

Electric submersible pumps SEMISOM /50 - /65 for sewage water



Application

- To convey waste and sewage water from septic tanks;
- To drain rain water;
- To pump liquids containing solids, filaments and sewage keeping its biological process unchanged (Semisom 754/65 4 poles).

Application features

- Maximum size of solids allowed **65 mm**;
- Maximum immersion depth **20 m**;
- Maximum number of starts per hour **30**;
- Maximum temperature of the liquid pumped **50 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 68**;
- Insulation class **F**.

Construction

- Coolant filled, asynchronous rewindable motor with short circuit rotor;
- Twin seal in oil chamber;
- The single-phase version is provided with a control box containing pump capacitor and indicator light with thermal protector switch.

Accessories

- Guide rail kit.



Components

Electric pump	Semisom /50	Semisom /65
Tie rods, handle, motor casing, bolts and nuts	Stainless steel AISI304	Stainless steel AISI304
Shaft	Stainless steel AISI420B	Stainless steel AISI420B
Cover and pump body	Mechanical cast iron EN GJL-250	Mechanical cast iron EN GJL-250
Impeller	Mechanical cast iron EN GJL-200	Mechanical cast iron EN GJL-200
Mechanical seal	Silicon carbide and alumina	Silicon carbide and alumina
Seal ring	NBR rubber	NBR rubber
Elastomers	NBR rubber	NBR rubber
Cable	Neoprene H07RN-F	Neoprene H07RN-F

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Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	Nominal		Max		450 V Cable		Solids DNM passage ø	Flow														
	HP	KW	A 1~	A 3~	µF	m		m³/h	0	6	12	18	24	30	36	42	48	54	60	66	78	90
	Total manometric head in meters																					
Vortex Impeller																						
SEMISOM 500/50 M/T	1,5	1,1	9,2	3,3	40	10	2"	50	10	9,5	8,5	7,5	6	3								
SEMISOM 800/50 M/T	2	1,5	11,4	4	45	10	2"½	50	11,5	11	10	9,5	8,5	7	4							
SEMISOM 1100/65 T	3	2,2		6		10	3"	65	13	12	11	9,5	8,5	7	5,5	4	2,5	1				
SEMISOM 1300/65 T	4,5	3,4		8,1		10	3"	65	18,5	17	16	14,5	13	11,5	10	8,5	7	5,5	3,5	2		
Double-Channel Impeller																						
SEMISOM 700/50 M/T	1,5	1,1	9,2	3,3	40	10	2"	50	14	13	11,5	10	8,5	7	5	3	1					
SEMISOM 900/50 M/T	2	1,5	11,4	4	45	10	2"½	50	16	15	14	12,5	11,5	10	8	6,5	5	3	0,5			
SEMISOM 1000/50 T	3	2,2		5,9		10	2"½	50	20,5	19,5	18	17	15,5	14	12	10,5	8,5	6	4	1,5		
SEMISOM 1500/65 T	4,5	3,4		9		10	3"	65	19,5	18,5	17,5	16,5	15,5	14,5	13,5	12	11	10	8,5	7	4,5	1,5

Performance characteristics 4 poles 50 Hz

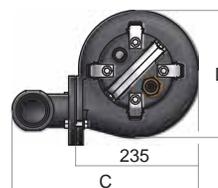
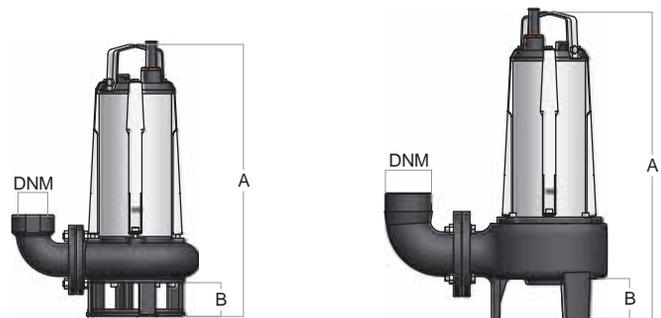
Single-Phase 230 V Three-Phase 400 V 50 Hz	Nominal		Max		450 V Cable		Solids DNM passage ø	Flow														
	HP	KW	A 1~	A 3~	µF	m		m³/h	0	6	12	18	24	27	30	33	36	39	42	45		
	Total manometric head in meters																					
Vortex Impeller																						
SEMISOM 754/65 M/T	1,6	1,2	7,7	3,3	31,5	10	3"	65	7,8	7,3	6,7	6,2	5,5	5,1	4,6	4,2	3,7	3,2	2,5	1,9		

M : Single-phase with external capacitor with or without float switch

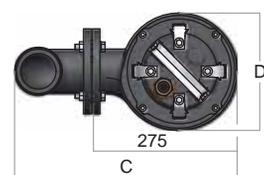
T : Three-phase

Available, on request, guide rail kit

Type	Dimensions mm				Weight Kg
	A	B	C	D	
Semisom 500/50 M	518	70	354	254	32,0
Semisom 800/50 M	543	70	362	254	34,5
Semisom 700/50 M	518	70	354	254	32,5
Semisom 900/50 M	543	70	362	254	35,0
Semisom 754/65 M	569	65	417	222	38,5
Semisom 500/50 T	508	70	354	254	30,5
Semisom 800/50 T	508	70	362	254	31,0
Semisom 1100/65 T	584	65	417	222	40,0
Semisom 1300/65 T	609	65	417	222	42,5
Semisom 700/50 T	508	70	354	254	31,0
Semisom 900/50 T	508	70	362	254	31,0
Semisom 1000/50 T	543	70	362	254	35,0
Semisom 1500/65 T	609	65	417	222	44,0
Semisom 754/65 T	569	65	417	222	38,5

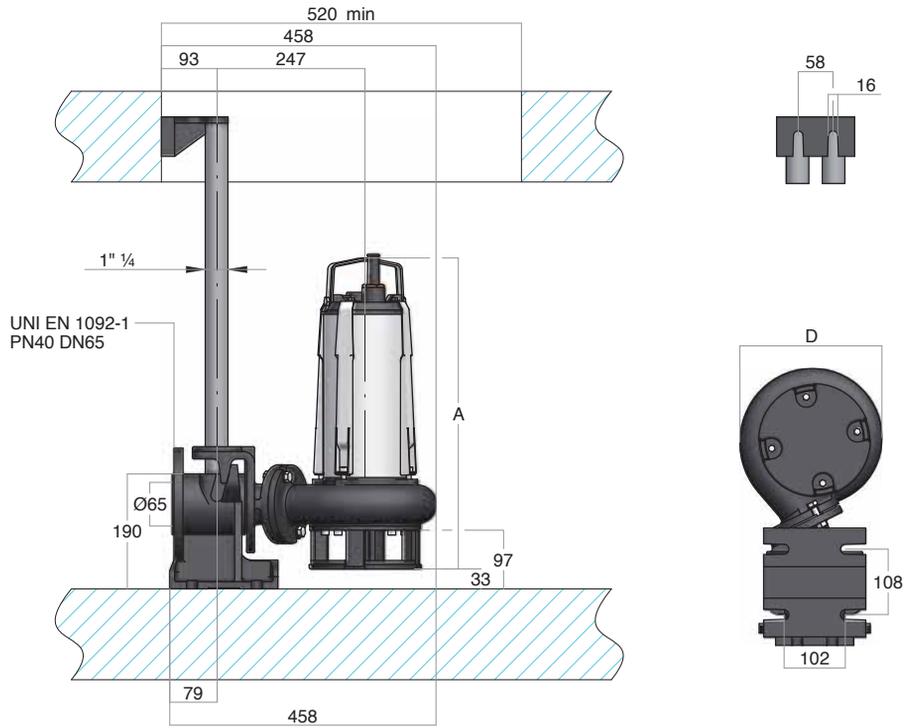


Semisom /50

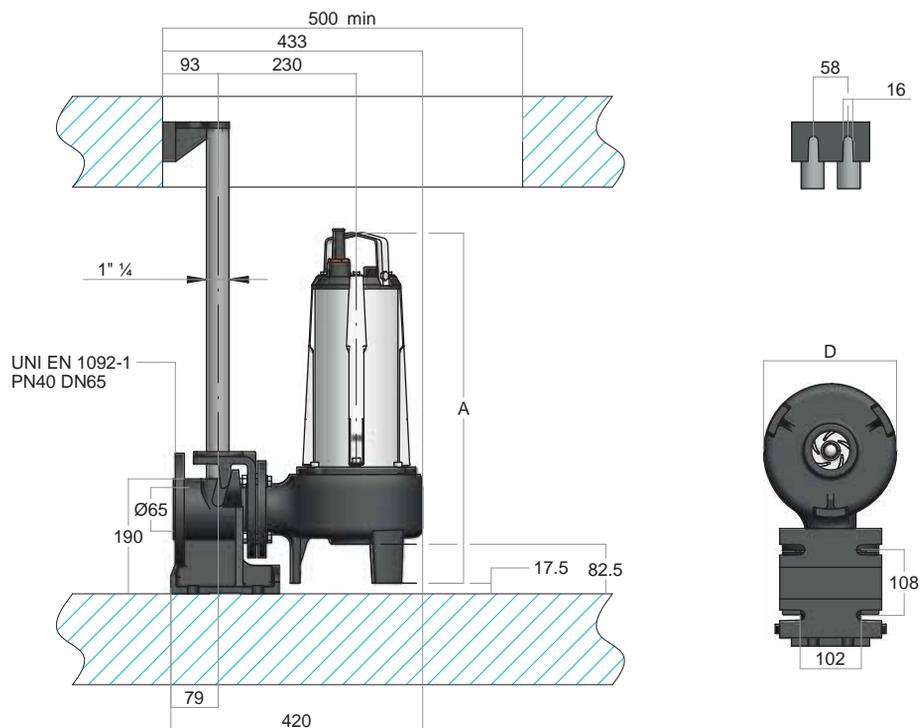


Semisom /65

Guide rail kit for Semisom /50



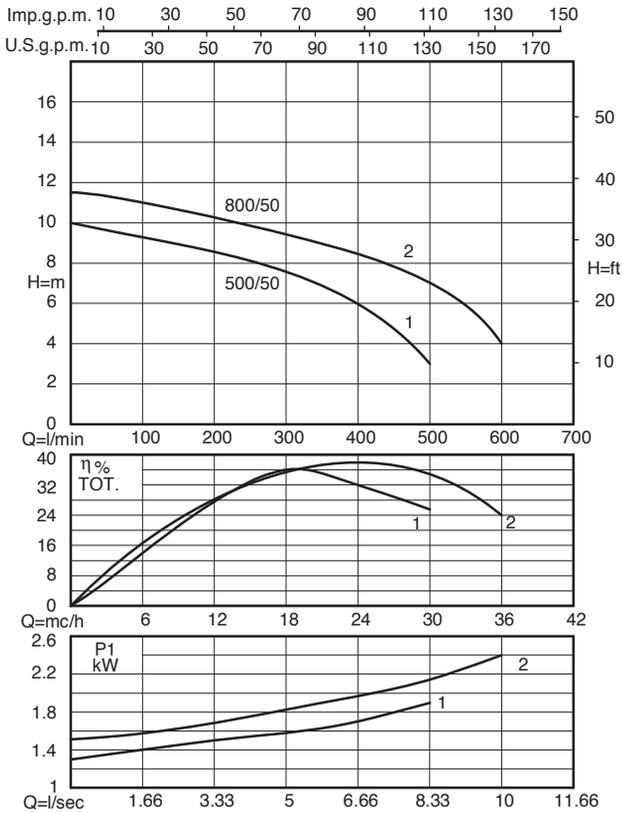
Guide rail kit for Semisom /65



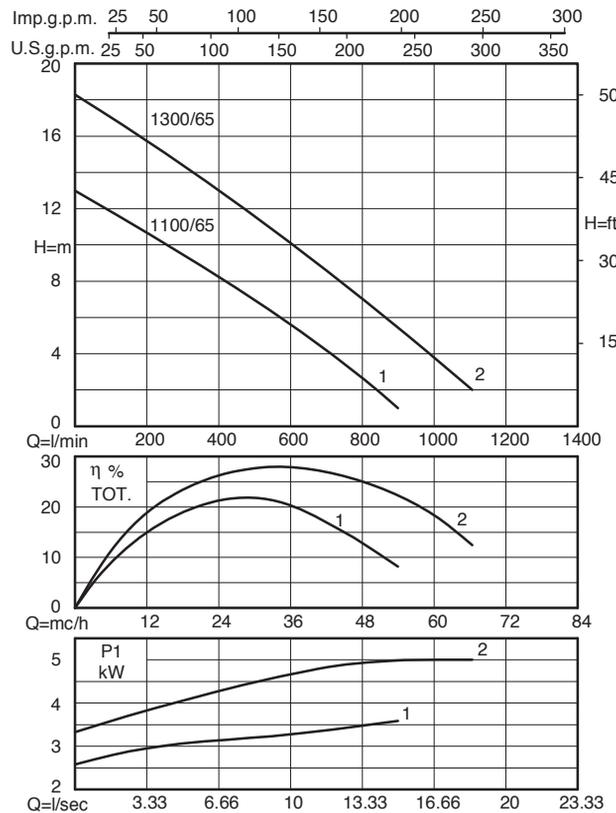
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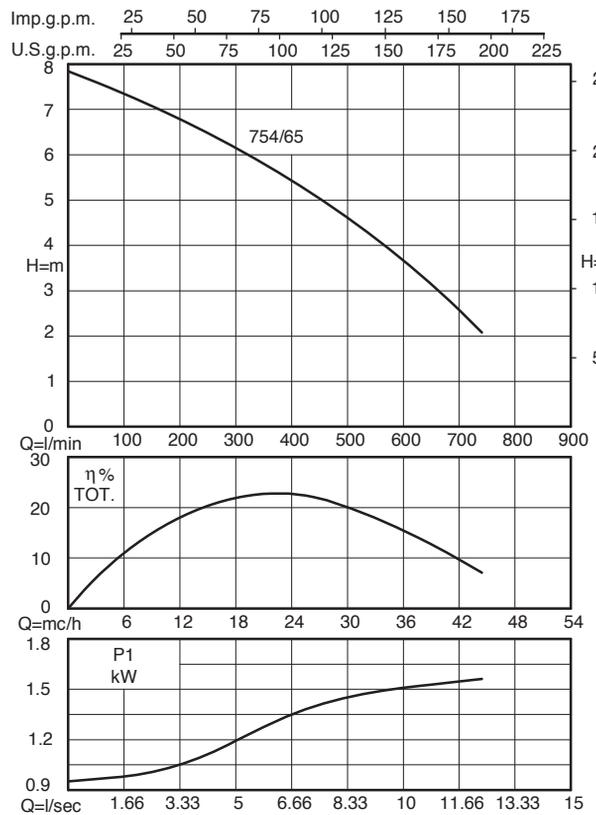
Semisom 500/50 - 800/50



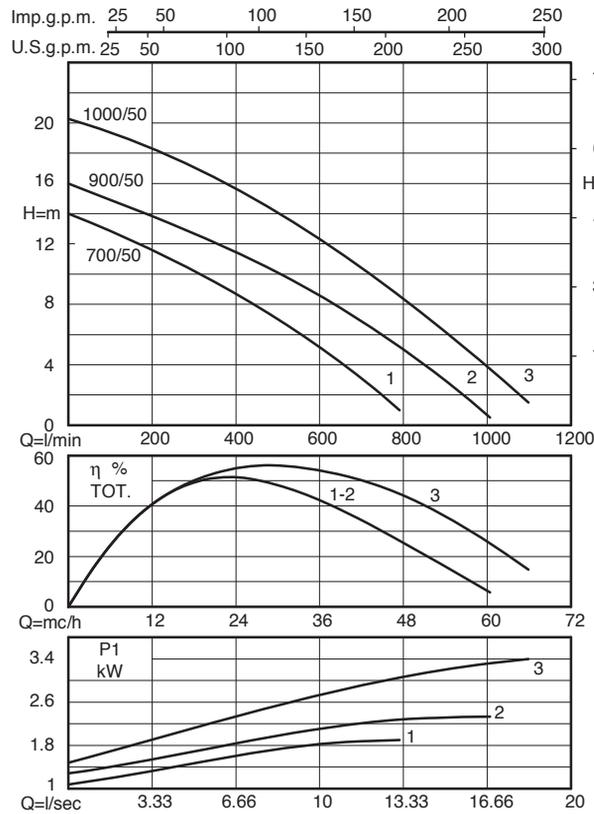
Semisom 1100/65 - 1300/65



Semisom 754/65



Semisom 700/50 - 900/50 - 1000/50



Semisom 1500/65

