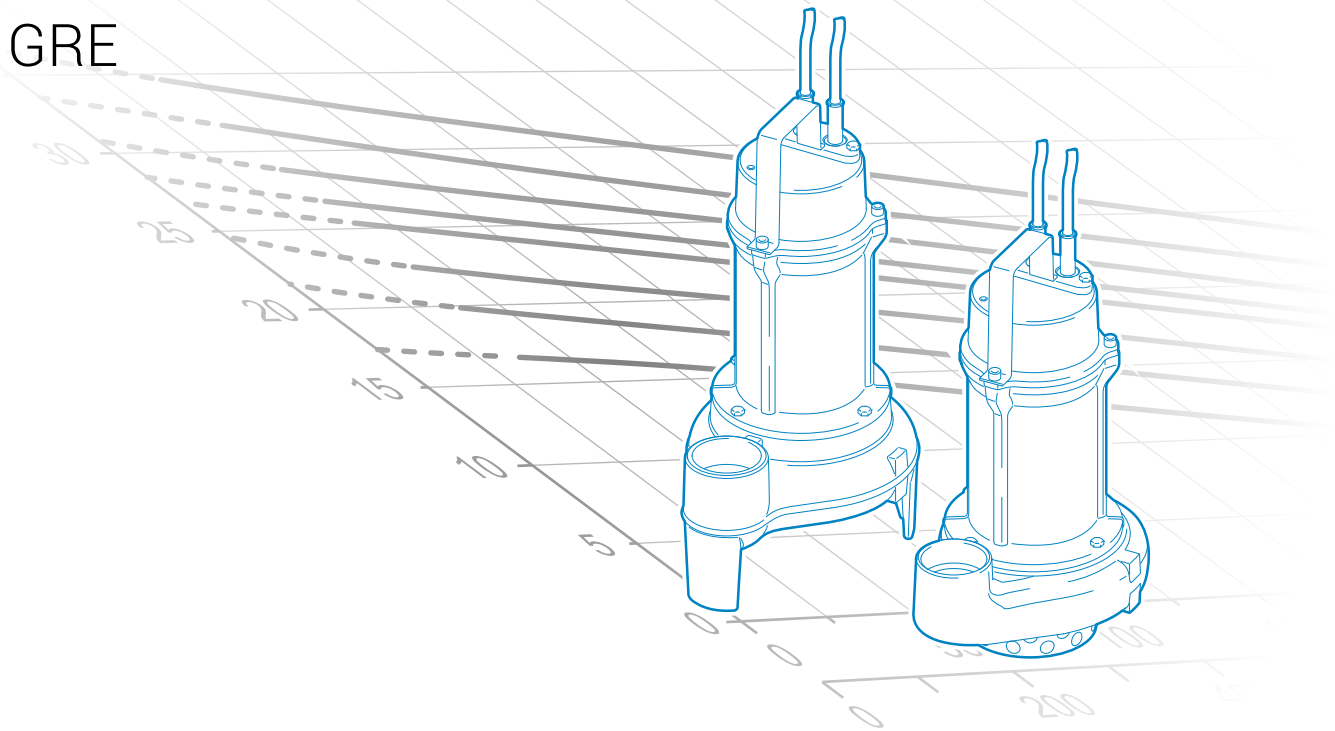




better together

50Hz

E series



D A T A B O O K L E T

zenit.com

EN



better together

E Series

GRE



D A T A B O O K L E T

E Series

General characteristics



- AISI 304 stainless steel lifting and carrying handle.
- Constructed in GJL-250 cast iron
- Ecological dry motor with thermal protection
- Single-phase models with internal capacitor. Three-phase models with motor protection relay (option).
- One mechanical seal in silicon carbide (SiC) and one lip seal

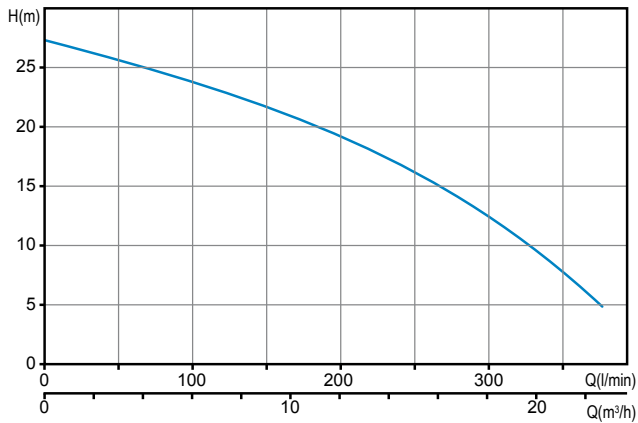


GR (Grinder)

- Impeller with grinder system
- Suitable for lifting soiled wastewaters containing filaments or fibres, and unstrained household sewage in general

Operating ranges

GRE



Key to product code

GRE 50/2/G32V A0BM5

① ② ③ (A) (B) (C) ④ ⑤ ⑥ ⑦ ⑧ ⑨

- | | |
|--------------------------------|----------------------------------|
| ① Family | ⑤ Hydraulic model |
| ② Series | ⑥ Version number |
| ③ Power (HPx100) / motor poles | ⑦ Motor size |
| ④ Delivery rate | ⑧ Motor phases |
| (A) TYPE (GAS thread/Flanged) | M = Single-phase |
| (B) DIAMETER (mm) | T = Three-phase |
| (C) POSITION | ⑨ Power supply voltage frequency |
| V = vertical | 5 = 50Hz |
| H = horizontal | 6 = 60Hz |

Versions available

• Electrical variants

Single-phase models

TC	Thermal protection, capacitor
TCG	Thermal protection, capacitor, float switch
TCDT	Thermal protection, capacitor, startup capacitor, overload protection
TCDGT	Thermal protection, capacitor, startup capacitor, float switch, overload protection

Three-phase models

NAE	No electric accessories installed
TR	Thermal protection, relay
TRG	Thermal protection, relay, float switch

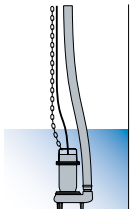
• Cooling system

N	No cooling and/or seal flushing system
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• Set of mechanical seals

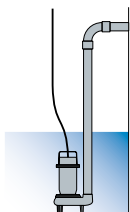
SICM	1 mechanical seal in silicon carbide and 1 lip seal
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Installations



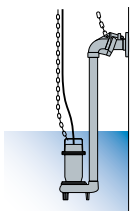
Free installation

The electric pump, standing on its feet or base, is connected to the delivery flexible pipe using a joint fixed to the discharge. This installation allows to move easily the electrical pump.



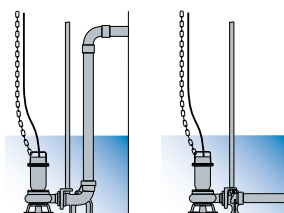
Fixed installation

The electric pump, standing on its feet or base, is connected to the delivery pipe, which is screwed to the discharge if threaded, or fixed to a bend if the port is flanged. The pump-hose connection may be threaded or flanged, depending on the pump fitting.



Installation with external coupler

Available for electric pumps with threaded discharge. The pump unit is supported by a special device fitted to the delivery pipe. This device can be installed at any time without having to empty the tank. It simplifies any maintenance work on the pump, which can be lifted out and resubmerged with great ease. It is recommended in particular for installations of small size, and does not require the pump to be resting on the bottom of the tank.



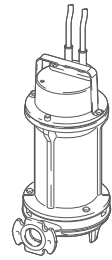
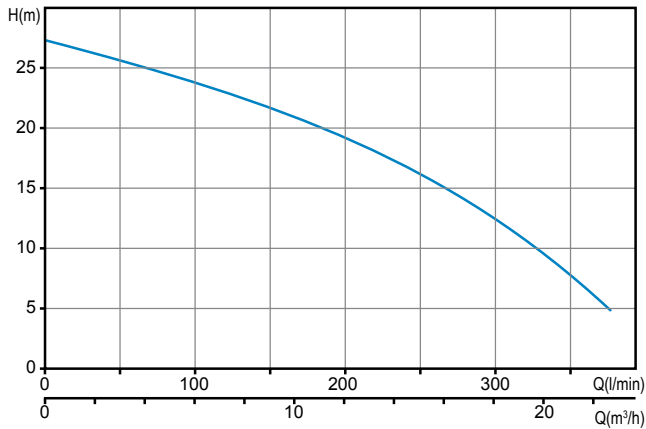
Installation with base coupling foot

For submerged installation, available for electric pumps with flanged or threaded horizontal discharge. The coupling device is fixed to the bottom of the tank and the pump is lowered in with the aid of two guide pipes fitted earlier, until the connection to the foot is completed. The delivery pipe is fixed to the coupling device discharge. This device makes routine checks, any maintenance work or replacement of the pump extremely easy, with no need to empty the tank. A specific kit also allowing pumps with vertical discharge to be installed with the base coupling foot is available.

GRE

Pumps with grinder impeller

Operating ranges



Range characteristics

Motor power	1.5 kW
Poles	2
Insulation class	F
Degree of protection	IP68
Discharge	GAS 2" DN32 horizontal
Free passage	-
Max flow rate	6.3 l/s (378 l/min)
Max head	27.3 m

Motor

Dry motor with thermal protections.

Cable

H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length.

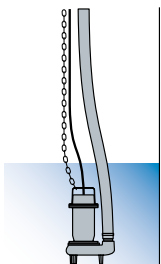
Mechanical seals

One silicon carbide mechanical seal (SiC) and one lip seal (AL)

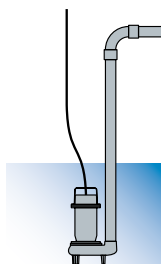
Applications

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

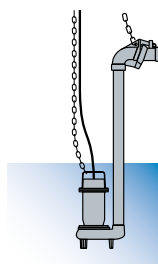
Installations



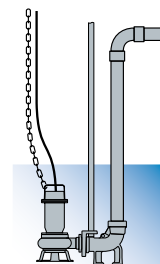
FREE



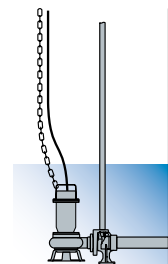
FIXED



with EXTERNAL COUPLER



with BASE COUPLING FOOT



Versions

Electrical variants	TCDT, TCDGT (single-phase models) TR, TRG (three-phase models)
Cooling system	N
Mechanical seals	SICM

Operating specifications

Max operating temperature	0° 0A
PH of treated fluid	ΔΓ ÷ ∂
Viscosity of treated fluid	Δ\^smm Γ
Maximum (mechanical stress)	m E
(mOT rjtonel elds)	m T
Density of treated fluid	mb\ΔX Γ
Acoustic pressure max	8b0T>
Max starts per hour	0E

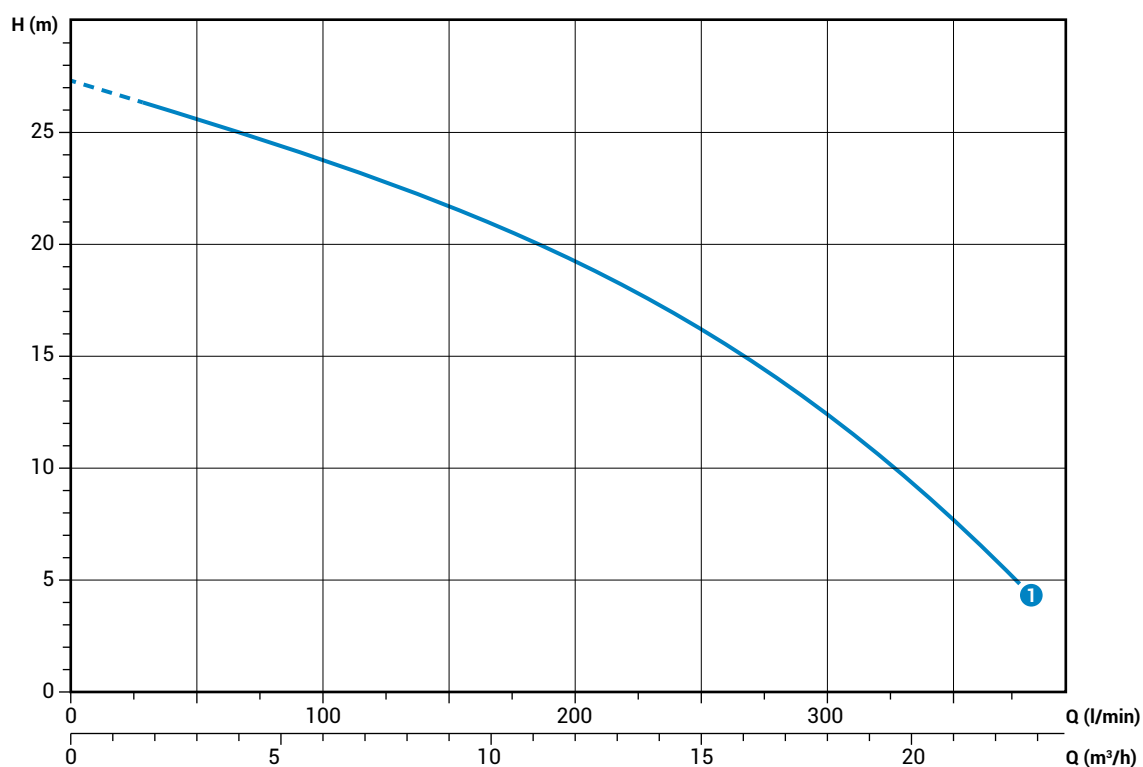
Construction materials

Case	Cast iron EN-GJL 250
Hydraulic parts	Cast iron EN-GJL 250
Impeller	Cast iron EN-GJL 250
Nuts and bolts	Stainless steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless steel - AISI 420
Grinding system	Chromium steel
Paint type	Ecological bicomponent epoxy (~ 80 μm)

GRE 2/G50H**Performances**

	l/s	0	1	2	3	4	5	6
	l/min	0	60	120	180	240	300	360
	m ³ /h	0	3.6	7.2	10.8	14.4	18.0	21.6
① GRE 200/2/G50H A0CM(T)5		27.3	25.2	22.9	20.2	16.8	12.4	6.6

Characteristic curves according to UNI/EN ISO 9906

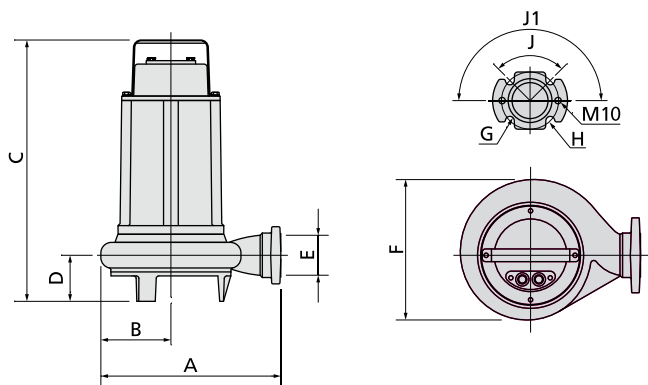
**Technical data**

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① GRE 200/2/G50H A0CM5	230	1	-	1.7	10.0	2900	Dir	4G1	G 2" - DN32	-

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① GRE 200/2/G50H A0CT5	400	3	-	1.7	3.8	2900	Dir	4G1	G 2" - DN32	-

GRE

Overall dimensions and weights



	A	B	C	D	E	F	G	H	J	J1	kg
GRE 200/2/G50H AOCM(T)5	285	110	410	75	G 2"-DN32	220	14	90	90°	180°	26

Dimensions in mm

Packaging dimension



	X	Y	C
GRE 200/2/G50H AOCM(T)5	285	475	235

Dimensions in mm



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