Product Catalogue

4" Submersible Borehole Pump

LEO GROUP PUMP(ZHEJIANG) CO.,LTD. (Stock code: 002131)

2019 V1.0

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LEO GROUP PUMP(ZHEJIANG) CO.,LTD.

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HISTORY

1995 — Wenling Xinke Pump Research Institute was established

2001 — The first company exported pumps to EU in pump industry and established Taizhou LEO Electrical Co., Ltd

2007 — Got listed in Shenzhen Stock Exchange with stock code 002131

2009 — Recognized as a National Hi-tech Enterprise

2010 — Established Leo Group Pump (Hunan) Co., Ltd. for industrial pumps manufacturing

2012 — “LEO” brand was identified as "China Famous Brand"

2016 — Established LEO Group Pump (Zhejiang) Co., Ltd. for domestic and commercial pumps manufacturing

2017 — Relocated to smart plant with total area 300 thousand m^2

TO KNOW LEO

LEO Group (got listed in Shenzhen Stock Exchange with stock code 002131) is a national high-tech enterprise engaged in R&D, design, manufacture, sales and service of all series pumps and systems. LEO is the first listed company in Chinese pump industry, one of the drafters of pump industry standard and the vice president of drainage and irrigation machinery branch of China Agricultural machinery industry association as well. "LEO" has been identified as "China Famous Brand" by the State Administration of Industry and Commerce.It is mentionable that LEO has the only state-authorized technical center in pump industry.

We have set up many production and sales subsidiaries in key regional markets such as America, Hungary, Belgium, Thailand, Indonesia, United Arab Emirates and Bangladesh and authorized exclusive distribution agency in over 100 countries.

Our products have been sold to over 120 countries and regions, such as Europe, North America, Central &South America, Southeast Asia, Middle East, Africa, Oceania ,etc., which play a crucial role in water conservancy , water resources, electric power construction, petrochemical industry, mining, metallurgy, fire-fighting, HVAC(Heating, Ventilation and Air Conditioning), agricultural irrigation, civil water supply and drainage, etc.

LEO has currently two industrial groups respectively for industrial and civilian applications. With four manufacturing bases in Wengling of Zhejiang, Xiangtan of Hunan, Wuxi of Jiangsu and Dalian of Liaoning, LEO possesses a solid foundation to become a world-class pump and system solution provider rapidly.

With over 70 years' professional technology, LEO will continue her consistent creativity and development ability in each pump for human's health.

NUMEROUS MEMBERS, ONE FAMILY

Based on market segment, LEO's pump business is divided into 5 fields, namely water conservancy & water resources, power station, petrochemical industry, mining & metallurgical industry and civilian applications. For each field there's a professional manufacturing base with relevant professional sales teams. Three subsidiary companies, Wuxi LEO Xi Pump, LEO Group Pump (Hunan) and Dalian LEO Pump are all well-known industrial pump manufacturers in their own fields. With over 70 years' industrial pump manufacturing experience and extraordinary comprehensive strength, LEO has become a leading company among all industrial pump manufacturers in China.

Pump Manufacturing Base for Domestic and Commercial Applications
(Wenling City, Zhejiang Province)

LEO Group Pump (Zhejiang) Co., Ltd, a wholly-owned subsidiary of LEO Group Co., Ltd, is the core base for R&D, manufacturing, sales and service of domestic and commercial pumps for family water supply, pipeline boosting, garden and field irrigation, HVAC, etc.

The leading products include peripheral pump, jet pump, centrifugal pump, garden submersible pump, fountain pump,pool pump, doestic lifting station, gasoline engine pump, diesel engine pump, submersible pump, submersible borehole pump, submersible sewage pump,stainless steel vertical multistage pump, etc.

The product range covers 15 series with over 2,000 specifications, which are well sold in more than 120 countries and regions. The base has established steady cooperative relationships with world-class pump manufacturers, importers, dealers and hypermarkets.

Pump Manufacturing Base for General Industrial Pumps
(Xiangtan City, Hunan Province)

Established in 2010, LEO Group Pump (Hunan) Co., Ltd. is a wholly-owned subsidiary by LEO Group Co., Ltd. Located in Jiuhua Economic Development Zone of Xiangtan City, Hunan Province. Covers an area of 85,000m^2 and construction area is about 92,635 m^2 with total investment of approximately 74 million dollars.
It is the most important R&D, manufacturing and testing center of LEO Group. The leading products include large mixed flow and axial flow pump (vertical, horizontal, oblique, tubular, submersible etc.), double-suction centrifugal pump, multistage centrifugal pump, slurry pump, desulphurization pump and submersible centrifugal pump. Products are mainly used in mine, metallurgy, coal washing, FGD, municipal water etc.

Pump Manufacturing Base for Water Conservancy & Water Resources (Wuxi City, Jiangsu Province)

Formerly known as Wuxi Xi Pump Manufacturing Co., Ltd., a well-known manufacturer of water conservancy, is specialized in large and medium-sized pumps production for urban water supply and drainage, farmland irrigation, water conservancy projects and large water diversion project. The main products cover 32 series with nearly 1000 specifications. Products exported to more than 20 countries in Asia, Latin-America, Europe and Oceania.
As a main supplier, the base provides large pumps for South-to-North Water Diversion Project—a national key project. There are over 140 technicists, including 1 professor level senior engineer, 16 senior engineers, and 39 engineers.

Pump Manufacturing Base for Petrochemical Industry
(Dalian City, Liaoning Province)

It is the pump manufacturing base for petrochemical industry, combined with Dalian LEO Huaneng Pump Co., Ltd and LEO (Dalian) Industrial Pump Technology Center Co., Ltd.
Formerly known as Dalian Huaneng Corrosion-Resistant Pump Works, the base is specialized in production of petrochemical pumps for crude oil transportation, crude oil refinery, heavy chemical industry, coal chemical industry and fine chemistry, etc. The base focuses on design and manufacture of 30 series (OH, BB, VS, etc.) of petrochemical pumps with over 3000 specifications, which are in accordance with API and ISO standard.
LEO (Dalian) Industrial Pump Technology Center Co., Ltd. is one of the research branch of national level technology center for petrochemical pumps, specializes in R&D , design of pumps of petro chemistry, coal chemical industry, long-distance transport pipes, energy resources, fine chemicals industry, etc. Design and develop software and large laboratories, explore liquid transport schemes under severe conditions and solve the difficult projects of ultralow temperature, high temperature, high pressure, low cavitation, highly corrosive, energy recovery, etc.

4LST

Applications

- Suitable for clean water that contain sand (up to 0.1%)
- For water supply from wells or reservoirs
- For domestic use and industrial applications
- For garden use and irrigation

Operating Conditions

- Max. solid content: 0.1%
- Max. chlorine content: 400 mg/L
- PH value: 6.5 ~ 8.0
- Min. well diameter: 4"

Pump Feature

- Sand resistant construction
- NEMA dimension standards
- AISI 304 adapter
- AISI 304 discharge head
- AISI 304 pump casing
- AISI 304 non-return valve
- Equiped with start control box for single phase model
  Digital auto-control box available on request for three phase model

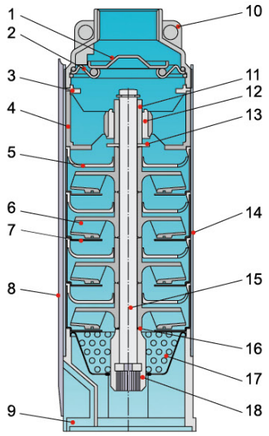
Identification Codes

4 LST m – 05 10

- 10 — Impeller Stage
- 05 — Rated Flow in USGPM
- m — Single-phase Motor (Three-phase without m)
- LST — LEO Submersible Borehole Pump
- 4 — Min Well Diameter:4"

Material Table

Item No.	Part Name	Material
1	Valve	AISI304SS
2	Valve seat	AISI304SS
3	Coupling ring	PC
4	Seat assembly	PC
5	Diffuser	PC
6	Impeller	PPO
7	Bowl	AISI304SS
8	Cable guard	AISI304SS
9	Motor adapter	AISI304SS
10	Discharge head	AISI304SS
11	Shaft sleeve	AISI304SS
12	Bush bearing	PU
13	Washer	AISI304SS
14	Out casing	AISI304SS
15	Shaft	AISI304SS
16	Adjusting washer	AISI304SS
17	Strainer	AISI304SS
18	Coupling spline	AISI304SS



Discharge Head & Motor Adaptor
Precision machined cast AISI304 for superior strength and durability. NEMA standard adaptor.

Check Valve
Made of AISI304, installed in discharge head to eliminate pump damage due to water hammer.

Strainer
Non-collapsible stamped AISI304 with generous water passage for maximum design flow.

Floating Impeller
Non-recycled reinforced PPO with high wear resistance.

Bowl
Made of AISI304, for superior strength and abrasive resistance.

Hex Shaft Design
Six sided shafts made of AISI304 ensure strength & high corrosion resistance.

AISI304 Shaft Coupling
Good rigidity easy alignment to motor shaft.

Bush Bearing
Made of polyurethane(PU) for strong wear and abrasive resistance.

Pump Casing
1.5mm thick polished AISI304, ensure optimum resistance to abrasion.

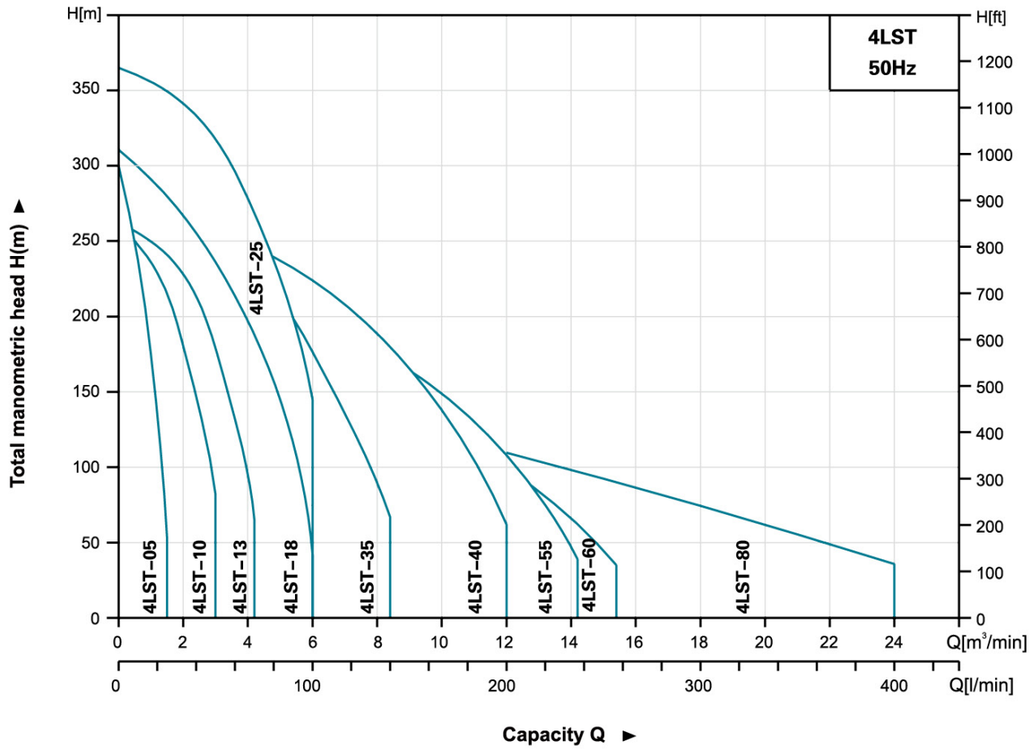
Discharge Head
(Check valve inside)

Diffuser

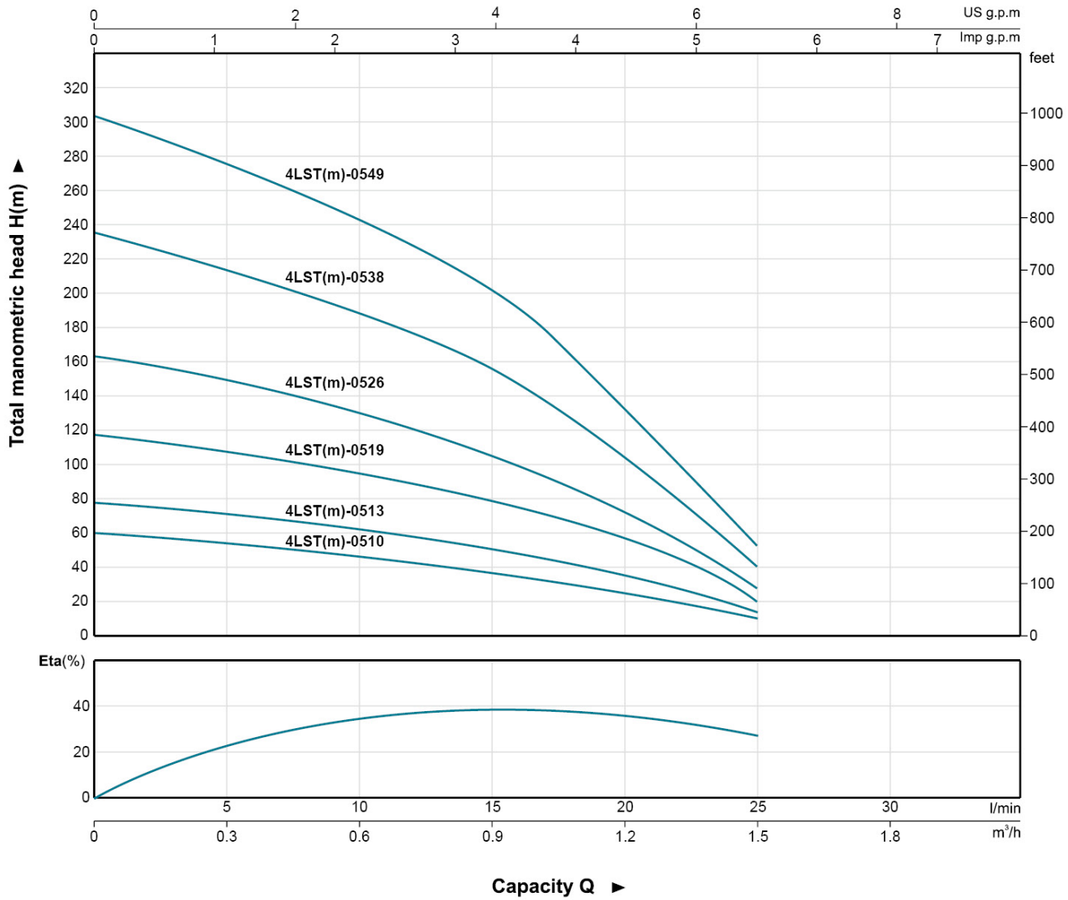
Impeller

Bowl

Motor Adapter
(Strainer inside)



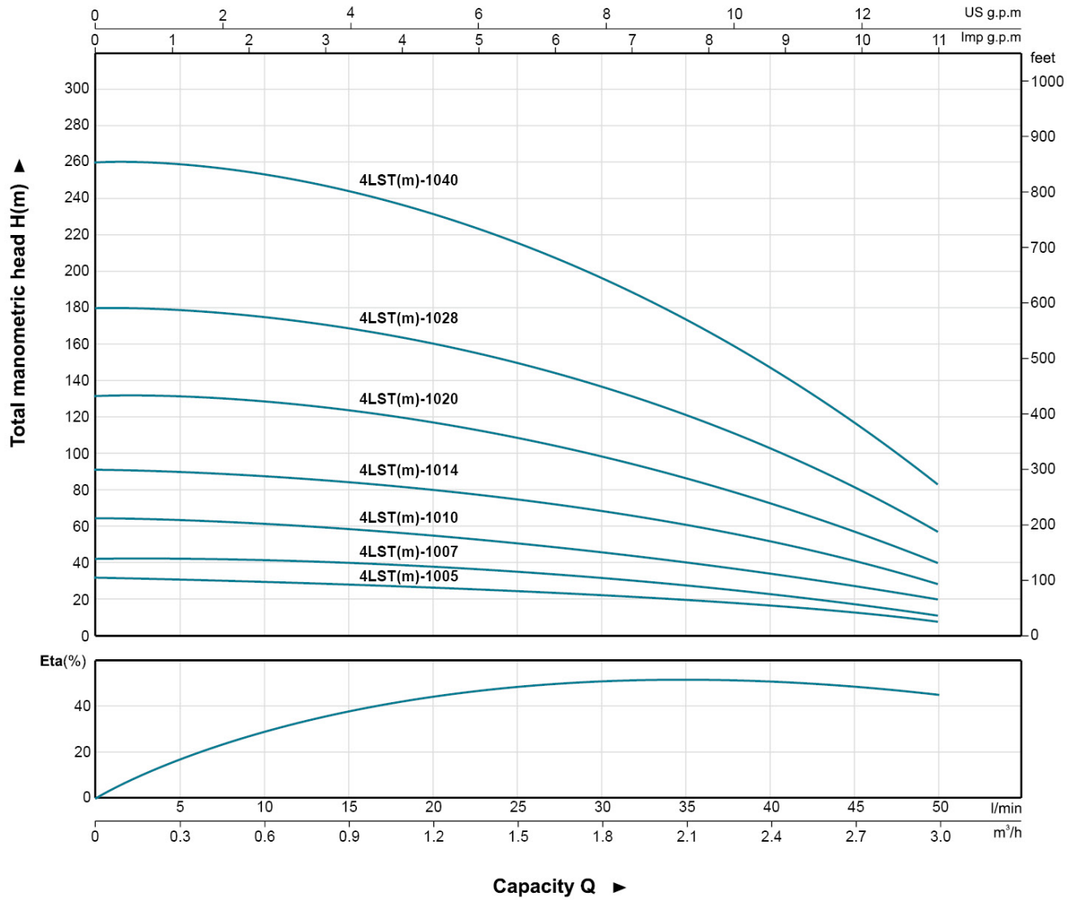
4LST 05



Technical Data

MODEL		P2		DELIVERY n≈2850 1/min						
Single Phase	Three Phase	kW	HP	Q m³/h	0	0.3	0.6	0.9	1.2	1.5
				l/min	0	5	10	15	20	25
4LSTm-0510	4LST-0510	0.37	0.5	H(m)	60	55	46	38	26	11
4LSTm-0513	4LST-0513	0.37	0.5		78	72	62	50	38	14
4LSTm-0519	4LST-0519	0.55	0.75		118	108	95	79	58	21
4LSTm-0526	4LST-0526	0.75	1.0		161	147	130	107	74	28
4LSTm-0538	4LST-0538	1.1	1.5		235	215	188	156	103	41
4LSTm-0549	4LST-0549	1.5	2.0		303	275	241	201	132	53

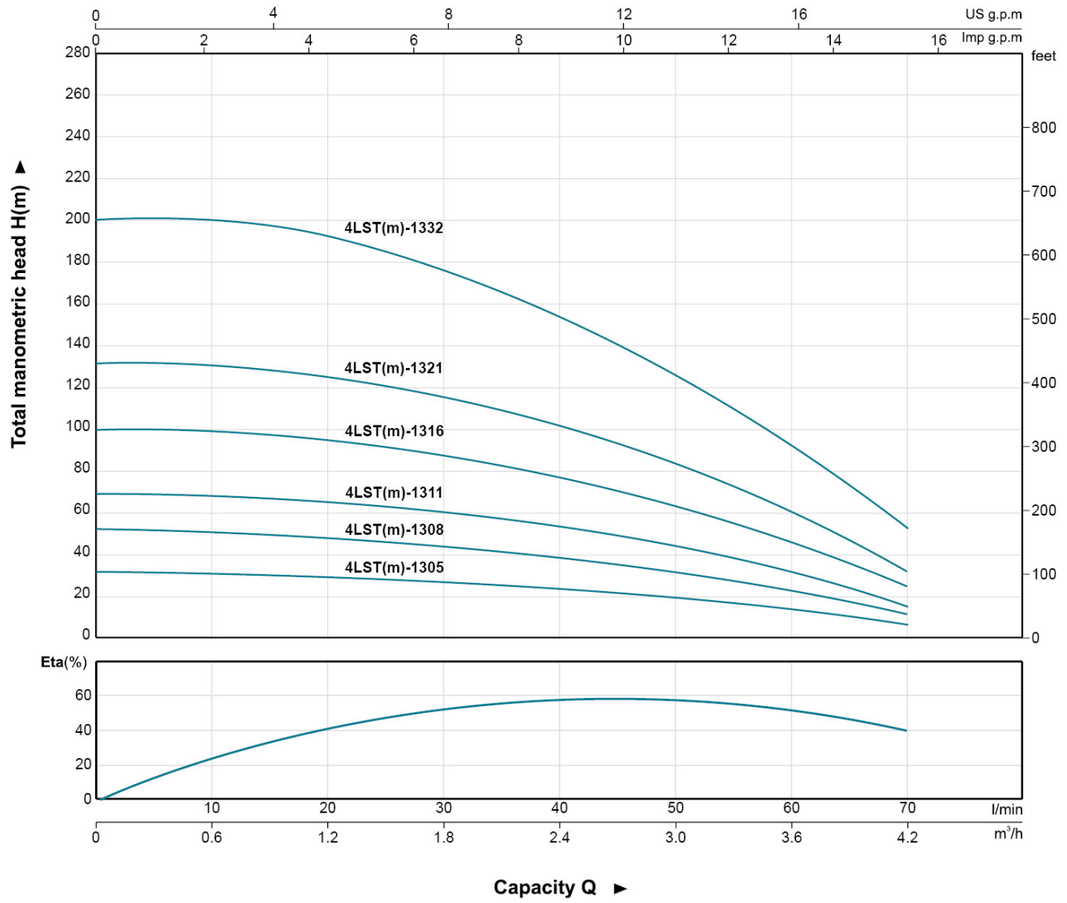
4LST 10



Technical Data

MODEL		P2		DELIVERY n≈2850 1/min									
Single Phase	Three Phase	kW	HP	Q m³/h	0	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
				l/min	0	15	20	25	30	35	40	45	50
4LSTm-1005	4LST-1005	0.37	0.5	H(m)	32	30	27	25	24	21	17	13	10
4LSTm-1007	4LST-1007	0.37	0.5		45	42	38	35	33	29	24	19	14
4LSTm-1010	4LST-1010	0.55	0.75		66	60	55	52	49	44	38	29	21
4LSTm-1014	4LST-1014	0.75	1.0		92	84	77	76	69	62	53	41	29
4LSTm-1020	4LST-1020	1.1	1.5		132	124	114	109	99	88	76	58	41
4LSTm-1028	4LST-1028	1.5	2.0		180	170	160	151	138	122	105	81	58
4LSTm-1040	4LST-1040	2.2	3.0		260	243	230	215	199	174	150	116	83

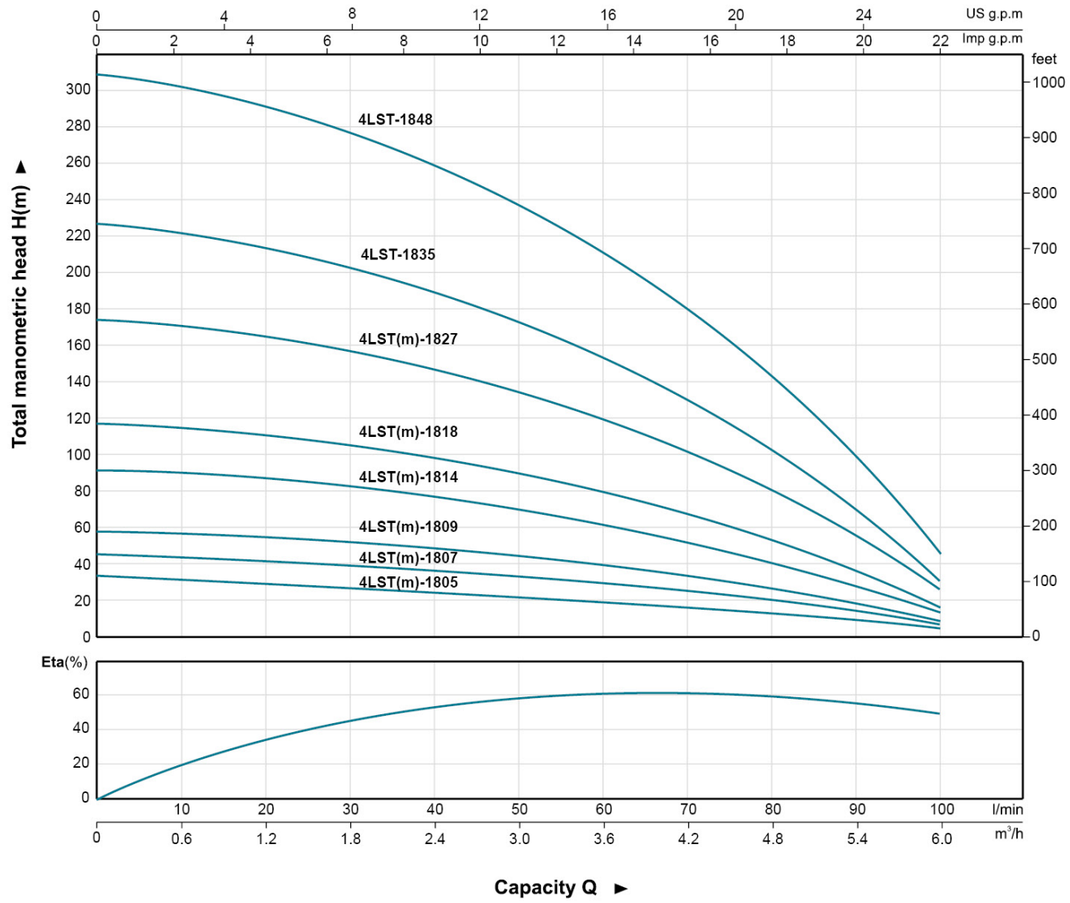
4LST 13



Technical Data

MODEL		P_2		DELIVERY n≈2850 1/min										
Single Phase	Three Phase	kW	HP	Q m³/h	0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2
				l/min	0	20	25	30	35	40	45	50	60	70
4LSTm-1305	4LST-1305	0.37	0.5	H(m)	31	29	28	27	25	23	21	19	14	7
4LSTm-1308	4LST-1308	0.55	0.75		51	47	46	44	42	38	35	32	22	12
4LSTm-1311	4LST-1311	0.75	1.0		69	65	63	60	57	52	48	45	31	16
4LSTm-1316	4LST-1316	1.1	1.5		100	94	92	88	83	76	70	64	45	24
4LSTm-1321	4LST-1321	1.5	2.0		131	124	121	116	109	99	92	85	59	32
4LSTm-1332	4LST-1332	2.2	3.0		200	189	187	176	166	152	141	126	91	49

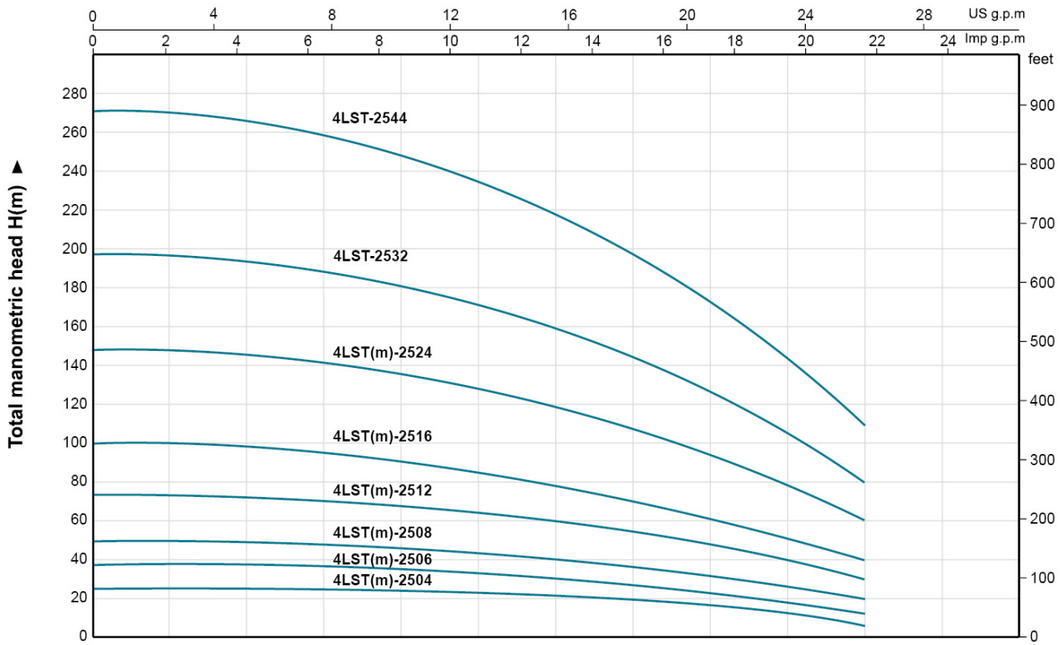
4LST 18

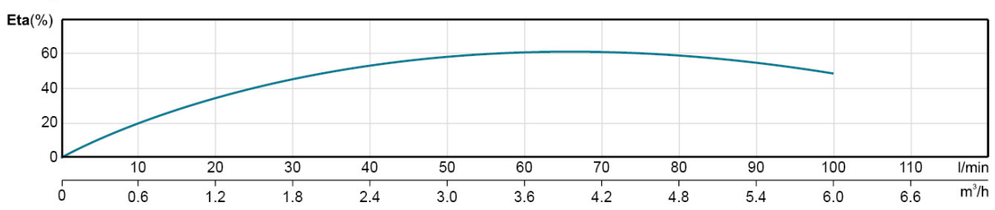


Technical Data

MODEL		P_2		DELIVERY n≈2850 1/min											
Single Phase	Three Phase	kW	HP	Q m³/h	0	1.5	1.8	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
				l/min	0	25	30	40	45	50	60	70	80	90	100
4LSTm-1805	4LST-1805	0.37	0.5	H(m)	31	28	27	25	24	23	21	17	13	9	3
4LSTm-1807	4LST-1807	0.55	0.75		45	42	41	38	36	35	31	27	20	13	6
4LSTm-1809	4LST-1809	0.75	1.0		58	53	52	49	46	45	40	34	26	17	8
4LSTm-1814	4LST-1814	1.1	1.5		91	83	82	77	72	70	63	53	41	27	12
4LSTm-1818	4LST-1818	1.5	2.0		117	107	104	98	93	89	80	67	54	35	15
4LSTm-1827	4LST-1827	2.2	3.0		175	160	156	147	141	133	120	101	81	53	25
-	4LST-1835	3	4.0		227	207	202	191	182	173	156	131	103	69	32
-	4LST-1848	4	5.5		309	284	277	260	247	237	213	180	141	95	44

4LST 25

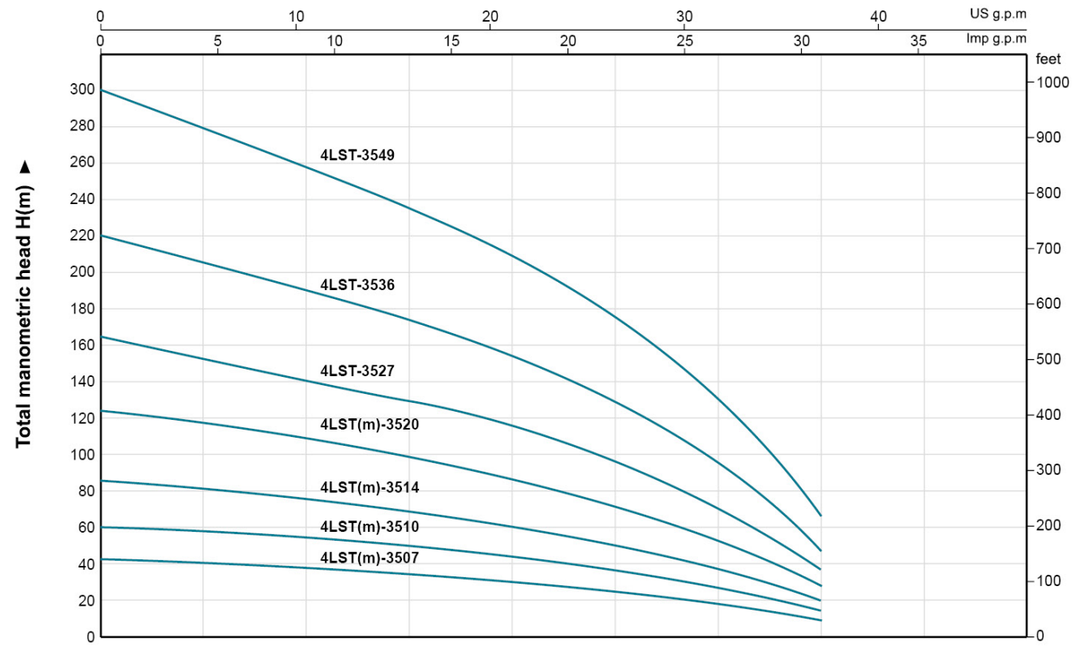


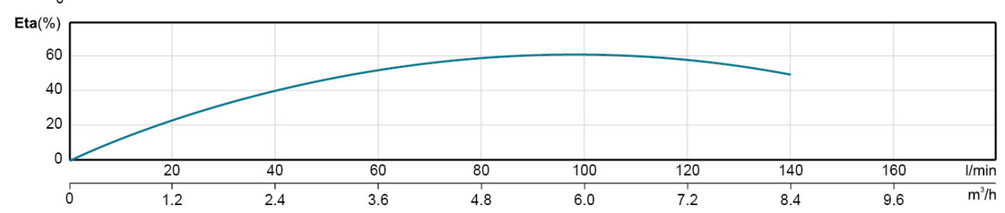


Technical Data

MODEL		P_2		DELIVERY n≈2850 1/min										
Single Phase	Three Phase	kW	HP	Q m³/h	0	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
				l/min	0	35	40	45	50	60	70	80	90	100
4LSTm-2504	4LST-2504	0.37	0.5	H(m)	25	23	22	22	21	20	18	16	13	7
4LSTm-2506	4LST-2506	0.55	0.75		37	34	34	33	32	30	26	24	20	12
4LSTm-2508	4LST-2508	0.75	1.0		50	46	45	44	43	40	35	32	26	18
4LSTm-2512	4LST-2512	1.1	1.5		74	69	67	66	64	59	53	47	39	30
4LSTm-2516	4LST-2516	1.5	2.0		99	92	90	88	85	79	70	62	52	40
4LSTm-2524	4LST-2524	2.2	3.0		149	139	135	132	129	119	108	94	78	60
-	4LST-2532	3	4.0		198	185	179	176	170	159	144	125	104	80
-	4LST-2544	4	5.5		272	253	243	241	233	216	198	172	143	110

4LST 35

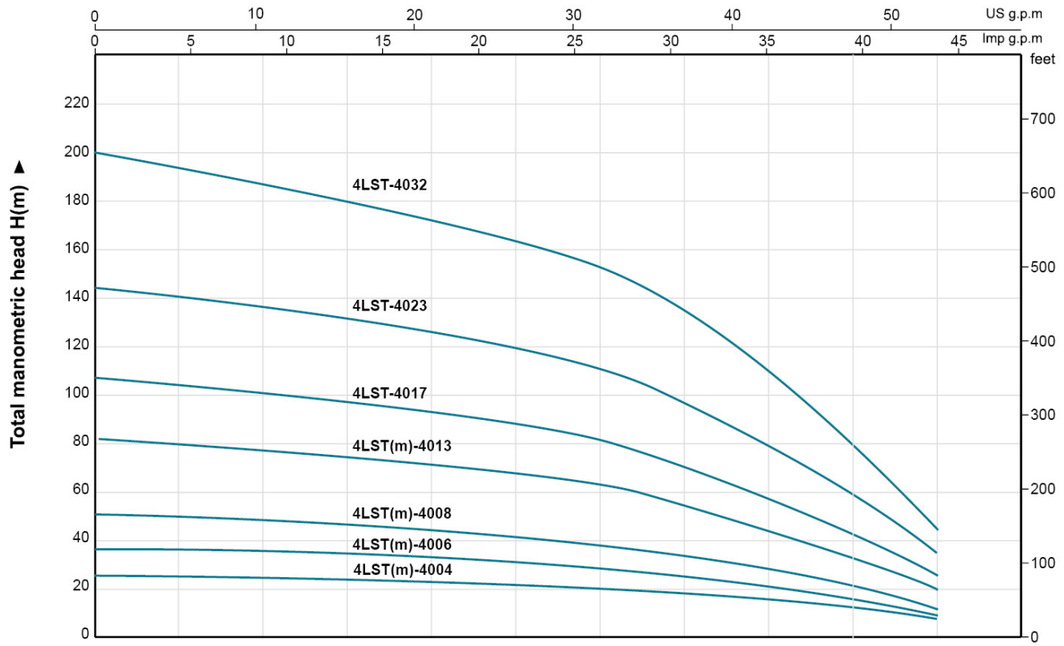


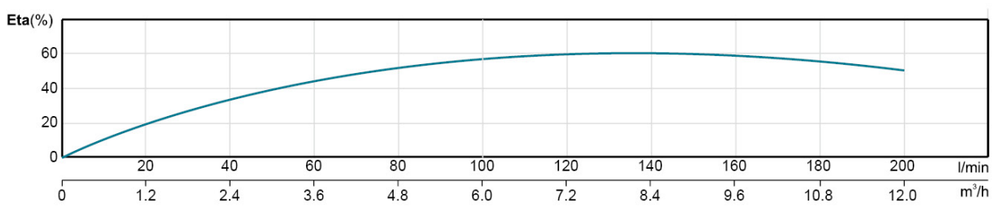


Technical Data

MODEL		P_2		DELIVERY n≈2850 1/min								
Single Phase	Three Phase	kW	HP	Q m³/h	0	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4
				l/min	0	50	60	70	80	90	100	120	140
4LSTm-3507	4LST-3507	0.75	1.0	H(m)	42	36	34	32	30	27	25	18	10
4LSTm-3510	4LST-3510	1.1	1.5		60	51	48	46	43	40	36	26	14
4LSTm-3514	4LST-3514	1.5	2.0		86	71	67	65	60	56	50	36	19
4LSTm-3520	4LST-3520	2.2	3.0		123	103	96	94	86	81	72	53	28
-	4LST-3527	3	4.0		165	136	129	126	116	109	96	70	36
-	4LST-3536	4	5.5		221	181	172	168	154	146	129	93	49
-	4LST-3549	5.5	7.5		301	246	234	228	210	199	175	127	67

4LST 40



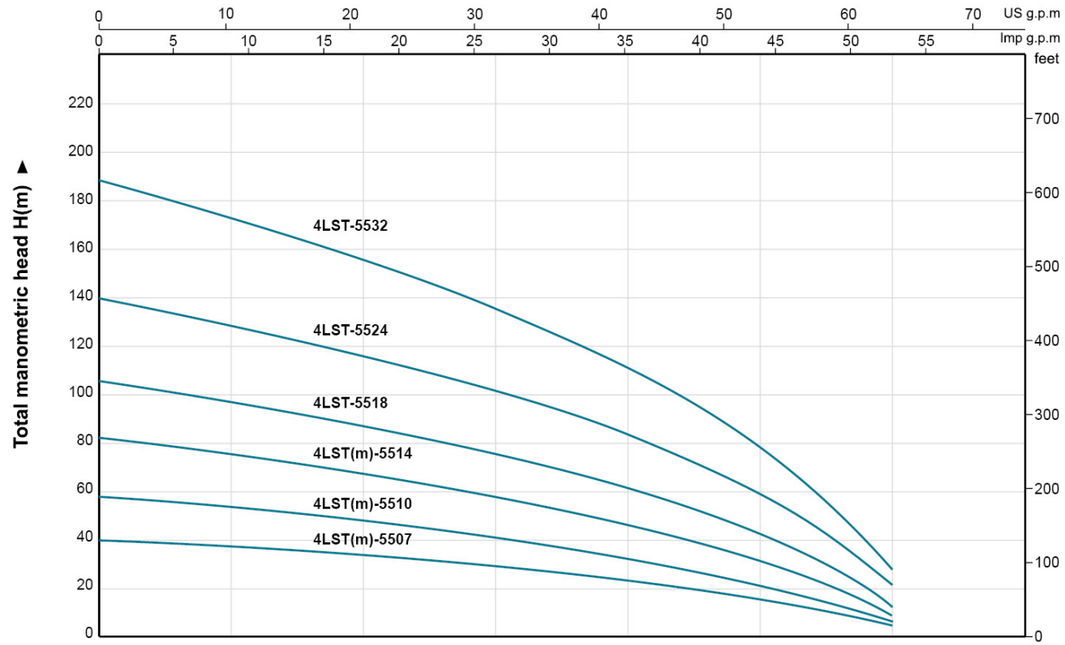


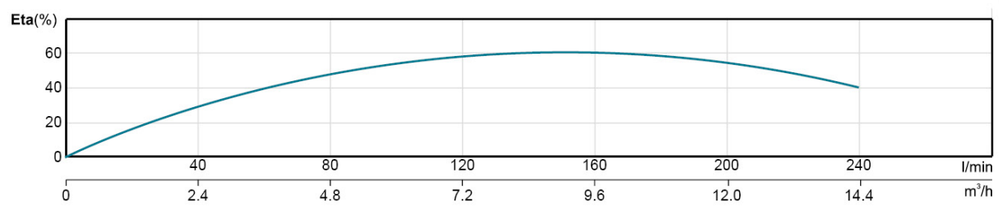
Capacity Q ►

Technical Data

MODEL		P_2			DELIVERY n≈2850 1/min								
Single Phase	Three Phase	kW	HP	Q m³/h	0	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12
				l/min	0	80	90	100	120	140	160	180	200
4LSTm-4004	4LST-4004	0.75	1.0	H(m)	25	22	21	21	19	17	13	11	6
4LSTm-4006	4LST-4006	1.1	1.5		37	33	32	31	29	25	20	16	9
4LSTm-4008	4LST-4008	1.5	2.0		50	44	43	41	38	34	27	21	12
4LSTm-4013	4LST-4013	2.2	3.0		82	71	69	67	62	54	43	34	19
-	4LST-4017	3	4.0		107	92	90	88	81	71	57	45	25
-	4LST-4023	4	5.5		144	124	123	120	110	96	77	61	35
-	4LST-4032	5.5	7.5		200	171	167	162	152	132	106	82	45

4LST 55



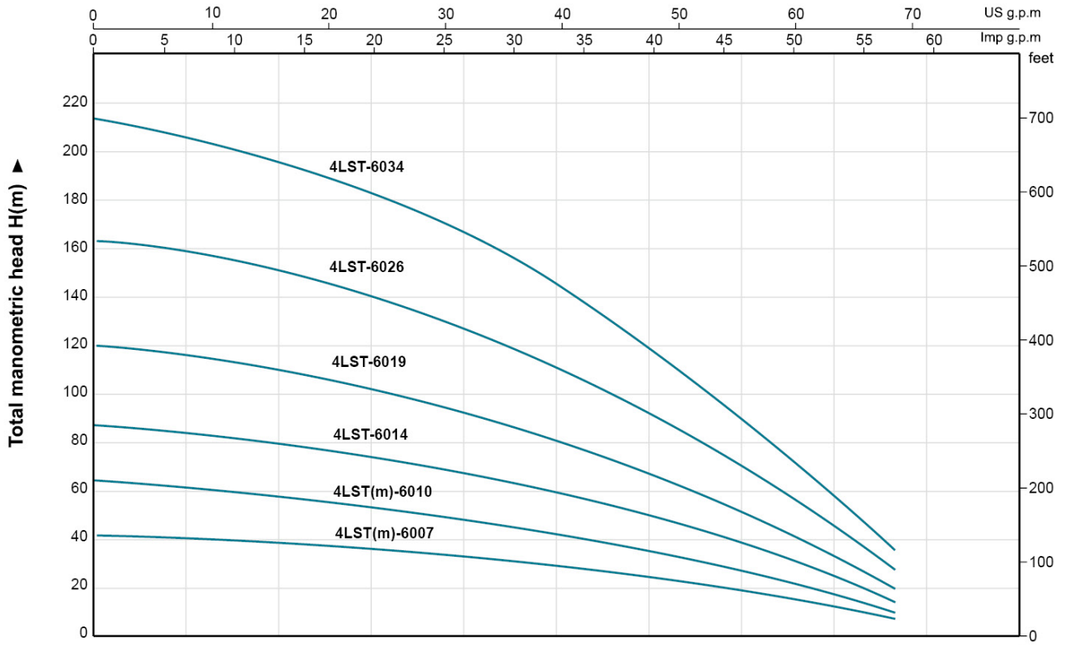


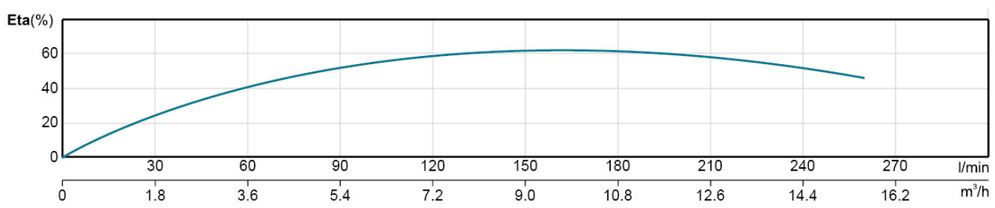
Capacity Q ►

Technical Data

MODEL		P_2			DELIVERY n≈2850 1/min									
Single Phase	Three Phase	kW	HP	Q m³/h	0	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4
				l/min	0	90	100	120	140	160	180	200	220	240
4LSTm-5507	4LST-5507	1.1	1.5	H(m)	40	32	31	28	25	22	19	14	10	4
4LSTm-5510	4LST-5510	1.5	2.0		58	45	44	40	35	32	27	20	15	6
4LSTm-5514	4LST-5514	2.2	3.0		81	64	62	58	52	46	40	31	21	9
-	4LST-5518	3	4.0		104	85	82	75	68	62	54	43	29	12
-	4LST-5524	4	5.5		139	114	109	101	92	83	73	58	41	21
-	4LST-5532	5.5	7.5		187	151	145	134	122	110	97	78	54	28

4LST 60

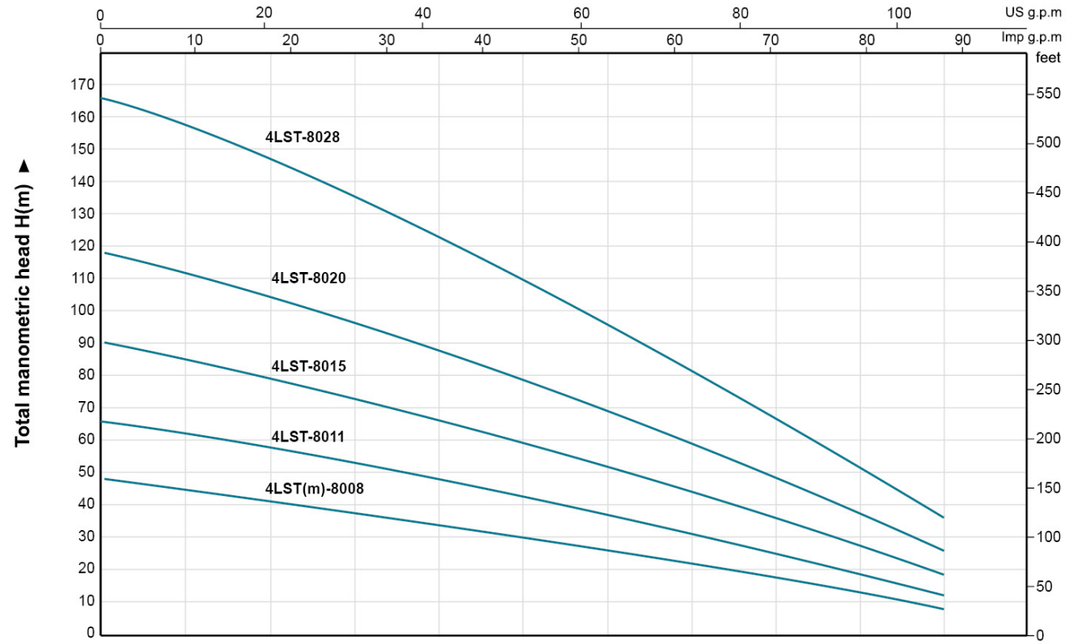


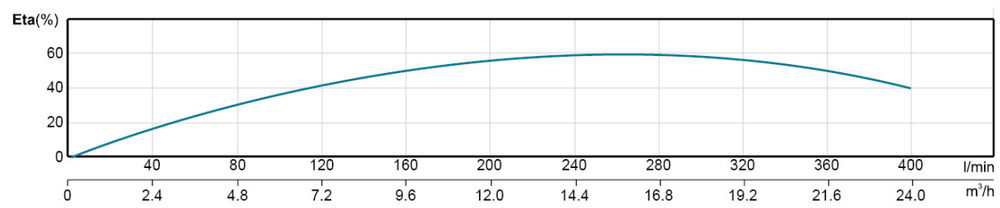


Technical Data

MODEL		P_2		DELIVERY n≈2850 1/min										
Single Phase	Three Phase	kW	HP	Q m³/h	0	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6
				l/min	0	100	120	140	160	180	200	220	240	260
4LSTm-6007	4LST-6007	1.5	2.0	H(m)	43	35	33	31	27	24	20	15	11	7
4LSTm-6010	4LST-6010	2.2	3.0		63	50	49	45	40	35	30	22	17	10
-	4LST-6014	3	4.0		87	70	68	63	56	48	41	32	24	15
-	4LST-6019	4	5.5		120	98	93	86	76	66	56	45	33	20
-	4LST-6026	5.5	7.5		163	134	127	117	104	90	77	62	45	27
-	4LST-6034	7.5	10		213	175	166	153	136	117	100	81	59	35

4LST 80





Technical Data

MODEL		P_2		DELIVERY n≈2850 1/min										
Single Phase	Three Phase	kW	HP	Q m³/h	0	8.4	10.8	13.2	14.4	15.6	18	19.2	21.6	24
				l/min	0	140	180	220	240	260	300	320	340	400
4LSTm-8008	4LST-8008	2.2	3.0	H(m)	48	37	33	29	27	26	21	19	14	9
-	4LST-8011	3	4.0		66	52	46	40	37	35	29	27	20	13
-	4LST-8015	4	5.5		90	70	62	55	51	48	40	37	29	19
-	4LST-8020	5.5	7.5		118	93	83	73	68	64	53	49	39	26
-	4LST-8028	7.5	10		165	130	116	102	95	89	74	68	54	36