SEMISOM GR



Electric submersible pumps SEMISOM GR

for sewage water with grinder

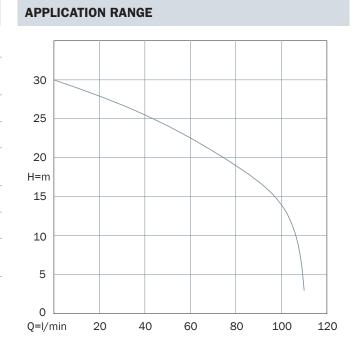


APPLICATION

To convey waste and sewage water from septic tanks

To pump liquids containing solids and filaments, even through relative small bore pipework

CHARACTERISTICS IP rating **IP68** Duty Continuous S1 (versions 1~230V - 3~400V) Maximum immersion depth (m) 20 20 Maximum number of starts per hour Maximum temperature of the liquid 50 pumped versions 1~230V - 3~400V (°C) PH of the liquid pumped 6 - 10 Density of the liquid pumped (kg/dm³) <1,1 Three-phase Suitable for inverter drive versions only



CONSTRUCTION

Coolant filled, asynchronous, rewindable electric AC motor with short circuit rotor. Insulation Class F. Windings with phase insulators to protect the motor from power peaks, as a guarantee of a highly-trustworthy product.

Resin-insulated cable kit to prevent penetration of water inside the motor

Shafts machined on ball bearings and mechanical seals location

Double mechanical seal with oil-chamber in-between

Grinder in forged and tempered stainless steel as a guarantee of high resistance

MATERIALS	
Tie rods, handle, motor casing, bolts and nuts	Stainless Steel AISI304
Shaft	Stainless Steel AISI420B
Cover and volute	Mechanical cast iron EN GJL-250
Impeller	Tecnopolymer reinforced with fibre-glass
Grinder	Forged and tempered Stainless steel AISI440C
Mechanical seal	Silicon carbide and alumina
Seal ring	NBR rubber
Elastomers	NBR rubber
Cable	Neoprene H07RN8-F

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PERFORMANCE DATA 2 poles 60 Hz

Grinder				F	2	Max			Q	Flow						Dimensions (mm)				Weight	
50/	Code Version hp kW A pr DNM /	Version		h	LAM		μF	DNM	m³/h	0	1,2	2,4	3,6	4,8	6	6,6	^	В	С	_	les
		0	20	40	60	80	100	110	A	В	ВС	D	kg								
051410014	SMZ125	230 V	1-phase	phase+float 1,6 1,18 9,2 25 1"1/2	1,18	9,2	25					5 25,5	5 22,5	19	14	3	416	29	240	190	22
SEMISOM 125 GR	SMZ125+G	230 V	1-phase+float					1"1/2	H (m)	30	30 27,5										22,2
(no stands)	STZ125	400 V	3-phase									396				21,2					
SEMISOM 125 GR (with stands)	SMZ125P	230 V	1-phase		1,18	9,2	25	1"½	1/2 H (m)	30 27,							441	54	240	190	22,1
	SMZ125+GP	230 V	1-phase+float	1,6							27,5	25,5	22,5	19	14	3					22,3
	STZ125P	400 V	3-phase			2,9											421				21,3



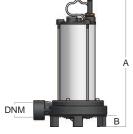
SUPPLIED WITH

10 meters power cable



Junction box containing starting capacitor, unipolar thermal protector switch and facility to connect an extra 50 μ F start-run capacitor (single-phase versions)







ACCESSORIES

Code	Description	
02410016	90° zinc-plated elbow 1"½ M/F (to connect to the lifting station Semibox)	
02008200	Start-run capacitor 50 μF	
04105042	Guide rail kit DNM 1"½ (34" guide poles not included)	



PERFORMANCE CURVES - 2 poles 60 Hz

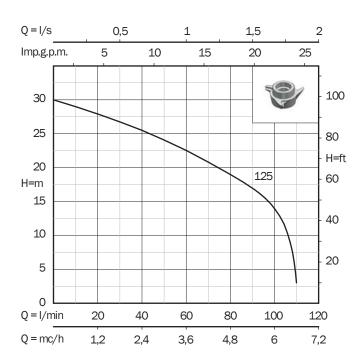


ILLUSTRATION OF AN INSTALLATION WITH GUIDE RAIL KIT

