

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 work horizontally:
Pump ends up to 23/60 - 18/100 - 17/180 - 12/250 - 19/420 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 $\geq 0,70$).

Components

Pump end	Idrosom	/420
Head and suction body	Stainless steel AISI304	Brass OT58
Casing, bolts and nuts	Stainless steel AISI304	Stainless steel AISI304
Shaft	Stainless steel AISI304	Stainless steel AISI304
Coupling	Stainless steel AISI316	Stainless steel AISI316
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water	Non-toxic polycarbonate
Bearing head	Desmopan® with rotating element in stainless steel AISI316	Polyurethane with rotating element in stainless steel
Check valve		Resin
Motor	4M - 4T	
Casing	Stainless steel AISI304	
Shaft terminal	Stainless steel AISI303	
Upper casing	Brass OT58	
Mechanical seal	Graphite and alumina	
Elastomers	NBR rubber	

Performance characteristics 2 poles 50 Hz

Pump Type	Motor Type *	Nominal Characteristics		450 V Cable		Flow																										
						Total manometric head in meters																										
						HP	KW	A 1~	A 3~	μF	m	DNM	m³/h	0	4,5	6	7,2	8,4	9,6	10,8	12	13,5	15									
																			0	75	100	120	140	160	180	200	225	250				
																			0	75	100	120	140	160	180	200	225	250				
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 230 V 50 Hz

T : Three-Phase 400 V 50 Hz

Performance characteristics 2 poles 50 Hz

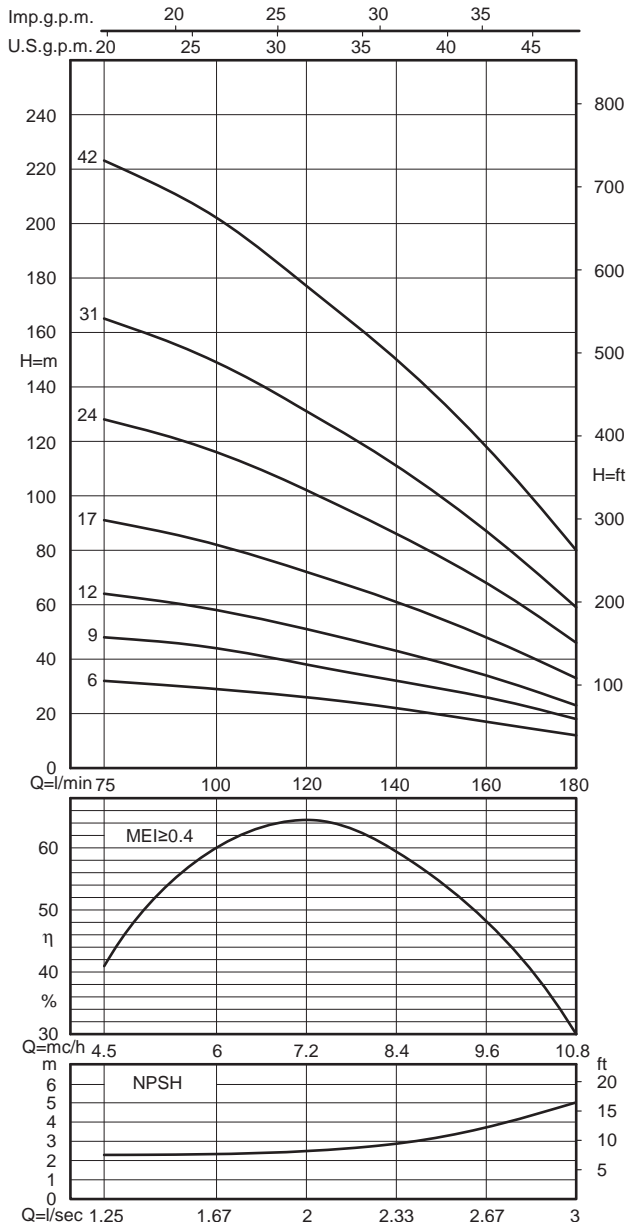
Single-Phase 230 V 50 Hz	Three-Phase 400 V 50 Hz	Nominal Characteristics		450 V Cable		Flow																										
						Total manometric head in meters																										
						HP	KW	A 1~	A 3~	μF	m	DNM	m³/h	0	6	9	10,5	12	15	18	21	24										
																			0	100	150	175	200	250	300	350	400					
																			0	100	150	175	200	250	300	350	400					
Semi-Axial impeller																																
4M20	7/420	4T20	7/420	2	1,5	11	4,2	40	2	2"	40	34	30	28	25	20	15	9	2													
4M30	10/420	4T30	10/420	3	2,2	15,9	5,7	60	2	2"	57	49	44	40	36	29	21	13	3													
		4T40	14/420	4	3	8	2	2"	79	68	61	56	51	41	29	16	4															
		4T55	17/420	5,5	4	10	2	2"	96	83	74	68	62	49	35	21	5															
		4T55	19/420	5,5	4	10	2	2"	108	93	83	76	69	55	40	24	6															
		4T75	26/420	7,5	5,5	12,5	4	2"	147	127	113	104	93	74	54	33	8															
		4T100	34/420	10	7,5	16,7	4	2"	192	164	146	135	123	98	71	43	10															

Type	Dimensions mm			Weight Kg
	A	B	C	
Idrosom 6/180 M	817	376	95	13,0
Idrosom 9/180 M	951	406	95	15,1
Idrosom 12/180 M	1104	456	95	18,2
Idrosom 17/180 M	1476	612	95	26,2
Idrosom 6/180 T	787	346	95	11,7
Idrosom 9/180 T	921	376	95	13,7
Idrosom 12/180 T	1054	406	95	15,9
Idrosom 17/180 T	1320	456	95	19,4
Idrosom 24/180 T	1658	552	95	24,9
Idrosom 31/180 T	2003	612	95	30,9
Idrosom 42/180 T	2473	702	95	37,7

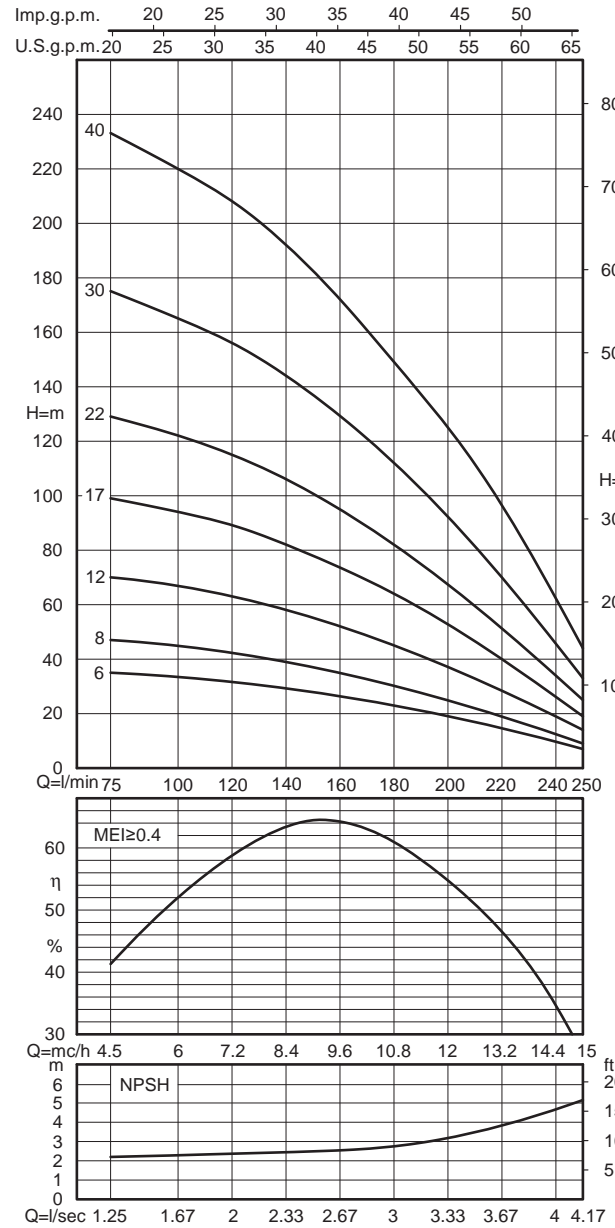
Type	Dimensions mm			Weight Kg
	A	B	C	
Idrosom 6/250 M	876	406	95	14,7
Idrosom 8/250 M	1005	456	95	18,1
Idrosom 12/250 M	1319	612	95	25,6
Idrosom 6/250 T	846	376	95	13,3
Idrosom 8/250 T	955	406	95	15,3
Idrosom 12/250 T	1163	456	95	18,8
Idrosom 17/250 T	1500	552	95	23,1
Idrosom 22/250 T	1757	612	95	30,2
Idrosom 30/250 T	2205	702	95	37,7
Idrosom 40/250 T	2680	782	95	44,9

Type	Dimensions mm			Weight Kg
	A	B	C	
4M20 7/420	1276	456	96	20,3
4M30 10/420	1667	612	96	28,7
4T20 7/420	1226	406	96	18,0
4T30 10/420	1511	456	96	21,9
4T40 14/420	1987	552	96	29,4
4T55 17/420	2277	612	96	34,1
4T55 19/420	2437	612	96	35,4
4T75 26/420	3137	702	96	44,3
4T100 34/420	3912	782	96	52,8

Series /180



Series /250



Electric submersible pumps for 4" wells

Series /420

