

L.Nemitsas Ltd - Head Office

P.O.Box 54436

3724 Limassol, Cyprus

Tel: +357 25569225 & 25569226

Fax: +357 25 396955

L.Nemitsas Ltd - Nicosia Branch

F.Tsigaridi 19 Str.

2235, Latsia - Nicosia

Tel: +357-22467366

Fax: +357-22467372



E-mail: info@nemitsas.eu

URL: www.nemitsas.eu



SUBMERSIBLE ELECTROPUMPS 50 HZ

WATER SYSTEMS





SUBMERSIBLE BOREHOLE PUMP

EN6-A, EN6-B,
EN6-C, EN8-A,
EN8-B, EN8-C.
Series

6" & 8" Submersible
Electric Pumps

50 Hz





6'' & 8''

Submersible Electric Pumps

MARKET SECTORS
CIVIL, AGRICULTURAL, INDUSTRIAL.

APPLICATIONS

- EN6-A, EN6-B,
 - EN6-C.
 - EN8-A, EN8-B,
 - EN8-C.
- Water supply from deep wells.
 - Pressure boosting and water distribution in civil and industrial systems.
 - Supply of surge tanks and reservoirs.
 - Firefighting and washing systems.
 - Water table level control.
 - Irrigation.
 - Mines.
 - Golf courses.

Series

SPECIFICATIONS

- Delivery up to **120 m³/h.**
- Head up to **360 m.**
- Maximum pump overall diameter (cable cover included): **195 mm.**
- Maximum immersion depth: **350 m.**
- Maximum permissible quantity of suspended sand: **50 g/m³.**
- Rated motor power from **4.0 to 75.0 kW.**
- Versions:
 - **Three-phase** 380-415 V, 50 Hz, from 4.0 to 75.0 kW.- Overload protection to be provided by user and installed in the control box
 - Maximum supply voltage variations: **+6%/-10%**



- Maximum **temperature** of water in contact with the motor: **55°C.**

CONSTRUCTION CHARACTERISTICS PUMP

- Abrasion resistant construction. The front wear plate, combined with the floating impellers, ensures optimum resistance to abrasion.
- The non-return valve is integrated in the head so as to discharge the weight of the column of water and any water hammer onto the head itself, thus safeguarding impellers and diffusers.
- The upper and lower supports are made of precision-cast iron GG22, Bronze LG2 casted impellers ensuring resistance to corrosion, durability and a sturdy coupling to the motor.

OPTIONAL FEATURES PUMP

Water temperature range **-5° to 55°C.**
Motor adaptor in compliance with NEMA standard.
Pump can work continuously in a vertical or horizontal position.

NEMITSAS SUBMERSIBLE PUMPS MODEL EN6



Co. Reg. No.: 1094

Design/Constructional Details

Single or multistage centrifugal pump with one or more impellers of mixed flow type connected to special submersible motor designed to work under water through an inlet bowl protected by a strainer. A splined coupling connects the pump and the motor for easy assembly. The pump is equipped with a non return valve on the outlet. Designed for installation in boreholes of min. 6”.

Material Specifications

Component	Material
Bowls	Cast Iron /bronze/stainless steel
Impellers	Cast Iron /bronze/stainless steel
Shaft	Stainless Steel
Bearings	Rubber
Wear Rings	Bronze
Strainer	Stainless Steel
Valve	Cast Iron/bronze/stainless steel



Fields of Application

Agricultural Irrigation	Dewatering
Domestic and general water supply	Pressure booster applications
Fire fighting/emergency water supply	Industrial applications
Fountain water supply	Mining

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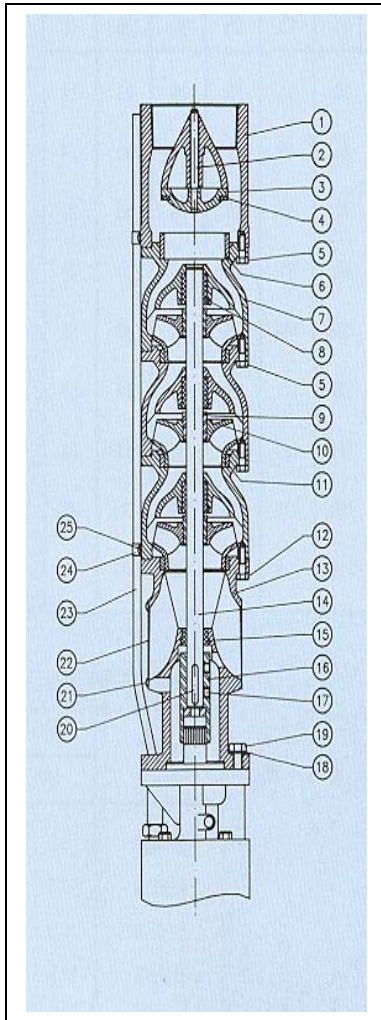
Submersible Pump EN6

Page 1 of 3



Co. Reg. No.: 1094

Product Definition EN6



Item	Part No	Description
1	2120003	OUTLET BOWL 4"
2	2120010	VALVE PIN
3	2120004	VALVE
4	0750082	VALVE RUBBER WASHER
5	0690617	BOLT M8 x20 mm
6	2120008	VALVE SEAT BRONZE(Optional)
7	2120002	INTERMEDIATE BOWL
8	0750081	RUBBER BUSH
9	2120009	IMPELLER SLEEVE
10	2121000	IMPELLER A
10	2120007	IMPELLER B
10	2120002	IMPELLER C
11	2120012	WEAR RING BRONZE (Optional))
12	0690615	BOLT M8 x 25mm
13	2120001	INLET BOWL x 6"EL. MOTOR
14*		BOWL SHAFT Ø22mm
15	0750081	RUBBER BUSH FOR INLET BOWL
16	0570050	COUPLING
17	0690499	CUP SCREW
18	0700024	SPRING WASHER ½"
19	0690205	BOLT ½" x 3" UNF
20	0680044	PLAIN KEY
21	0990010	RIVETS Ø 3mm
22	0690303	S/S STRAINER
23*		CABLE COVER
24	2120081	CABLE COVER CLIP
25	0690303	S/S BOLT M4 x 12mm

*SPECIFY NO. OF BOWLS

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Co. Reg. No.: 1094

Performance Table EN6A at 2850 rpm

TYPE	POWER			Delivery in m3/hr						
	HP	KW		10	15	20	25	30	35	40
EN6A/3	5.5	4	T O T A L H E A D (m)	37	36	34	32	28	23	18
EN6A/4	7.5	5.5		50	48	46	42	37	30	24
EN6A/6	10	7.5		74	72	68	63	55	46	37
EN6A/8	12.5	9.2		99	96	91	84	74	61	49
EN6A/9	15	11		112	108	103	95	83	68	55
EN6A/10	17.5	13		124	120	114	105	92	76	61
EN6A/12	20	15		149	144	137	126	110	91	73
EN6A/15	25	18.5		186	180	171	158	138	114	92
EN6A/18	30	22		223	216	205	189	166	137	110

Performance Table EN6B at 2850 rpm

TYPE	POWER			Delivery in m3/hr			
	HP	KW		30	40	50	60
EN6B/2	5.5	4	T O T A L H E A D (m)	24	22	19	14
EN6B/3	7.5	5.5		36	34	29	21
EN6B/4	10	7.5		49	45	38	28
EN6B/5	12.5	9.2		61	56	48	35
EN6B/6	15	11		73	67	57	42
EN6B/7	17.5	13		85	78	67	49
EN6B/8	20	15		97	90	76	56
EN6B/10	25	18.5		121	112	95	70
EN6B/12	30	22		145	134	114	84
EN6B/14	35	25		169	157	133	98
EN6B/18	40	30		194	179	125	112
EN6B/20	50	37		242	224	190	140

Performance Table EN6C at 2850 rpm

TYPE	POWER			Delivery in m3/hr			
	HP	KW		40	50	60	70
EN6C/3	4	4	T O T A L H E A D (m)	29	28	26	22
EN6C/4	5.5	5.5		39	37	35	29
EN6C/5	7.5	7.5		49	46	44	36
EN6C/7	9.2	9.2		69	64	62	50
EN6C/9	11	11		88	83	79	65
EN6C/11	13	13		108	101	97	79
EN6C/14	15	15		137	129	123	101
EN6C/18	18.5	18.5		176	166	153	130

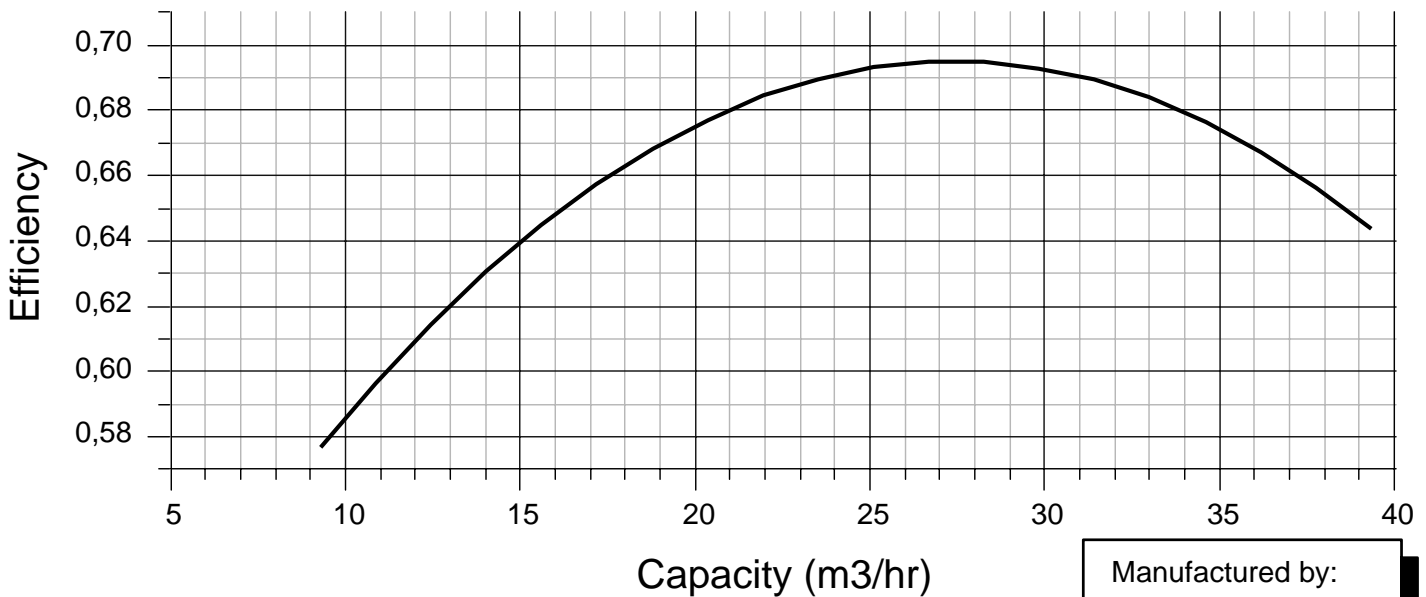
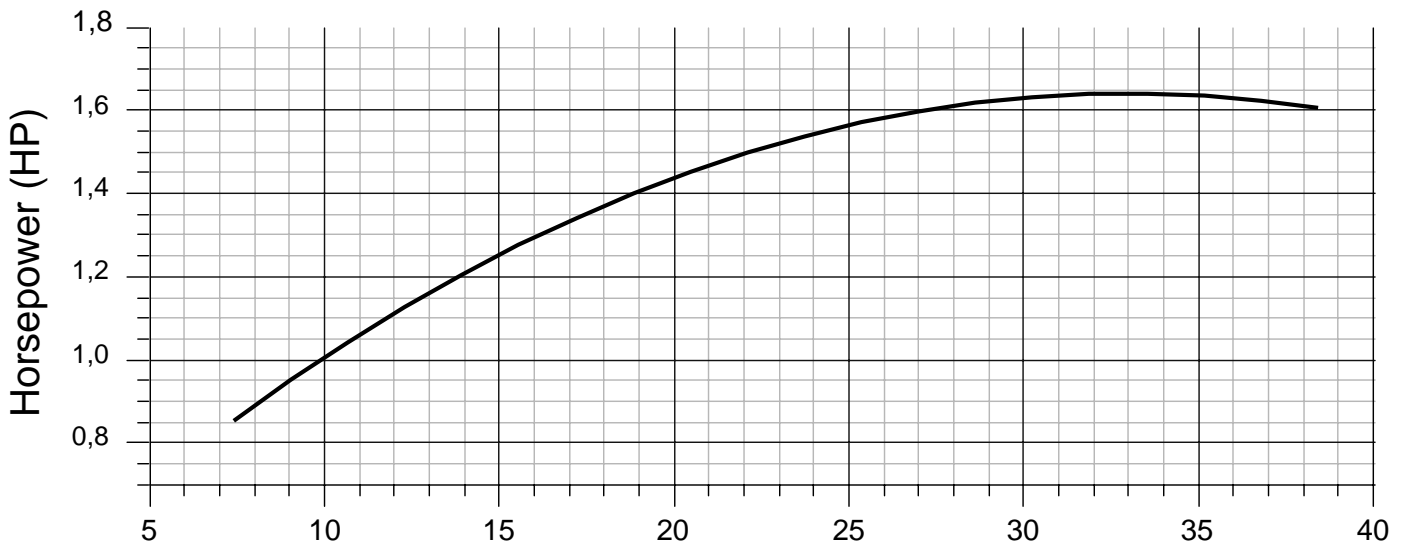
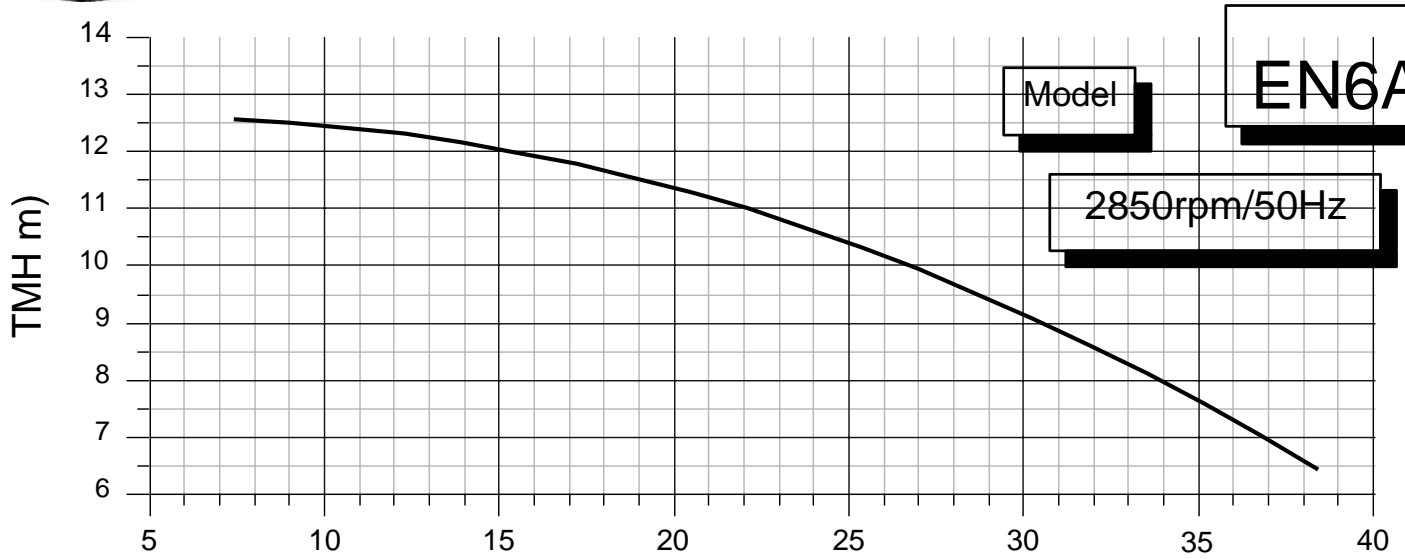
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NEMITSAS SUBMERSIBLE PUMPS



Performance is based on pumping clear water, free of gas at 20°C.

External diam.:146mm
Impeller material:C.I.,Bronze,S/S
Bowl Material:C.I.,Bronze, S/S

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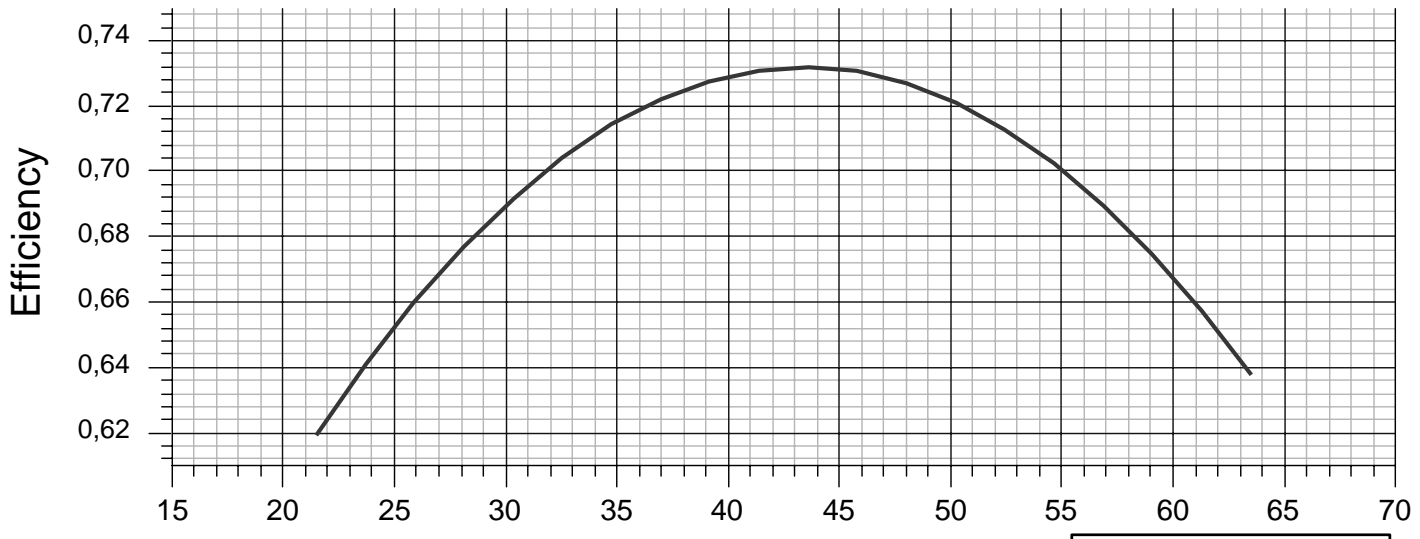
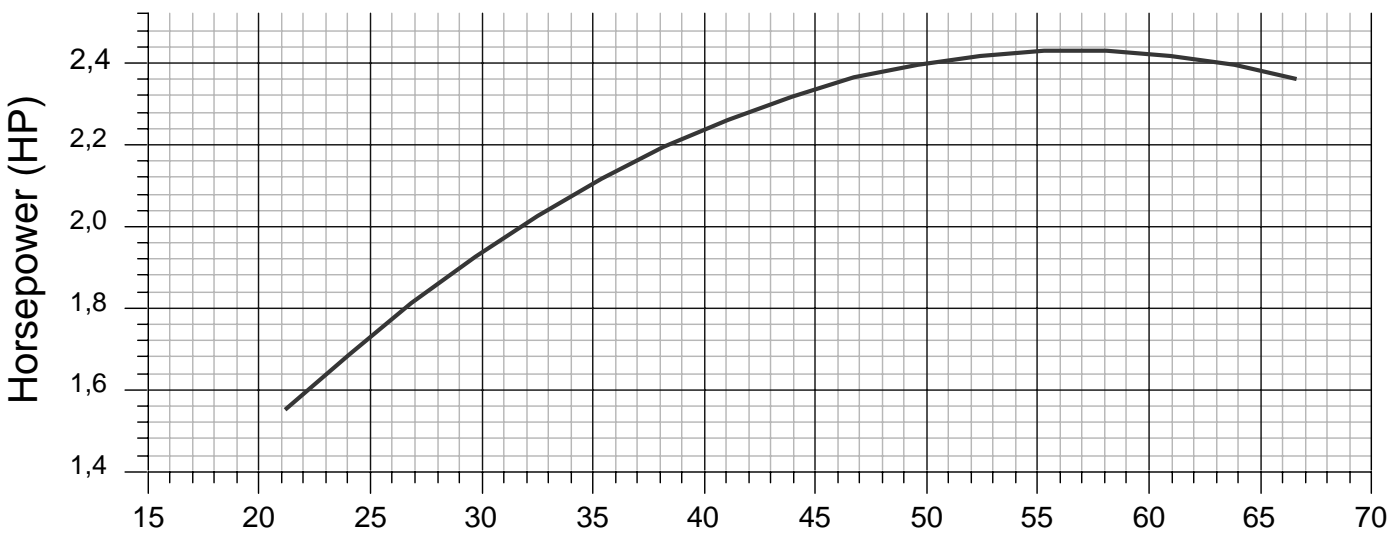
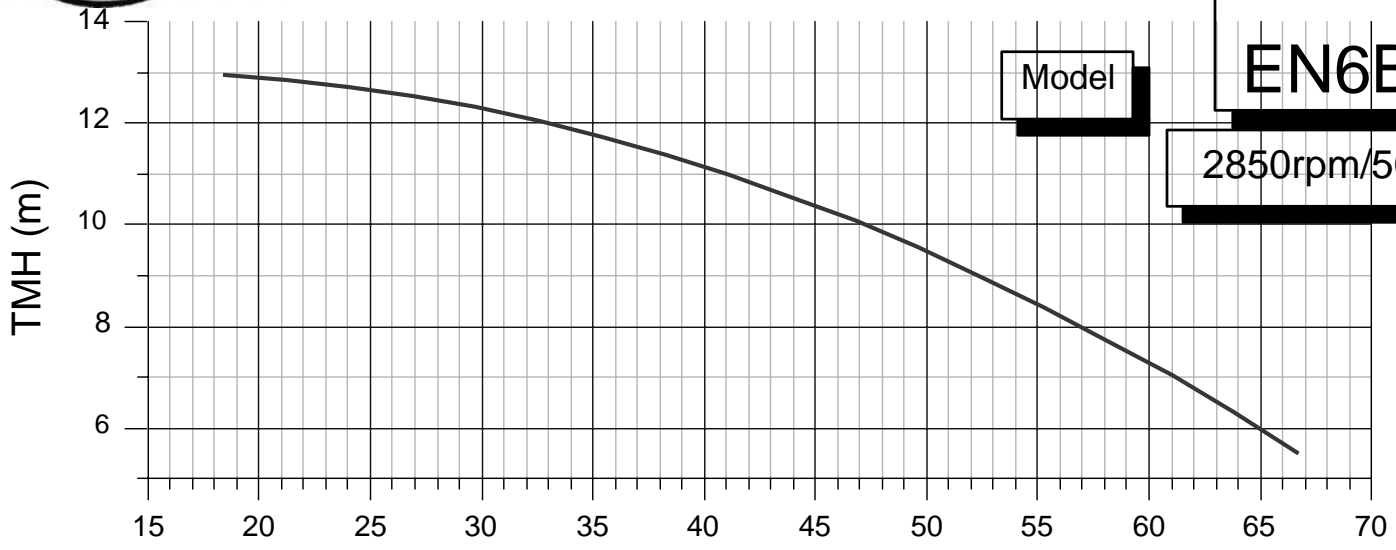


NEMITSAS SUBMERSIBLE PUMPS

Model

EN6B

2850rpm/50Hz



Capacity (m³/hr)

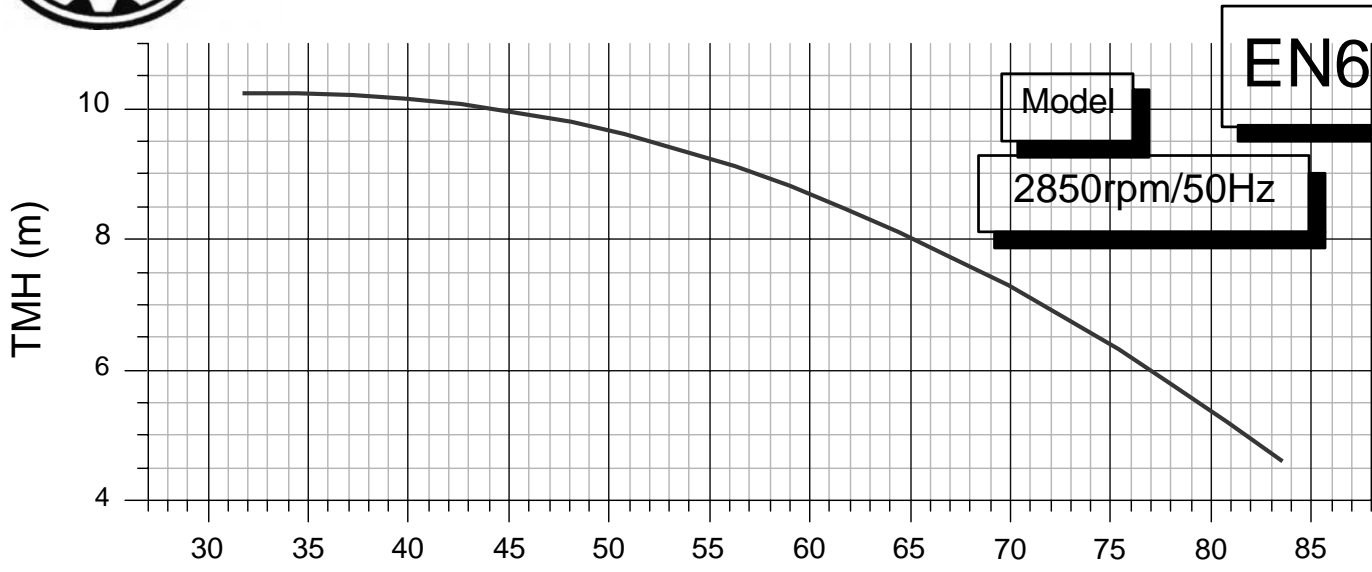
Performance is based on pumping clear water, free of gas at 20°C.

External Dia:141mm
Impeller material:C.I.,Bronze,S/S
Bowl Material: C.I.,Bronze,S/S

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Limassol - Cyprus
Tel:+357 25569225
Fax:+357 25396955

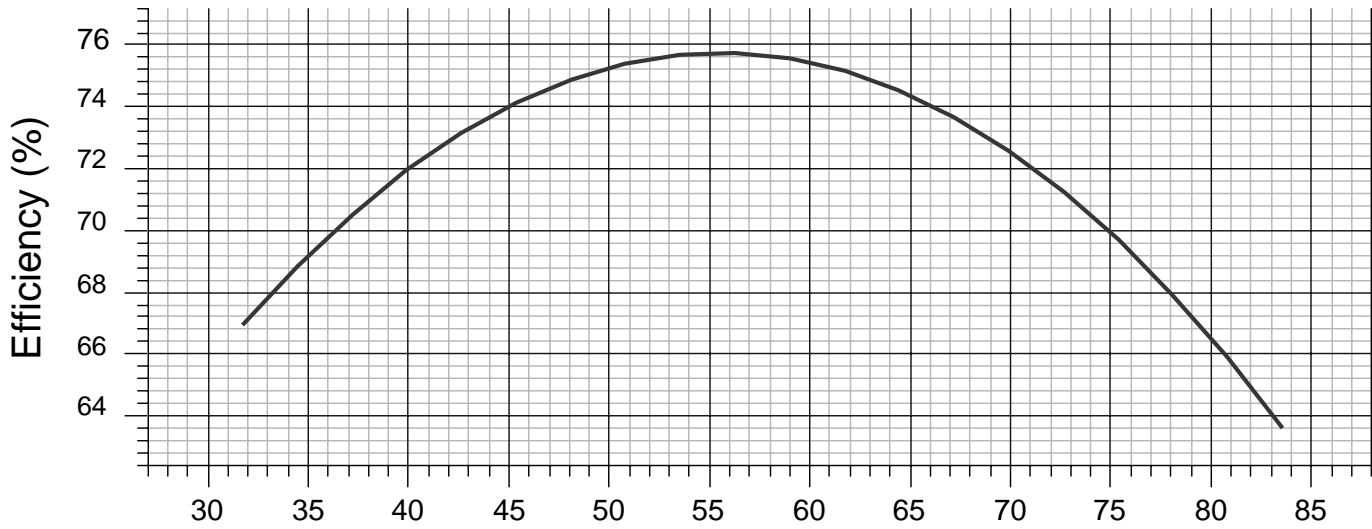
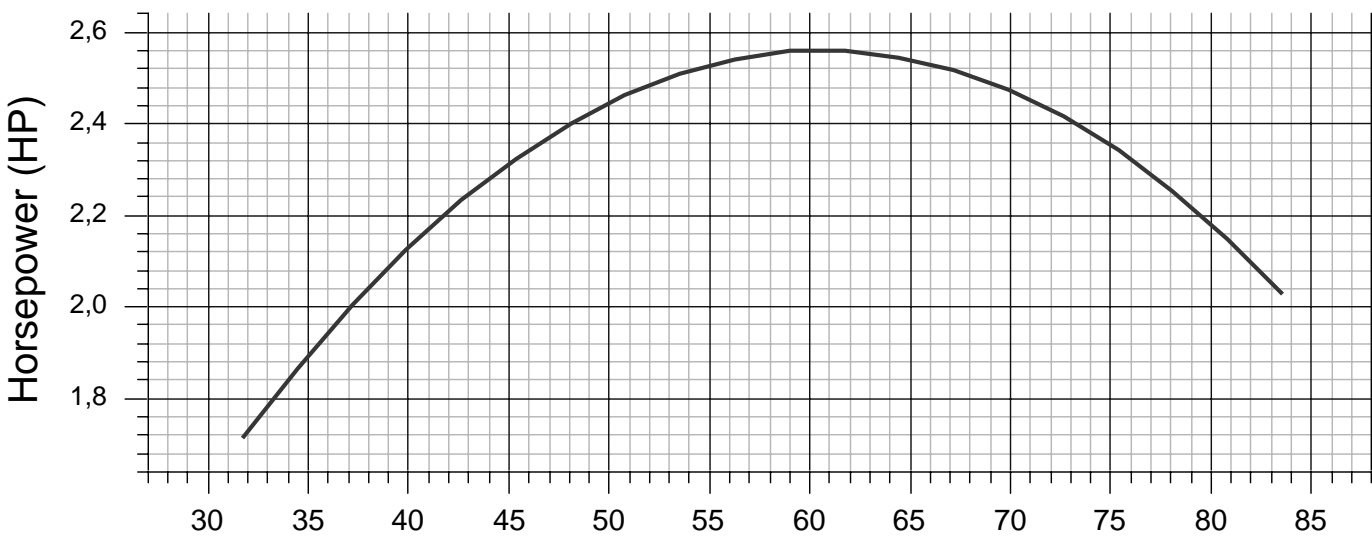


NEMITSAS SUBMERSIBLE PUMPS



Model: **EN6C**

2850rpm/50Hz



Capacity (m³/h)

Performance is based on pumping clear water, free of gas at 20°C.

External Dia:141mm
Impeller material:C.I.,Bronze,S/S
Bowl Material: C.I.,Bronze,S/S

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Limassol - Cyprus
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NEMITSAS SUBMERSIBLE PUMPS MODEL EN8

Design/Constructional Details

Single or multistage centrifugal pump with one or more impellers of mixed flow type connected to special submersible motor designed to work under water through an inlet bowl protected by a strainer. A splined coupling connects the pump and the motor for easy assembly. The pump is equipped with a non return valve on the outlet. Designed for installation in boreholes of min. 8”.

Material Specifications

Component	Material
Bowls	Cast Iron /bronze/stainless steel
Impellers	Cast Iron /bronze/stainless steel
Shaft	Stainless Steel
Bearings	Rubber
Wear Rings	Bronze
Strainer	Stainless Steel
Valve	Cast Iron/bronze/stainless steel

Fields of Application

Agricultural Irrigation	Dewatering
Domestic and general water supply	Pressure booster applications
Fire fighting/emergency water supply	Industrial applications
Fountain water supply	Mining

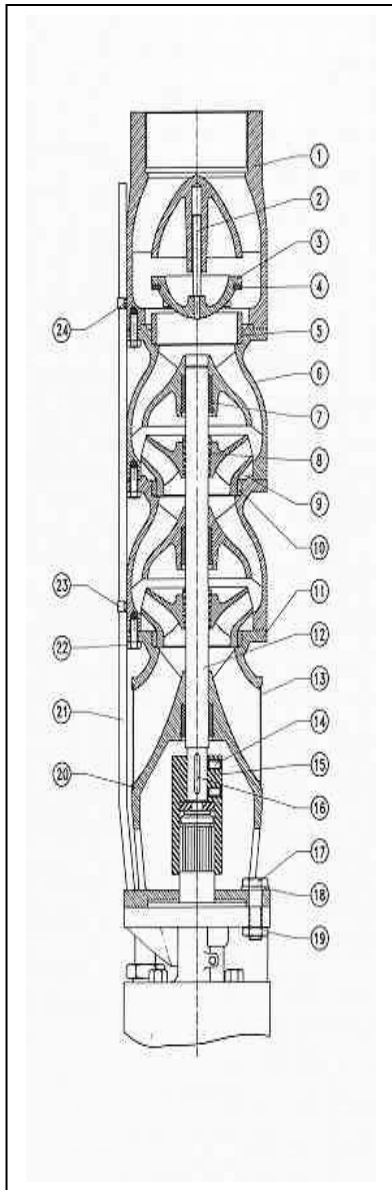


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Product Definition EN8



Item	Part No	Description
1	2120003	OUTLET BOWL 4"
1	2120062	OUTLET BOWL 5"
2	2120010	VALVE PIN
3	2120004	VALVE
4	0750082	VALVE RUBBER WASHER
5	2120008	VALVE SEAT BRONZE(Optional)
6	2120002	INTERMEDIATE BOWL
7	0750081	RUBBER BUSH
8	2120009	IMPELLER SLEEVE
9	2121091	IMPELLER A
9	2121057	IMPELLER B
9	2120056	IMPELLER C
9	2120092	IMPELLER D
10	2120012	WEAR RING BRONZE (Optional))
11	2120001	INLET BOWL x 6"EL. MOTOR
11	2120001	INLET BOWL x 8"EL. MOTOR
12*		BOWL SHAFT Ø 30mm
13	0750081	S/S STRAINER
14	0570050	CUP SCREW
15	0570051	COUPLING FOR 6" EL. MOTOR
15	0570055	COUPLING FOR 8" EL. MOTOR
16	0690044	PLAIN KEY
17	0690205	BOLT ½" x 2" UNFFOR 6" E MOTOR
17	0690047	BOLT WASHER ½" x 2.1/2" UNF FOR 6" E MOTOR
18	0700024	SPRING WASHER ½ FOR 6" EL MOTOR
19	0690804	NUT ½" BSW FOR 8" EL. MOTOR
20	0990010	RIVETS Ø3mm
21*		CABLE COVER
22	0690616	BOLTS M10 x 25mm
23	2120080	CABLE COVER CLIP
24	0690303	S/S BPLT M4 x12 mm

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Performance Table EN8A at 2850 rpm

TYPE	POWER			Delivery in m3/hr						
	HP	KW		0	30	40	50	60	70	80
EN8A/1	5.5	4	T O T A L H E A D (m)	24	21	20	19	17	14	12
EN8A/2	10	7.5		48	42	40	37	33	29	24
EN8A/3	15	11		72	63	60	56	50	43	36
EN8A/4	20	15		96	84	80	74	66	57	48
EN8A/5	25	18.5		120	105	100	93	83	72	60
EN8A/6	30	22		144	126	119	111	99	86	72
EN8A/8	40	30		192	168	159	148	132	114	96
EN8A/10	50	37		240	210	199	185	165	143	120
EN8A/12	60	45		288	252	239	222	198	172	144
EN8A/15	75	55		360	315	299	278	248	215	180

Performance Table EN8B at 2850 rpm

TYPE	POWER			Delivery in m3/hr			
	HP	KW		40	60	80	100
EN8B/1	7.5	5.5	T O T A L H E A D (m)	18	18	16	12
EN8B/2	15	11		37	35	31	23
EN8B/3	20	15		55	53	47	35
EN8B/4	30	22		73	70	62	47
EN8B/5	35	26		92	88	78	59
EN8B/6	40	30		110	106	94	70
EN8B/7	50	37		128	123	109	82
EN8B/9	60	45		165	158	140	105
EN8B/11	75	55		201	194	172	129
EN8B/12	80	59		220	211	187	140
EN8B/13	90	66	256	246	218	164	
EN8B/15	100	75	275	264	234	176	

Performance Table EN8C at 2850 rpm

TYPE	POWER			Delivery in m3/hr			
	HP	KW		60	80	100	120
EN8C/1	7.5	4	T O T A L H E A D (m)	23	22	20	17
EN8C/2	15	5.5		46	44	40	34
EN8C/3	20	7.5		97	66	61	51
EN8C/4	30	9.2		93	88	81	68
EN8C/5	35*	11		116	111	101	85
EN8C/6	40	13		139	13	121	102
EN8C/7	50	15		162	155	141	119
EN8C/8	60	18.5		186	177	162	136
EN8C/9	90	60		209	190	182	153
EN8C/10	100	75		232	221	202	170

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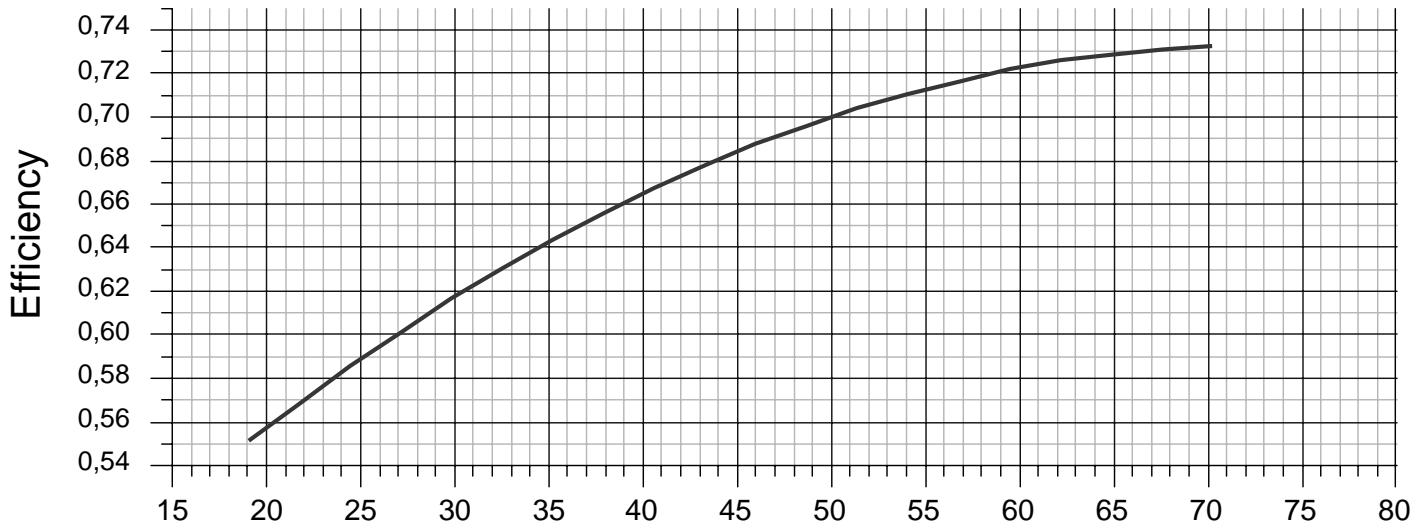
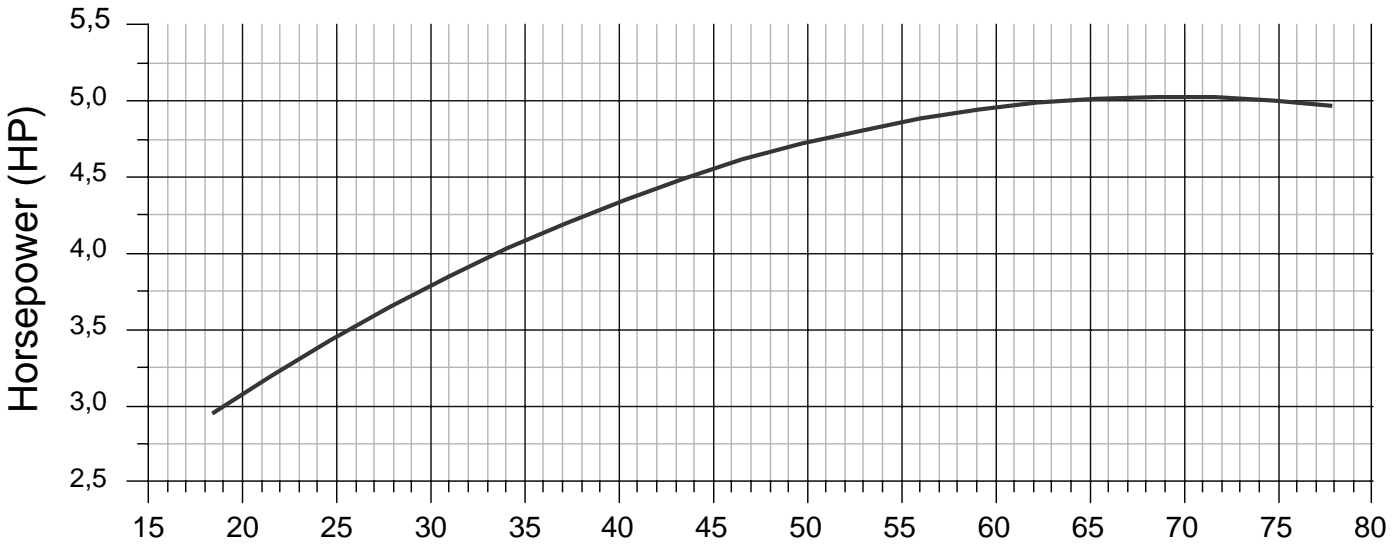
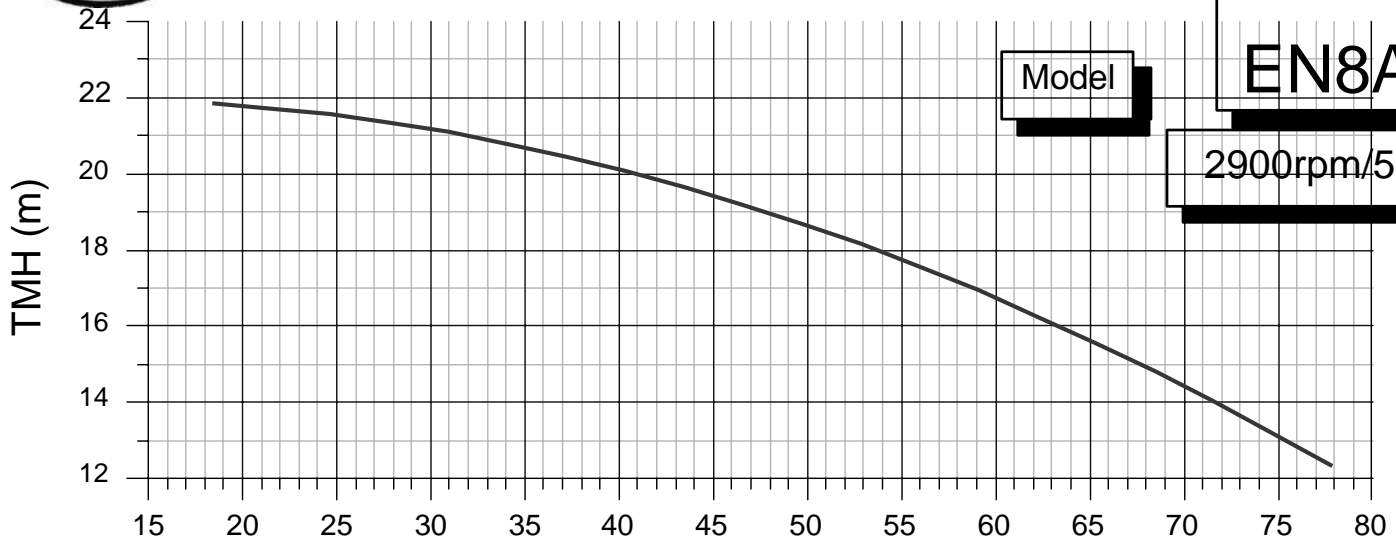


NEMITSAS SUBMERSIBLE PUMPS

Model

EN8A

2900rpm/50Hz



Capacity (m³/hr)

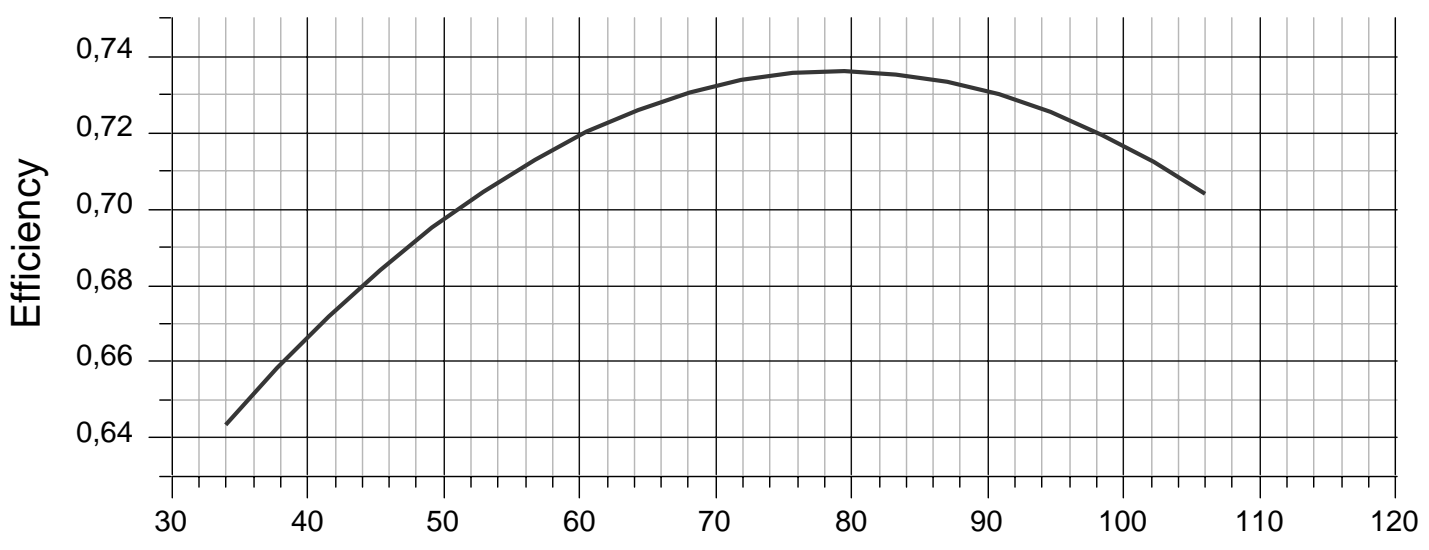
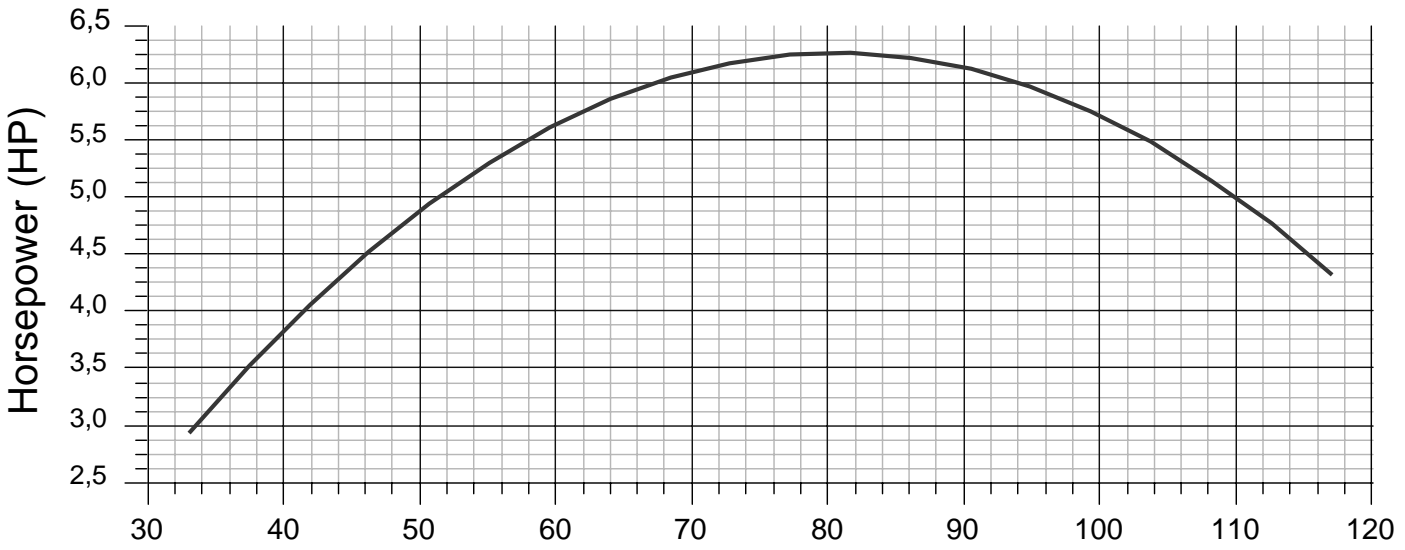
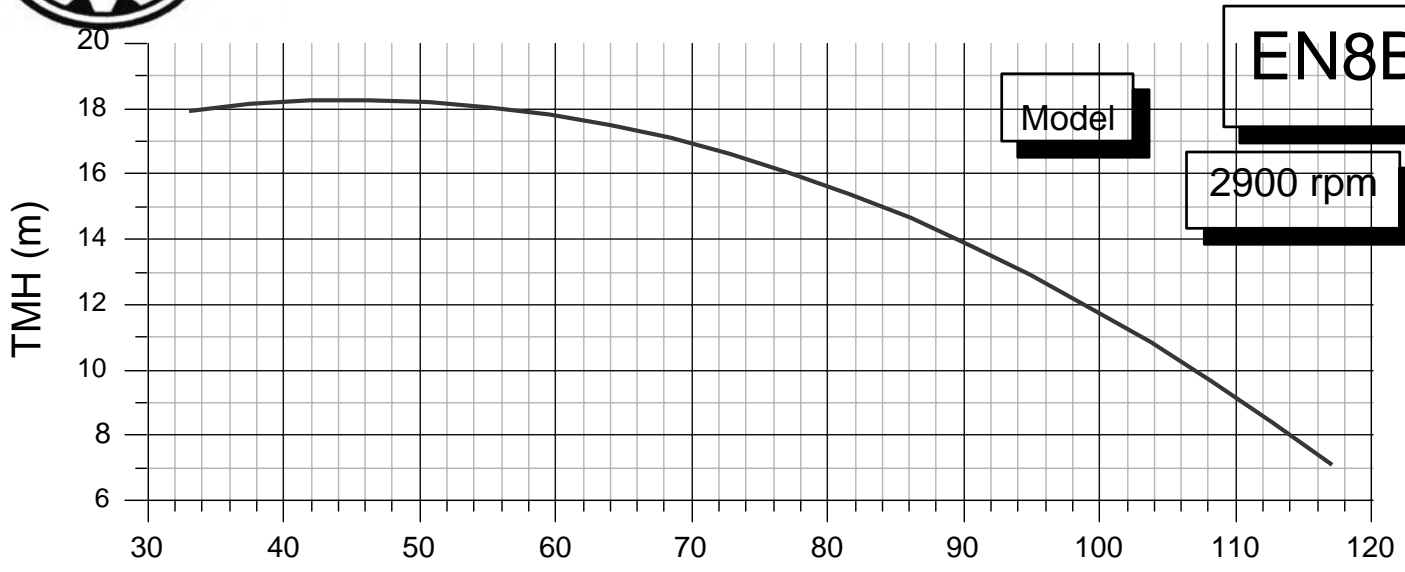
Performance is based on pumping clear water, free of gas at 20°C.

External Dia:195mm
Impeller material:C.I.,Bronze,S/S
Bowl Material: C.I.,Bronze, S/S

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Limassol - Cyprus
Tel:+357 25569225
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NEMITSAS SUBMERSIBLE PUMPS



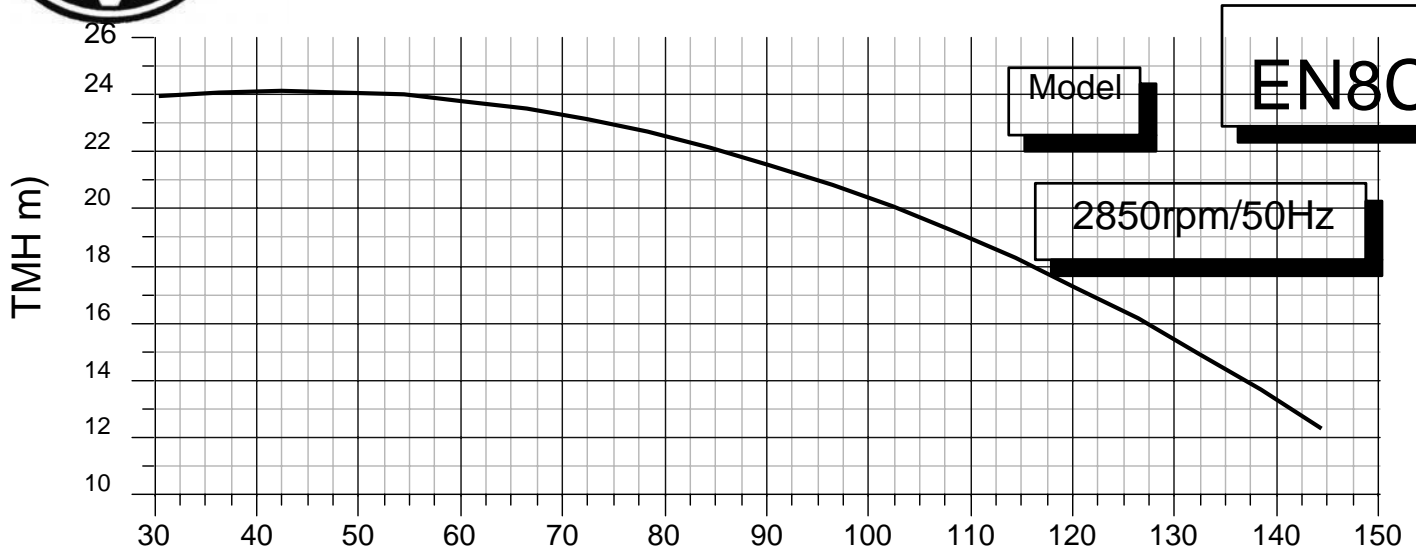
Performance is based on pumping clear water, free of gas at 20°C.

Bowl Dia:195mm
Impeller material:C.I.,Bronze,S/S
Bowl Material: C.I.,Bronze, S/S

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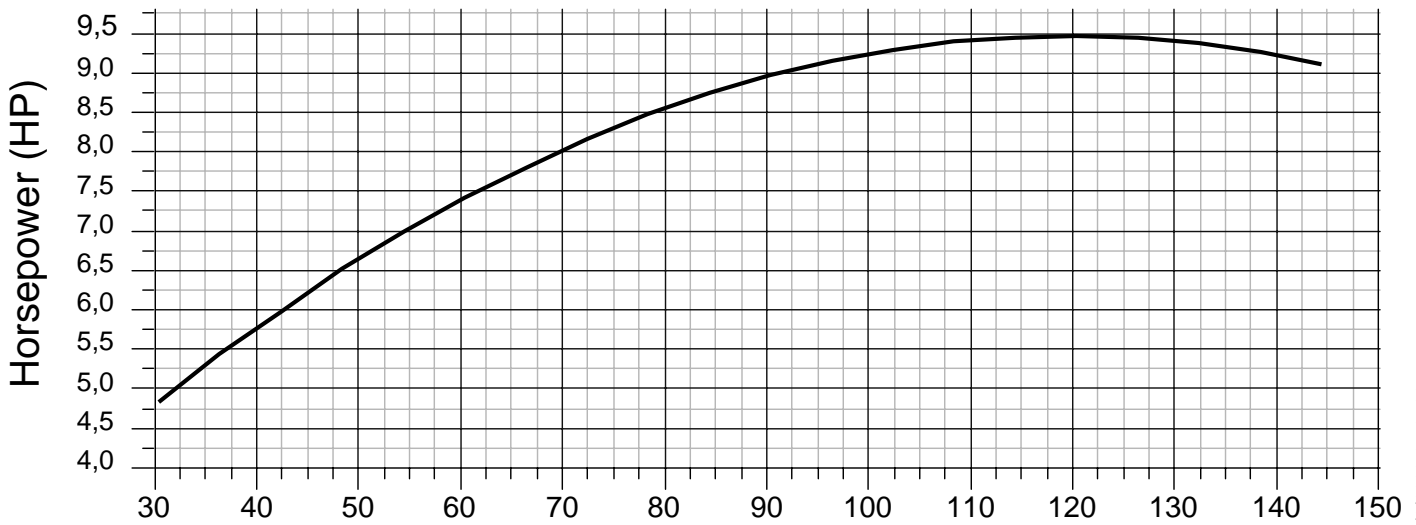
NEMITSAS SUBMERSIBLE PUMPS



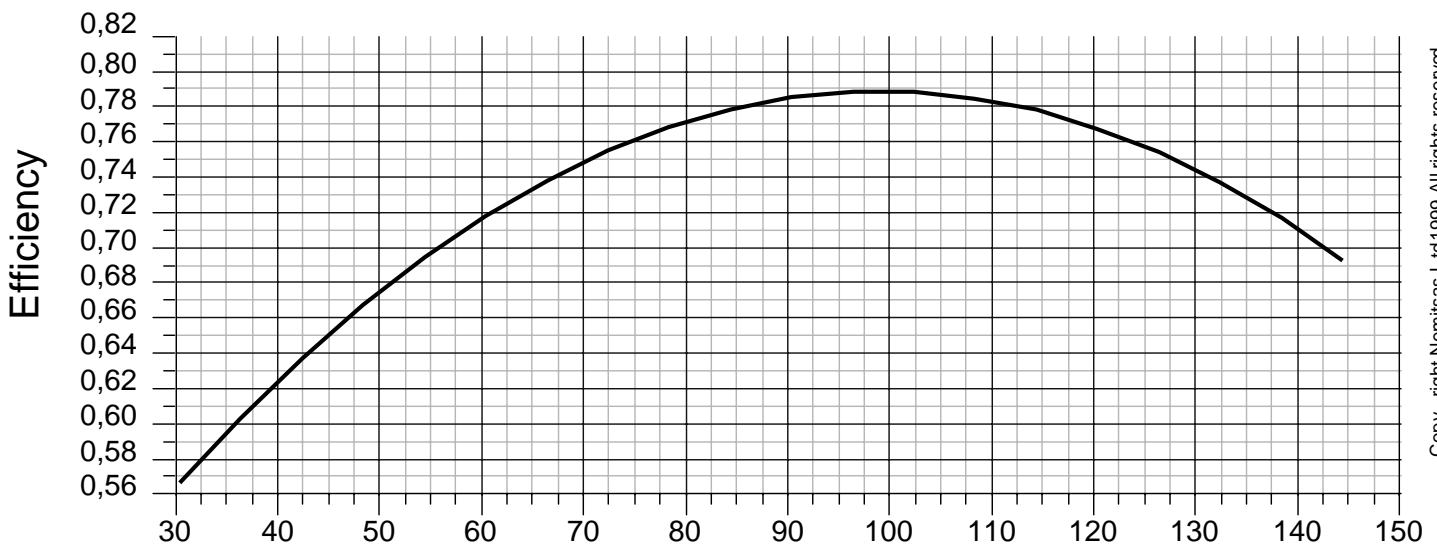
Model

EN8C

2850rpm/50Hz



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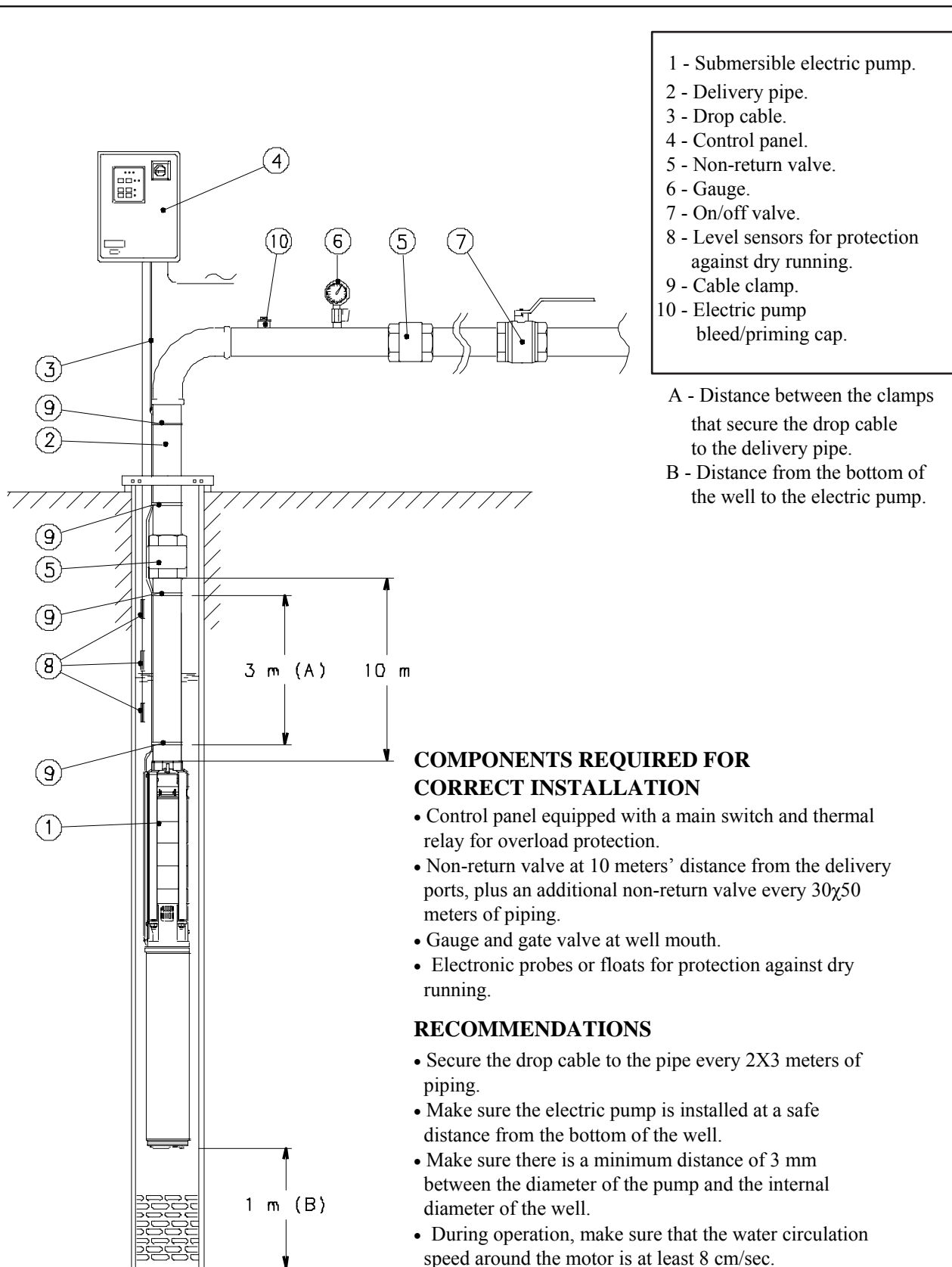
Capacity (m³/hr)

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External Dia:195mm
Impeller material:C.I.,Bronze, S/S
Bowl Material:C.I.,Bronze,S/S

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SUBMERSIBLE ELECTRIC PUMP INSTALLATION DIAGRAM



- 1 - Submersible electric pump.
- 2 - Delivery pipe.
- 3 - Drop cable.
- 4 - Control panel.
- 5 - Non-return valve.
- 6 - Gauge.
- 7 - On/off valve.
- 8 - Level sensors for protection against dry running.
- 9 - Cable clamp.
- 10 - Electric pump bleed/priming cap.

A - Distance between the clamps that secure the drop cable to the delivery pipe.
 B - Distance from the bottom of the well to the electric pump.

COMPONENTS REQUIRED FOR CORRECT INSTALLATION

- Control panel equipped with a main switch and thermal relay for overload protection.
- Non-return valve at 10 meters' distance from the delivery ports, plus an additional non-return valve every 30x50 meters of piping.
- Gauge and gate valve at well mouth.
- Electronic probes or floats for protection against dry running.

RECOMMENDATIONS

- Secure the drop cable to the pipe every 2X3 meters of piping.
- Make sure the electric pump is installed at a safe distance from the bottom of the well.
- Make sure there is a minimum distance of 3 mm between the diameter of the pump and the internal diameter of the well.
- During operation, make sure that the water circulation speed around the motor is at least 8 cm/sec.
- Make sure that the minimum dynamic level of the water in the well is at least 1 m above the pump's delivery port.