GRS

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Impeller with grinder system

General characteristics

- Impeller with grinder system
- 0,9 kW motor power
- 2 poles
- GAS 1 1/2" - DN32 horizontal delivery port

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 1 (one) silicon carbide mechanical seal and 1 (one) lip seal. Ecological dry motor. Pump body in single casting with motor casing. Series not available in explosion-proof version.

Applications

Suitable for lifting soiled wastewaters containing filaments or fibres, and unstrained household sewage in general.

Construction materials

Case	Cast Iron EN-GJL 250
Impeller	Cast iron EN-GJL-250
Nuts and bolts	Stainless Steel - Class A2-70
Standard gasket	Rubber - NBR
Cutter material	Tool Stainless Steel - X102 CrMo17 KU
Cutting disk material	Tool Stainless Steel - X102 CrMo17 KU
Shaft	Stainless Steel - AISI 420
Set of standard mechanical seals	One Silicon carbide mechanical seal (SiC)

Operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 to 10 pH
Viscosity of treated fluid	1 mm^2/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm^3
Maximum acoustic pressure	70 dB
max starts per hour	20

Models available in IECEx certified version

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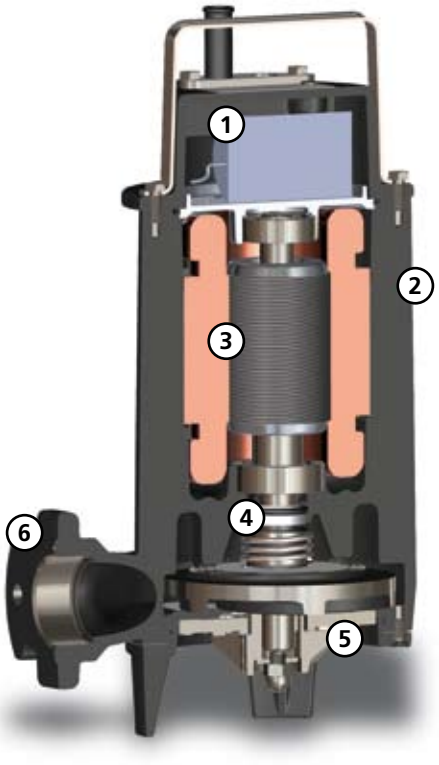
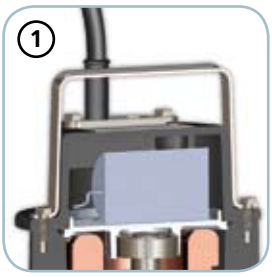


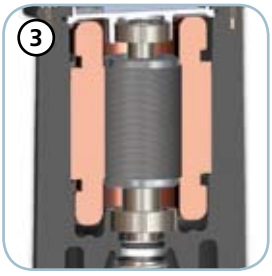


Capacitor/relay

Integral capacitor for single-phase models (relay for three-phase models)

Structure

Constructed in GJL-250 cast iron



Motor

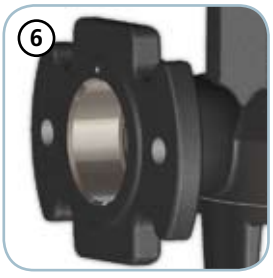
Ecological dry motor with thermal overloads

Mechanical seals

One mechanical seal in silicon carbide (SiC)

Grinder system

Grinder system comprising a revolving cutter and a plate with holes with sharpened edges that fine-chops filaments, preventing fouling of the impeller



Delivery port

Threaded, flanged delivery port for the maximum ease of installation

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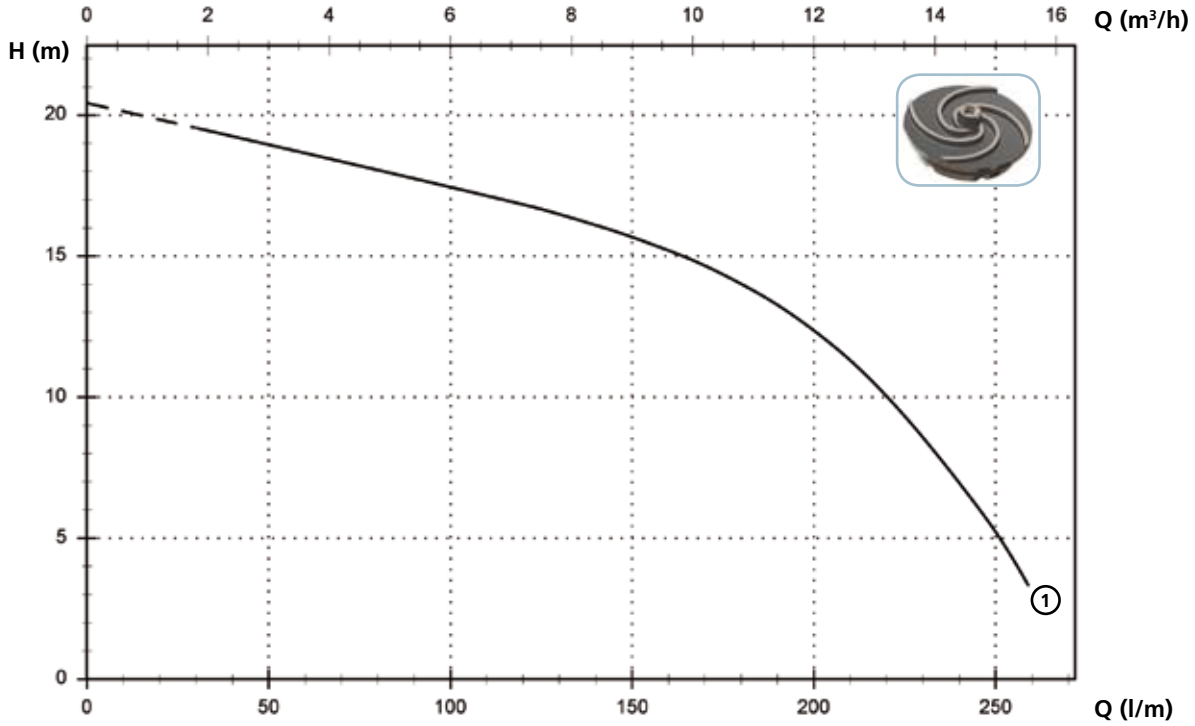
Models with horizontal GAS 1 1/2" threaded - DN32 PN6 flanged delivery port - 2 poles

Performances

	l/s	0	1	2	3	4
	l/min	0	60	120	180	240
	m^3/h	0	3,6	7,2	10,8	14,4
① GRS 100/2/G40H A0CM(T)/50		20,4	18,7	16,8	14,0	7,0



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① GRS 100/2/G40H A0CM/50	230	1	-	0.9	6.6	2900	G 1 1/2"-DN32 PN6	A	-

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① GRS 100/2/G40H A0CT/50	400	3	-	0.9	2.3	2900	G 1 1/2"-DN32 PN6	B	-

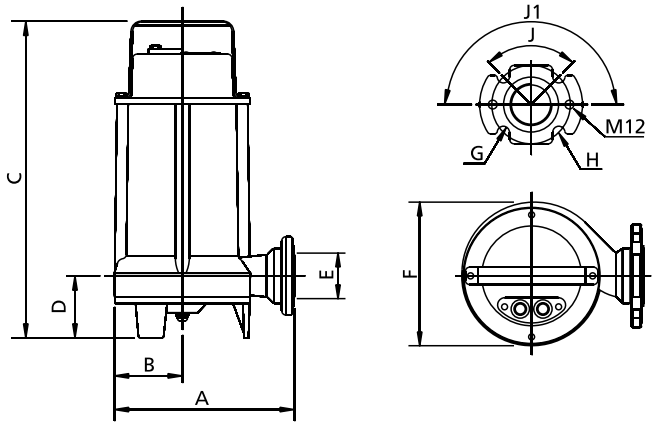
(*) A = H07RN-F 3G1 - 5 m cable length. Optional 10 m cable length.
B = H07RN-F 4G1 - 10 m cable length
Attention: Standard EN 60335-2-41 requires the use of a 10 m cable length in outdoor applications

Versions available

(Key to versions on page 15)

	Electrical variants														Cooling		Mechanical seals			
	NAE	T	TC	TCD	TCDT	TCDGT	TCG	TCST	TCSGT	TS	TR	TRG	FT	CGFT	N	CC	2SIC	SICM	SICAL	2SICAL
GRS 100/2/G40H A0CM/50					●	●									●			●		
GRS 100/2/G40H A0CT/50											●	●			●			●		

Overall dimensions and weights



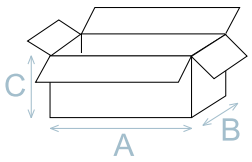
	A	B	C	D	E	F	G	H	J	J1	kg
GRS 100/2/G40H A0CM(T)/50	205	80	365	70	G 1 1/2"	165	14	90	90°	180°	21

Measurements in mm

Packaging dimension

	A	B	C
GRS 100/2/G40H A0CM(T)/50	385	225	245

Dimension in mm



Installations available