BBC ELETTROPOMPE®

Made in Italy

Product Catalogue 2016

BBC ELETTROPOMPE®

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The aim of the Company, founded in **1959**, is to design, manufacture and deal with efficient and reliable electric pumps that can stand even the most severe applications. The experience achieved in this long period is daily exploited in the pursuit of materials, suppliers, new working and assembling methods so to preserve a high level of quality.

The balance between innovating and traditional principles together with the use of trustworthy components makes our products appreciated in the most different areas and markets.

An important achievement on the way both of growth and consolidation of our structure, has been, in 1997, the certification of our Quality System according to **UNI EN ISO 9001** standards. Consequently, a deliberate acceptance of these international criteria is intended as a natural evolution towards a continuous enhancement.

1959-2014 55 Years of quality

kiwa certified CERTIFIED MANAGEMENT SYSTEM ISO 9001: 2008 REG.N. 110

IDROSOM 4"

Electric submersible pumps IDROSOM
for 4" wells

Application
- To pump water from wells;
- To pressurize civil, agricultural, industrial and fire-fighting plants;
- Irrigation.

Application features
- Maximum immersion depth **150 m**;
- Maximum content in sand **150 g/m³**;
- Maximum number of starts per hour **30**;
- Maximum temperature of the water pumped **35 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 68**;
- Insulation class **F**;
- Suitable to operate horizontally: Pump ends up to 23/60 - 18/100 - 17/180 - 12/250 included, Motors up to 5,5 HP included.

Construction
MOTOR:
- Rewindable;
- Coolant filled asynchronous with short circuit rotor;
- Both shaft and coupling meet NEMA Standards.

ErP Directive
Eco-friendly design for water pumps. Our submersible pumps Idrosom /60 and /100 successfully comply with the parameters of efficiency approved by the European commission on best technology available on the market (MEI Index ≥ 0,70).

Components

Pump end	Idrosom
Head and suction body	Stainless steel AISI304
Casing, bolts and nuts	Stainless steel AISI304
Shaft	Stainless steel AISI304
Coupling	Stainless steel AISI316
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water
Bearing head	Desmopan® with rotating element in stainless steel AISI316
Motor	
Casing	Stainless steel AISI304
Shaft terminal	Stainless steel AISI303
Upper casing	Brass OT58
Mechanical seal	Graphite and alumina
Elastomers	NBR rubber

Electric submersible pumps IDROSOM
for 4" wells

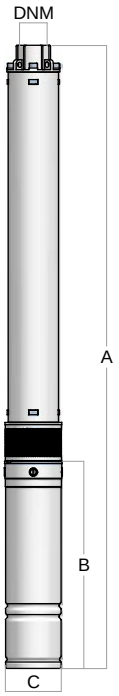
Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	Motor Type *	Nominal Characteristics HP	KW	A 1~	A 3~	450 V µF	Cable m	DNM	Flow m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6
									l/min	0	10	20	30	40	50	60	70	80	90	100
									Total manometric head in meters											
Radial Impeller																				
IDROSOM 8/60	**M / T**	0,5	0,37	3,6	1,8	20	2	1"½		49	48	45	41	35	27	16				
IDROSOM 12/60	**M / T**	0,75	0,55	4,4	2	20	2	1"½		74	73	69	62	52	40	24				
IDROSOM 15/60	**M / T**	1	0,75	6	2,3	25	2	1"½		92	90	85	78	66	50	30				
IDROSOM 23/60	**M / T**	1,5	1,1	8	3,2	31,5	2	1"½		140	137	130	119	101	77	45				
IDROSOM 30/60	**M / T**	2	1,5	11	4,2	40	2	1"½		184	179	169	155	132	100	59				
IDROSOM 43/60	**M / T**	3	2,2	15,9	5,7	60	2	1"½		263	257	243	222	189	144	84				
Radial Impeller																				
IDROSOM 7/100	**M / T**	0,75	0,55	4,4	2	20	2	1"½		45		44	43	41	39	36	32	27	21	14
IDROSOM 9/100	**M / T**	1	0,75	6	2,3	25	2	1"½		57		55	54	53	50	46	41	34	26	18
IDROSOM 14/100	**M / T**	1,5	1,1	8	3,2	31,5	2	1"½		88		86	85	82	78	72	64	54	41	28
IDROSOM 18/100	**M / T**	2	1,5	11	4,2	40	2	1"½		113		110	107	104	99	91	81	68	52	36
IDROSOM 27/100	**M / T**	3	2,2	15,9	5,7	60	2	1"½		170		167	163	156	148	137	122	102	78	53
IDROSOM 36/100	**T**	4	3		8		2	1"½		226		220	215	208	197	182	163	137	106	71
IDROSOM 48/100	**T**	5,5	4		10		2	1"½		302		295	288	277	261	242	216	182	144	96

* M : Single-Phase
T : Three-Phase

Type	Dimensions mm A	B	C	Weight Kg
Idrosom 8/60 M	746	346	95	12,0
Idrosom 12/60 M	837	346	95	12,6
Idrosom 15/60 M	935	376	95	14,4
Idrosom 23/60 M	1145	406	95	16,9
Idrosom 30/60 M	1396	456	95	20,4
Idrosom 43/60 M	1863	587	95	28,0
Idrosom 8/60 T	746	346	95	12,1
Idrosom 12/60 T	837	346	95	12,7
Idrosom 15/60 T	905	346	95	13,1
Idrosom 23/60 T	1115	376	95	15,5
Idrosom 30/60 T	1346	406	95	18,1
Idrosom 43/60 T	1757	481	95	23,5

Type	Dimensions mm A	B	C	Weight Kg
Idrosom 7/100 M	748	346	95	11,9
Idrosom 9/100 M	830	376	95	13,6
Idrosom 14/100 M	990	406	95	15,8
Idrosom 18/100 M	1144	456	95	18,6
Idrosom 27/100 M	1551	587	95	25,5
Idrosom 7/100 T	748	346	95	12,0
Idrosom 9/100 T	800	346	95	12,4
Idrosom 14/100 T	960	376	95	14,4
Idrosom 18/100 T	1094	406	95	16,4
Idrosom 27/100 T	1420	456	95	20,3
Idrosom 36/100 T	1729	531	95	24,6
Idrosom 48/100 T	2167	587	95	30,4



Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz		Motor Type *	Nominal Characteristics HP	KW	A 1~	A 3~	450 V µF	Cable m	DNM	Flow m³/h	0	4,5	6	7,2	8,4	9,6	10,8	12	13,5	15
										l/min	0	75	100	120	140	160	180	200	225	250
										Total manometric head in meters										
Radial Impeller																				
IDROSOM	**6/180**	**M / T**	1	0,75	6	2,3	25	2	2"		37	32	29	26	22	17	12			
IDROSOM	**9/180**	**M / T**	1,5	1,1	8	3,2	31,5	2	2"		55	48	44	38	32	26	18			
IDROSOM	**12/180**	**M / T**	2	1,5	11	4,2	40	2	2"		74	64	58	51	43	34	23			
IDROSOM	**17/180**	**M / T**	3	2,2	15,9	5,7	60	2	2"		104	91	82	72	61	48	33			
IDROSOM	**24/180**	**T**	4	3		8		2	2"		147	128	116	102	86	68	46			
IDROSOM	**31/180**	**T**	5,5	4		10		2	2"		190	165	149	131	111	87	59			
IDROSOM	**42/180**	**T**	7,5	5,5		12,5		4	2"		257	223	202	177	150	118	80			
Radial Impeller																				
IDROSOM	**6/250**	**M / T**	1,5	1,1	8	3,2	31,5	2	2"		40	35	33	32	29	26	23	19	14	7
IDROSOM	**8/250**	**M / T**	2	1,5	11	4,2	40	2	2"		53	47	44	42	39	35	30	25	18	9
IDROSOM	**12/250**	**M / T**	3	2,2	15,9	5,7	60	2	2"		79	70	66	63	58	52	45	38	27	14
IDROSOM	**17/250**	**T**	4	3		8		2	2"		112	99	94	89	82	74	64	54	39	19
IDROSOM	**22/250**	**T**	5,5	4		10		2	2"		145	129	122	115	106	95	82	69	50	25
IDROSOM	**30/250**	**T**	7,5	5,5		12,5		4	2"		197	175	165	156	144	129	112	94	68	33
IDROSOM	**40/250**	**T**	10	7,5		16,7		4	2"		262	233	220	208	192	172	149	125	90	44

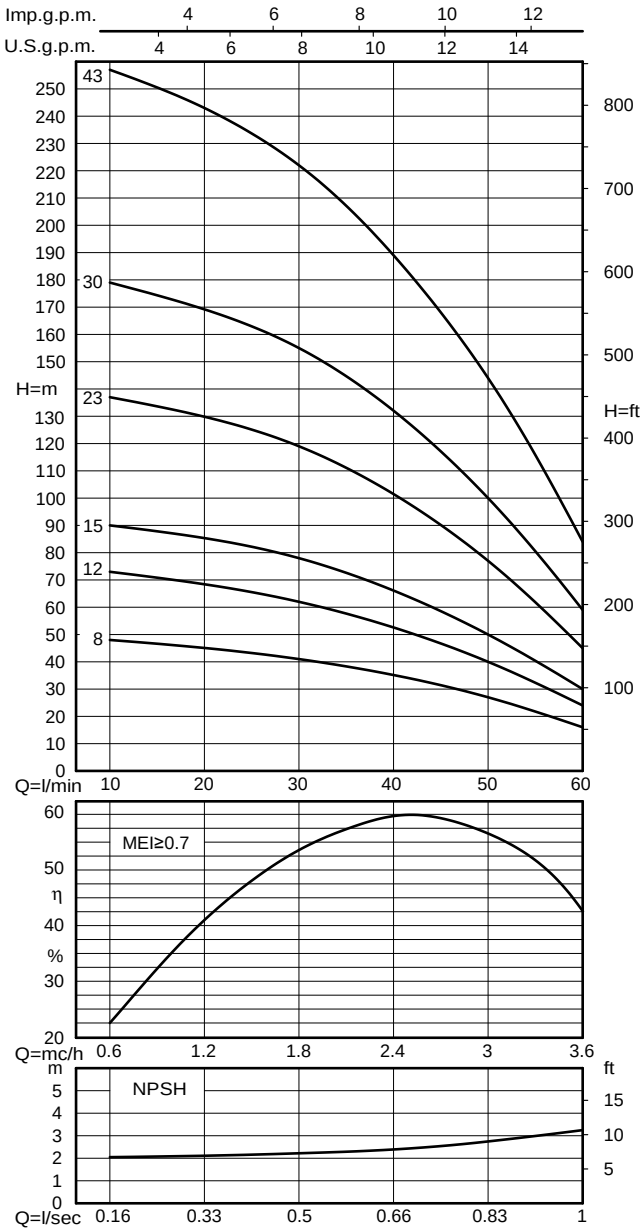
* M : Single-Phase
T : Three-Phase

Type	Dimensions mm A	B	C	Weight Kg
Idrosom 6/180 M	817	376	95	13,5
Idrosom 9/180 M	951	406	95	15,5
Idrosom 12/180 M	1104	456	95	18,3
Idrosom 17/180 M	1451	587	95	24,9
Idrosom 6/180 T	787	346	95	13,5
Idrosom 9/180 T	921	376	95	14,1
Idrosom 12/180 T	1054	406	95	16,0
Idrosom 17/180 T	1320	456	95	19,7
Idrosom 24/180 T	1637	531	95	23,7
Idrosom 31/180 T	1978	587	95	29,4
Idrosom 42/180 T	2448	677	95	36,4

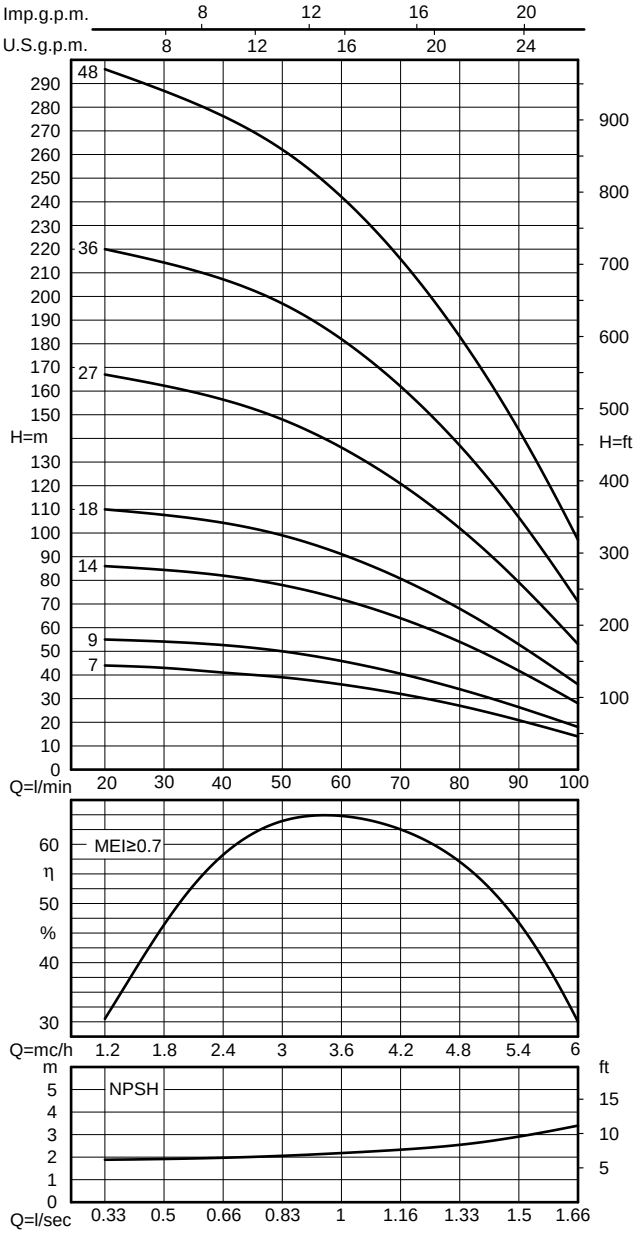
Type	Dimensions mm A	B	C	Weight Kg
Idrosom 6/250 M	876	406	95	15,0
Idrosom 8/250 M	1005	456	95	17,7
Idrosom 12/250 M	1294	587	95	23,7
Idrosom 6/250 T	846	376	95	13,6
Idrosom 8/250 T	955	406	95	15,4
Idrosom 12/250 T	1163	456	95	18,5
Idrosom 17/250 T	1479	531	95	22,8
Idrosom 22/250 T	1732	587	95	27,2
Idrosom 30/250 T	2180	677	95	34,7
Idrosom 40/250 T	2655	757	95	40,5

Electric submersible pumps IDROSOM
for 4" wells

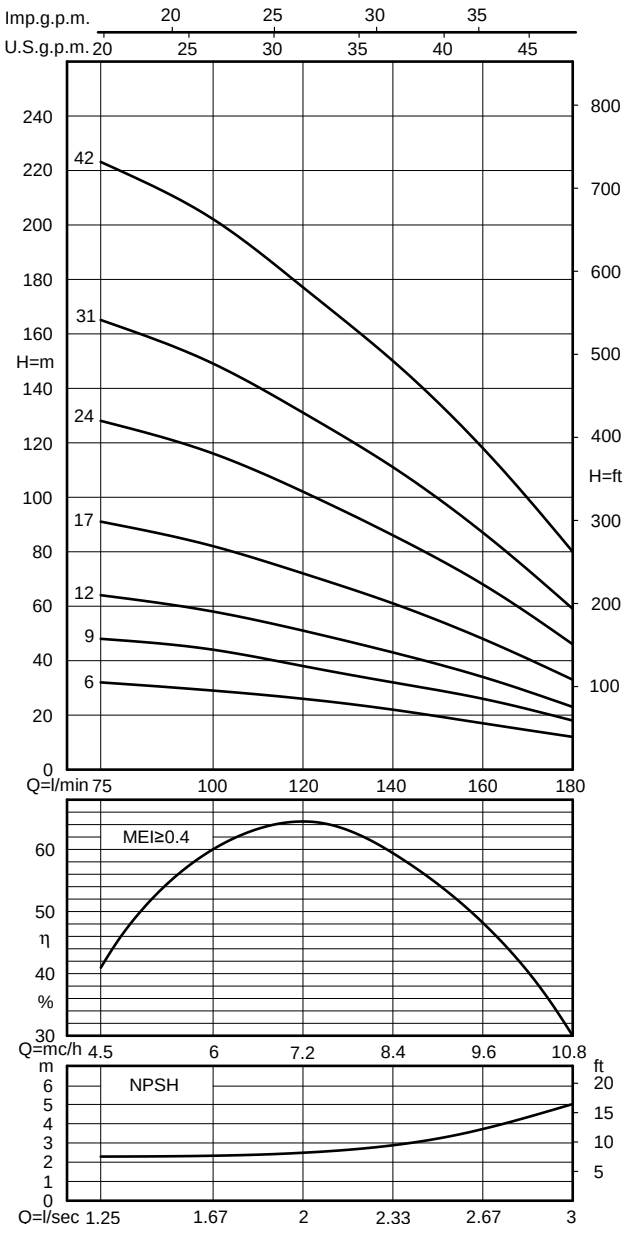
Series /**60**



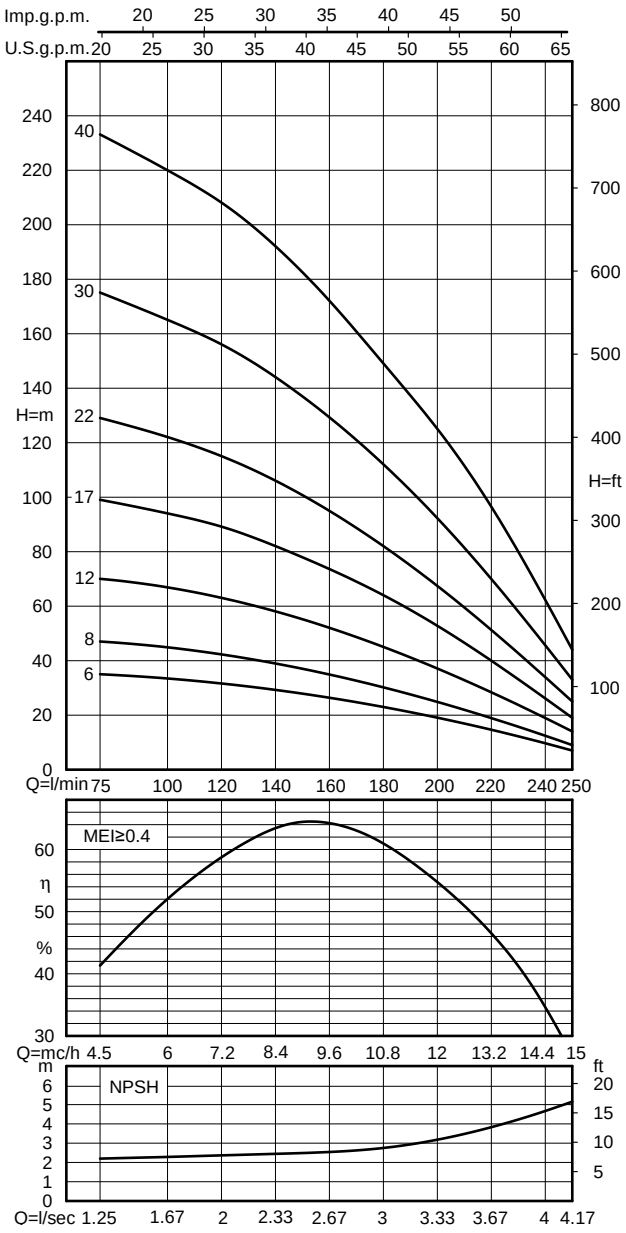
Series /**100**



Series /**180**



Series /**250**



6"

IDROSAND

IDROSAND 6"

Electric submersible pumps IDROSAND
for 6" wells

Application
- To pump water from wells;
- To pressurize civil, agricultural, industrial and fire-fighting plants;
- Irrigation.

Application features
- Minimum head from suction point **0,8 m**;
- Maximum immersion depth **200 m** (**150 m** motors 4T);
- Maximum content in sand **200 g/m³**;
- Maximum number of starts per hour **20**;
- Maximum temperature of the water pumped **30 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 68**;
- Insulation class **F**;
- Suitable to operate horizontally:
  Pump ends up to 24/230 - 23/330 - 17/530 included,
  4T motors up to 5,5 HP included,
  6TA motors all types.

Construction
MOTOR 4T:
- Rewindable;
- Coolant filled asynchronous with short circuit rotor;
- Both shaft and coupling meet NEMA Standards.

MOTOR 6TA:
- Rewindable;
- Water filled asynchronous with short circuit rotor;
- Both shaft and coupling meet NEMA Standards.

Components

Pump end	**/230 - /330 - /530**	
Head and suction body	Mechanical cast iron EN GJL-200	
Casing	Stainless steel AISI304	
Tie rods	Stainless steel AISI304	
Shaft	Stainless steel AISI420B	
Coupling	Stainless steel AISI416B	
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water and AISI304 stainless steel wear rings	
Top bush	Desmopan® with rotating element in chromium-plated brass	
Check valve	Stainless steel AISI304	
Motor	**4T**	**6TA**
Casing	Stainless steel AISI304	Stainless steel AISI304
Shaft terminal	Stainless steel AISI303	Stainless steel AISI329
Upper casing	Brass OT58	Mechanical cast iron with electrophoresis paint EN GJL-250 or brass OT58
Foot		ABS
Elastomers	NBR rubber	NBR rubber
Mechanical seal	Graphite and alumina	Graphite and alumina

Electric submersible pumps IDROSAND+
for 6" wells

Application
- To pump water from wells;
- To pressurize civil, agricultural, industrial and fire-fighting plants;
- Irrigation.

Application features
- Minimum head from suction point **0,8 m**;
- Maximum immersion depth **200 m** (**150 m** motors 4T);
- Maximum content in sand **300 g/m³** (**450 g/m³** series /900);
- Maximum number of starts per hour **20**;
- Maximum temperature of the water pumped **30 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 68**;
- Insulation class **F**;
- Suitable to operate horizontally: Pump ends up to 15/400 - 13/700 - 8/900 included, 4T motors up to 5,5 HP included, 6TA motors all types.

Construction
MOTOR 6TA:
- Rewindable;
- Water filled asynchronous with short circuit rotor;
- Both shaft and coupling meet NEMA Standards.

The electric submersible pumps **IDROSAND** are designed to operate in the most arduous conditions, offering reliability even in applications with high sand content (**IDROSAND+** up to 450 g/m³).

Components

Pump end	/400	/700 - /900
Head and suction body	Mechanical cast iron EN GJL-200	Mechanical cast iron EN GJL-200
Body diffuser / Casing	Mechanical cast iron EN GJL-200	Stainless steel AISI304
Tie rods	Steel	Stainless steel AISI304
Shaft	Stainless steel AISI420B	Stainless steel AISI420B
Coupling	Stainless steel AISI416B	Stainless steel AISI416B
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water and AISI304 stainless steel wear rings	Noryl® reinforced with fibre-glass, certified for drinkable water and AISI304 stainless steel wear rings
Diffuser bush	Anti-sand rubber	Anti-sand rubber
Top bush	Desmopan® with rotating element in chromium-plated brass	Desmopan® with rotating element in chromium-plated brass
Check valve	Stainless steel AISI304	Stainless steel AISI304
Motor		**6TA**
Casing		Stainless steel AISI304
Shaft terminal		Stainless steel AISI329
Upper casing		Mechanical cast iron with electrophoresis paint EN GJL-250 or brass OT58
Foot		ABS
Elastomers		NBR rubber
Mechanical seal		Graphite and alumina

Electric submersible pumps IDROSAND
for 6" wells

Performance characteristics 2 poles 50 Hz

Three-Phase 400 V 50 Hz		Nominal Characteristics HP	KW	A	Cable m	DNM	Flow m³/h	0	5,4	6,6	7,8	9	10,2	12	13,8	15	16,8	18	19,8	21,6	24	27	30	33
							l/min	0	90	110	130	150	170	200	230	250	280	300	330	360	400	450	500	550
							Total manometric head in meters																	
Radial Impeller																								
4T20	**6/230**	2	1,5	4,2	2	2"		56	51	49	44	40	35	26	15									
4T30	**8/230**	3	2,2	5,7	2	2"		75	67	63	58	52	45	34	20									
4T30	**9/230**	3	2,2	5,7	2	2"		84	75	71	66	59	52	39	24									
4T40	**11/230**	4	3	8	2	2"		103	93	89	82	74	66	51	33									
4T55	**14/230**	5,5	4	10	2	2"		138	125	119	110	99	87	67	43									
6TA75	**17/230**	7,5	5,5	13,3	3	2"		164	150	142	132	118	103	80	52									
6TA75	**20/230**	7,5	5,5	13,3	3	2"		190	174	165	154	141	124	95	62									
6TA10	**24/230**	10	7,5	16,8	3	2"		234	207	196	183	166	147	114	77									
6TA10	**28/230**	10	7,5	16,8	3	2"		273	250	236	219	199	176	133	88									
6TA125	**34/230**	12,5	9,2	21,5	3	2"		334	307	289	265	241	212	162	106									
6TAH15	**40/230**	15	11	24,8	3	2"		396	361	339	315	288	255	197	132									
Radial Impeller																								
4T20	**4/330**	2	1,5	4,2	2	2"		39				34	32	29	26	24	19	16	11					
4T30	**5/330**	3	2,2	5,7	2	2"		49				42	40	37	32	29	24	20	14					
4T30	**6/330**	3	2,2	5,7	2	2"		58				48	46	43	38	34	28	23	16					
4T40	**7/330**	4	3	8	2	2"		68				57	55	51	45	41	34	29	20					
4T55	**9/330**	5,5	4	10	2	2"		89				74	71	64	56	50	41	34	24					
4T55	**10/330**	5,5	4	10	2	2"		102				86	82	75	66	60	50	42	29					
6TA75	**12/330**	7,5	5,5	13,3	3	2"		121				101	96	87	77	69	57	48	33					
6TA75	**14/330**	7,5	5,5	13,3	3	2"		138				116	110	100	88	80	65	54	37					
6TA10	**16/330**	10	7,5	16,8	3	2"		160				134	127	116	104	94	78	65	46					
6TA10	**19/330**	10	7,5	16,8	3	2"		190				160	153	140	125	113	94	80	56					
6TA125	**23/330**	12,5	9,2	21,5	3	2"		233				198	190	175	157	143	119	101	72					
6TA15	**28/330**	15	11	24,8	3	2"		287				247	236	218	196	179	150	128	93					
6TA20	**32/330**	20	15	31,5	3	2"		326				285	274	252	226	205	172	148	108					
6TA20	**36/330**	20	15	31,5	3	2"		374				323	311	287	256	233	194	167	123					
6TA25	**43/330**	25	18,5	38	3	2"		444				383	367	339	304	276	231	198	145					
Radial Impeller																								
4T40	**4/530**	4	3	8	2	3"		43						36		35	34	33	32	30	27	22	16	10
4T55	**6/530**	5,5	4	10	2	3"		64						53		52	50	49	48	45	40	33	24	16
6TA75	**8/530**	7,5	5,5	13,3	3	3"		86						70	69	68	66	65	64	61	53	43	33	21
6TA10	**11/530**	10	7,5	16,8	3	3"		118						97	95	94	92	90	87	83	73	60	44	29
6TA125	**14/530**	12,5	9,2	21,5	3	3"		150						123	120	119	116	114	111	106	94	76	56	37
6TA15	**17/530**	15	11	24,8	3	3"		182						149	146	145	141	139	135	129	113	93	69	45
6TA20	**22/530**	20	15	31,5	3	3"		236						193	189	186	182	179	175	167	147	120	89	59
6TA25	**28/530**	25	18,5	38	3	3"		300						246	240	237	232	228	223	213	187	152	113	75
6TA30	**33/530**	30	22	47,3	3	3"		354						290	283	280	273	269	263	251	221	180	133	88

4T20 - 4T30 : Also avaible in single-phase

Type		Dimensions mm A	B	C	Weight Kg
4T20	**6/230**	1092	406	146	28,7
4T30	**8/230**	1214	456	146	32,2
4T30	**9/230**	1250	456	146	32,8
4T40	**11/230**	1397	531	146	36,8
4T55	**14/230**	1561	587	146	41,9
6TA75	**17/230**	1754	672	146	65,7
6TA75	**20/230**	1862	672	146	67,4
6TA10	**24/230**	2056	722	146	75,0
6TA10	**28/230**	2200	722	146	77,7
6TA125	**34/230**	2528	762	146	87,2
6TAH15	**40/230**	2799	817	146	98,2

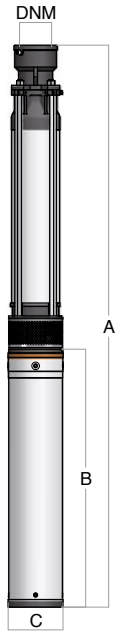
Type		Dimensions mm A	B	C	Weight Kg
4T20	**4/330**	1020	406	146	26,7
4T30	**5/330**	1106	456	146	29,6
4T30	**6/330**	1142	456	146	30,2
4T40	**7/330**	1253	531	146	33,9
4T55	**9/330**	1381	587	146	38,8
4T55	**10/330**	1417	587	146	39,2
6TA75	**12/330**	1574	672	146	61,7
6TA75	**14/330**	1646	672	146	62,8
6TA10	**16/330**	1768	722	146	69,0
6TA10	**19/330**	1876	722	146	70,3
6TA125	**23/330**	2060	762	146	79,5
6TA15	**28/330**	2295	817	146	86,9
6TA20	**32/330**	2591	897	146	101,5
6TA20	**36/330**	2735	897	146	105,6
6TA25	**43/330**	3087	997	146	121,5

Type		Dimensions mm A	B	C	Weight Kg
4T40	**4/530**	1220	531	146	33,7
4T55	**6/530**	1376	587	146	38,5
6TA75	**8/530**	1579	672	146	60,9
6TA10	**11/530**	1761	722	146	68,2
6TA125	**14/530**	1951	762	146	75,3
6TA15	**17/530**	2156	817	146	83,0
6TA20	**22/530**	2486	897	146	98,9
6TA25	**28/530**	2958	997	146	115,3
6TA30	**33/530**	3338	1127	146	133,3

Electric submersible pumps IDROSAND+
for 6" wells

Performance characteristics 2 poles 50 Hz

Three-Phase 400 V 50 Hz		Nominal Characteristics HP	KW	A	Cable m	DNM	Flow m³/h	0	11,4	13,8	15,6	18	19,8	21,6	24	27	30	33	36	39	42	48	54	60
							l/min	0	190	230	260	300	330	360	400	450	500	550	600	650	700	800	900	1000
							Total manometric head in meters																	
Radial Impeller																								
4T40	**4/400**	4	3	8	2	3"		50	41	37	35	31	28	25	20	14								
4T55	**5/400**	5,5	4	10	2	3"		64	52	49	46	42	38	35	29	20								
4T55	**6/400**	5,5	4	10	2	3"		75	63	59	55	50	46	41	34	25								
6TA75	**7/400**	7,5	5,5	13,3	3	3"		90	74	69	65	59	54	48	40	29								
6TA10	**8/400**	10	7,5	16,8	3	3"		105	85	80	76	69	63	56	47	34								
6TA10	**10/400**	10	7,5	16,8	3	3"		130	107	100	94	86	78	70	58	42								
6TA125	**12/400**	12,5	9,2	21,5	3	3"		152	128	119	112	102	93	84	70	50								
6TA15	**15/400**	15	11	24,8	3	3"		190	157	148	140	126	116	104	87	63								
6TA20	**20/400**	20	15	31,5	3	3"		254	210	199	188	170	155	139	115	84								
6TA25	**25/400**	25	18,5	38	3	3"		312	262	247	232	210	192	172	143	104								
Semi-Axial impeller																								
4T55	**3/700**	5,5	4	10	2	3"		41				35	34	33	31	28	25	22	18	14	9			
6TA75	**5/700**	7,5	5,5	13,3	3	3"		68				59	57	55	51	46	41	35	28	21	14			
6TA10	**6/700**	10	7,5	16,8	3	3"		84				68	66	63	59	54	48	42	34	27	17			
6TA125	**8/700**	12,5	9,2	21,5	3	3"		113				93	91	87	83	76	69	60	50	40	29			
6TA15	**10/700**	15	11	24,8	3	3"		141				116	114	110	104	96	86	75	62	50	36			
6TA20	**13/700**	20	15	31,5	3	3"		183				152	148	144	136	125	111	96	80	63	45			
6TA25	**16/700**	25	18,5	38	3	3"		223				186	180	173	164	150	134	116	96	75	54			
6TA30	**19/700**	30	22	47,3	3	3"		270				219	213	206	195	179	159	137	114	89	63			
Semi-Axial impeller																								
4T55	**2/900**	5,5	4	10	2	3"		29							24	23	22	21	20	19	18	16	13	9
6TA75	**3/900**	7,5	5,5	13,3	3	3"		41							37	36	35	33,5	32	30	28	24	19	13
6TA10	**4/900**	10	7,5	16,8	3	3"		56							50	48	46	44	42	40	38	33	26	18
6TA125	**5/900**	12,5	9,2	21,5	3	3"		70							63	61	59	56	54	51	48	42	33	23
6TA15	**6/900**	15	11	24,8	3	3"		86							76	73,5	71	68	65	62	59	51	41	29
6TA20	**8/900**	20	15	31,5	3	3"		114							101	98	95	91	87	83	78	68	55	38
6TA25	**10/900**	25	18,5	38	3	3"		143							127	123	119	114	109	104	98	85	68	48
6TA30	**12/900**	30	22	47,3	3	3"		170							152	147	142	137	131	125	118	103	83	58
6TA40	**15/900**	40	30	61,6	3	3"		210							190	183	177	170	163	156	147	127	102	74

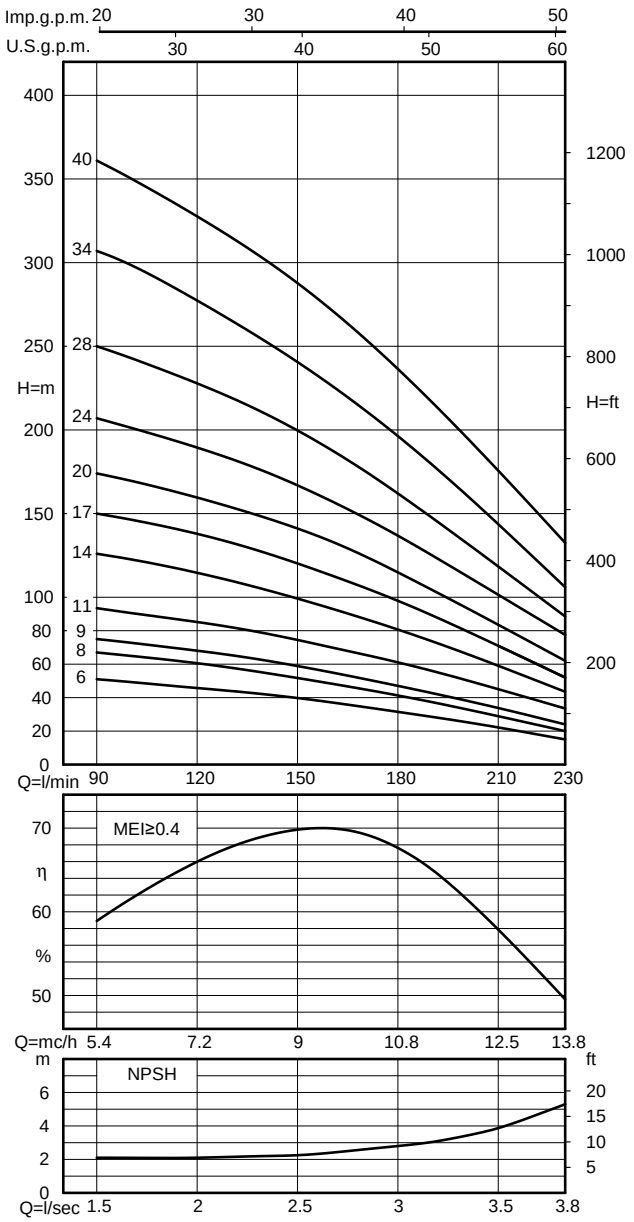


Type		Dimensions mm A	B	C	Weight Kg
4T40	**4/400**	1136	531	146	37,0
4T55	**5/400**	1242	587	146	42,4
4T55	**6/400**	1292	587	146	43,8
6TA75	**7/400**	1427	672	146	66,2
6TA10	**8/400**	1527	722	146	72,8
6TA10	**10/400**	1627	722	146	75,9
6TA125	**12/400**	1767	762	146	84,0
6TA15	**15/400**	1972	817	146	94,0
6TA20	**20/400**	2302	897	146	115,9
6TA25	**25/400**	2652	997	146	134,0

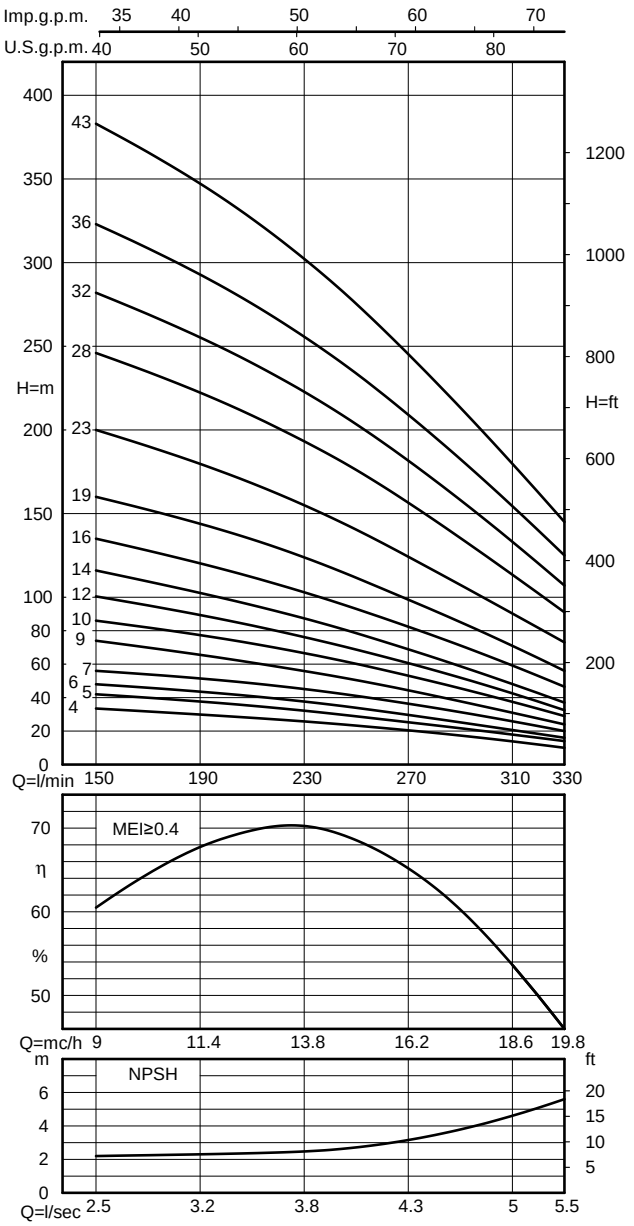
Type		Dimensions mm A	B	C	Weight Kg
4T55	**3/700**	1312	587	146	38,1
6TA75	**5/700**	1553	672	146	61,5
6TA10	**6/700**	1681	722	146	67,5
6TA125	**8/700**	1877	762	146	74,7
6TA15	**10/700**	2088	817	146	82,4
6TA20	**13/700**	2402	897	146	98,4
6TA25	**16/700**	2736	997	146	112,4
6TA30	**19/700**	3100	1127	146	129,5
4T55	**2/900**	1298	587	146	37,2
6TA75	**3/900**	1491	672	146	60,0
6TA10	**4/900**	1649	722	146	66,7
6TA125	**5/900**	1797	762	146	73,2
6TA15	**6/900**	1960	817	146	80,2
6TA20	**8/900**	2256	897	146	96,0
6TA25	**10/900**	2572	997	146	110,2
6TA30	**12/900**	2918	1127	146	127,4
6TA40	**15/900**	3382	1267	146	148,0

Electric submersible pumps IDROSAND
for 6" wells

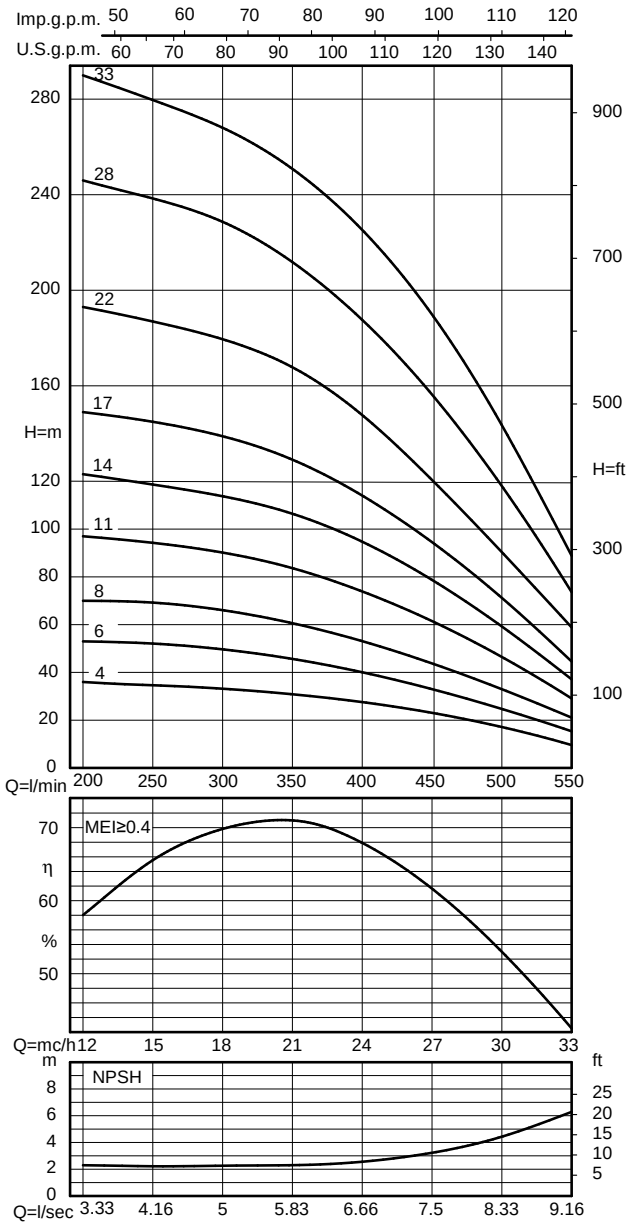
Series /**230**



Series /**330**



Series /**530**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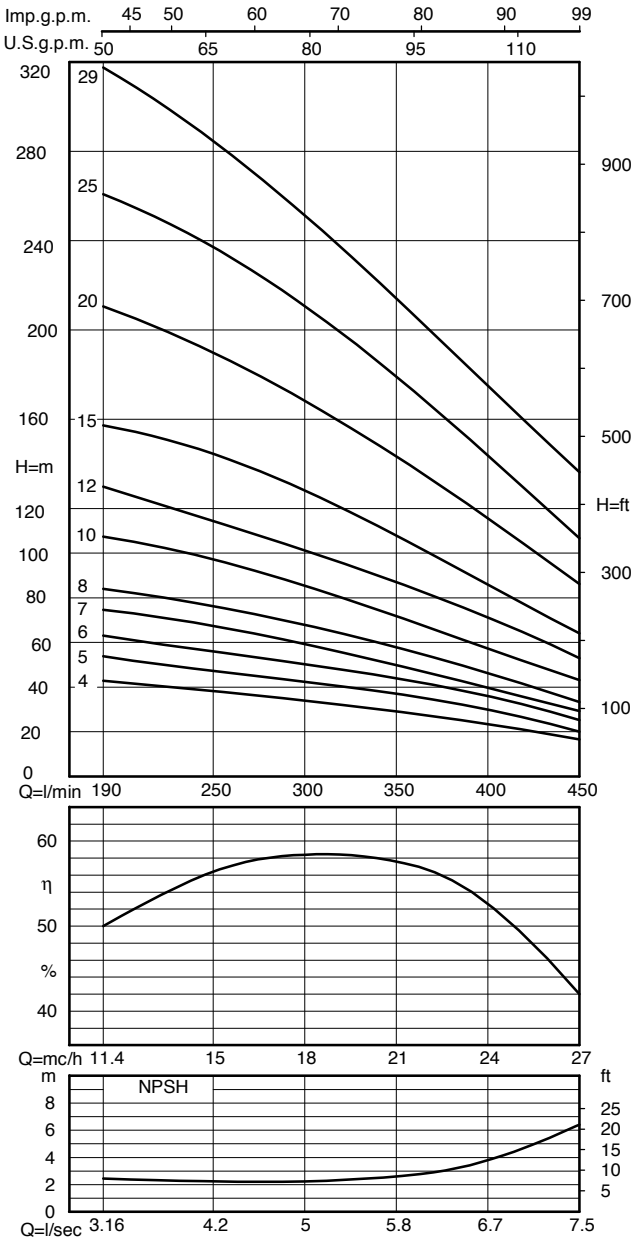
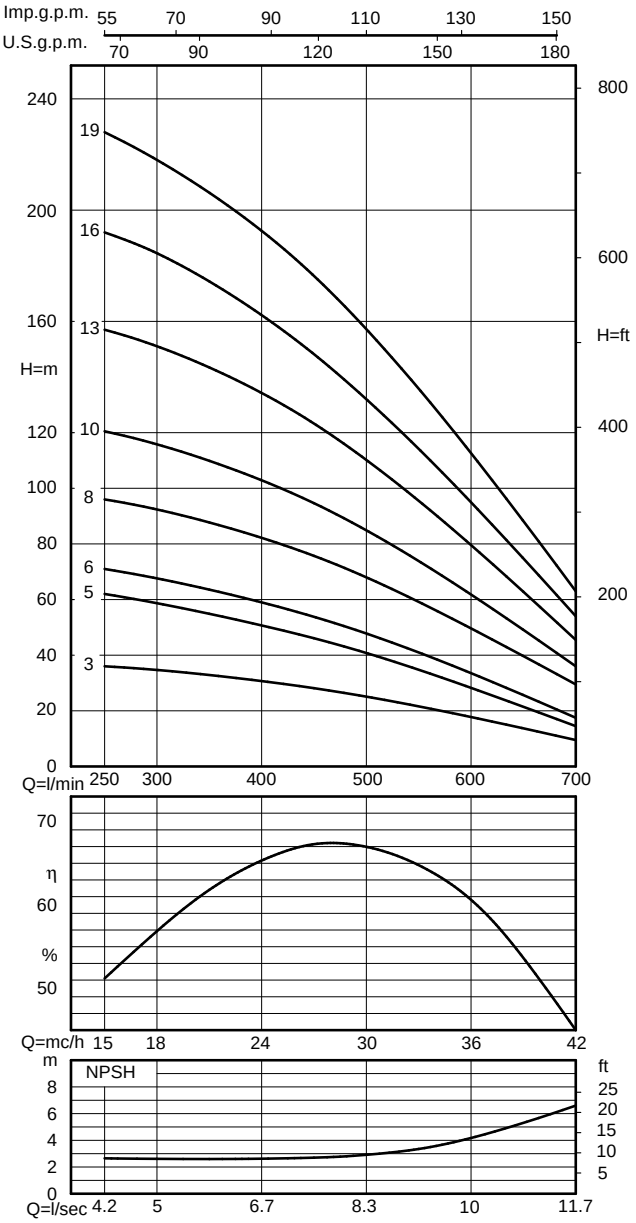
U.S.g.p.m. 60 70 80 90 100 110 120 130 140
33
28
22
17
14
11
8
6
4
280
240
200
160
H=m
120
100
80
60
40
20
0
900
700
500
H=ft
300
100
Q=l/min 200 250 300 350 400 450 500 550
MEI≥0.4
70
η
60
%
50
Q=mc/h 12 15 18 21 24 27 30 33
m
NPSH
8
6
4
2
0
ft
25
20
15
10
5
Q=l/sec 3.33 4.16 5 5.83 6.66 7.5 8.33 9.16

Electric submersible pumps IDROSAND+
for 6" wells

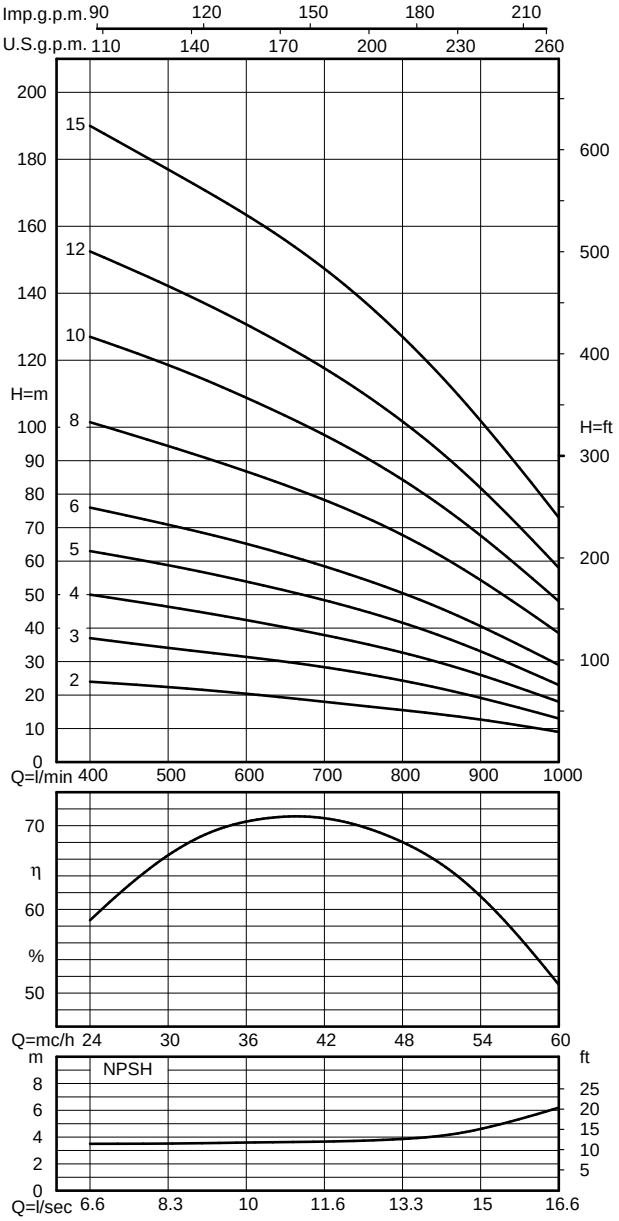
Series /**400**



Series /**700**



Series /**900**


Imp.g.p.m. 90 120 150 180 210
U.S.g.p.m. 110 140 170 200 230 260
H=m
H=ft
15
12
10
8
6
5
4
3
2
Q=l/min 400 500 600 700 800 900 1000
η
%
Q=mc/h 24 30 36 42 48 54 60
NPSH
m
ft
Q=l/sec 6.6 8.3 10 11.6 13.3 15 16.6

8" (200 mm)

Electric submersible pumps
for 8" wells

Application
- To pump water from wells;
- To pressurize civil, agricultural, industrial and fire-fighting plants;
- Irrigation.

Application features
- Minimum head from suction point **1,2 m**;
- Maximum immersion depth **200 m**;
- Maximum content in sand **50 g/m³**;
- Maximum number of starts per hour **15**;
- Maximum temperature of the water pumped **30 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 68**;
- Insulation class **F**;
- Suitable to operate horizontally:
  Pump ends all types,
  Motors up to 40 HP included.

Construction
MOTOR:
- Rewindable;
- Water filled asynchronous with short circuit rotor;
- Both shaft and coupling meet NEMA Standards.

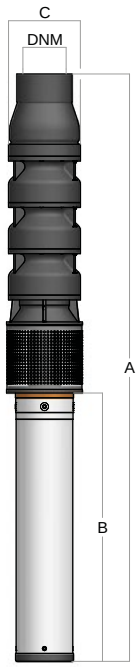
Components

Pump end	**/1600 - /2400**
Head	Mechanical cast iron EN GJL-200
Suction body	Mechanical cast iron EN GJL-200
Shaft	Stainless steel AISI410
Coupling	Stainless steel AISI410
Impellers	Stainless steel AISI410
Diffusers	Mechanical cast iron EN GJL-200
Bearings	Antifriction rubber with rotating element in stainless steel AISI410
Check valve	Stainless steel AISI304
Motor	**6TA**
Casing	Stainless steel AISI304
Shaft terminal	Stainless steel AISI329
Upper casing	Mechanical cast iron with electrophoresis paint EN GJL-250 or brass OT58
Foot	ABS
Elastomers	NBR rubber
Mechanical seal	Graphite and alumina

Electric submersible pumps
for 8" wells

Performance characteristics 2 poles 50 Hz

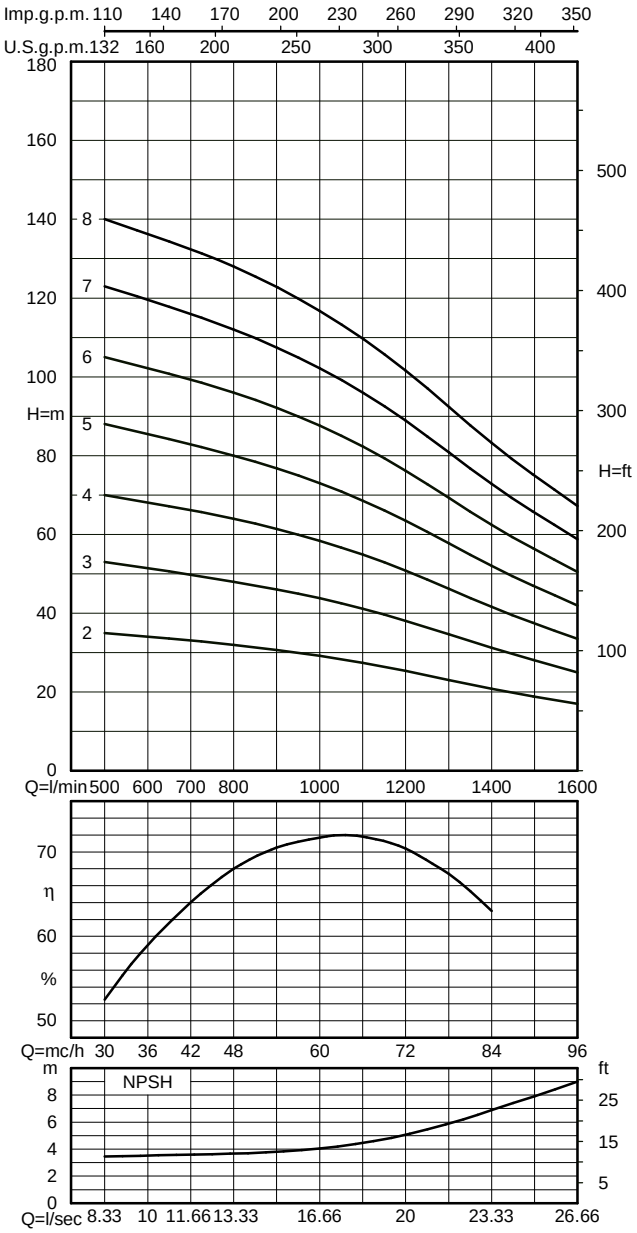
							Flow											
Three-Phase 400 V 50 Hz		Nominal Characteristics			Cable		m³/h	0	30	48	60	72	84	96	108	120	132	144
		HP	KW	A	m	DNM	l/min	0	500	800	1000	1200	1400	1600	1800	2000	2200	2400
							Total manometric head in meters											
Semi-Axial impeller																		
6TA10	**2/1600**	10	7,5	16,8	3	4"		40	35	32	29	25	21	17				
6TA15	**3/1600**	15	11	24,8	3	4"		60	53	48	44	38	31	25				
6TA20	**4/1600**	20	15	31,5	3	4"		80	70	64	58	51	42	34				
6TA25	**5/1600**	25	18,5	38	3	4"		100	88	80	73	64	52	42				
6TA30	**6/1600**	30	22	47,3	3	4"		120	105	96	88	76	62	51				
6TA35	**7/1600**	35	26	54,5	3	4"		140	123	112	102	89	73	59				
6TA40	**8/1600**	40	30	61,6	3	4"		160	140	128	117	102	83	67				
Semi-Axial impeller																		
6TA15	**2/2400**	15	11	24,8	3	5"		45			39	37	34	31	27	22	18	13
6TA25	**3/2400**	25	18,5	38	3	5"		68			58	56	52	47	40	33	26	19
6TA30	**4/2400**	30	22	47,3	3	5"		90			78	74	69	62	53	44	35	26
6TA40	**5/2400**	40	30	61,6	3	5"		113			97	93	86	78	67	55	44	32
6TA50	**6/2400**	50	37	81,9	4	5"		135			116	111	103	93	80	66	52	38



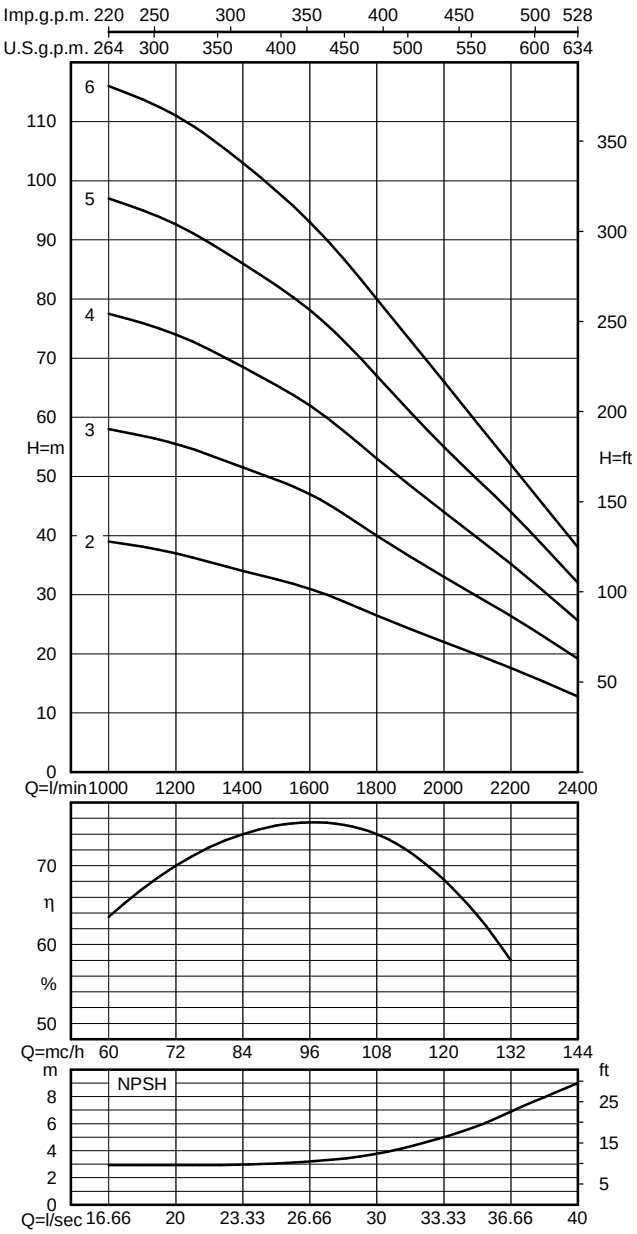
Type		Dimensions mm			Weight
		A	B	C	Kg
6TA10	**2/1600**	1382	722	196	85,1
6TA15	**3/1600**	1607	817	196	107,8
6TA20	**4/1600**	1817	897	196	127,3
6TA25	**5/1600**	2047	997	196	148,2
6TA30	**6/1600**	2307	1127	196	172,2
6TA35	**7/1600**	2577	1267	196	197,6
6TA40	**8/1600**	2707	1267	196	208,1

Type		Dimensions mm			Weight
		A	B	C	Kg
6TA15	**2/2400**	1480	817	196	99,2
6TA25	**3/2400**	1790	997	196	129,1
6TA30	**4/2400**	2050	1127	196	153,0
6TA40	**5/2400**	2320	1267	196	178,4
6TA50	**6/2400**	2477	1294	196	187,8

Series /**1600**



Series /**2400**



TURBOSOM 6"

Peripheral electric submersible pumps TURBOSOM
for 6" wells

Application
- To pump clear water from wells;
- To pressurize civil plants;
- Irrigation.

Application features
- Maximum content in sand **20 g/m³**;
- Maximum number of starts per hour **40**;
- Maximum temperature of the water pumped **50 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 68**;
- Insulation class **F**;
- Suitable to operate horizontally.

Construction
- Single-stage pump with peripheral impeller;
- Coolant filled asynchronous rewindable motor with short circuit rotor;
- The single-phase version is provided with a control box containing pump capacitor and unipolar thermal protector switch.

Components

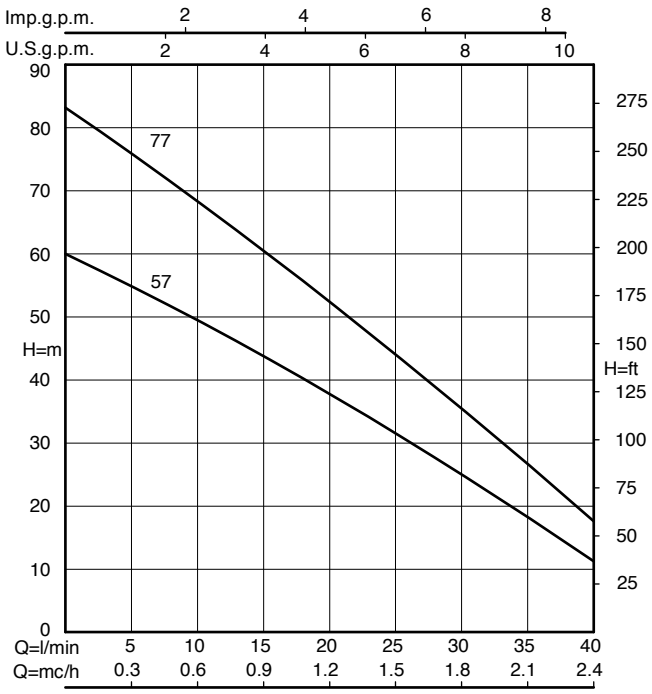
Electric pump	Turbosom
Motor casing and tie rods	Stainless steel AISI304
Shaft	Stainless steel AISI420B
Impeller, bolts and nuts	Brass OT58
Head, body and foot	Mechanical cast iron EN GJL-250
Seal rings	NBR rubber
Elastomers	NBR rubber
Cable	Neoprene H07RN-F

Peripheral electric submersible pumps TURBOSOM
for 6" wells

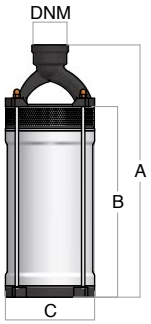
Performance characteristics 2 poles 50 Hz

Single-Phase 230 V 50 Hz		Three-Phase 400 V 50 Hz		Nominal Characteristics HP	KW	A 1~	A 3~	450 V µF	Cable m	DNM	Flow m³/h	0	0,36	0,6	0,72	0,9	1,08	1,32	1,5	1,8	2,4
											l/min	0	6	10	12	15	18	22	25	30	40
											Total manometric head in meters										
Peripheral Impeller																					
TURBOSOM	**57 M**	**TURBOSOM**	**57 T**	0,75	0,55	3,8	1,6	16	10	1"		60	54	50	48	44	40	35	31	25	11
TURBOSOM	**77 M**	**TURBOSOM**	**77 T**	1	0,75	6	2,3	20	10	1"		84	75	69	66	61	56	49	44	35	17

Series **Turbosom**



Type		Dimensions mm A	B	C	Weight Kg
Turbosom	**57 M**	334	236	136	12,6
Turbosom	**77 M**	349	251	136	14,0
Turbosom	**57 T**	334	236	136	12,6
Turbosom	**77 T**	349	251	136	13,7



TURBOSOM

SRM-SRT-SRF 6"

Electric submersible pumps SRM - SRT - SRF
for 6" wells

Application
- To pump water from reservoirs, collecting tanks and wells;
- To pressurize civil, agricultural, industrial and fire-fighting plants;
- Irrigation.

Application features
- Maximum immersion depth **30 m** (**20 m** series /200 - /300);
- Maximum content in sand:
  50 g/m³ series /100 - /140 - SRF /80 - /200 - /300,
  200 g/m³ series /230 - /330,
  300 g/m³ series /400 - /700;
- Maximum number of starts per hour **40** (**30** series /230 - /330 - /400 - /700);
- Maximum temperature of the water pumped **45 °C**;
- Continuous duty **S1** series (intermittent duty **S2** 60 min service series SRF /80);
- Degree of protection **IP 68**;
- Insulation class **F**.

Construction
SERIES /100 - /140:
- Dry, asynchronous rewindable motor with short circuit rotor;
- Double mechanical seal with oil chamber in-between.

SERIES /200 - /300:
- Asynchronous rewindable motor with short circuit rotor;
- Double mechanical seal with oil chamber in-between;
- Lubrication chamber for the ball bearing on the pump side;

SERIES /230 - /330 - /400 - /700:
- Coolant filled asynchronous rewindable motor with short circuit rotor;

SERIES SRF /80:
- 24 V DC with permanent magnets motor, with dry-brush rotor.

ATTESTATION DE CONFORMITÉ SANITAIRE ACS

This important certification, released by an Agency accredited by the French Ministry of Health, attests that the electric pumps series SRM-SRT /100 /140 /200 /300 can be used to pump drinkable water.

Components

Electric pump	/100 - /140 - SRF /80 - /200 - /300	/230 - /330 - /400 - /700
Pump union, motor cover and central body	Brass OT58	Mechanical cast iron EN GJL-250
External casing, handle, motor casing, bolts and nuts	Stainless steel AISI304	Stainless steel AISI304
Shaft	Stainless steel AISI420B	Stainless steel AISI420B - AISI303
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water and AISI304 stainless steel wear rings	Noryl® reinforced with fibre-glass, certified for drinkable water and AISI304 stainless steel wear rings
Body diffusers		/400 Mechanical cast iron EN GJL-200
Diffuser bush		/400 - /700 Anti-sand rubber
Bearing shaft support		Desmopan® with rotating element in chromium-plated brass;
Foot	Stainless steel AISI304 (/200 - /300 ABS)	Mechanical cast iron EN GJL-250
Mechanical seal	Silicon carbide and alumina (/200 - /300 Graphite and alumina)	Graphite and alumina
Elastomers	NBR rubber	NBR rubber
Cable	PVC ACS AD8	PVC

Electric submersible pumps SRM - SRT - SRF
for 6" wells

Performance characteristics 2 poles 50 Hz

Single-Phase 230 V 50 Hz		Three-Phase 400 V 50 Hz		Nominal Characteristics HP	KW	A 1~	A 3~	450 V µF	Cable m	DNM	Flow m³/h	0	1,2	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,2	7,8	8,4
											l/min	0	20	40	50	60	70	80	90	100	110	120	130	140
											Total manometric head in meters													
Radial Impeller																								
SRM07	**3/100**			0,7	0,5	4,2		16	10	1"¼		35	33	30	28	25	22	18	14	9				
SRM09	**4/100**	**SRT09**	**4/100**	0,9	0,65	5	2	16	10	1"¼		46	44	39	36	32	28	23	18	11				
SRM11	**5/100**	**SRT11**	**5/100**	1,1	0,8	6,6	2,5	20	10	1"¼		58	55	49	46	40	36	29	23	15				
SRM13	**6/100**	**SRT13**	**6/100**	1,3	0,95	7,3	2,9	25	10	1"¼		69	64	58	54	49	42	35	26	17				
SRM16	**7/100**	**SRT16**	**7/100**	1,6	1,2	8,7	3,2	31,5	10	1"¼		80	75	68	62	56	48	40	30	20				
Radial Impeller																								
SRM10	**4/140**	**SRT10**	**4/140**	1	0,75	5,7	2,2	16	10	1"¼		41	38	35	33	31	29	26	23	20	17	14	10	6
SRM13	**5/140**	**SRT13**	**5/140**	1,3	0,95	7,4	2,8	20	10	1"¼		51	48	44	41	38	35	32	29	25	21	17	13	8
SRM16	**6/140**	**SRT16**	**6/140**	1,6	1,2	8,3	3,2	25	10	1"¼		62	57	52	49	46	42	38	34	30	25	20	15	10

Single-phase electric pumps are available with or without float switch

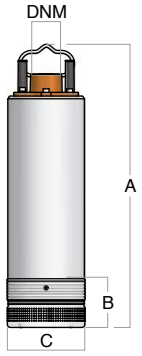
Electric submersible pump SRF DC

Performance characteristics 2800 rpm

Direct Current 24 V			Nominal Characteristics HP	KW	A	Cable m	DNM	Flow m³/h	0	0,36	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8
								l/min	0	6	10	20	30	40	50	60	70	80
								Total manometric head in meters										
Radial Impeller																		
SRF75	**4/80**	**DC**	0,75	0,55	28	5	1"¼		40	38	37	34	30	26	21	17	11	7

Type		Dimensions mm A	B	C	Weight Kg
SRM07	**3/100**	437	80	130	11,3
SRM09	**4/100**	461	80	130	11,5
SRM11	**5/100**	500	80	130	12,8
SRM13	**6/100**	544	80	130	14,5
SRM16	**7/100**	588	80	130	16,5
SRT09	**4/100**	461	80	130	11,5
SRT11	**5/100**	500	80	130	12,8
SRT13	**6/100**	544	80	130	14,5
SRT16	**7/100**	588	80	130	16,5
SRF75	**4/80**	500	80	130	10,2

Type		Dimensions mm A	B	C	Weight Kg
SRM10	**4/140**	461	80	130	11,6
SRM13	**5/140**	500	80	130	13,2
SRM16	**6/140**	544	80	130	14,6
SRT10	**4/140**	461	80	130	11,6
SRT13	**5/140**	500	80	130	13,2
SRT16	**6/140**	544	80	130	14,6



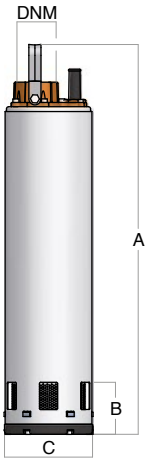
Performance characteristics 2 poles 50 Hz

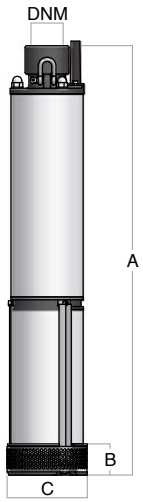
Single-Phase 230 V 50 Hz		Three-Phase 400 V 50 Hz		Nominal Characteristics				450 V	Cable		Flow m³/h	0	1,2	3,6	6	8,4	10,8	12	13,2	14,4	15,6	16,8	18	19,2
				HP	KW	A 1~	A 3~	µF	m	DNM	l/min	0	20	60	100	140	180	200	220	240	260	280	300	320
											Total manometric head in meters													
Radial Impeller																								
SRM15	**3/200**	**SRT15**	**3/200**	1,5	1,1	8	3	40	10	2"		51	49	43	35	26	14	7,5	0,5					
SRM20	**4/200**	**SRT20**	**4/200**	2	1,5	10	3,5	45	10	2"		68	65	57	47	35	19	10	1					
		SRT30	**5/200**	3	2,2		5		10	2"		86	81	71	59	43	24	13	1,5					
		SRT40	**11/230**	4	3		8		3	2"		103			91	79	61	51	39					
		SRT55	**13/230**	5,5	4		10		3	2"		125			111	94	72	59	44					
Radial Impeller																								
SRM15	**2/300**	**SRT15**	**2/300**	1,5	1,1	8	3	40	10	2"		36		33	30	26	21,5	19	16	13	10	7	4	1
SRM20	**3/300**	**SRT20**	**3/300**	2	1,5	10	3,5	45	10	2"		53		49	44	38	32	28	24	20	15	11	6,5	1,5
		SRT30	**4/300**	3	2,2		5		10	2"		71		64	58	51	42	37	32	26	20	15	8,5	2
		SRT40	**5/300**	4	3		7		10	2"		89		81	74	64	53	47	40	33	25	18	11	2,5
		SRT55	**9/330**	5,5	4		10		3	2"		89					68	63	58	53	47	41	34	27

Performance characteristics 2 poles 50 Hz

Single-Phase 230 V 50 Hz		Three-Phase 400 V 50 Hz		Nominal Characteristics				450 V	Cable		Flow m³/h	0	11,4	12,6	13,8	15,6	18	19,8	24	27	30	33	36	42
				HP	KW	A 1~	A 3~	µF	m	DNM	l/min	0	190	210	230	260	300	330	400	450	500	550	600	700
											Total manometric head in meters													
Radial Impeller																								
		SRT40	**4/400**	4	3		8		3	2"		50	41	40	37	35	31	28	20	14				
		SRT55	**5/400**	5,5	4		10		3	2"		64	52	51	49	46	42	38	29	20				
Semi-Axial impeller																								
		SRT55	**3/700**	5,5	4		10		3	2"		41					35	34	31	28	25	22	18	9

Type		Dimensions mm			Weight
		A	B	C	Kg
SRM15	**3/200**	639	150	145	21,2
SRM20	**4/200**	700	150	145	24,0
SRT15	**3/200**	639	150	145	20,4
SRT20	**4/200**	675	150	145	20,8
SRT30	**5/200**	736	150	145	23,7
SRM15	**2/300**	603	150	145	20,0
SRM20	**3/300**	664	150	145	23,3
SRT15	**2/300**	603	150	145	19,8
SRT20	**3/300**	639	150	145	20,3
SRT30	**4/300**	700	150	145	23,5
SRT40	**5/300**	776	150	145	27,0

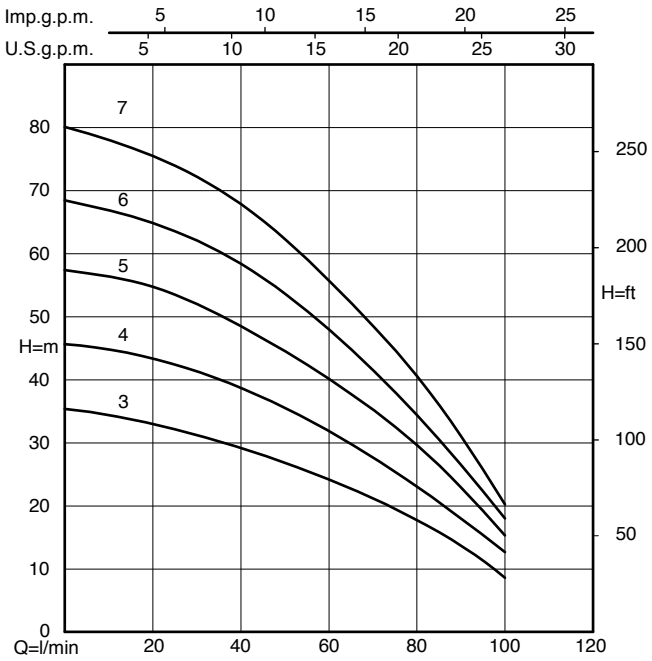




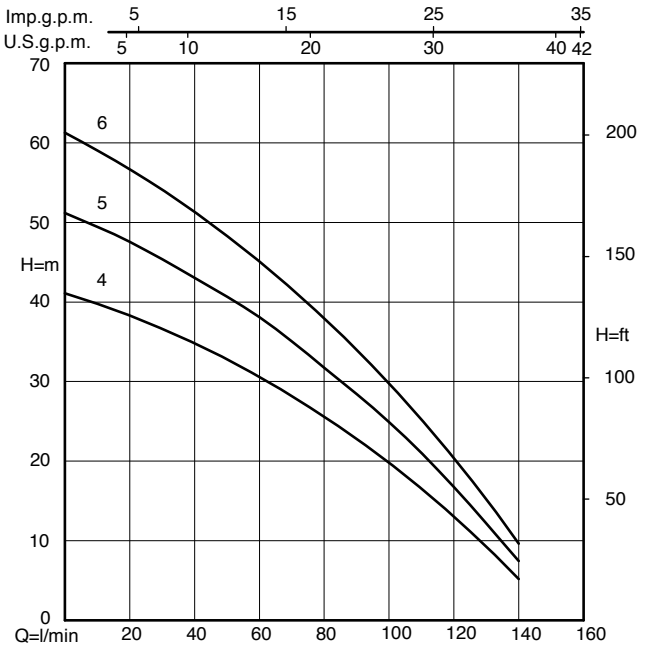
Type		Dimensions mm			Weight
		A	B	C	Kg
SRT40	**11/230**	1375	60	142	37,0
SRT55	**13/230**	1496	60	142	42,4
SRT55	**9/330**	1352	60	142	39,4
SRT40	**4/400**	1185	60	142	39,5
SRT55	**5/400**	1284	60	142	44,4
SRT55	**3/700**	1262	60	142	38,9

Electric submersible pumps SRM - SRT - SRF
for 6" wells

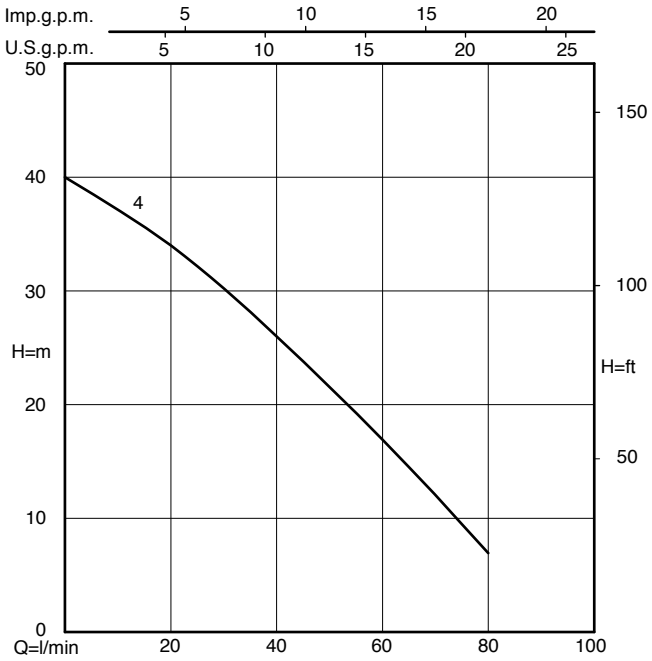
Series /**100**



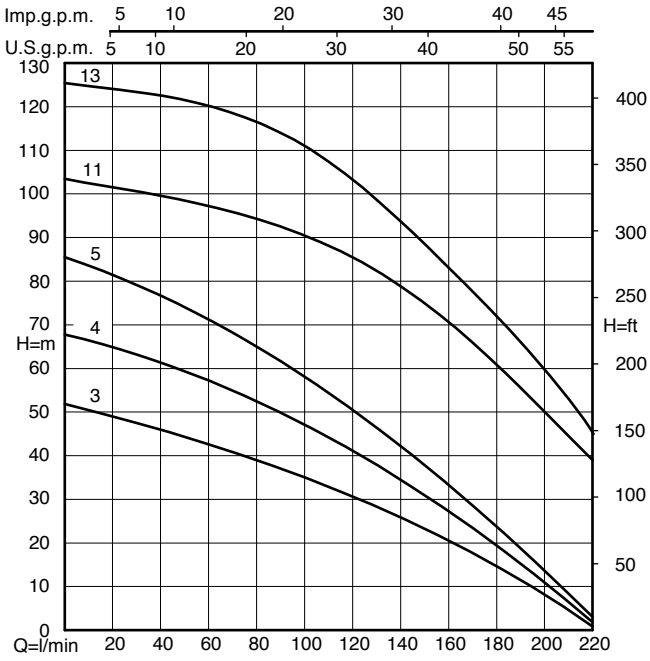
Series /**140**



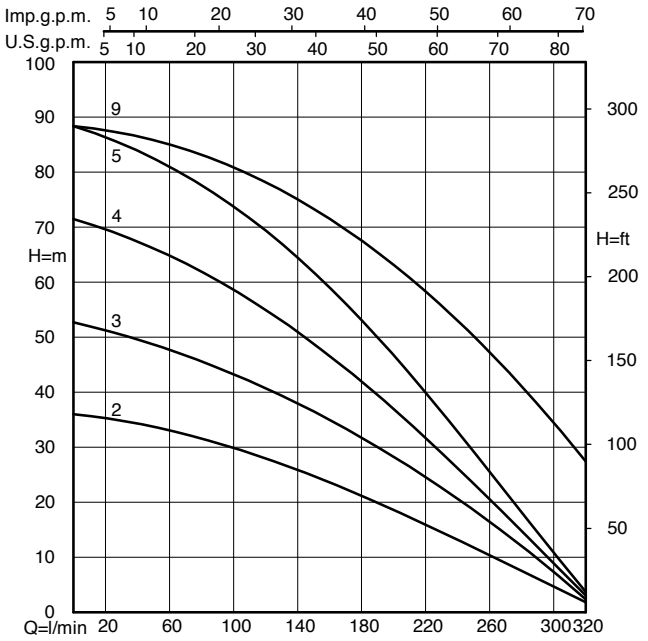
Series **SRF /80**



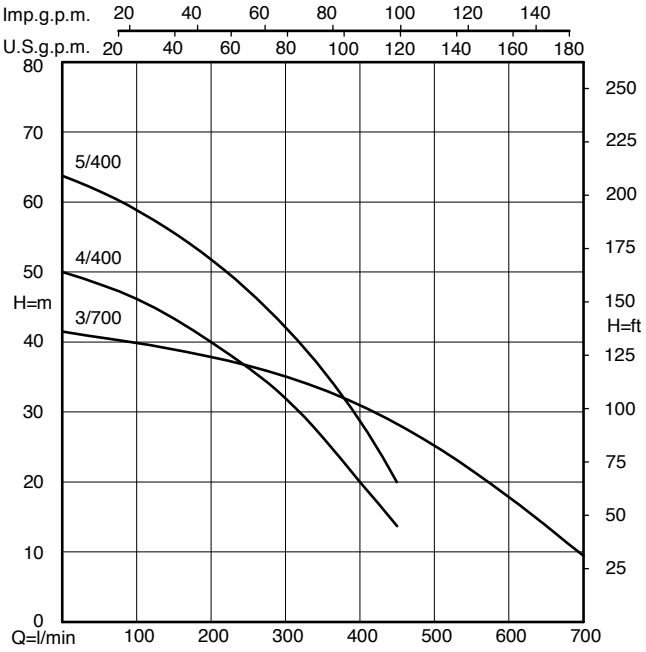
Series /**200 - /230**



Series /300 - /330



Series /400 - /700



SEMISOM

Electric submersible pumps SEMISOM
for dirty water

Application
- To expel rainwater and waste water coming from electric household appliances;
- To drain tanks, cellars and garages;
- To transfer water from pools and fountains;
- Irrigation.

Application features
- Maximum immersion depth **20 m** (**5 m** series Seminox);
- Maximum number of starts per hour **40** (**30** series Seminox);
- Maximum temperature of the liquid pumped: **35 °C** in case of continuous duty **S1** series Seminox, **50 °C** in case of continuous duty **S1** series Semisom, **45 °C** in case of intermittent duty **S2** 60 min series Semisom DC 24 V;
- Degree of protection **IP 68**;
- Insulation class **F**.

Construction
- Coolant filled, asynchronous rewindable motor with short circuit rotor;
- Twin seal with oil chamber.

SEMISOM C:
- Internal capacitor and thermal protector put in a separate, easily-accessible, watertight chamber.

SEMISOM M:
- Supplied with a control box containing pump capacitor and unipolar thermal protector switch.

SEMINOX:
- Asynchronous motor with short circuit rotor;
- Built-in capacitor and thermal protector.

SEMISOM DC 24 V:
- 24 V DC with permanent magnets motor, with dry-brush rotor;
- Twin seal with oil chamber.

Components

Electric pump	Seminox	Semisom
Handle, motor casing, bolts and nuts	Stainless steel AISI304	Stainless steel AISI304
Shaft	Stainless steel AISI303	Stainless steel AISI420B
Cover and pump body	Stainless steel AISI304	Mechanical cast iron EN GJL-250
Tie rods		Stainless steel AISI304
Impeller	Stainless steel AISI304 (Seminox 155 in technopolymer reinforced with fibre-glass)	Mechanical cast iron EN GJL-200 (Semisom 190 - 130 H in technopolymer reinforced with fibre-glass)
Mechanical seal	Graphite and alumina	Silicon carbide and alumina
Seal ring		NBR rubber
Elastomers	NBR rubber	NBR rubber
Cable	Neoprene H07RN-F	Neoprene H07RN-F (Semisom C/T+G Neoprene H07RN8-F)

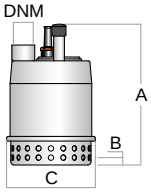
Electric submersible pumps SEMISOM
for dirty water with vertical discharge

Performance characteristics 2 poles 50 Hz

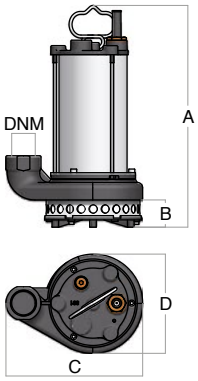
Single-Phase 230 V Three-Phase 400 V 50 Hz	Version *	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V µF	Cable m	Cable DNM	Solids passage ø	Flow m³/h	0	1,8	6	9	12	15	18	21	24	27
										l/min	0	30	100	150	200	250	300	350	400	450
											Total manometric head in meters									
Open Impeller																					
SEMINOX 155	**C**	0,33	0,25	1,9		8	5	1"¼	10		7,6	6,8	4,3	1,5						
SEMINOX 155 L	**C**	0,33	0,25	2,2		8	5	1"¼	20		6,5	5,9	4,2	2,4						
SEMISOM 190	**C/M/T**	0,5	0,37	2,5	1,2	10	5	1"¼	5		10,5	9,5	7	4	1					
SEMISOM 320	**C/M/T/T+G**	0,75	0,55	4,2	1,7	16	5	1"¼	13		11,5	11	9	7,5	5,5	3	0,5			
SEMISOM 465	**C/M/T/T+G**	1,5	1,1	7,3	2,7	20	5	2"	5		19		17,5	16,5	15,5	14	12	9,5	6,5	1

* C : Single-phase with internal capacitor and float switch
M : Single-phase with external capacitor with or without float switch
T : Three-phase without float switch
T+G : Three-phase with float switch

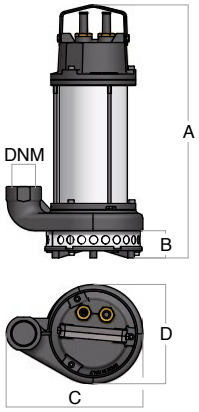
Type			Dimensions mm A	B	C	D	Weight Kg
Seminox	**155**	**C**	273	20	167		4,6
Seminox	**155 L**	**C**	304	45	167		5,0
Semisom	**190**	**C**	393	50	225	164	12,8
Semisom	**320**	**C/T+G**	418	50	225	164	14,9
Semisom	**465**	**C/T+G**	484	60	250	172	21,8
Semisom	**190**	**M/T**	335	50	225	164	10,8
Semisom	**320**	**M/T**	360	50	225	164	13,0
Semisom	**465**	**M/T**	440	60	250	172	19,5



Seminox



Semisom M/T



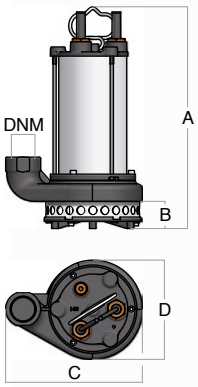
Semisom C/T+G

Electric submersible pumps SEMISOM DC

Performance characteristics 2800 rpm

Direct Current 24 V	Nominal HP	Nominal KW	Max A	Cable m	Cable DNM	Solids passage ø	Flow m³/h	0	1,8	6	9	12	15	18
							l/min	0	30	100	150	200	250	300
								Total manometric head in meters						
Open Impeller														
SEMISOM 190 DC	0,5	0,37	24	5	1"¼	5		10,5	9,5	7	4	1		
SEMISOM 320 DC	0,75	0,55	28	5	1"¼	13		11,5	11	9	7,5	5,5	3	0,5

Type		Dimensions mm A	B	C	D	Weight Kg
Semisom	**190 DC**	385	50	225	164	10,2
Semisom	**320 DC**	400	50	225	164	11,6

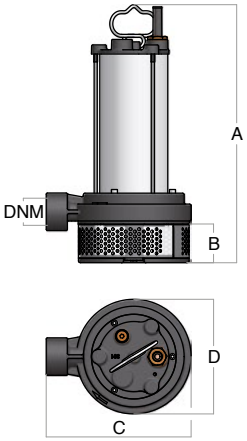


High head electric submersible pumps SEMISOM H
for dirty water with horizontal discharge

Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	Version *	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V µF	Cable m	Solids DNM	Solids passage ø	Flow m³/h	0	1,2	2,4	3,6	4,8	6
										l/min	0	20	40	60	80	100
										Total manometric head in meters						
High head Open Impeller																
SEMISOM 130 H	**M/T**	1,5	1,1	7,6	2,9	25	10	1"½	5		30	29	26,5	23,5	19,5	15

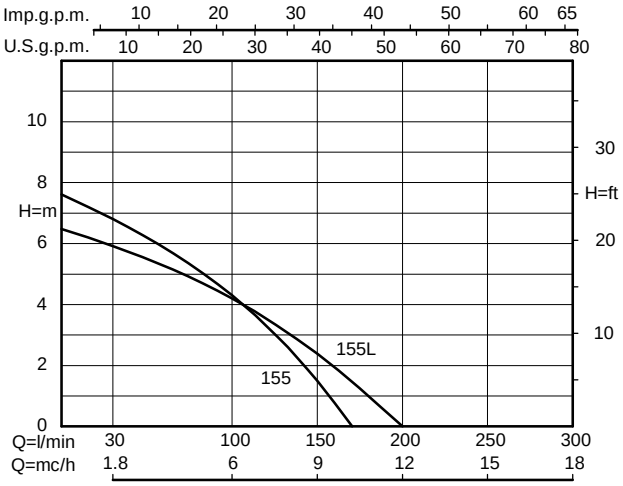
* M : Single-phase with external capacitor with or without float switch
T : Three-phase



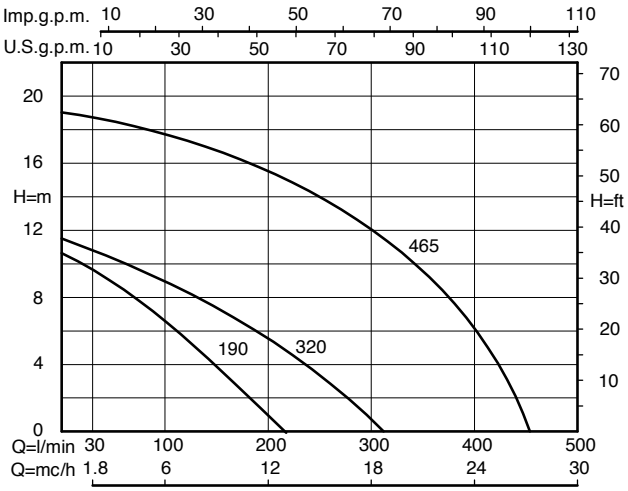
Type	Dimensions mm A	B	C	D	Weight Kg
Semisom 130 H M	426	69	240	190	21,8
Semisom 130 H T	426	69	240	190	21,5

Electric submersible pumps SEMISOM
for dirty water

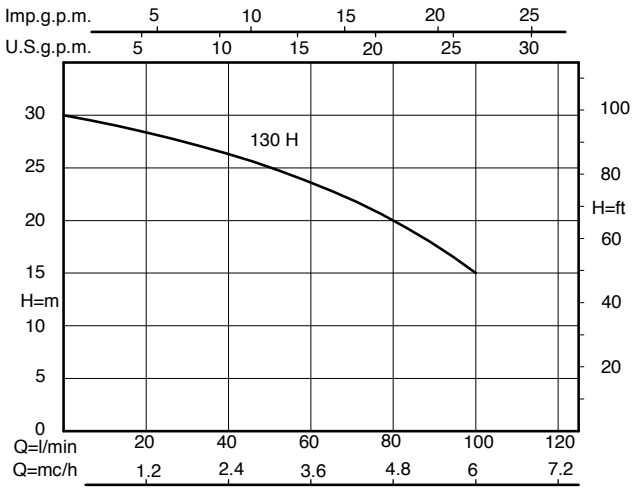
Seminox 155 - 155 L



Semisom 190 - 320 - 465



Semisom 130 H




SEMISOM
SEMISOM
SEMISOM

SEMISOM

Electric submersible pumps SEMISOM
for sewage water

Application
- To convey waste and sewage water from septic tanks;
- To drain rain water;
- To pump liquids containing solids and filaments;
- To pump sewage water even through pipes with reduced diameter (Semisom 125 GR with grinder).

Application features
- Maximum size of solids allowed **65 mm**;
- Maximum immersion depth **20 m**;
- Maximum number of starts per hour **40**;
- Maximum temperature of the liquid pumped: **50 °C** in case of continuous duty **S1** series Semisom, **45 °C** in case of intermittent duty **S2** 60 min series Semisom DC 24 V;
- Degree of protection **IP 68**;
- Insulation class **F**.

Construction
- Coolant filled, asynchronous rewindable motor with short circuit rotor;
- Twin seal with oil chamber;

SEMISOM C:
- Internal capacitor and thermal protector put in a separate, easily-accessible, watertight chamber.

SEMISOM M:
- Supplied with a control box containing pump capacitor and unipolar thermal protector switch.

SEMISOM 650:
- The volute of the pump is already provided with quick connection for guide rail kit.

SEMISOM DC 24 V:
- 24 V DC with permanent magnets motor, with dry-brush rotor;
- Twin seal with oil chamber.

Accessories
- Guide rail kit.

Components

Electric pump	Semisom	Semisom GR
Tie rods, handle, motor casing, bolts and nuts	Stainless steel AISI304	Stainless steel AISI304
Shaft	Stainless steel AISI420B	Stainless steel AISI416B
Cover and pump body	Mechanical cast iron EN GJL-250	Mechanical cast iron EN GJL-250
Impeller	Mechanical cast iron EN GJL-200	Technopolymer reinforced with fibre-glass
Grinder		Forged Stainless steel AISI440C
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 (Semisom C/T+G Neoprene H07RN8-F	Neoprene H07RN-F

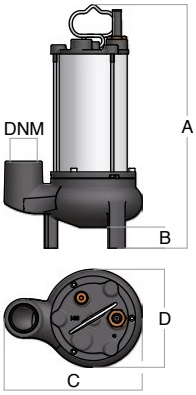
Electric submersible pumps SEMISOM
for sewage water with vertical discharge

Performance characteristics 2 poles 50 Hz

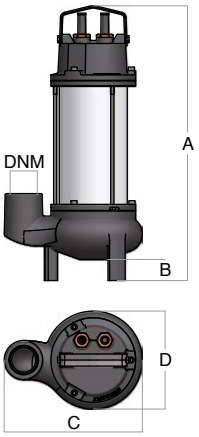
Single-Phase 230 V Three-Phase 400 V 50 Hz	Version *	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V µF	Cable m	Cable DNM	Solids passage ø	Flow m³/h	0	1,8	6	9	12	15	18	21	24	27	30	36
										l/min	0	30	100	150	200	250	300	350	400	450	500	600
										Total manometric head in meters												
Vortex Impeller																							
SEMISOM 265	**C/M/T/T+G**	0,75	0,55	4,2	1,7	16	5	1"½	40		8,5	8	6,5	5,5	4	3	1					
SEMISOM 390	**C/M/T/T+G**	1	0,75	5,5	2,3	16	5	2"	50		10		8,5	8	7	6	5	4	3	2	1	
SEMISOM 490	**C/M/T/T+G**	1,5	1,1	7,3	2,7	20	5	2"	50		11		9,5	9	8	7,5	6,5	5,5	5	4	3	1
Double-Channel Impeller																							
SEMISOM 262	**C/M/T/T+G**	0,75	0,55	4,2	1,7	16	5	2"	32		10,5	10	9	8	7	6	4,5	3	1			
SEMISOM 635	**C/M/T/T+G**	1,5	1,1	7,3	2,7	20	5	2"	32		15	14,5	13,5	13	12	11	10	9	7,5	6,5	5	2

* C : Single-phase with internal capacitor and float switch
M : Single-phase with external capacitor with or without float switch
T : Three-phase without float switch
T+G : Three-phase with float switch

Type		Dimensions mm A	B	C	D	Weight Kg
Semisom 265	**C/T+G**	454	50	230	162	16,5
Semisom 390	**C/T+G**	502	65	235	162	17,7
Semisom 490	**C/T+G**	527	65	235	162	19,5
Semisom 262	**C/T+G**	450	60	250	172	19,1
Semisom 635	**C/T+G**	484	60	250	172	21,3
Semisom 265	**M/T**	400	50	230	162	13,6
Semisom 390	**M/T**	450	65	235	162	15,7
Semisom 490	**M/T**	474	65	235	162	16,5
Semisom 262	**M/T**	400	60	250	172	16,7
Semisom 635	**M/T**	440	60	250	172	19,3



Semisom M/T



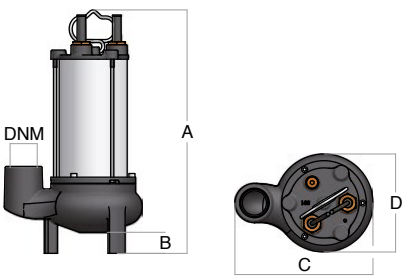
Semisom C/T+G

Electric submersible pumps SEMISOM DC

Performance characteristics 2800 rpm

Direct Current 24 V	Nominal HP	Nominal KW	Max A	Cable m	Cable DNM	Solids passage ø	Flow m³/h	0	1,8	6	9	12	15	18	21	24
							l/min	0	30	100	150	200	250	300	350	400
							Total manometric head in meters									
Vortex Impeller																
SEMISOM 265 DC	0,75	0,55	28	5	1"½	40		8,5	8	6,5	5,5	4	3	1		
Double-Channel Impeller																
SEMISOM 262 DC	0,75	0,55	28	5	2"	32		10,5	10	9	8	7	6	4,5	3	1

Type	Dimensions mm A	B	C	D	Weight Kg
Semisom 265 DC	440	50	230	162	13,0
Semisom 262 DC	440	60	250	172	15,3



Electric submersible pumps SEMISOM
for sewage water with horizontal discharge

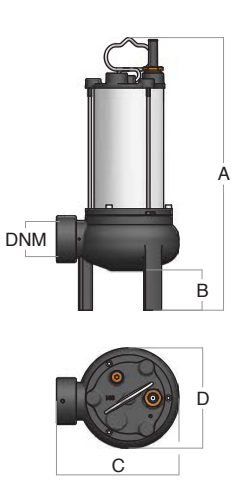
Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	Version *	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V µF	Cable m	DNM	Solids passage ø	Flow m³/h	0	1,8	6	9	12	15	18	21	24	27	30	36
										l/min	0	30	100	150	200	250	300	350	400	450	500	600
										Total manometric head in meters												
Vortex Impeller																						
SEMISOM 290 0	**C/M/T**	0,75	0,55	4,2	1,7	16	10	2"	50		8,5		7	6,5	5,5	4,5	3,5	2,5	1			
SEMISOM 390 0	**C/M/T**	1	0,75	5,5	2,3	16	10	2"	50		10		8,5	8	7	6	5	4	3	2	1	
SEMISOM 490 0	**C/M/T**	1,5	1,1	7,3	2,7	20	10	2"	50		11		9,5	9	8	7,5	6,5	5,5	5	4	3	1
SEMISOM 590 0	**M/T**	2	1,5	10,5	4,1	31,5	10	2"	50		14,5		13	12,5	11,5	11	10	9	8	7,5	6,5	5
Double-Channel Impeller																						
SEMISOM 635 0	**C/M/T**	1,5	1,1	7,3	2,7	20	5	2"	32		15	14,5	13,5	13	12	11	10	9	7,5	6,5	5	2

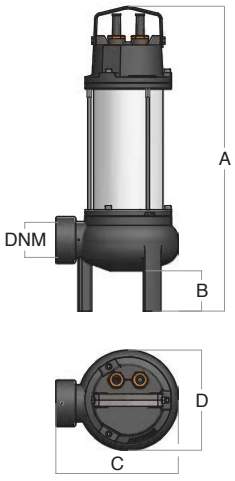
Guide rail kit is available, on request

* C : Single-phase with internal capacitor and float switch
M : Single-phase with external capacitor with or without float switch
T : Three-phase without float switch

Type	Dimensions mm A	B	C	D	Weight Kg
Semisom 290 0 C	492	65	198	162	16,5
Semisom 390 0 C	502	65	198	162	17,5
Semisom 490 0 C	526	65	198	162	18,8
Semisom 635 0 C	484	60	220	172	22,0
Semisom 290 0 M/T	440	65	198	162	14,4
Semisom 390 0 M/T	450	65	198	162	15,7
Semisom 490 0 M/T	474	65	198	162	16,5
Semisom 590 0 M/T	496	65	198	162	18,2
Semisom 635 0 M/T	440	60	220	172	20,1

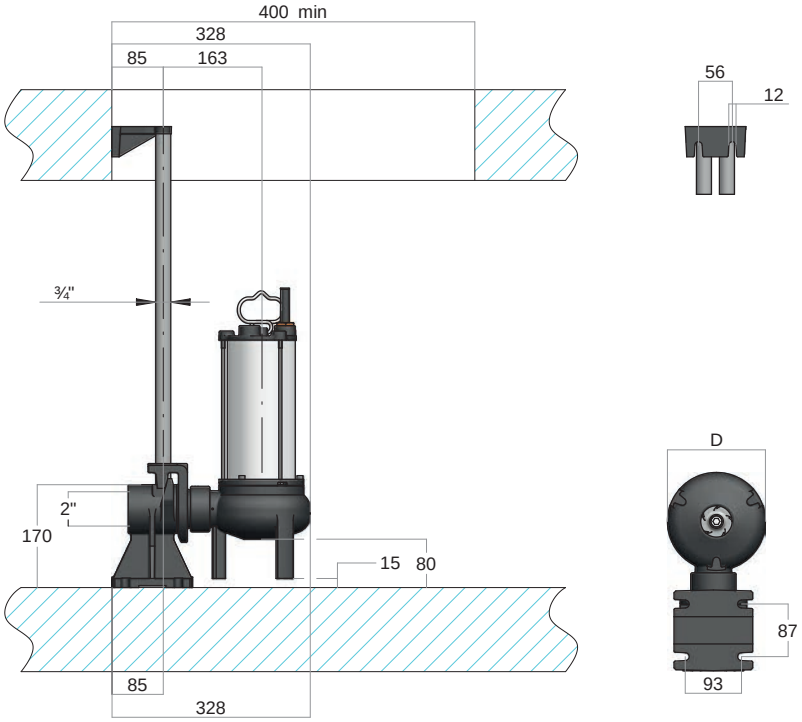


Semisom M/T



Semisom C

Guide rail kit



Electric submersible pumps SEMISOM 650 with quick connection
for sewage water

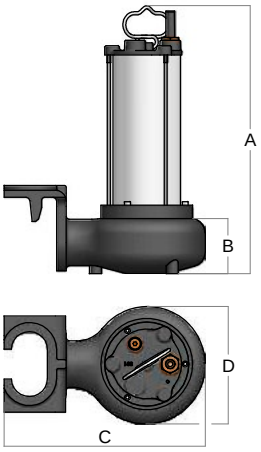
Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	Version *	Nominal		Max		450 V	Cable		Solids	Flow m³/h	0	1,8	6	9	12	15	18	21	24	27	30	36
		HP	KW	A 1~	A 3~	µF	m	DNM	passage ø	l/min	0	30	100	150	200	250	300	350	400	450	500	600
										Total manometric head in meters												
Vortex Impeller																						
SEMISOM 650	**M/T**	2	1,5	12	4,6	31,5	10	2"½	65		9		8	7,5	7	6,5	6	5,5	5	4,5	4	3

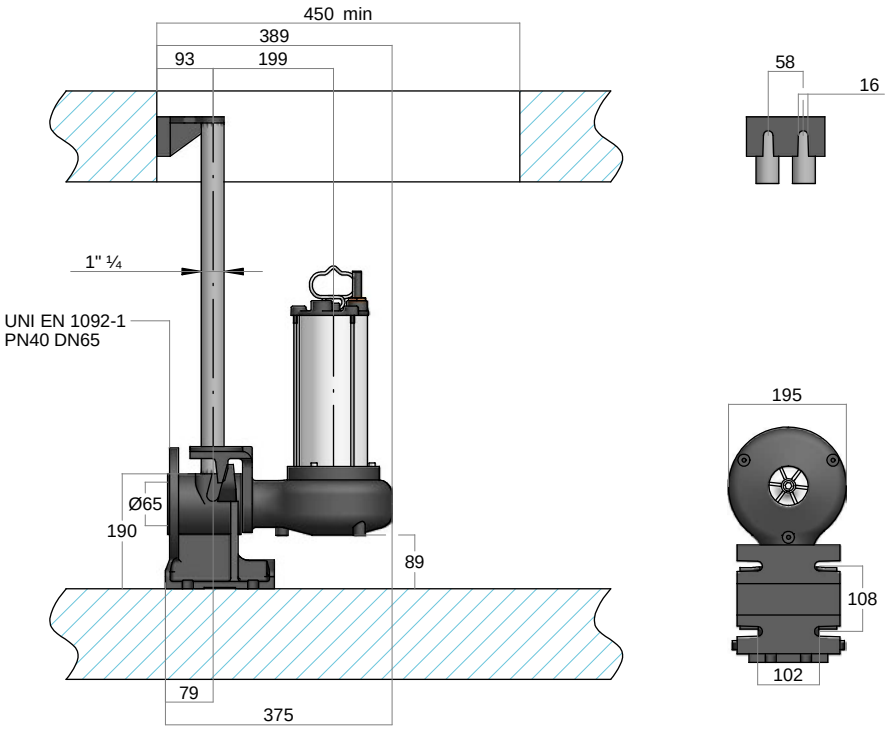
To be installed only with guide rail kit

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

Type			Dimensions mm				Weight
			A	B	C	D	Kg
Semisom	**650**	**M**	445	91	334	195	23,0
Semisom	**650**	**T**	445	91	334	195	22,7



Guide rail kit



Electric submersible pumps SEMISOM GR with grinder
for sewage water

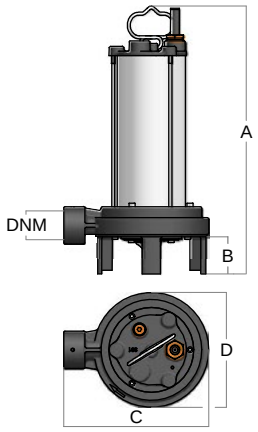
Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	Version *	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V µF	Cable m	Cable DNM	Flow m³/h	0	1,2	2,4	3,6	4,8	6	6,6
									l/min	0	20	40	60	80	100	110
									Total manometric head in meters							
High head Open Impeller																
SEMISOM 125 GRP	**M/T**	1,6	1,18	9,2	2,9	35	10	1"½		30	27,5	25,5	22,5	19	14	3
***SEMISOM 125 GR**	**M/T**	1,6	1,18	9,2	2,9	35	10	1"½		30	27,5	25,5	22,5	19	14	3

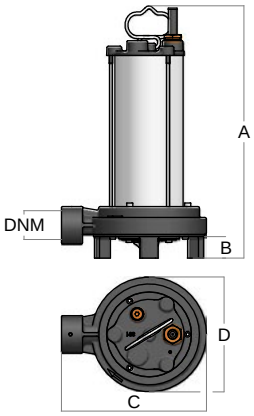
Guide rail kit is available, on request

* Without stands (suggested to avoid the risks of entanglement of filaments)

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



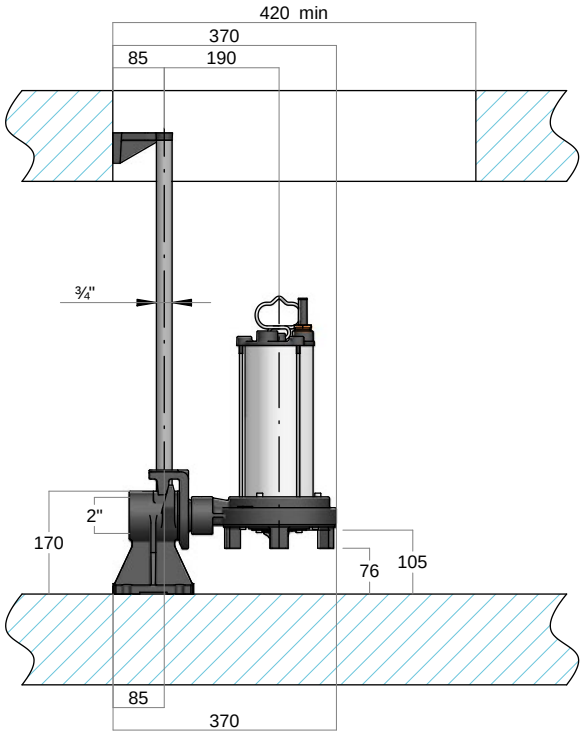
Semisom GRP

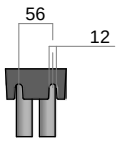


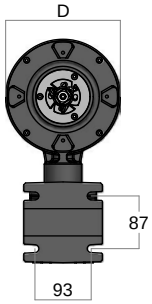
Semisom GR

Type			Dimensions mm A	B	C	D	Weight Kg
Semisom	**125 GRP**	**M**	441	54	240	190	22,1
Semisom	**125 GRP**	**T**	421	54	240	190	21,4
Semisom	**125 GR**	**M**	416	29	240	190	21,9
Semisom	**125 GR**	**T**	396	29	240	190	21,2

Guide rail kit

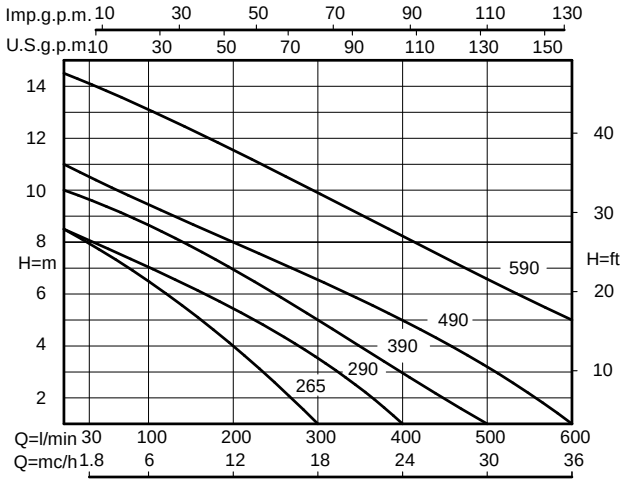




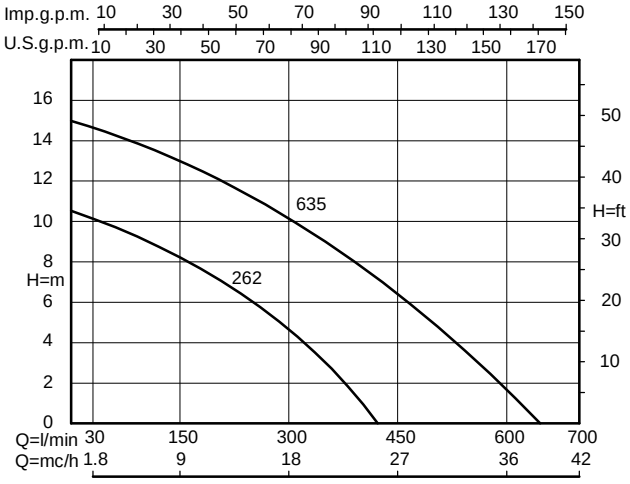


Electric submersible pumps SEMISOM
for sewage water

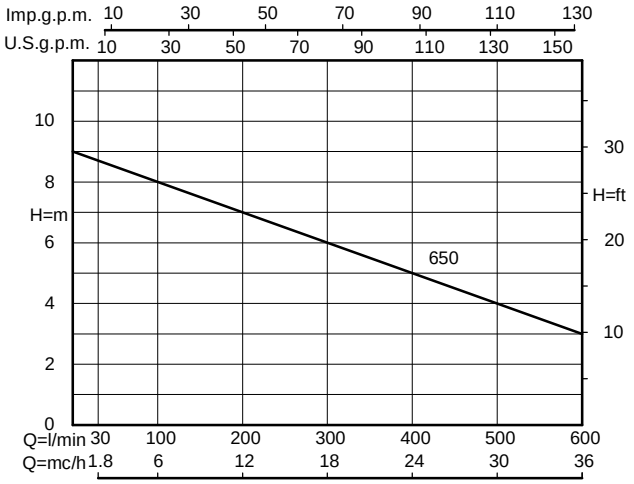
Semisom 265 - 290 - 390 - 490 - 590



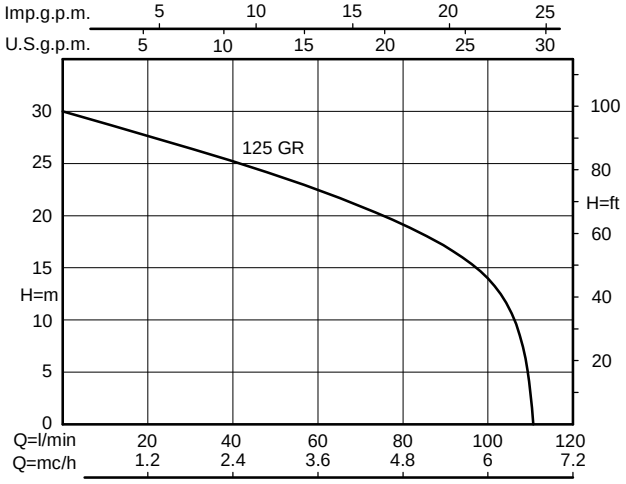
Semisom 262 - 635



Semisom 650



Semisom 125 GR



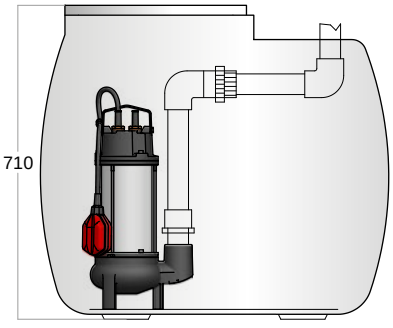
Automatic pumping station SEMIBOX
for sewage water

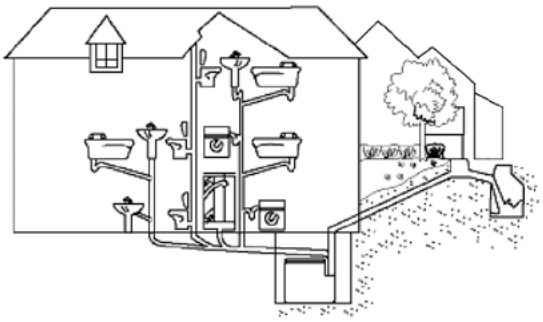
Application
- Suitable to collect and convey waste and sewage water;
- Advisable when the sewers are higher than the collecting system;
- The collecting tanks can be installed inside garages, basements or underground.

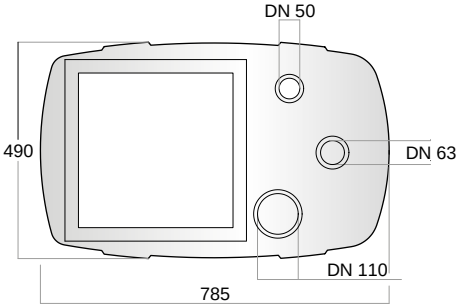
Application features
- Maximum capacity **200 litres**.

Control
- By means of a float switch supplied with the electric pump.

Construction
- Tank in corrosion-resistant, high-density polyethylene for either surface or underground installation;
- Supplied with the necessary gaskets for both inlet and outlet pipes and ventilation hole;
- Discharge pipe has simple release fittings to disconnect the pump;
- The hermetically sealed lid can be removed for inspecting the plant;
- The electric pump and tank can be coupled using either ø 50 mm or ø 63 mm dia. pipe;
- Facility for one electric submersible Semisom pump (not included).







SEMISOM /50-/65

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

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

Performance characteristics 2 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	*	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V Cable µF	Cable m	Solids DNM	Solids passage ø	Flow m³/h	0	6	12	18	24	30	36	42	48	54	60	66	78	90
										l/min	0	100	200	300	400	500	600	700	800	900	1000	1100	1300	1500
										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

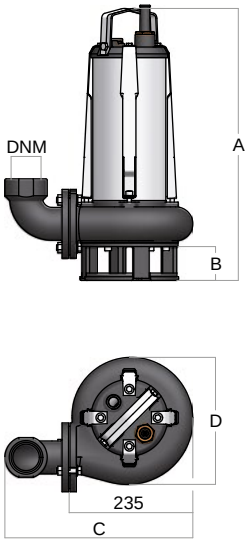
Performance characteristics 4 poles 50 Hz

Single-Phase 230 V Three-Phase 400 V 50 Hz	*	Nominal HP	Nominal KW	Max A 1~	Max A 3~	450 V Cable µF	Cable m	Solids DNM	Solids passage ø	Flow m³/h	0	6	12	18	24	27	30	33	36	39	42	45
										l/min	0	100	200	300	400	450	500	550	600	650	700	750
										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

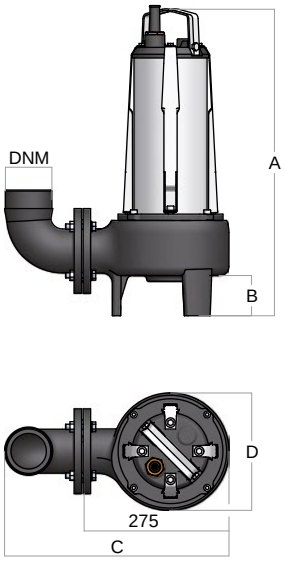
Available, on request, guide rail kit

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

Type			Dimensions mm A	B	C	D	Weight Kg
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

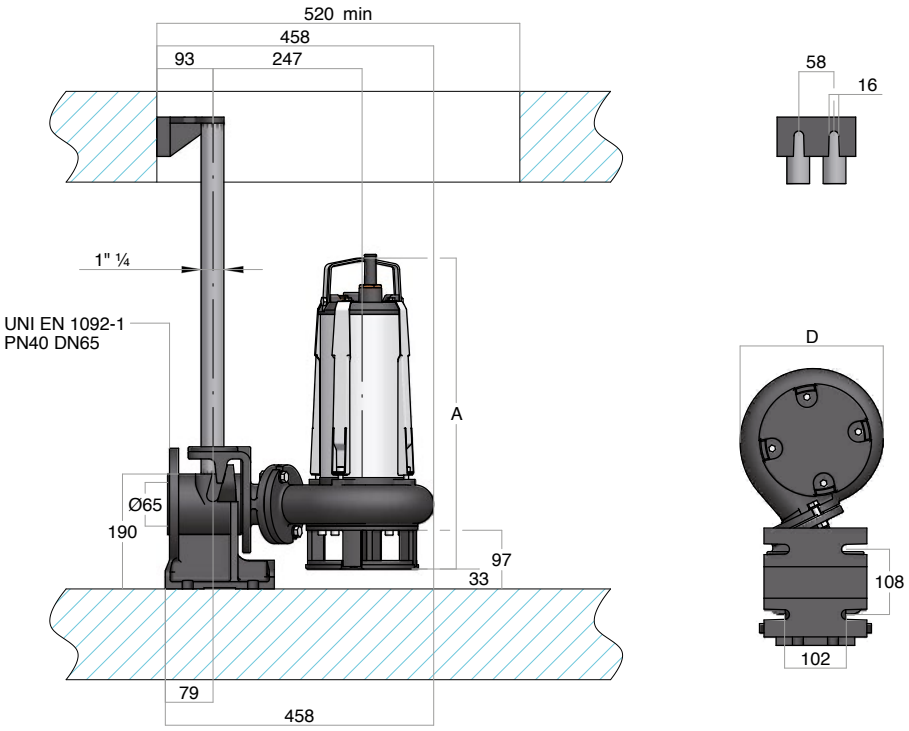


Semisom /50

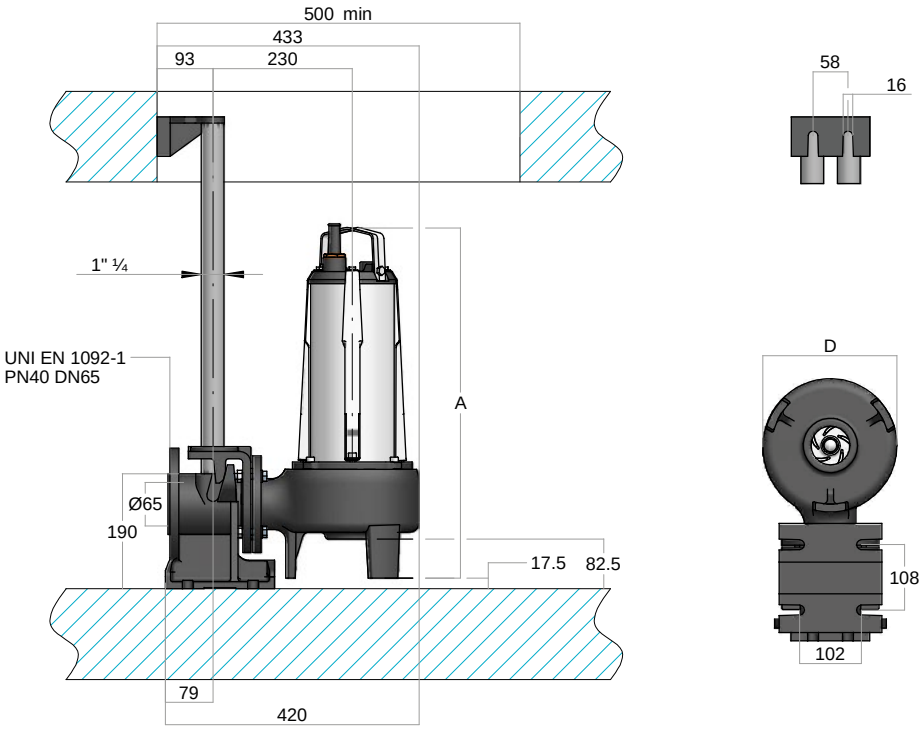


Semisom /65

Guide rail kit for Semisom /50

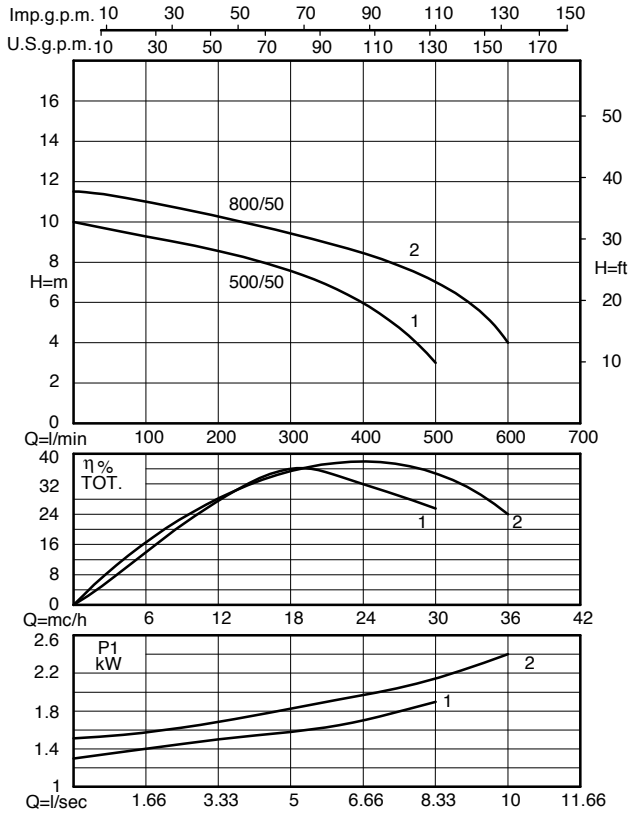


Guide rail kit for Semisom /65

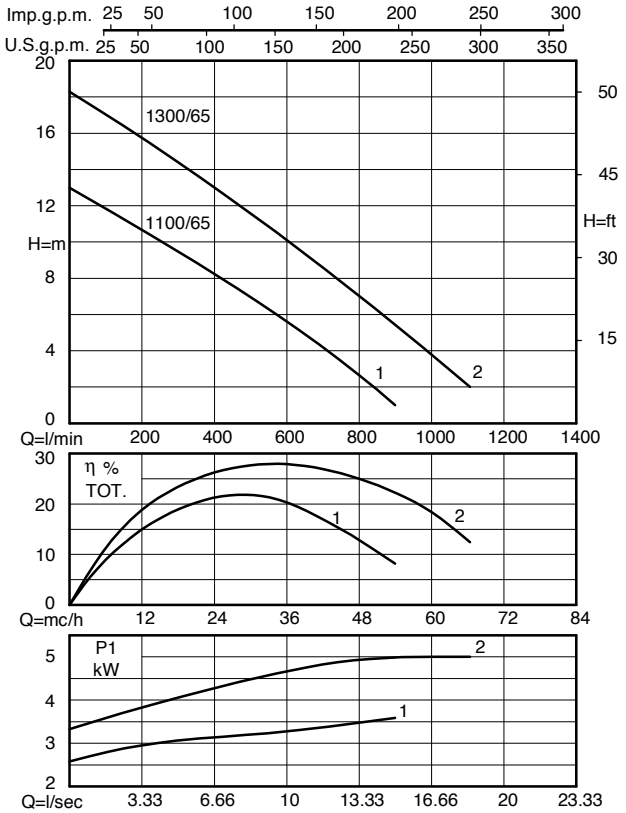


Electric submersible pumps SEMISOM /50 - /65
for sewage water

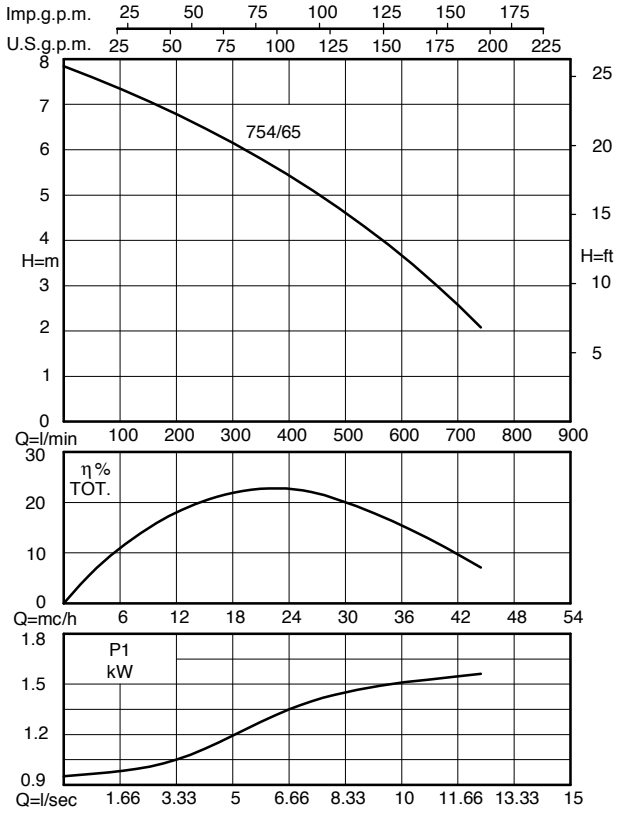
Semisom 500/50 - 800/50



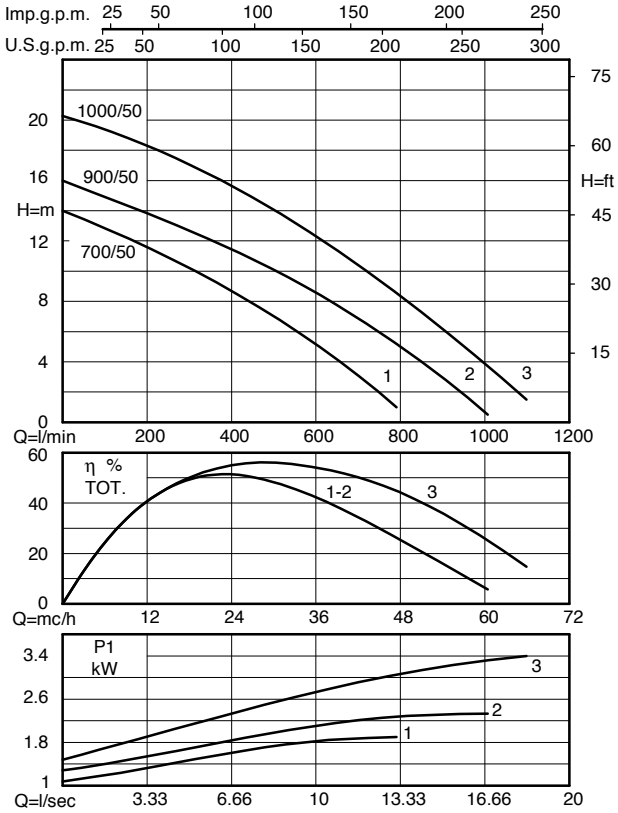
Semisom 1100/65 - 1300/65



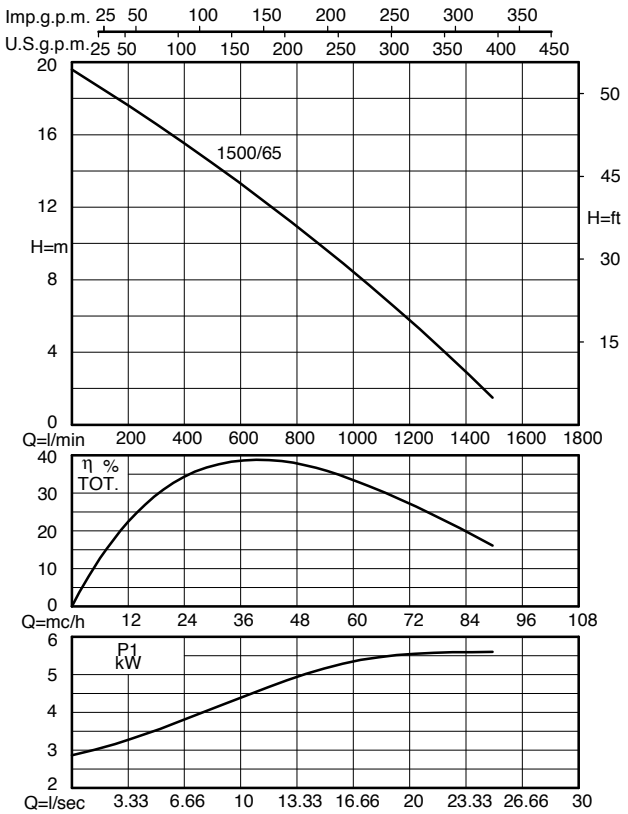
Semisom 754/65



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



Semisom 1500/65



SEMISOM / 80

Electric submersible pumps SEMISOM /80
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 1504/80 4 poles).

Application features
- Maximum size of solids allowed **74 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 mechanical seal in oil chamber;
- Humidity probe in the first chamber;
- Micro thermostat.

Accessories
- Pump stand;
- Guide rail kit;
- Threaded Flange UNI EN 1092-1 for pump discharge.

Components

Electric pump	Semisom /80
Tie rods, handle, motor casing, bolts and nuts	Stainless steel AISI304
Shaft	Stainless steel AISI420B
Cover and pump body	Mechanical cast iron EN GJL-250
Impeller	Mechanical cast iron EN GJL-250
Feet	Stainless steel AISI304
External mechanical seal	Silicon carbide and alumina
Mechanical seal in the first chamber	Graphite and alumina
Elastomers	NBR rubber
Cable	PBS8-F AD8

Electric submersible pumps SEMISOM /80
for sewage water

Performance characteristics 2 poles 50 Hz

Three-Phase 400 V 50 Hz		P2 HP	P2 KW	P1 KW	Cable A max	Cable m	Solids DNM	Solids passage ø	Flow m³/h	0	15	30	45	60	72	78	90	96	108	123	135	150	165
									l/min	0	250	500	750	1000	1200	1300	1500	1600	1800	2050	2250	2500	2750
									Total manometric head in meters														
Vortex Impeller																							
SEMISOM 1555/80	**T**	5,5	4	5,34	9.2	10	80	74		14	13,5	12,6	11,1	8,2	6,3	5,5	4						
SEMISOM 1255/80	**T**	5,5	4	5,31	9.1	10	80	74		15,5	14,6	13,7	12,4	9,7	7,7								
SEMISOM 1055/80	**T**	5,5	4	5,41	9.2	10	80	74		17	16,4	15,5	14,1	11,4									
SEMISOM 1775/80	**T**	7,5	5,5	6,8	11.9	10	80	74		17	16,4	15,5	14,1	11,4	9,1	8,1	6,5	5,7	4,4				
SEMISOM 1675/80	**T**	7,5	5,5	7	12	10	80	74		19	18,2	17,2	16	13,7	11,1	9,9	8,1	7,4					
SEMISOM 1375/80	**T**	7,5	5,5	6,8	11.9	10	80	74		21	20	18,5	17,2	15	12,7	11,6							
SEMISOM 2100/80	**T**	10	7,5	9	16.2	10	80	74		21	20	18,5	17,2	15	12,7	11,6	9,6	8,7	6,7	4			
SEMISOM 1600/80	**T**	10	7,5	9	16.2	10	80	74		24	23	21,7	20,3	18,3	16,1	14,9	12,6						
SEMISOM 1200/80	**T**	10	7,5	9,1	16.4	10	80	74		27	25,4	23,8	22,4	20,4	18								
Double-Channel Impeller																							
SEMISOM 2700/80	**T**	11	8	10,4	18	10	80	45x62				20	18,5	17	15,8	15,3	14	13,4	12,1	10,4	8,7	6,5	4

Performance characteristics 4 poles 50 Hz

Three-Phase 400 V 50 Hz		P2 HP	P2 KW	P1 KW	Cable A max	Cable m	Solids DNM	Solids passage ø	Flow m³/h	0	12	24	30	36	48	60	66	72	78	84	90	96
									l/min	0	200	400	500	600	800	1000	1100	1200	1300	1400	1500	1600
									Total manometric head in meters													
Vortex Impeller																						
SEMISOM 1504/80	**T**	3,5	2,6	3,64	8.2	10	80	74		9,7	9,3	8,8	8,6	8,3	7,6	6,8	6,3	5,8	5,4	4,9	4,4	3,9

P1: Max absorbed power from mains

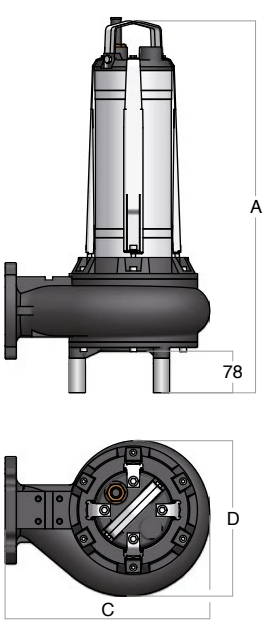
P2: Rated power of the motor

Pump stand is available, on request

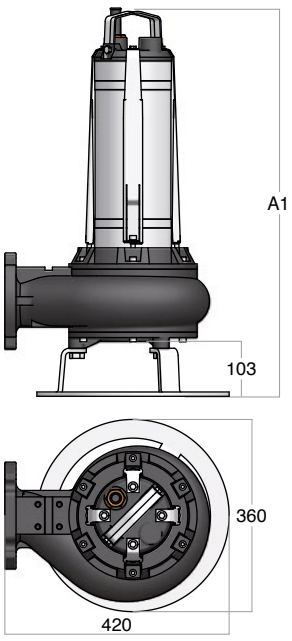
Guide rail kit is available, on request

UNI EN 1092-1 threaded flange for discharge is available, on request

Type		Dimensions mm A	A1	C	D	Weight Kg
Semisom 1555/80	**T**	703	728	383	295	65,5
Semisom 1255/80	**T**	703	728	383	295	65,5
Semisom 1055/80	**T**	703	728	383	295	65,5
Semisom 1775/80	**T**	733	758	383	295	69,0
Semisom 1675/80	**T**	733	758	383	295	69,0
Semisom 1375/80	**T**	733	758	383	295	69,0
Semisom 2100/80	**T**	758	783	383	295	71,0
Semisom 1600/80	**T**	758	783	383	295	71,0
Semisom 1200/80	**T**	758	783	383	295	71,0
Semisom 2700/80	**T**	758	783	383	295	71,0
Semisom 1504/80	**T**	758	783	383	295	71,0

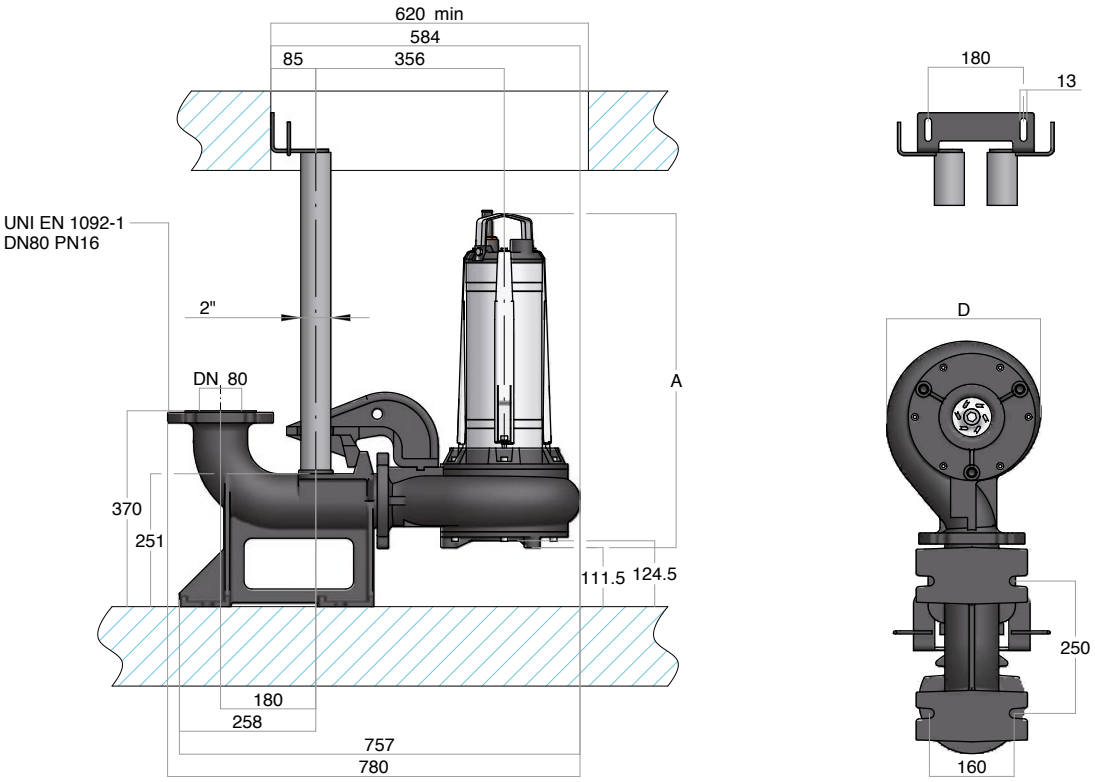


Standard

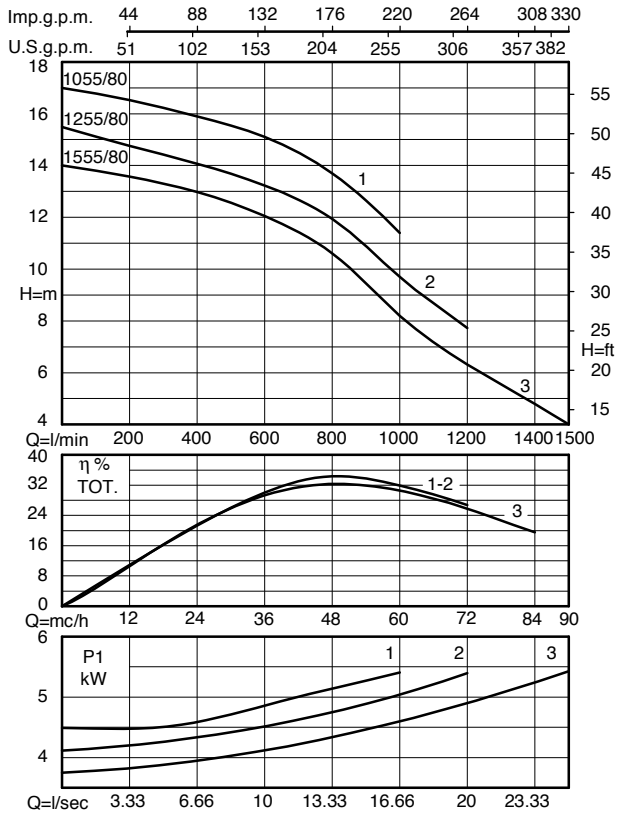


With pump stand

Guide rail kit

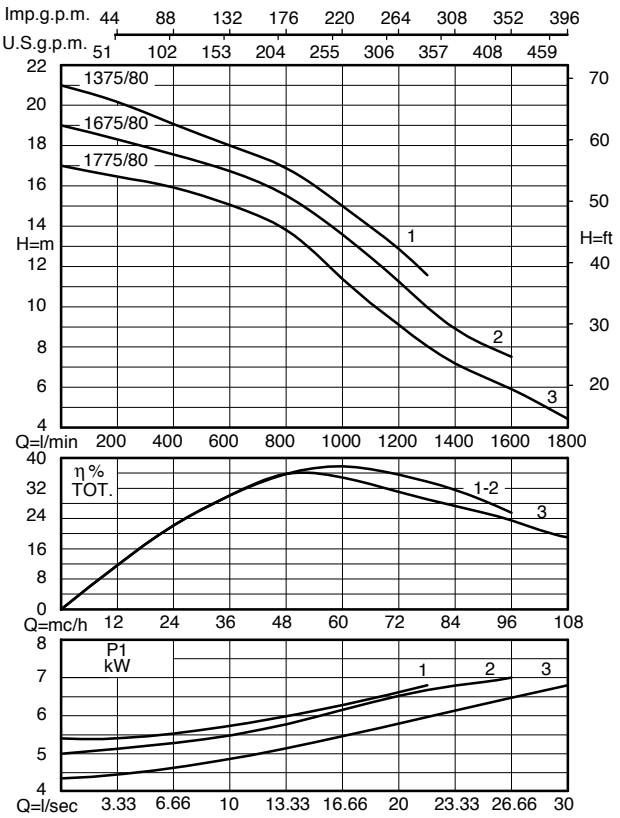


Semisom 1555/80 - 1255/80 - 1055/80

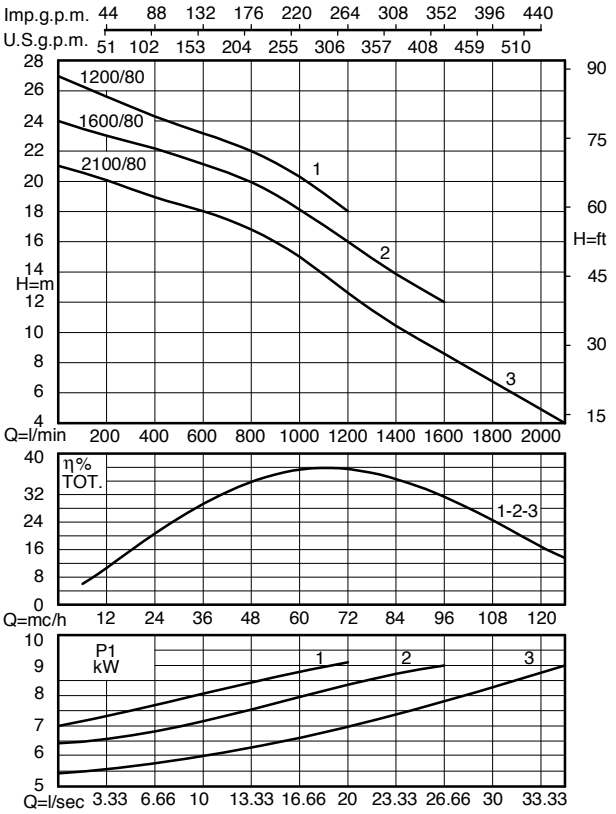


Electric submersible pumps SEMISOM /80
for sewage water

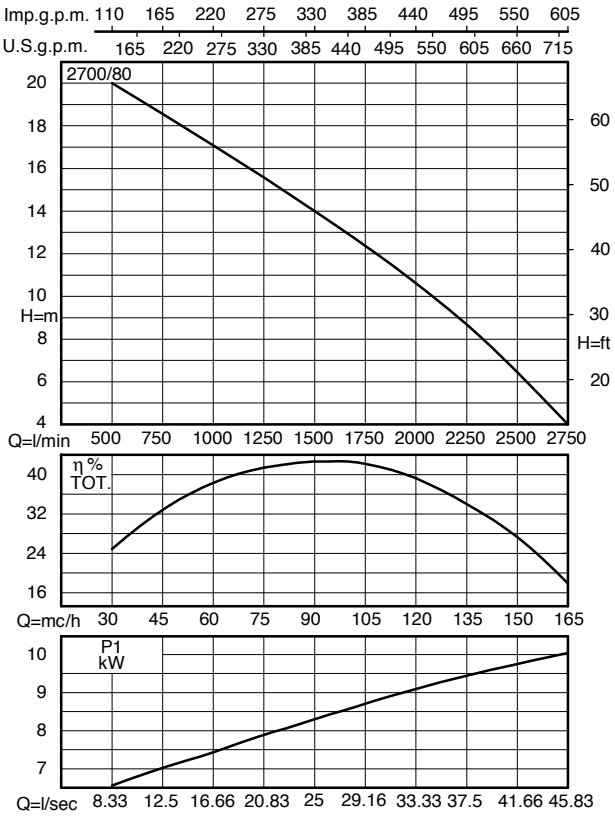
Semisom 1775/80 - 1675/80 - 1375/80



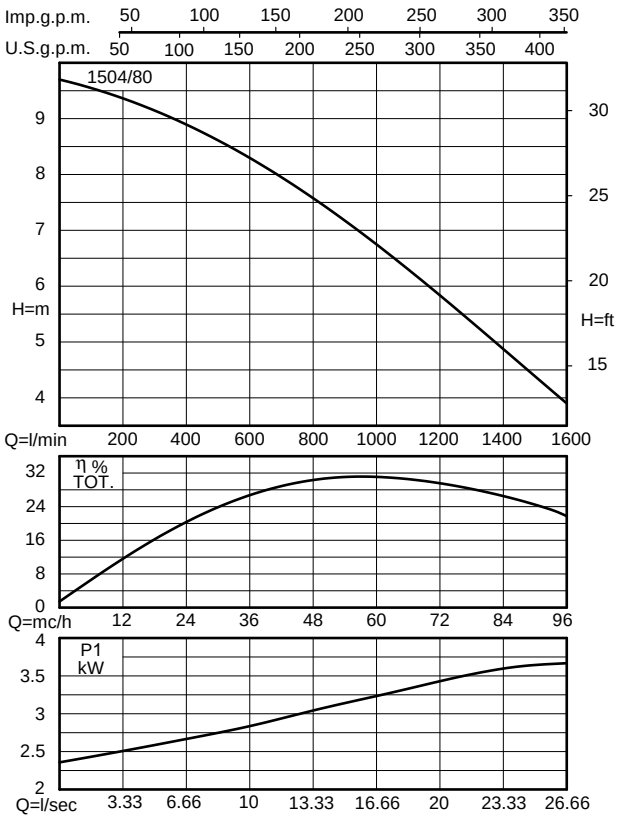
Semisom 2100/80 - 1600/80 - 1200/80



Semisom 2700/80



Semisom 1504/80



CMO

External electric pumps CMO
horizontal multistage

Application
- To pump water from reservoirs or collecting tanks;
- To pressurize civil plants;
- Irrigation;
- To feed boilers.

Application features
- Maximum number of starts per hour **20**;
- Maximum temperature of the water pumped **40 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 55**;
- Insulation class **F**.

Construction
- Asynchronous motor with short circuit rotor;
- External ventilation.

Components

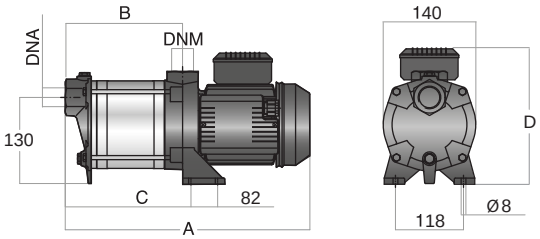
Electric pump	CMO
Suction body and outlet	Mechanical cast iron EN GJL-200
Pump casing, tie rods, bolts and nuts	Stainless steel AISI304
Shaft	Stainless steel AISI420
Impellers	Stainless steel AISI304
Diffusers	Polymer reinforced with fibre-glass
Mechanical seal	Graphite and ceramics

External electric pumps CMO
horizontal multistage

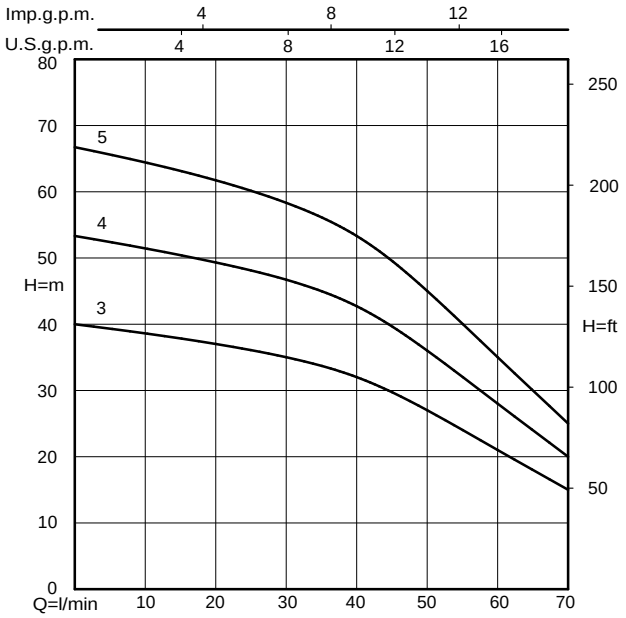
Performance characteristics 2 poles 50 Hz

Single-Phase 230 V 50 Hz		Nominal Characteristics HP	KW	A 1~	450 V µF	DNA DNM	Flow m³/h l/min	0 0	1,2 20	1,8 30	2,4 40	3 50	3,6 60	4,2 70	4,8 80	5,4 90	6 100	6,6 110
							Total manometric head in meters											
Radial Impeller																		
CMO	**3/70**	0,75	0,55	3,44	16	1"¼		40	37	35	32	27	21	15				
CMO	**4/70**	1	0,75	4,78	20	1"¼		54	49	47	43	36	28	20				
CMO	**5/70**	1,25	0,92	6,12	25	1"¼		67	62	58	53	45	35	25				
Radial Impeller																		
CMO	**4/110**	1,25	0,92	6,12	25	1"		41		39	38	37	35	33	30	26	22	17
CMO	**5/110**	1,5	1,1	7,08	25	1"		53		51	49	47	44	41	38	34	30	24

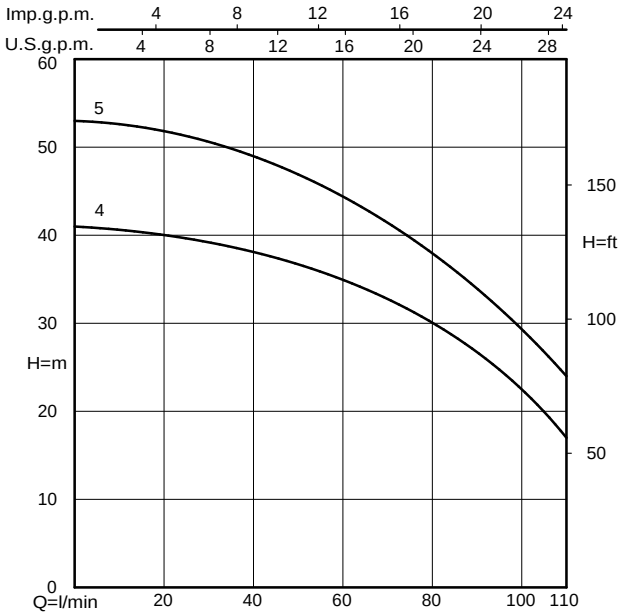
Type		Dimensions mm A	B	C	D	Weight Kg
CMO	**3/70**	398	163	219	186	13,0
CMO	**4/70**	419	184	240	186	14,2
CMO	**5/70**	440	205	261	187	15,2
CMO	**4/110**	458	228	279	186	15,1
CMO	**5/110**	527	276	328	197	17,0



Series /70



Series /110




CMO

CMV - CTV

External electric pumps CMV - CTV
vertical multistage

Application
- To pump water from reservoirs or collecting tanks;
- To pressurize civil, agricultural, industrial and fire-fighting plants;
- Irrigation;
- Feeding boilers;
- To convey water for heating, cooling and conditioning plants.

Application features
- Maximum number of starts per hour **20**;
- Maximum temperature of the water pumped **80 °C**;
- Continuous duty **S1**;
- Degree of protection **IP 54**;
- Insulation class **F**.

Construction
- Asynchronous motor with short circuit rotor;
- External ventilation.

Components

Electric pump	CMV - CTV
Suction body and outlet	Mechanical cast iron EN GJL-200
Pump casing, tie rods and bolts	Stainless steel AISI304
Shaft	Stainless steel AISI420B
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water and AISI304 stainless steel wear rings
Coupling	Mechanical cast iron EN GJL-200
Guide ball bearing	Self-lubricating bronze
Mechanical seal	Graphite and alumina

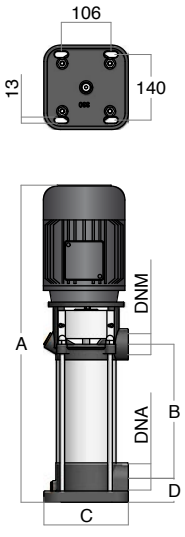
External electric pumps CMV - CTV
vertical multistage

Performance characteristics 2 poles 50 Hz

Single-Phase 230 V 50 Hz		Three-Phase 400 V 50 Hz		Nominal Characteristics				450 V	DNA	Flow m³/h	0	1,8	2,4	3	4,2	6	7,2	8,4	9,6	11,4	12,6	13,8	15,6	18	19,8
				HP	KW	A 1~	A 3~	µF	DNM	l/min	0	30	40	50	70	100	120	140	160	190	210	230	260	300	330
										Total manometric head in meters															
Radial Impeller																									
CMV10	**6/110**	**CTV10**	**6/110**	1	0,75	5,2	1,7	20	1"½		54	50	47	44	37	23	11								
CMV15	**9/110**	**CTV15**	**9/110**	1,5	1,1	7,6	2,4	30	1"½		80	72	69	65	55	33	16								
CMV20	**12/110**	**CTV20**	**12/110**	2	1,5	10,9	3,1	45	1"½		105	95	91	85	71	44	21								
CMV30	**18/110**	**CTV30**	**18/110**	3	2,2	14,5	4,6	60	1"½		160	148	140	131	109	67	31								
Radial Impeller																									
CMV15	**5/230**	**CTV15**	**5/230**	1,5	1,1	7,6	2,4	30	1"½		47			46	44	41	39	36	32	25	20	13			
CMV20	**6/230**	**CTV20**	**6/230**	2	1,5	10,9	3,1	45	1"½		56			55	53	50	46	42	37	29	22	15			
CMV30	**8/230**	**CTV30**	**8/230**	3	2,2	14,5	4,6	60	1"½		75			73	70	65	60	55	49	38	29	20			
		CTV40	**11/230**	4	3		5,9		1"½		103			100	97	91	85	78	70	56	46	33			
		CTV55	**14/230**	5,5	4		7,8		1"½		138			134	130	122	115	104	93	74	59	43			
Radial Impeller																									
CMV30	**5/330**	**CTV30**	**5/330**	3	2,2	14,5	4,6	60	1"½		49					46	45	43	41	38	35	32	27	20	14
		CTV40	**7/330**	4	3		5,9		1"½		68					61	59	57	55	52	49	45	39	29	20
		CTV55	**10/330**	5,5	4		7,8		1"½		102					94	91	88	84	77	72	66	57	42	29
		CTV75	**14/330**	7,5	5,5		10,8		1"½		138					128	124	120	114	103	98	88	75	54	37

Type		Dimensions mm				Weight
		A	B	C	D	Kg
CMV10	**6/110**	662	286	180	51	22,2
CMV15	**9/110**	752	376	180	51	25,8
CMV20	**12/110**	844	466	180	51	28,3
CMV30	**18/110**	1093	646	180	51	35,0
CMV15	**5/230**	662	286	180	51	24,1
CMV20	**6/230**	700	322	180	51	25,8
CMV30	**8/230**	841	394	180	51	31,7
CMV30	**5/330**	733	286	180	51	29,6

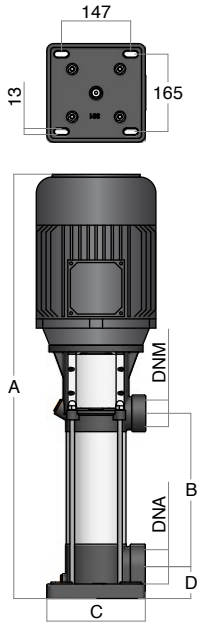
Type		Dimensions mm				Weight
		A	B	C	D	Kg
CTV10	**6/110**	665	286	180	51	24,4
CTV15	**9/110**	755	376	180	51	26,0
CTV20	**12/110**	844	466	180	51	27,5
CTV30	**18/110**	1063	646	180	51	35,7
CTV15	**5/230**	665	286	180	51	24,3
CTV20	**6/230**	700	322	180	51	25,0
CTV30	**8/230**	811	394	180	51	32,4
CTV40	**11/230**	951	502	180	51	40,2
CTV55	**14/230**	1059	610	180	51	42,2
CTV30	**5/330**	703	286	180	51	30,3
CTV40	**7/330**	807	358	180	51	37,5
CTV55	**10/330**	915	466	180	51	39,3
CTV75	**14/330**	1080	610	180	51	53,5



Performance characteristics 2 poles 50 Hz

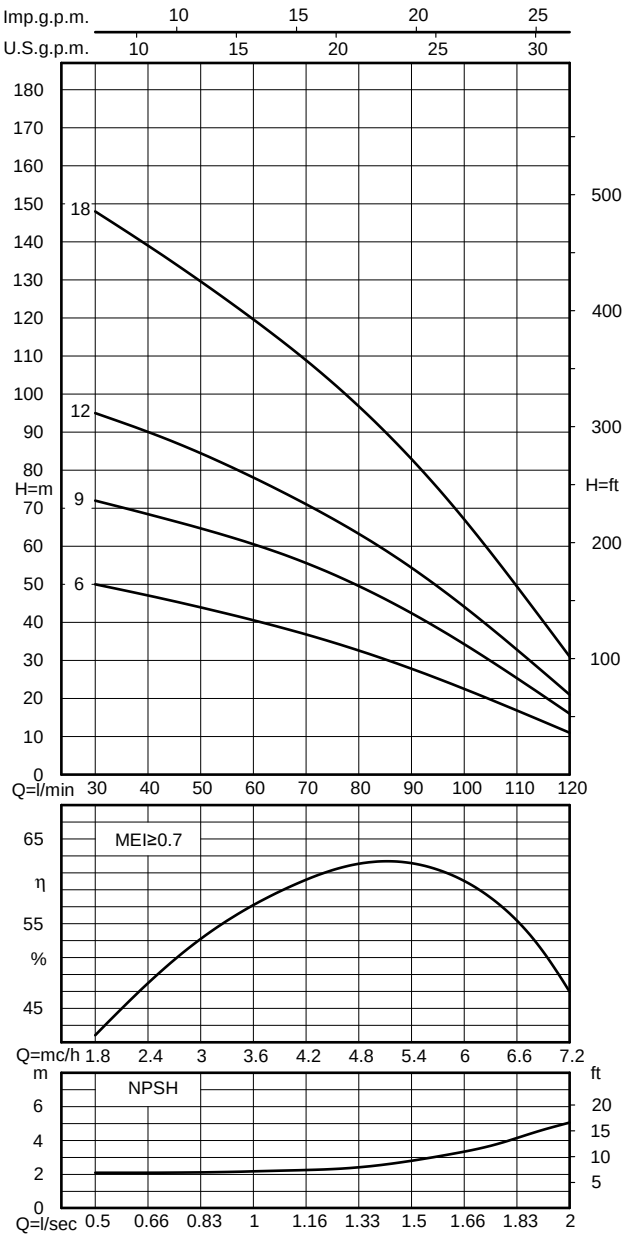
Three-Phase 400 V 50 Hz		Nominal Characteristics					Flow m³/h	0	12	15	16,8	18	19,8	21,6	24	27	30	33	36	39	42
		HP	KW	A	DNA	DNM	l/min	0	200	250	280	300	330	360	400	450	500	550	600	650	700
							Total manometric head in meters														
Radial Impeller																					
CTV40	**4/530**	4	3	5,9	2"½	2"		43	36	35	34	33	32	30	27	22	16	10			
CTV55	**6/530**	5,5	4	7,8	2"½	2"		64	53	52	50	49	48	45	40	33	24	16			
CTV75	**8/530**	7,5	5,5	10,8	2"½	2"		86	70	68	66	65	64	61	53	43	33	21			
CTV100	**11/530**	10	7,5	13,5	2"½	2"		118	97	94	92	90	87	83	73	60	44	29			
CTV125	**14/530**	12,5	9,2	16,9	2"½	2"		150	123	119	116	114	111	106	94	76	56	37			
Semi-Axial impeller																					
CTV55	**3/700**	5,5	4	7,8	2"½	2"		41				35	34	33	31	28	25	22	18	14	9
CTV75	**5/700**	7,5	5,5	10,8	2"½	2"		68				59	57	55	51	46	41	35	28	21	14
CTV100	**6/700**	10	7,5	13,5	2"½	2"		84				68	66	63	59	54	48	42	34	27	17
CTV125	**8/700**	12,5	9,2	16,9	2"½	2"		113				93	91	87	83	76	69	60	50	40	29
CTV150	**10/700**	15	11	19,4	2"½	2"		141				116	114	110	104	96	86	75	62	50	36

Type		Dimensions mm				Weight
		A	B	C	D	Kg
CTV40	**4/530**	848	327	200	68	42,4
CTV55	**6/530**	948	427	200	68	43,9
CTV75	**8/530**	1069	527	200	68	56,7
CTV100	**11/530**	1310	677	200	68	73,9
CTV125	**14/530**	1460	827	200	68	86,2
CTV55	**3/700**	882	361	200	68	43,5
CTV75	**5/700**	1059	517	200	68	57,1
CTV100	**6/700**	1228	595	200	68	73,3
CTV125	**8/700**	1384	751	200	68	85,7
CTV150	**10/700**	1630	907	200	68	105,6

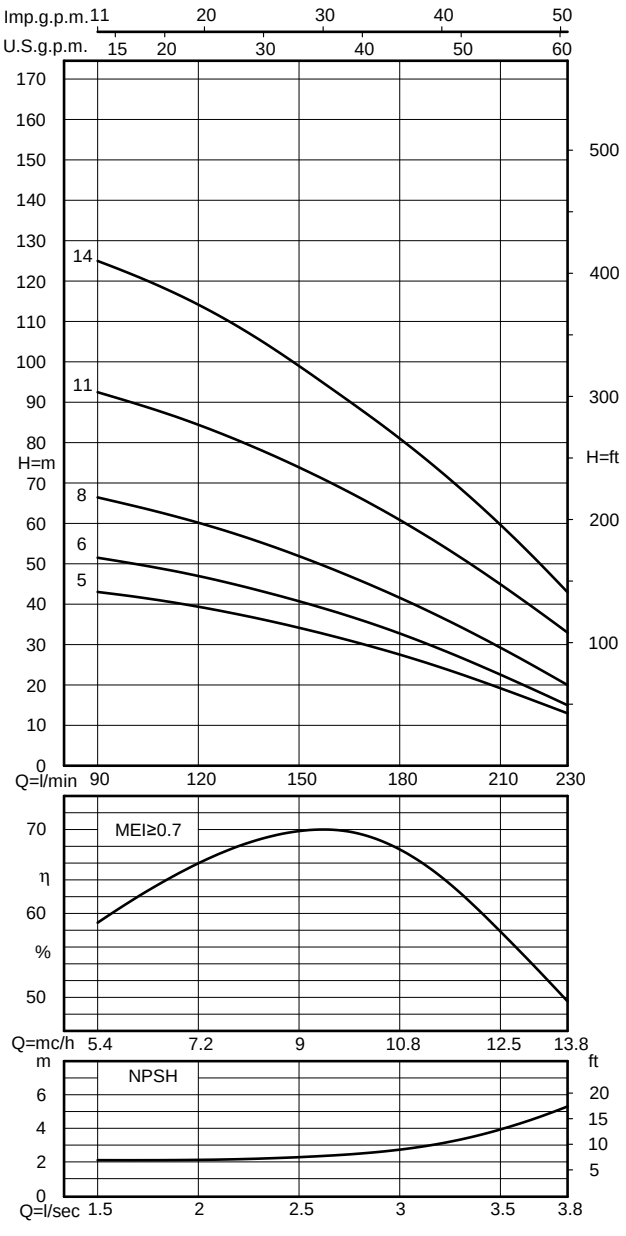


External electric pumps CMV - CTV
vertical multistage

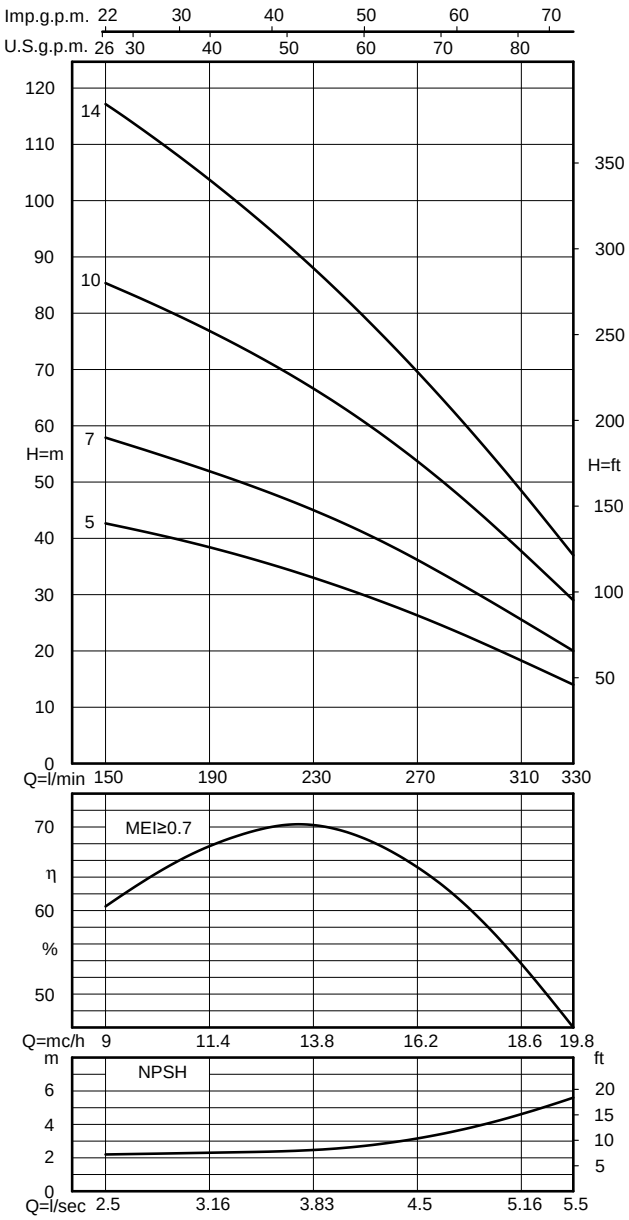
Series /**110**



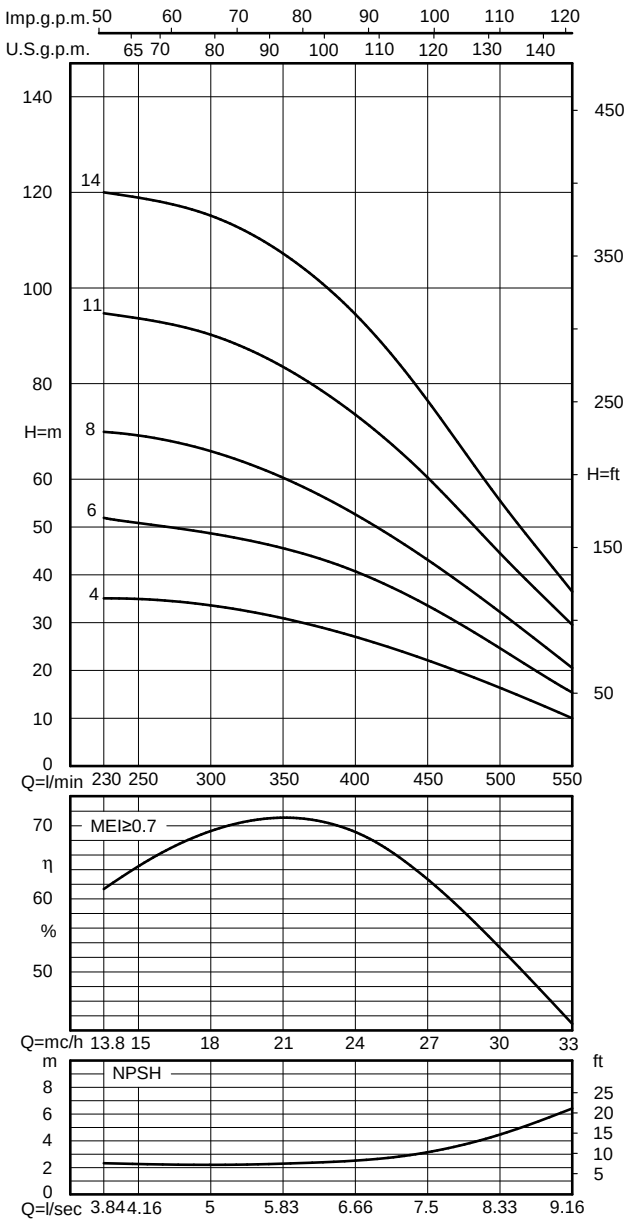
Series /**230**



Series /330

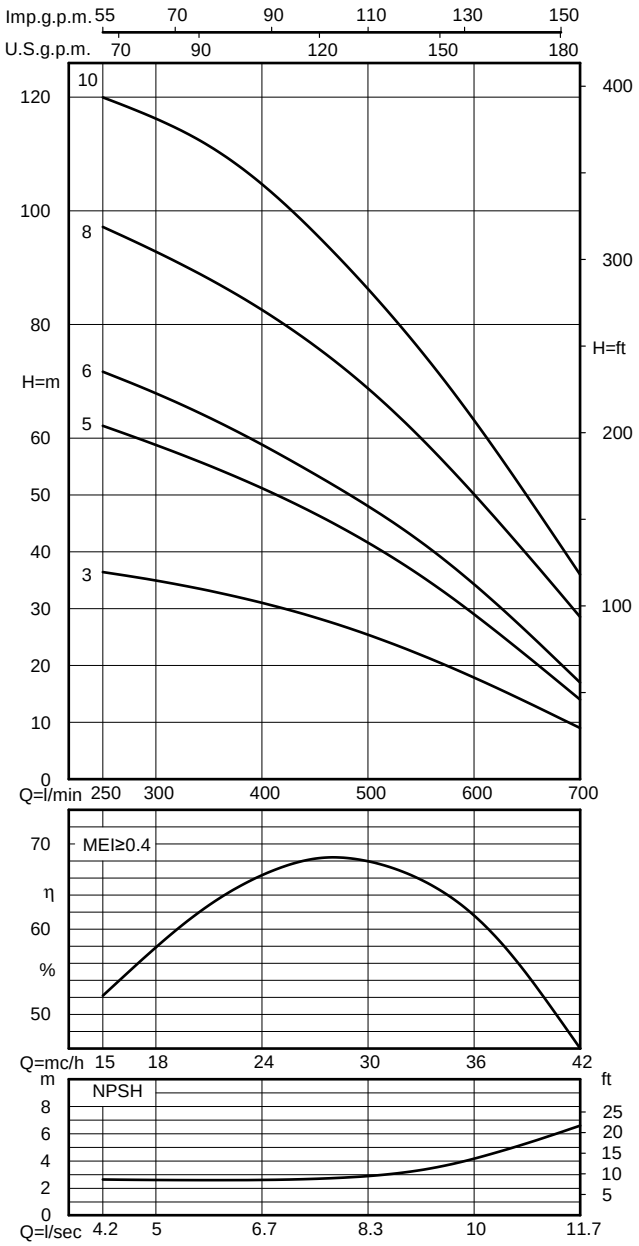


Series /530



External electric pumps CMV - CTV
vertical multistage

Serie /**700**




CMV-CTV
CMV-CTV


Idrosolar

Photovoltaic pumping stations

BBC solar stations allow pumping water with complete autonomy and can be easily installed anywhere there is a good solar radiation. They can meet all various and different needs to pump clean or sewage water.

They are available in several different versions: from the cheapest, for domestic applications, designed with DC motors and directly wired to the solar panels to the most complex ones that assure the maximum efficiency by using inverters and optimized electric motors.
All different solutions can be easily customized and, according to the client's needs, used to store water or the energy to run the pump even without solar radiation.

Applications
- To pump water from reservoirs, collecting tanks and wells;
- To pressurize civil plants;
- Irrigation;
- To pump sewage water.

Characteristics
- Flow up to **2400 l/min**;
- Head up to a **300 m**;
- Power from **0,55 KW to 11 KW**.

Please, contact our office to receive further information on this range of product.

Booster sets and fire-fighting systems

Automatic booster sets G-CMV - G-CTV

Application
- To pressurize civil, agricultural and industrial plants;
- Irrigation.

Flow
from 60 to 1400 l/min
from 3,6 to 84 m³/h
Head
from 7 to 123 m
Power
from 1-1 to 15-15 HP
from 0,75-0,75 to 11-11 KW

Inverter driven automatic booster sets GI-CTV

Applicazioni
- To pressurize civil, agricultural and industrial plants;
- Irrigation.

Flow
from 60 to 1400 l/min
from 3,6 to 84 m³/h
Head
from 7 to 123 m
Power
from 1-1 to 15-15 HP
from 0,75-0,75 to 11-11 KW

Automatic fire-fighting systems with electric submersible pumps EN 12845 - UNI 10779

Application
- To pressurize civil and industrial fire-fighting systems, manufactured according to EN 12845 – UNI 10779 standards.

Flow
from 90 to 6500 l/min
from 5,4 to 390 m³/h
Head
from 5 to 383 m
Power
from 2 to 75 HP
from 1,5 to 55 KW

Automatic fire-fighting systems with electric external pumps EN 12845 - UNI 10779

Application
- To pressurize civil and industrial fire-fighting systems, manufactured according to EN 12845 – UNI 10779 standards.

Flow
from 50 to 10000 l/min
from 3 to 600 m³/h
Head
from 7 to 123 m
Power
from 2 to 75 HP
from 1,5 to 55 KW

Panels

QM IT - Single-Phase direct starters

Characteristics
- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.), 230 Vac.

- Bipolar, luminous thermal protector switch.

- Plastic casing;
- Protection degree **IP 40** on request **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 150x110x70 mm.

Type (1~) 230 V	Approx power HP	KW	A max
QM IT 3	0,35-0,5	0,26-0,37	3
QM IT 5	0,5-0,75	0,37-0,55	5
QM IT 7	0,9-1,1	0,65-0,8	7
QM IT 10	1,3-1,6	0,95-1,2	10
QM IT 12	2	1,5	12
QM IT 18	3	2,2	18

QT MT - Three-phase Electromechanical direct starters

Characteristics
- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.);
- N° 2 facilities for wiring in start-stop devices (float switch, pressure switch, etc.).

- Circuit breaker;
- Run contactor;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Lamp for pump running.

- Plastic casing;
- Protection degree **IP 65**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 250x200x110 mm.

Type (3~) 400 V	Potenza indicativa HP	KW	A min.	A max
QT MT 2,5	0,5-0.9	0,37-0.65	1,6	2,5
QT MT 4	1-1,6	0,75-1,2	2,5	4
QT MT 6	2-3	1,5-2,2	4	6,3
QT MT 10	4	3	6,3	10

QM BT - Single-phase electronic starter with level control

Characteristics
- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.);
- N° 3 facilities for wiring in level probes (2 with timed, automatic reset) that can also be used with one or two float switches.

- Bipolar, luminous thermal protector switch;
- Electronic level control;
- Led light for: run and level cut-out;
- Low-voltage auxiliary circuits.

- Plastic casing;
- Protection degree **IP 40** on request **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 190x140x70 mm.

Type (1~) 230 V	Approx power HP	KW	A max
QM BT 3	0,35-0,5	0,26-0,37	3
QM BT 5	0,5-0,75	0,37-0,55	5
QM BT 7	0,9-1,1	0,65-0,8	7
QM BT 10	1,3-1,6	0,95-1,2	10
QM BT 12	2	1,5	12

QT CL - Three-phase electromechanical direct starters with level control

Characteristics

- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.);
- N° 3 facilities for wiring in level probes that can also be used with one or two float switches.

Type (3~) 400 V	Approx power HP	KW	A min.	A max
QT 2,5 CL	0,5-0.9	0,37-0.65	1,6	2,5
QT 4 CL	1-1,6	0,75-1,2	2,5	4
QT 6 CL	2-3	1,5-2,2	4	6,3
QT 10 CL	4	3	6,3	10

- Circuit breaker;
- Run contactor;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Electronic level control;
- Led lights for: power and run.

- Plastic casing;
- Protection degree **IP 65**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 250x200x110 mm.

AM - AT - Direct-on-line starters for single and three-phase electric pumps

Characteristics

- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.);
- N° 3 facilities for wiring in level probes (2 with timed, automatic reset) that can also be used with 1 or 2 float switches.

Type (1~) 230 V	Approx power HP	KW	A min.	A max
AM 20 CL	2	1,5	9	13
AM 30 CL	3	2,2	12	18

Type (3~) 400 V	Approx power HP	KW	A min.	A max
AT 55 CL	5,5	4	9	13
AT 75 CL	7,5	5,5	12	18
AT 125 CL	10-12,5	7,5-9,2	17	25
AT 150 CL	15	11	22	32

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Run contactor;
- Thermal relay for motor protection;
- Set of fuses for motor protection;
- Electronic level control by means of a microprocessor;
- HAND-OFF-AUTO selector switch;
- Led lights for: power, motor running, thermal cut-out and level cut-out.

- Plastic casing;
- Protection degree **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 220x300x120 mm.

Panels

ATRS - Three-phase Soft Starters

Characteristics
- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.);
- N° 2 facilities for wiring in start - stop float switches;
- N° 3 facilities for wiring in level probes.

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Set of fuses for motor protection;
- HAND-OFF-AUTO selector switch;
- Lamps for: power, run, thermal cut-out and level cut-out.

- Steel-sheet panel;
- Protection degree **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions:
  ATRS 10 300x400x200 mm;
  from ATRS 20 to ATRS 35 400x600x250 mm;
  from ATRS 40 to ATRS 60 500x700x250 mm;
  ATRS 75 600x800x300 mm.

Accessories
- Level control.

Type (3~) 400 V	Approx power HP	KW	A min.	A max
ATRS 10	5,5-10	4-7,5	9	18
ATRS 20	12,5-20	9,2-15	17	34
ATRS 25	25	18,5	21	42
ATRS 30	30	22	24	48
ATRS 35	35	26	30	60
ATRS 40	40	30	37,5	75
ATRS 50	50	37	42,5	85
ATRS 60	60	45	50	100
ATRS 75	75	55	70	140

ATI - Three-phase Inverter starters

Characteristics

- N° 2 facilities for wiring in a run device (float switch, pressure switch, etc.);
- N° 2 facilities for wiring in start – stop float switches;
- N° 1 facility for wiring in a pressure trasducer 4÷20 mA 0÷10 bar.

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Inverter with display, keyboard for setting and internal fan;
- Set of fuses to protect the inverter;
- HAND-OFF-AUTO selector switches;
  In HAND: using constant frequency (50 Hz) via pressure switch, float switch, etc;
  In AUTO: using variable frequency (30÷50 Hz) via a transducer 4÷20 mA 0÷10 bar.
- Lamps for:
  power - run - alarm - level cut-out.

- Steel-sheet casing;
- Protection degree **IP 40**;
- Ambient temperature **-5/+40 °C**;
- Dimensions:
  ATI 230 10, ATI 230 20, ATI 400 10, ATI 400 20, ATI 400 30
  300x400x200 mm;
  ATI 230 30, from ATI 400 40 to ATI 400 100
  400x600x250 mm.

Accessories

- Pressure trasducer.

Type	Approx power		A max
	HP	KW	
Single-Phase line 230 V - Three-Phase motor 230 V			
ATI 230 10	1	0,75	4,2
ATI 230 20	1-2	0,75-1,5	6,8
ATI 230 30	2-3	1,5-2,2	9,6

Type	Approx power		A max
	HP	KW	
Three-Phase line 400 V - Three-Phase motor 400 V			
ATI 400 10	1	0,75	2,2
ATI 400 20	1-2	0,75-1,5	3,7
ATI 400 30	2-3	1,5-2,2	5,3
ATI 400 40	3-4	2,2	7,2
ATI 400 55	4-5,5	3-4	9
ATI 400 75	5,5-7,5	4-5,5	12
ATI 400 100	7,5-10	5,5-7,5	15,5

P2 BPA2 - Direct on line electromechanical starters for 2 single-phase electric pumps

Characteristics

- N° 3 facilities for wiring in a start - stop alternate-duty-assist float switch, pressure switch, etc.;
- N° 1 facility for wiring in an alarm device;
- N° 1 Volt-free facility for alarm device.

Type (1~) 230 V	Approx power HP	KW	A min.	A max
P2 BPA2 4	0,5	0,37	2,5	4
P2 BPA2 6	0,75-1	0,55-0,75	4	6,3
P2 BPA2 10	1,5	1,1	7	10
P2 BPA2 13	2	1,5	9	13

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Run contactors;
- Thermal relays for motor protection (in case of intervention, immediate switch to the standby pump);
- Set of fuses to protect the motors;
- Electronic circuit with microprocessor to control the alternate or contemporaneous run of the electric pumps;
- HAND-OFF-AUTO selector switches;
- Led lights for: power, run P1 and P2 - thermal cut-out P1 and P2.

- Plastic casing;
- Protection degree **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 300x380x120 mm.

Accessories

- Power failure alarm.

P2 BPTA2 - Direct on line electromechanical starters for 2 three-phase electric pumps

Characteristics

- N° 3 facilities for wiring in a start - stop alternate-duty-assist float switch, pressure switch, etc.;
- N° 1 facility for wiring in an alarm device;
- N° 1 Volt-free facility for alarm device.

Type (3~) 400 V	Approx power HP	KW	A min.	A max
P2 BPTA2 2	0,5	0,37	1,2	1,9
P2 BPTA2 2,5	0,75	0,55	1,6	2,5
P2 BPTA2 4	1-1,5	0,75-1,1	2,5	4
P2 BPTA2 6	2-3	1,5-2,2	4	6,3
P2 BPTA2 10	4,5	3,4	7	10

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Run contactors;
- Thermal relays for motor protection (in case of intervention, immediate switch to the standby pump);
- Set of fuses to protect the motors;
- Electronic circuit with microprocessor to control the alternate or contemporaneous run of the electric pumps;
- HAND-OFF-AUTO selector switches;
- Led lights for: power, run P1 and P2 - thermal cut-out P1 and P2.

- Plastic casing;
- Protection degree **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 300x380x120 mm.

Accessories

- Power failure alarm.

ATS - Direct on line electromechanical three-phase starters for electric pumps Semisom/80

Characteristics

- N° 1 facility for wiring in the humidity probe of the first chamber;
- N° 1 facility for motor overheating;
- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc);
- N° 2 facilities for wiring in start - stop float switches;
- N° 1 facility for maximum level alarm device;
- N° 1 facility for 24 V AC alarm device.

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Run contactors;
- Thermal relay for motor protection;
- Relay to control motor overheating;
- Set of fuses to protect the motors;
- Electronic control in case of humidity in the first chamber;
- HAND-OFF-AUTO selector switch;
- Lamps for: power - run - thermal cut-out - cut-out for motor overheating - cut-out for humidity in the first chamber - maximum level alarm.

- Steel-sheet casing;
- Protection degree **IP 55**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 300x400x150 mm.

Type (3~) 400 V	Approx power HP	KW	A min.	A max
ATS 55	3,5-5,5	2,6-4	7	10
ATS 100	7,5-10	5,5-7,5	12	18
ATS 110	11	8	17	25

AT2S - Direct on line electromechanical three-phase starters for 2 electric pumps Semisom/80

Characteristics

- N° 2 facilities for wiring in the humidity probe of the first chamber;
- N° 2 facilities for motor overheating;
- N° 3 facilities for wiring in a start - stop alternate-duty-assist float switch, pressure switch, etc.;
- N° 1 facility for maximum level alarm device;
- N° 1 facility for Volt-free alarm device.

Type (3~) 400 V	Approx power HP	KW	A min.	A max
AT2S 55	3,5-5,5	2,6-4	7	10
AT2S 100	7,5-10	5,5-7,5	12	18
AT2S 110	11	8	17	25

- Opening interlocked;
- Low-voltage auxiliary circuits (24 V) with fuses;
- Run contactors;
- Thermal relays to protect the motors;
- Relays to control overheating of the motors;
- Electronic controls in case of humidity in the first chambers;
- Electronic circuit to control the alternate or contemporaneous run of the electric pumps;
- Set of fuses for motor protection;
- HAND-OFF-AUTO selector switches;
- Lamps for:
  power - pump 1 - pump 2 - run - thermal cut-out - cut-out for motor overheating - cut-out for humidity in the first chamber.

- Steel-sheet casing;
- Protection degree **IP 55**;
- Ambient temperature **-5/+40 °C**.
- Dimensions: 400x600x200 mm.

Accessories

- Power failure alarm.

QA 12 - Power failure alarm

Characteristics

- N° 1 facility for Volt-free alarm device.

- ON - OFF - TEST selector switch;
- 102 db/1m acoustic alarm;
- Led visual alarm;
- 230 V battery charger with
  6 V nickel cadmium battery;
- 12-hour-life battery .

- Plastic casing;
- Protection degree **IP 40**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 190x140x70 mm.

QDC - DC electromechanical direct starter

Characteristics

- N° 1 facility for wiring in a pump controller (float switch, pressure switch, etc.);

- HAND-OFF-AUTO selector switches;
- Unipolar thermal protector switch;
- Power relay;
- Lamp for pump running.

- Plastic casing;
- Protection degree **IP 40**;
- Ambient temperature **-5/+40 °C**;
- Dimensions: 190x140x70 mm.

Type (DC) 24 V	Approx power HP	KW	A max
QDC	0,5-0,75	0,37-0,55	30

Pressure loss

Pressure loss in linear pipes every 100 meters

			Inside diameter of the pipe														
	Flow		gas	3/4"	1"	1" 1/4	1" 5/8	2"	2" 1/2	3" 1/8	4"	5"	6"	7"	8"	10"	12"	16"
l/sec	l/min	m³/h	mm	20	25	32	40	50	65	80	100	125	150	175	200	250	300	400
			Pressure loss in meters of column of water															
0,16	**10**	**0,6**		2,6	1	0,28	0,09											
0,25	**15**	**0,9**		6,5	2,15	0,6	0,18											
0,33	**20**	**1,2**		10	3,5	1	0,3	0,11										
0,41	**25**	**1,5**		15	5,5	1,6	0,5	0,16										
0,5	**30**	**1,8**		22	8	2,2	0,65	0,23										
0,66	**40**	**2,4**		40	13	4	1,2	0,4	0,1									
0,83	**50**	**3**		60	21	6	1,8	0,6	0,16									
1	**60**	**3,6**		75	28	8	2,4	0,85	0,22									
1,16	**70**	**4,2**			40	11,5	3,2	1,15	0,3	0,11								
1,33	**80**	**4,8**			54	14,5	4,5	1,5	0,4	0,14								
1,5	**90**	**5,4**			65	18	5,3	1,8	0,48	0,16								
1,66	**100**	**6**			77	22	6,5	2,2	0,52	0,2								
2	**120**	**7,2**				30	9	3	0,8	0,3								
2,33	**140**	**8,4**				42	12	4,2	1,1	0,38	0,13							
2,66	**160**	**9,6**				53	16	5,3	1,4	0,5	0,17							
3	**180**	**10,8**				65	20	6,5	1,7	0,6	0,21							
3,33	**200**	**12**				78	24	8	2,1	0,72	0,26							
3,66	**220**	**13,2**				90	26,5	9	2,4	0,84	0,3	0,1						
4	**240**	**14,4**					33	11,3	3	1,1	0,37	0,12						
4,33	**260**	**15,6**					40	13,5	3,5	1,22	0,43	0,14						
4,66	**280**	**16,8**					45	15	4	1,4	0,48	0,16						
5	**300**	**18**					51	17	4,5	1,6	0,51	0,18						
5,83	**350**	**21**					68	24	6	2,1	0,75	0,24						
6,66	**400**	**24**					87	29	7,8	2,65	0,95	0,31	0,12					
7,5	**450**	**27**						38	9,6	3,3	1,18	0,38	0,15					
8,33	**500**	**30**						45	11,8	4,2	1,4	0,47	0,18					
9,16	**550**	**33**						55	14	5	1,7	0,51	0,21	0,1				
10	**600**	**36**						64	16,5	5,5	2	0,65	0,25	0,12				
11,6	**700**	**42**						87	23	8	2,8	0,9	0,32	0,16				
13,3	**800**	**48**							30	10,5	3,5	1,18	0,44	0,21	0,11			
16,6	**1000**	**60**							44	15	5,3	1,8	0,65	0,31	0,16			
20	**1200**	**72**							62	22	7,5	2,5	0,95	0,45	0,22			
23,3	**1400**	**84**							81	28,5	10	3,25	1,25	0,6	0,3	0,1		
26,6	**1600**	**96**								37,5	13	4,3	1,6	0,78	0,38	0,13		
30	**1800**	**108**								46	16	5,3	2	0,95	0,47	0,16		
33,3	**2000**	**120**								56,5	19,5	6,5	2,4	1,15	0,58	0,19		
36,6	**2200**	**132**								65	23	7,7	2,9	1,38	0,7	0,23		
40	**2400**	**144**								75	27	9	3,3	1,6	0,81	0,27	0,11	
43,3	**2600**	**156**									32	10,7	4	1,9	0,98	0,32	0,13	
46,6	**2800**	**168**									37	12	4,5	2,2	1,1	0,37	0,15	
50	**3000**	**180**									42	14	5,25	2,45	1,22	0,42	0,17	
58,3	**3500**	**210**									56	18	6,8	3,25	1,65	0,55	0,22	
66,6	**4000**	**240**									73	24	8,8	4,25	2,15	0,7	0,29	
75	**4500**	**270**										30	11	5,4	2,7	0,9	0,37	
83,3	**5000**	**300**										37	14	6,6	3,3	1,1	0,45	0,11

Notes

Pressure loss should be multiplied by:

- **0,65** for **PVC** pipes;
- **0,8** for **new steel** pipes;
- **1,25** for **slightly rusty steel** pipes;
- **1,7** for **encrusted** pipes.

Selection of cables

Single-Phase 230 V 50 Hz

Nominal Characteristics		Cable section mm²									
HP	KW	4x1	4x1,5	4x2,5	4x4	4x6	4x10	4x16	4x25	4x35	4x50
		Maximum cable length in meters									
0,5	**0,37**	60	90	140	230	340					
0,75	**0,55**	40	70	110	190	280	470				
1	**0,75**	35	55	85	135	200	335	525			
1,2	**0,9**	30	50	80	120	180	300	470			
1,5	**1,1**	25	40	60	100	150	250	395			
2	**1,5**		35	50	80	120	190	300	470		
3	**2,2**			30	50	70	120	190	300	405	

Three-Phase 400 V 50 Hz

Nominal Characteristics		Cable section mm²									
HP	KW	4x1	4x1,5	4x2,5	4x4	4x6	4x10	4x16	4x25	4x35	4x50
		Maximum cable length in meters									
0,5	**0,37**	220	340	550							
0,75	**0,55**	200	300	480	770						
1	**0,75**	150	230	370	600						
1,2	**0,9**	130	210	330	530						
1,5	**1,1**	100	180	290	470						
2	**1,5**	80	140	220	360	540					
3	**2,2**	60	100	160	260	390	650				
4	**3**	45	75	120	200	300	500				
5,5	**4**		55	90	150	220	370	590			
7,5	**5,5**		40	70	115	170	285	450			
10	**7,5**			60	90	140	230	360	560		
12,5	**9,2**				75	115	190	300	470		
15	**11**				60	90	155	245	380	520	
20	**15**					60	110	170	260	360	480
25	**18**						90	140	220	300	395
30	**22**						75	120	185	250	320
35	**26**							105	160	215	285
40	**30**							90	145	200	260
50	**37**								110	155	200
60	**45**									130	170
75	**55**										140

Notes

Voltage drop:

- **3 %**

Max ambient temperature:

- **30 °C**

Art Direction
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The technical features, dimensions and all other data in this catalogue are not binding.

The manufacturer reserves the right to make any necessary modifications without prior notice.

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