	H
HRZ 300-08/2-526	848	602	736	571	220	15
HRZ 300-10/2-606	848	602	736	571	220	15
HRZ 300-13/2-678	848	602	736	571	220	15
HRZ 300-16/2-745	848	602	736	571	220	15
HRZ 300-18/2-806	848	602	736	571	220	15
HRZ 300-30/2-517	848	602	736	571	220	15
HRZ 300-40/2-593	848	602	736	571	220	15
HRZ 300-50/2-684	848	602	736	571	220	15
HRZ 300-60/2-752	848	602	736	571	220	15
HRZ 300-70/2-814	848	602	736	574	220	15
HRZ 500-35/4-257	910	835	757	824	230	25
HRZ 500-50/4-291	1119	855	996	824	230	25
HRZ 500-65/4-343	1119	855	996	824	230	25
HRZ 500-80/4-378	1119	855	996	824	230	25
HRZ 500-100/4-412	1119	855	996	824	230	25

Model	A	B	C	D	G	H
HRZ 800-70/4-263	1129	1237	1006	1225	267	25
HRZ 800-100/4-303	1129	1237	1006	1225	267	25
HRZ 800-120/4-323	1181	1257	1058	1225	267	25
HRZ 800-130/4-340	1129	1237	1006	1225	267	25
HRZ 800-130/4-375	1129	1237	1006	1225	267	25
HRZ 800-160/4-355	1181	1257	1058	1225	267	25
HRZ 800-200/4-388	1181	1257	1058	1225	267	25
HRZ 800-240/4-417	1181	1257	1058	1225	267	25

PERFORMANCE RANGE

