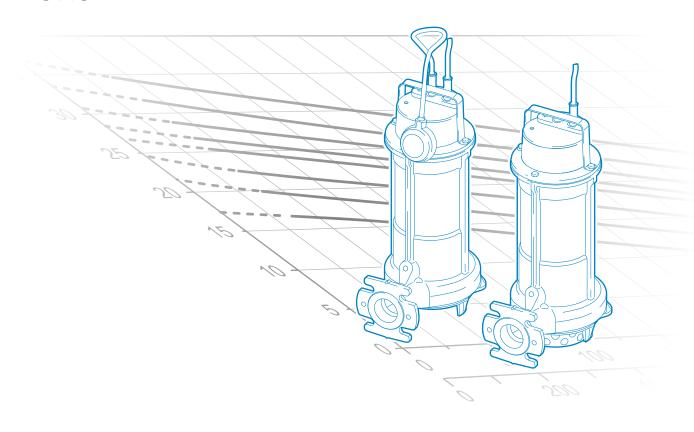




S series

GRS



D A T A B O O K L E T



S Series



D A T A B O O K L E T

S Series

General characteristics



- AISI 304 stainless steel lifting and carrying handle
- Constructed in GJL-250 cast iron
- Ecological dry motor with thermal overloads
- · Single-phase models with internal capacitor and control cabinet with circuit breaker capacitor and overload protection
- Three-phase models with motor protection relay
- One mechanical seal in silicon carbide (SiC) and one lip seal
- Grinder system comprising a revolving cutter and a plate with holes with sharpened edges that fine-chops filaments, preventing fouling of the impeller (GRS)
- Intake strainer in stainless steel (APS)

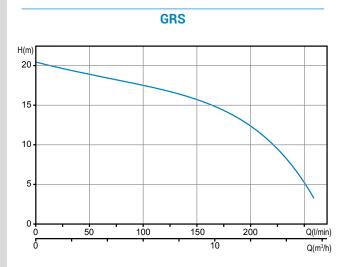
Hydraulic families



GR (Grinder)

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

Operating ranges



Versions available

Electrical variants

Single-phase models

Thermal protection, capacitor, startup capacitor, overload protection

TCDGT Thermal protection, capacitor, startup capacitor, overload protection, float switch

Three-phase models

TR Thermal protection, relais

TRG Thermal protection, relais, float switch

Cooling system

No cooling and/or seal flushing system

Set of mechanical seals

SICM 1 mechanical seal in silicon carbide and 1 lip seal

Key to product code

GRS 100/2/G32V A0BM5

1 2

4

56789

- (1) Family
- ② Series
- 3 Power (HPx100) / motor poles
- 4 Delivery rate
 - (A) TYPE (GAS thread/Flanged)
 - (B) DIAMETER (mm)
 - (C) POSITION

V = vertical

H = horizontal

- (5) Hydraulic model
- 6 Version number
- 7 Motor size
- 8 Motor phases

M = Single-phase

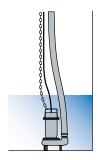
T = Three-phase

Power supply voltage frequency

5 = 50Hz

6 = 60Hz

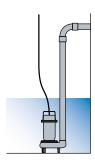
Installations



Free installation

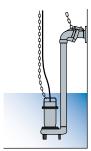
The electric pump, standing on its feet or base, is connected to the delivery flexible pipe using a joint fixed to the discharge.

This installation allows to move easily the electrical pump



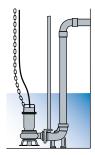
Fixed installation

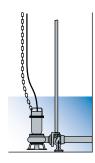
The electric pump, standing on its feet or base, is connected to the delivery pipe, which is screwed to the discharge if threaded, or fixed to a bend if the port is flanged. The pump-hose connection may be threaded or flanged, depending on the pump fitting.



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.





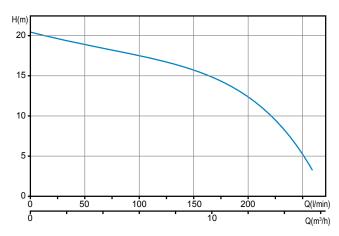
Installation with base coupling foot

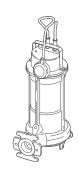
For submerged installation, available for electric pumps with flanged or threaded horizontal discharge. The coupling device is fixed to the bottom of the tank and the pump is lowered in with the aid of two guide pipes fitted earlier, until the connection to the foot is completed. The delivery pipe is 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.

GRS

Pumps with vortex impeller

Operating ranges





Range characteristics

Motor power 0.9 kW
Poles 2
Insulation class F
Degree of protection IP68

Discharge GAS 1½" DN32 horizontal

Free passage -

Max flow rate 4.3 l/s (258 l/min)

Max head 20.4 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.

Versions

Electrical variants TCDT, TCDGT (single-phase models)

TR, TRG (three-phase models)

40 °C

Cast iron EN-GJL 250

Cast iron EN-GJL 250

Cast iron EN-GJL 250

Cooling system N Mechanical seals SICM

Operating specifications

Max operating temperature PH of treated fluid 1 mm²/s
Viscosity of treated fluid 3 m (cable length 5m)
Maximum immersion depth 7 m (cable length 10m)
Density of treated fluid 1 Kg/dm³
Acoustic pressure max <70dB
Max starts per hour 30

Construction materials

Case
Hydraulic parts
Impeller
Nuts and bolts
Standard gasket
Shaft
Grinding system
Paint type

Stainless steel - Class A2-70 Rubber - NBR Stainless steel - AISI 420

Chromium steel

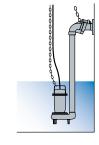
Ecological bicomponent epoxy

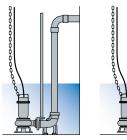
(~ 80 µm)

Installations



FIXED



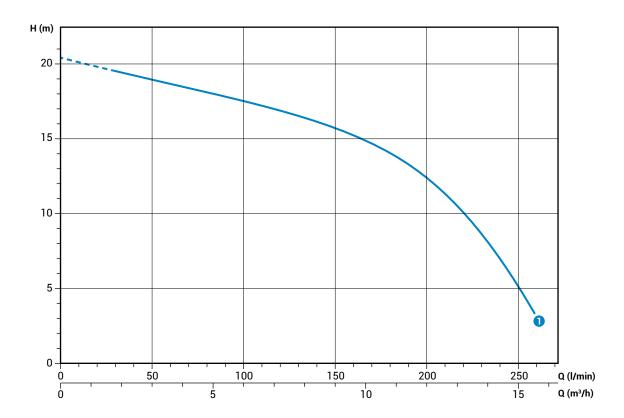




with EXTERNAL COUPLER with BASE COUPLING FOOT

Performances

	l/s	0	1	2	3	4
	l/min	0	60	120	180	240
	m³/h	0	3.6	7.2	10.8	14.4
1 GRS 100/2/G40H A0CM(T)5		20.4	18.7	16.8	14.0	7.0



Technical data

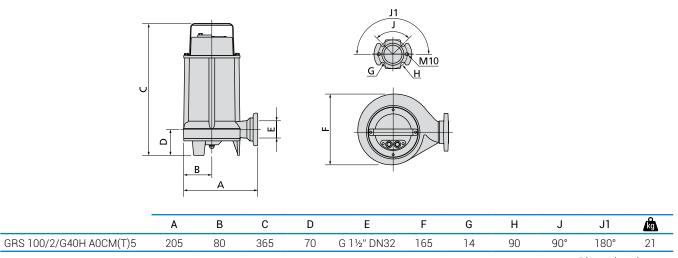
	٧	Phases	P1 (kW)	P2 (kW)	Α	Rpm	Start	Cable	Ø	Free passage
1 GRS 100/2/G40H A0CM5	230	1	-	0.9	6.6	2900	Dir	4G1	G 1½" - DN32	-

	V	Phases	P1 (kW)	P2 (kW)	Α	Rpm	Start	Cable	Ø	Free passage
① GRS 100/2/G40H A0CT5	400	3	-	0.9	2.3	2900	Dir	4G1	G 1½" - DN32	=

Characteristic curves according to UNI EN ISO 9906

GRS

Overall dimensions and weights



Dimensions in mm





	Χ	Υ	Z
GRS 100/2/G40H A0CM(T)5	225	385	245

Dimensions in mm

