

SEMISOM GR



Electric submersible pumps SEMISOM GR

for sewage water with grinder

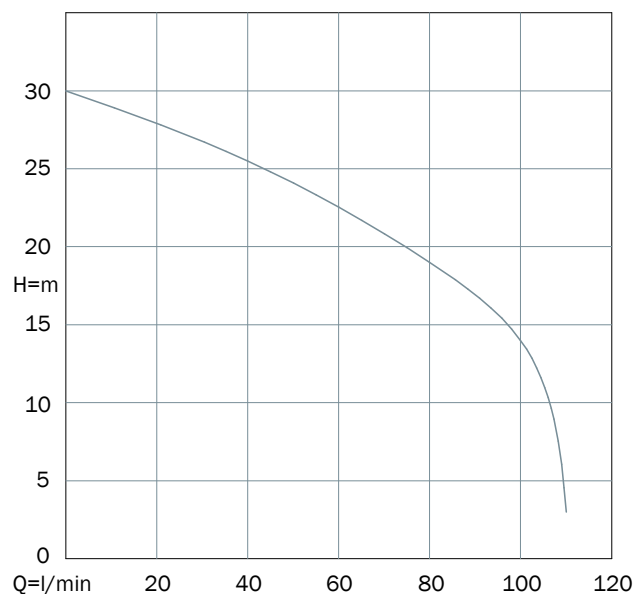
APPLICATION

Electric submersible pumps with grinder for installations in domestic, civil and industrial environments. They are supplied with a grinder whose blades are forged and tempered stainless steel allow to chop the solids and filaments in the waste or sewage water and thus to expel them even through relatively small pipeworks or when high head is required. They are recommended to pump waste water coming from domestic, civil and industrial installations as well as the drainage of septic tanks.

CHARACTERISTICS

IP rating	IP68
Duty (versions 1~230V - 3~400V)	Continuous S1
Maximum immersion depth (m)	20
Maximum number of starts per hour	40
Maximum temperature of the liquid pumped versions 1~230V - 3~400V (°C)	50
PH of the liquid pumped	6 - 10
Density of the liquid pumped (kg/dm ³)	<1,1
Suitable for inverter drive	Three-phase versions only

APPLICATION RANGE



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	Tecopolymer 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 50 Hz

Grinder 	Code	Version		P2		Max		DNM (GAS)	Q m ³ /h l/min	Flow							Dimensions (mm)				Weight kg
				hp	kW	A	μF			0	1,2	2,4	3,6	4,8	6	6,6	A	B	C	D	
SEMISOM 125 GR (no stands)	SM125	230 V	1-phase	1,6	1,18	9,2	35	1"½	H (m)	30	27,5	25,5	22,5	19	14	3	416	29	240	190	22
	SM125+G	230 V	1-phase+float																		22,2
	ST125	400 V	3-phase																		21,2
SEMISOM 125 GR (with stands)	SM125P	230 V	1-phase	1,6	1,18	9,2	35	1"½	H (m)	30	27,5	25,5	22,5	19	14	3	441	54	240	190	22,1
	SM125+GP	230 V	1-phase+float																		22,3
	ST125P	400 V	3-phase																		21,3

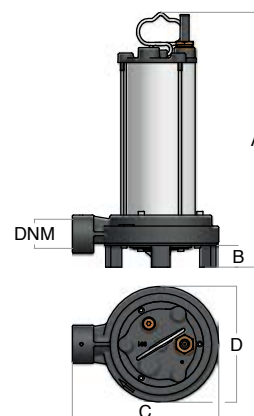


SUPPLIED WITH



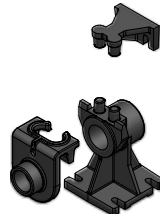
10 meters power cable



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



ACCESSORIES

Code	Description	
02410016	90° zinc-plated elbow G1"½ m/f (to connect to the lifting station Semibox)	
02008200	Start-run capacitor 50 μF	
04105042	Guide rail kit male threaded inlet G1"½ -female threaded outlet G2" (¾" guide poles are not included)	



PERFORMANCE CURVES - 2 poles 50 Hz

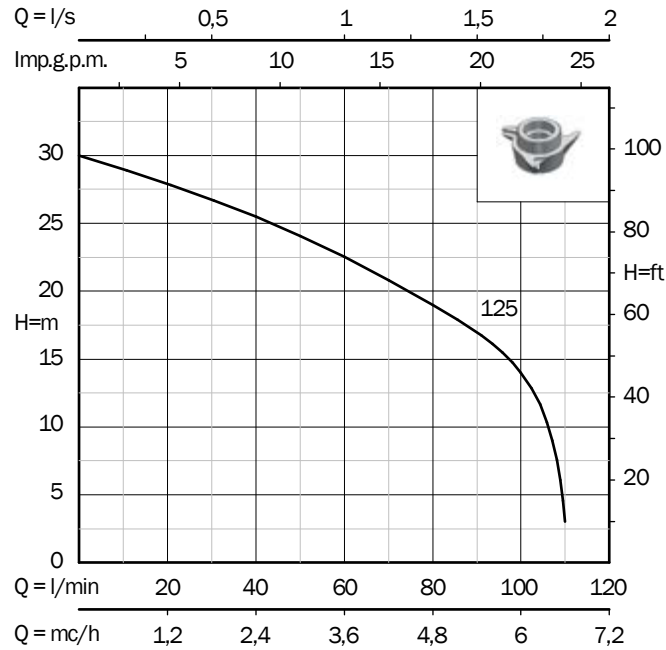


ILLUSTRATION OF AN INSTALLATION WITH GUIDE RAIL KIT

