motralec

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Impeller with grinder system



General characteristics

- Impeller with grinder system
- 1,1 ÷ 1,5 kW motor power
- 2 poles
- GAS 11/2" DN32 horizontal delivery port

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals assembled opposing in inspectable oil sump. Ecological dry motor. Separate pump body. Series with explosion-proof certification.

Applications

Designed specifically for use where there are traces of flammable liquids or in potentially explosive atmospheres, the GRF is especially recommended for wastewaters containing filaments or fibres, and unstrained civil and industrial wastewaters in general.

Construction materials

Case Impeller Nuts and bolts Standard gasket Cutter material Cutting disk material Shaft Set of standard mechanical seals Cast Iron EN-GJL 250 Cast iron EN-GJL-250 Stainless Steel - Class A2-70 Rubber - NBR - VITON Tool Stainless Steel - X102 CrMo17 KU Tool Stainless Steel - X102 CrMo17 KU Stainless Steel - AISI 420 Two Silicon carbide mechanical seals (2SiC)

operating limits

Maximum operating temperature
PH of treated fluid
Viscosity of treated fluid
Maximum immersion depth
Density of treated fluid
Maximum acoustic pressure
max starts per hour

40 °C 6 to 10 pH 1 mm²/s 20 m 1 Kg/dm³ 70 dB 20

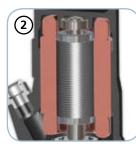






Handle/Cable gland

Cast iron lifting and carrying handle. The GAS thread ring-nut can be removed to fix a rigid or flexible duct to the cable gland to protect the power supply cable



Motor

Ecological dry motor with thermal overloads



Mechanical seals

Two mechanical seals in silicon carbide (2SiC)



Oil sump

Large oil sump to guarantee longer mechanical seal lifetime



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



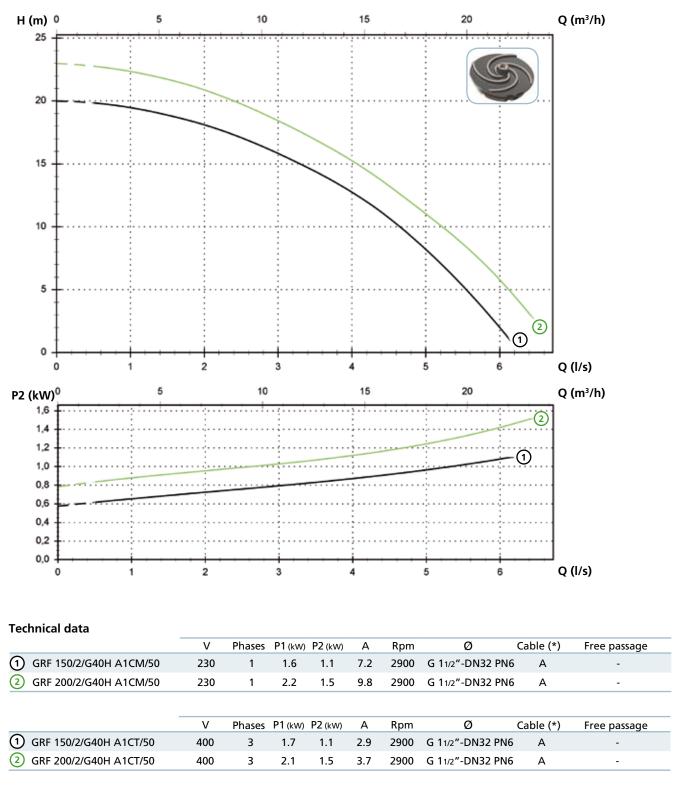
EX

Models with ATEX certification, suitable for installation in the presence of potentially explosive gases, powders and liquids



Models with horizontal GAS 11/2" threaded - DN32 PN6 flanged delivery port - 2 poles





(*) A = NSSHOU-J 4G1.5+2x0.75 - 10 m



Versions available

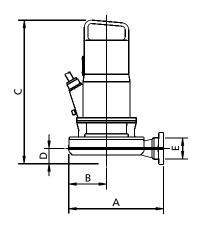
(Key to versions on page 15)

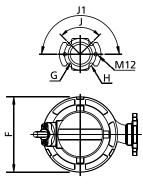
	Electrical variants										Coo	ling	Mechanical seals							
	N A E	Т	T C	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T S	T R	T R G	F	C G F T	N	СС	2SIC	SICM	SICAL	2SICAL
GRF 150/2/G40H A1CM/50				٠											•		•			
GRF 200/2/G40H A1CM/50				•											•		•			
GRF 150/2/G40H A1CT/50		•													•		•			
GRF 200/2/G40H A1CT/50		٠													•		•			

NOTE: For single phase pumps thermal protections into the winding have to be connected to the electrical panel. Capacitor and circuit breaker supplied but not connected to the pump cable. The use of an electrical panel as circuit breaker housing is mandatory.

For installation please see use and maintenance instructions booklet.

Overall dimensions and weights



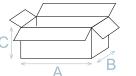


	А	В	С	D	E	F	G	Н	J	J1	kg
GRF 150/2/G40H A1CM(T)/50	265	105	405	45	G 11/2″	215	14	90	90°	180°	32
GRF 200/2/G40H A1CM(T)/50	265	105	405	45	G 11/2″	215	14	90	90°	180°	34
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Measurements in mm

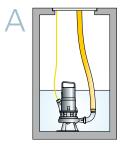
Packaging dimension

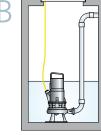
	А	В	С	
GRF 150/2/G40H A1CM(T)/50	580	310	310	
GRF 200/2/G40H A1CM(T)/50	580	310	310	

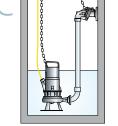


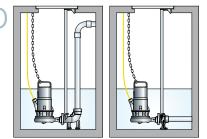
Dimension in mm

Installations available









Dry installation available for specified models. Contact Custome Service for more information.



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