

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**;
- Degrees of protection **IP 68**;
- Insulation class **F**;
- Suitable to work horizontally:
Pump ends up to 23/60 - 18/100 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.



Components

Pump end	/60	/100
Head and suction body	Stainless steel AISI304	Stainless steel AISI304
Casing, bolts and nuts	Stainless steel AISI304	Stainless steel AISI304
Shaft	Stainless steel AISI304L	Stainless steel AISI304L
Coupling	Stainless steel AISI316L	Stainless steel AISI316L
Impellers and diffusers	Noryl® reinforced with fibre-glass, certified for drinkable water GFN 1520V	Noryl® reinforced with fibre-glass, certified for drinkable water GFN 1520V
Top bearing	Desmopan® with rotating element in stainless steel AISI316L	Desmopan® with rotating element in stainless steel AISI316L
Motor	Series S	Series E
Casing	Stainless steel AISI304	Stainless steel AISI304
Shaft terminal	Stainless steel AISI303	Stainless steel AISI303
Upper casing	Brass OT58	Nickel-plated cast iron protected with stainless steel AISI304 cover
Mechanical seal	Graphite and alumina	Graphite and alumina
Elastomers	NBR rubber	NBR rubber

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The technical features, dimension and all other data in this catalogue are not binding. The manufacturer reserves the right to make any necessary modifications without advance notice.

Performances according to
UNI EN ISO 9906 livello 2



Electric submersible pumps IDROSOM with S series motors for 4" wells



Performance characteristics 2 poles 50 Hz

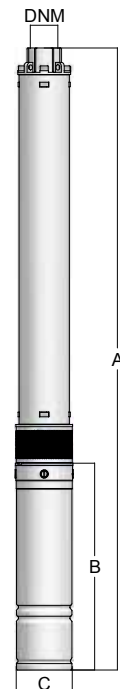
Pump Type	Motor Type *	Nominal Characteristics						450 V Cable		DNM	Flow										
		HP	KW	A 1~	A 3~	µF	m	m ³ /h	l/min		0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6
Total manometric head in meters																					
Radial Impeller																					
IDROSOM	8/60	M / T	0,5	0,37	3,6	1,8	20	2	1"½	49	48	45	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	7,6			2	1"½	226	220	215	208	197	182	163	137	106	71		
IDROSOM	48/100	T	5,5	4	10			3	1"½	302	295	288	277	261	242	216	182	144	96		

* M : Single-Phase 230 V 50 Hz

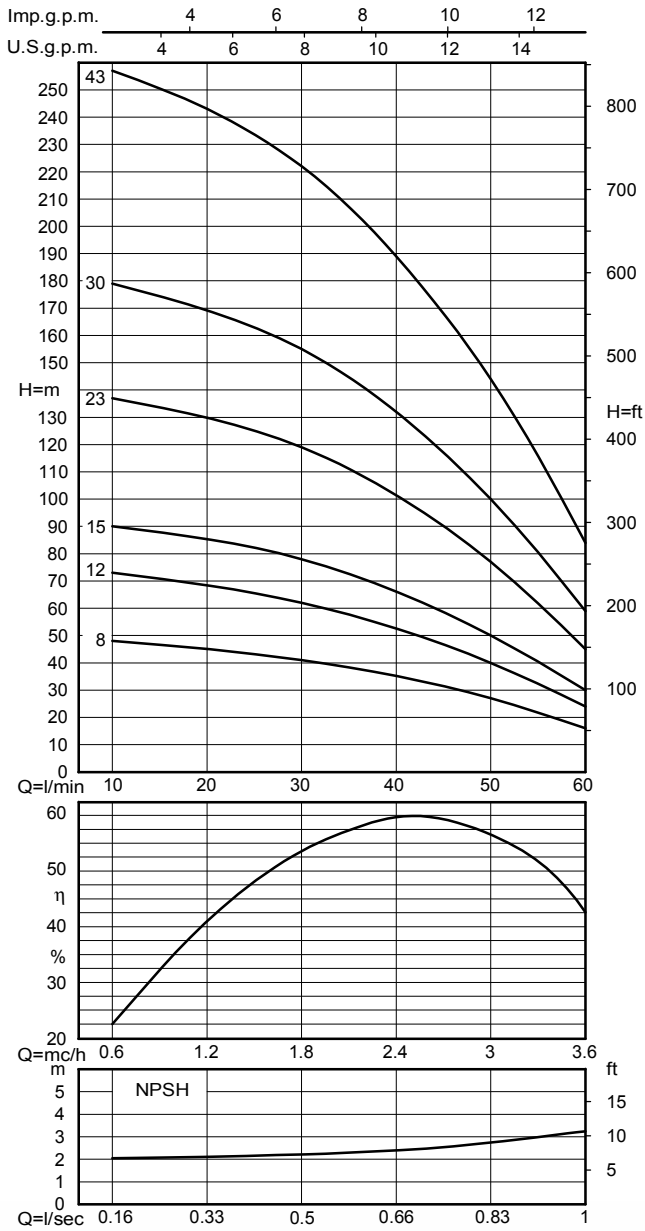
T : Three-Phase 400 V 50 Hz

Type	Dimensions mm			Weight Kg
	A	B	C	
Idrosom 8/60 M	746	346	95	11,9
Idrosom 12/60 M	837	346	95	12,5
Idrosom 15/60 M	935	376	95	14,3
Idrosom 23/60 M	1145	406	95	16,7
Idrosom 30/60 M	1396	456	95	20,5
Idrosom 43/60 M	1888	612	95	29,5
Idrosom 8/60 T	746	346	95	12,0
Idrosom 12/60 T	837	346	95	12,6
Idrosom 15/60 T	905	346	95	13,0
Idrosom 23/60 T	1115	376	95	15,4
Idrosom 30/60 T	1346	406	95	18,2
Idrosom 43/60 T	1782	506	95	24,3

Type	Dimensions mm			Weight Kg
	A	B	C	
Idrosom 7/100 M	748	346	95	11,8
Idrosom 9/100 M	830	376	95	13,5
Idrosom 14/100 M	990	406	95	15,6
Idrosom 18/100 M	1144	456	95	18,4
Idrosom 27/100 M	1576	612	95	27,2
Idrosom 7/100 T	748	346	95	11,9
Idrosom 9/100 T	800	346	95	12,2
Idrosom 14/100 T	960	376	95	14,2
Idrosom 18/100 T	1094	406	95	16,2
Idrosom 27/100 T	1420	456	95	20,4
Idrosom 36/100 T	1750	552	95	26,6
Idrosom 48/100 T	2192	612	95	31,9



Idrosom /60



Idrosom /100

