

Application

- It is applicable to household water supply, equipment support, pipeline pressurization, garden watering, vegetable greenhouse watering, fish farming and poultry raising, industrial and mining, water supply and drainage of enterprises and high-rise buildings, central air conditioner and centralized heating circulation system, etc

Pump

- AISI 304 shaft
- Max. liquid temperature: +60°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operation pressure: 10 bar
- Liquid PH Value: 6.5 - 8.5

Motor

- IE2 motor
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: IPX4
- Max. ambient temperature: +40°C

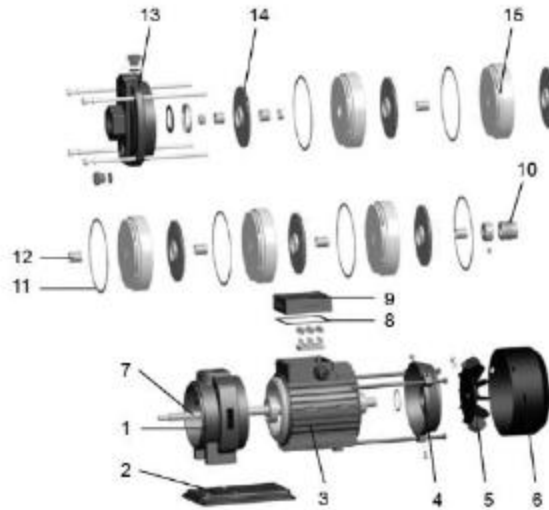
Identification Codes

ECH (m) 2 - 20 - F

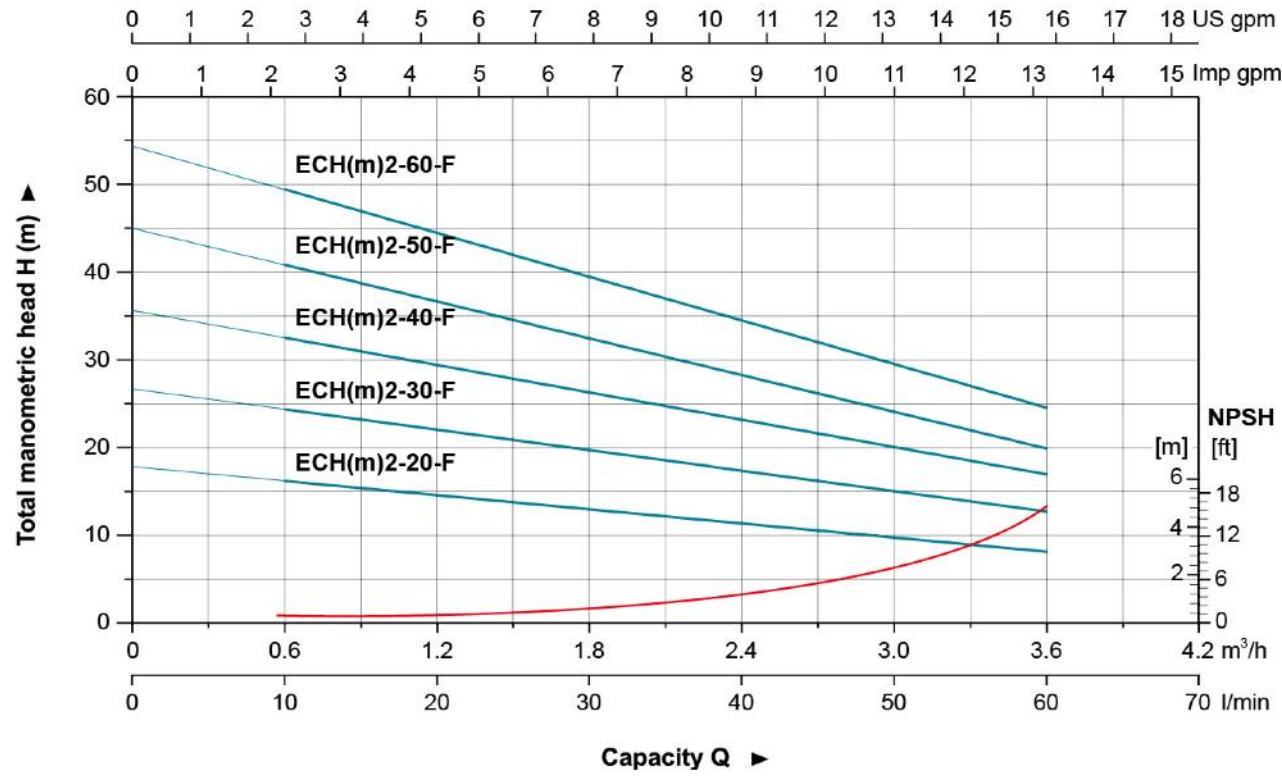


Materials Table

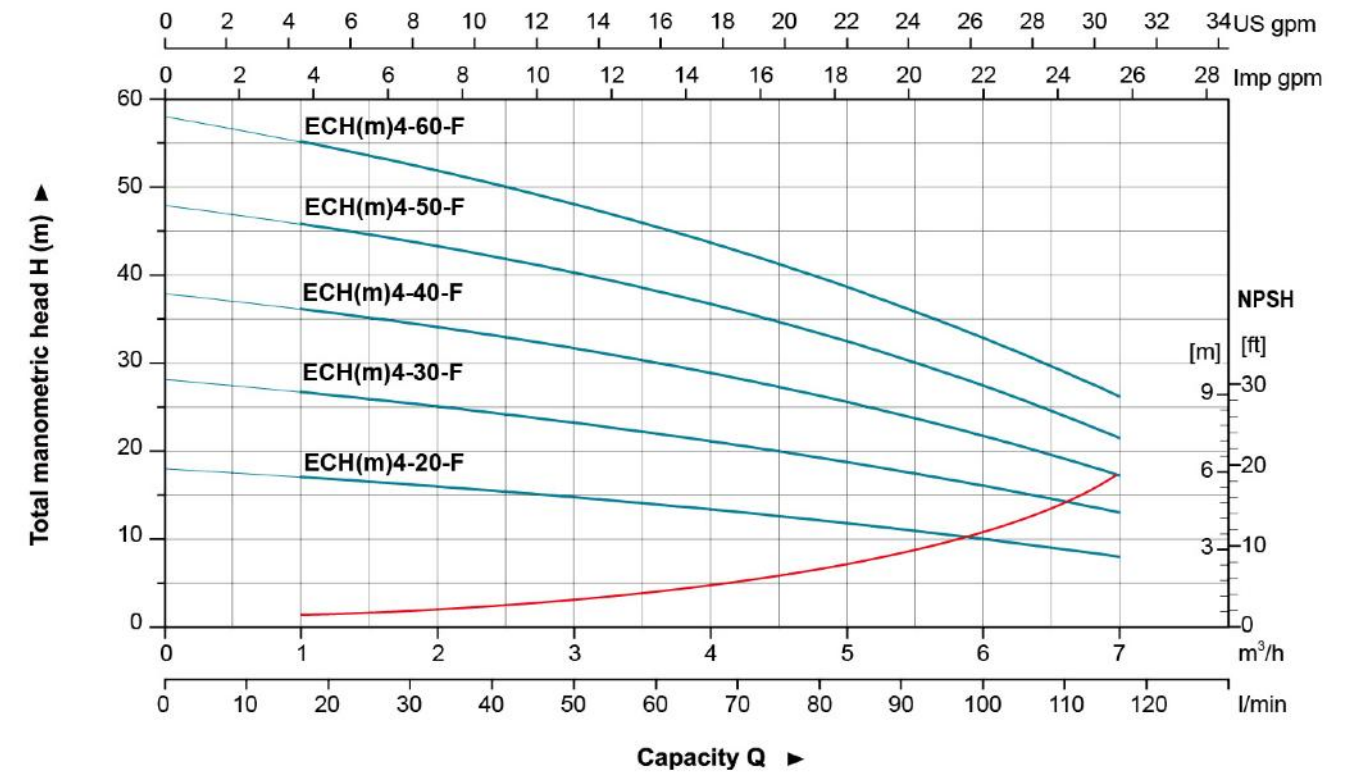
No.	Part	Material
1	Support	Cast iron
2	Base	Q235
3	Stator	ZL 102
4	Rotor	ZL 102
5	Fan	PP-GF15
6	Fan cover	DBF
7	Rotor	
8	O-ring	NBR
9	Terminal Box	PP-GF20
10	Mechanical seal	Sic/Carbon
11	O-ring	NBR
12	Sleeve	AISI 304
13	Pump body	HT200
14	Impeller	AISI 304
15	Diffuser	AISI 304



Hydraulic Performance Curves



Hydraulic Performance Curves



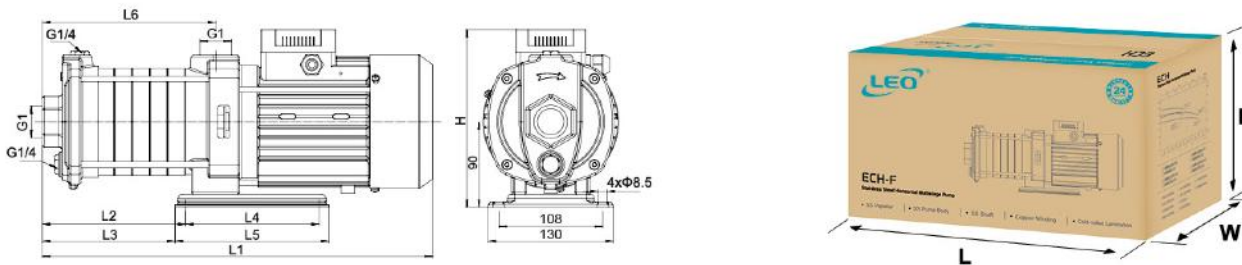
Technical Data

Model	Power		Q (m³/h) Q (l/min)	0	0.6	1.2	1.8	2.4	3.0	3.6
	kW	HP		H (m)	0	10	20	30	40	50
ECH(m)2-20-F	0.37	0.5	H (m)	18	16	15	13	12	10	8
ECH(m)2-30-F	0.37	0.5		27	24	22	20	18	16	12
ECH(m)2-40-F	0.55	0.75		35	33	30	26	24	21	16
ECH(m)2-50-F	0.55	0.75		45	40	37	33	30	24	19
ECH(m)2-60-F	0.75	1.0		53	50	45	40	36	30	23

Technical Data

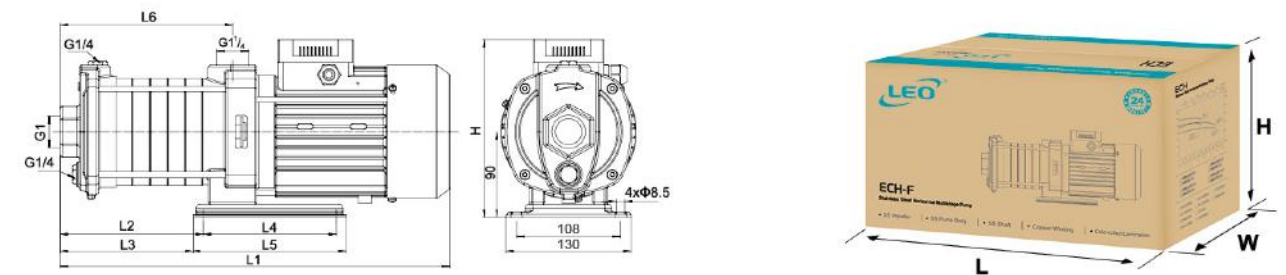
Model	Power		Q (m³/h) Q (l/min)	0	1	2	3	4	5	6	7
	kW	HP		H (m)	0	17	33	50	67	83	100
ECH(m)4-20-F	0.55	0.75	H (m)	18	17	16	15	13	12	10	8
ECH(m)4-30-F	0.55	0.75		28	27	25	23	21	19	16	13
ECH(m)4-40-F	0.75	1.0		38	36	34	32	28	26	22	17
ECH(m)4-50-F	1.1	1.5		48	46	43	40	36	33	28	21
ECH(m)4-60-F	1.1	1.5		58	55	52	48	43	39	33	26

Dimension



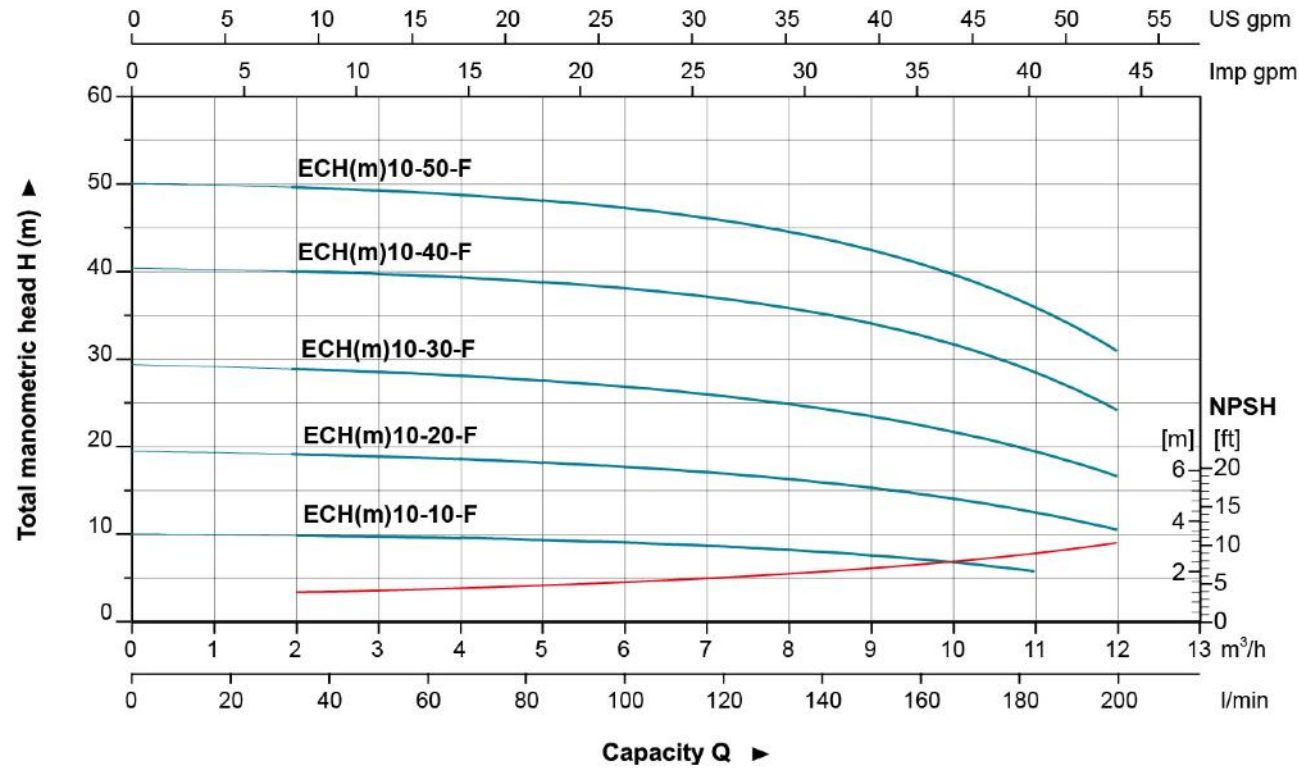
Model	L1	L2	L3	L4	L5	L6	H		GW (Kgs)	L x W x H (mm)	Quantity (PCS/20'TEU)
							1~	3~			
ECH(m)2-20-F	333	75	64	138	160	103.5	197.5	187	12.3	400x205x240	1386
ECH(m)2-30-F	352	93.5	82.5	138	160	122	197.5	187	12.6	400x205x240	1260
ECH(m)2-40-F	370	112	101	138	160	140.5	197.5	187	13.3	400x205x240	1386
ECH(m)2-50-F	389	130.5	119.5	138	160	159	197.5	187	13.8	400x205x240	1260
ECH(m)2-60-F	407	149	138	138	160	177.5	197.5	187	14.7	400x205x240	1161

Dimension



Model	L1	L2	L3	L4	L5	L6	H		GW (Kgs)	L x W x H (mm)	Quantity (PCS/20'TEU)
							1~	3~			
ECH(m)4-20-F	342	85.5	74.5	138	160	114	197.5	187	12.8	400x205x240	1386
ECH(m)4-30-F	370	113	102	138	160	141.5	197.5	187	13	400x205x240	1386
ECH(m)4-40-F	398	140.5	129.5	138	160	169	197.5	187	14.9	455x205x240	1260
ECH(m)4-50-F	426	168	157	138	160	196.5	197.5	187	15.7	455x205x240	1260
ECH(m)4-60-F	453	195.5	184.5	138	160	224	197.5	187	15.9	485x205x240	1161

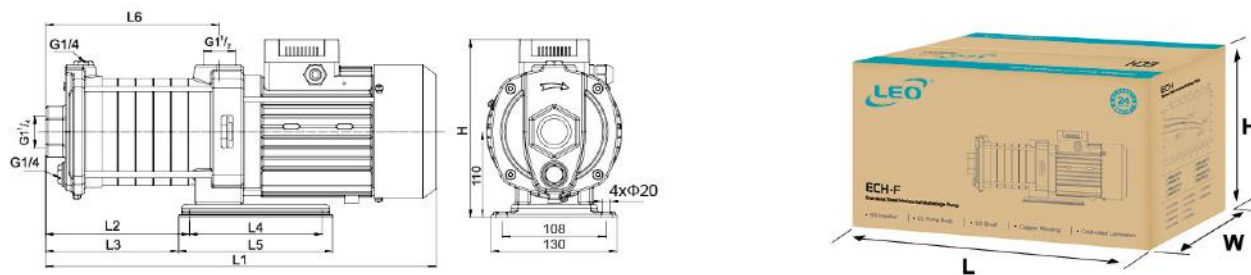
Hydraulic Performance Curves



Technical Data

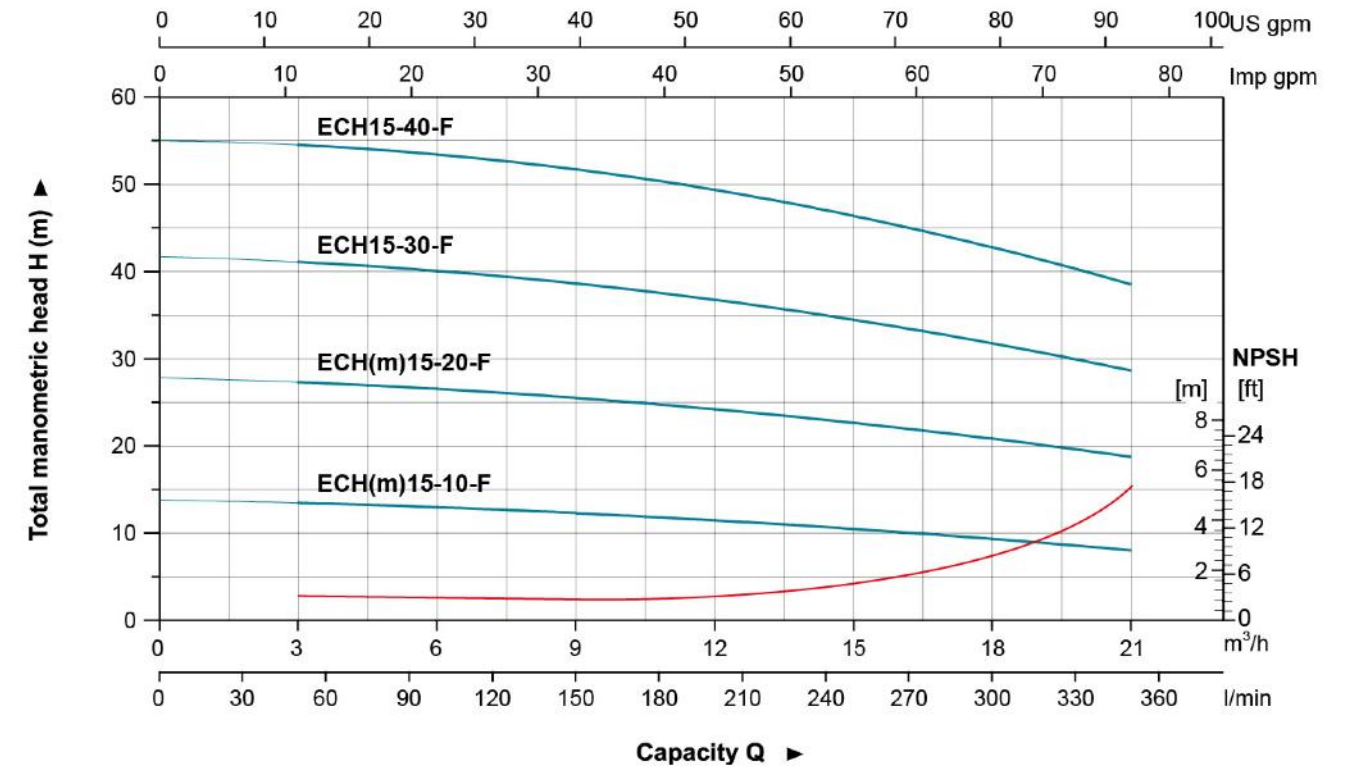
Model	Power		Q(m³/h) Q(l/min)	H (m)																				
	kW	HP		0	2	4	6	7	8	9	10	11	12											
ECH(m)10-10-F	0.75	1.0	10.1	9.8	9.6	9.1	8.7	8.2	7.7	6.8	5.8	-												
ECH(m)10-20-F	0.75	1.0	19.5	19	18.7	17.9	17.1	16.3	15.3	14	12.5	10.6												
ECH(m)10-30-F	1.1	1.5	29.3	28.6	28.3	27.1	26.3	24.9	23.4	21.4	19.3	16.9												
ECH(m)10-40-F	1.5	2.0	38.1	39.6	39.8	38.6	37.6	35.9	33.9	31.2	28.2	24.6												
ECH(m)10-50-F	2.2	3.0	49.9	49.2	49.1	47.8	46.4	44.4	42.2	39.5	35.9	31.1												

Dimension



Model	L1	L2	L3	L4	L5	L6	H		GW (Kgs)	L x W x H (mm)	Quantity (PCS/20' TEU)
							1~	3~			
ECH(m)10-10-F	398	122	111	138	170	120	232.5	226	21.5	435x275x310	896
ECH(m)10-20-F	398	122	111	138	170	120	232.5	226	21.9	435x275x310	896
ECH(m)10-30-F	428	152	141	138	170	150	232.5	226	24.3	465x275x310	756
ECH(m)10-40-F	530	194	183	138	170	187	236	230	26.1	575x275x310	686
ECH(m)10-50-F	560	224	213	138	170	217	242	230	30.4	605x275x310	637

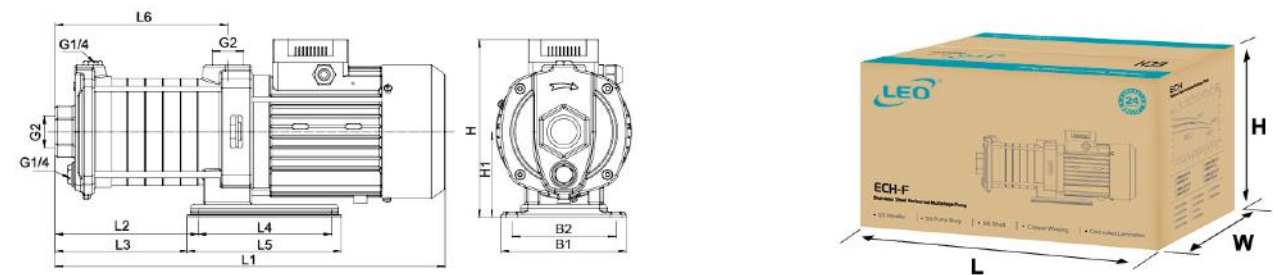
Hydraulic Performance Curves



Technical Data

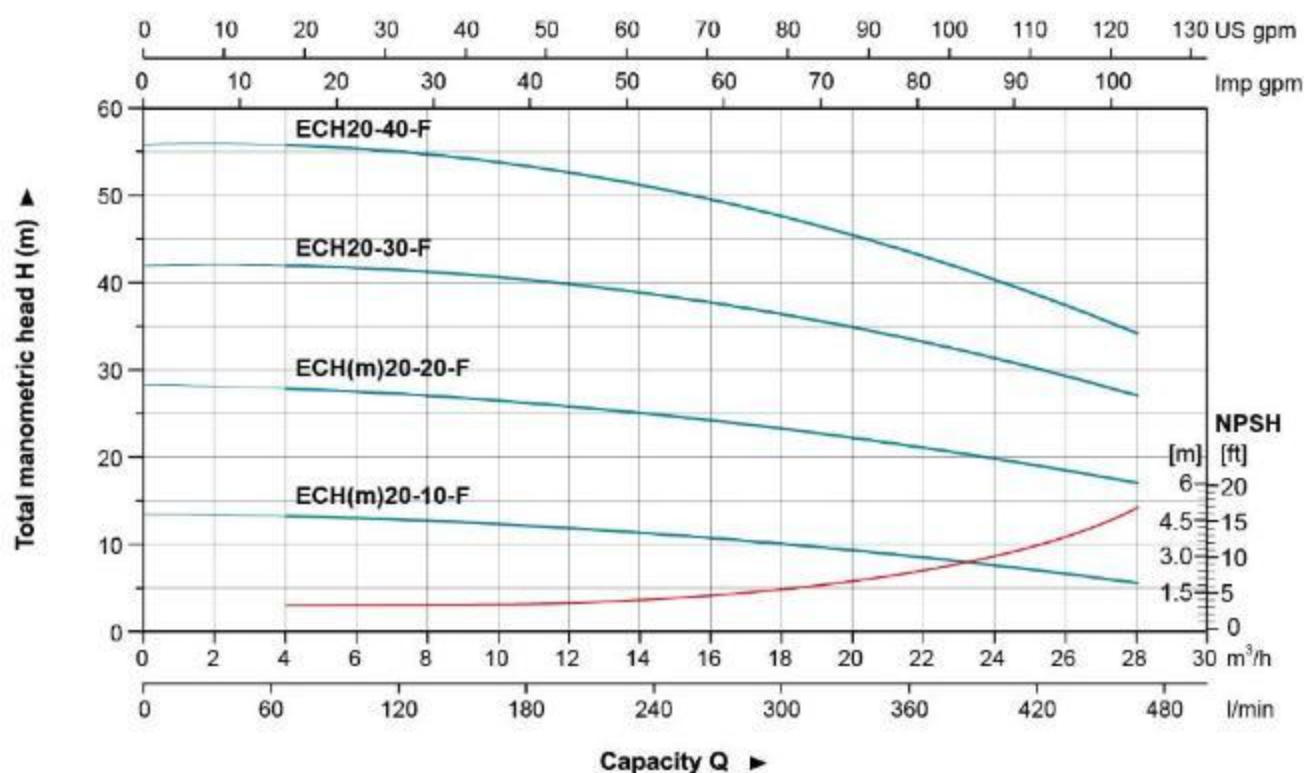
Model	Power		Q(m³/h) Q(l/min)	H (m)																			
	kW	HP		0	3	6	9	12	15	18	21												
ECH(m)15-10-F	1.1	1.5	13.9	13.5	13.1	12.4	11.6	10.6	9.4	8.2													
ECH(m)15-20-F	2.2	3	27.8	27.5	26.7	25.6	24.1	22.7	21.1	18.8													
ECH(m)15-30-F	3.0	4	42.1	40.9	39.8	38.7	36.9	34.9	31.9	28.5													
ECH(m)15-40-F	4.0	5.0	55.5	54.3	52.8	51.8	49.7	46.8	42.9	38.3													

Dimension



Model	L1	L2	L3	L4	L5	L6	B1	B2	H		H1	GW (Kgs)	L x W x H (mm)	Quantity (PCS/20' TEU)
									1~	3~				
ECH(m)15-10-F	419	142	131	138	170	142	130	108	232.5	226	110	23	465x275x310	756
ECH(m)15-20-F	485	149	138	138	170	142	130	108	242	230	110	29.2	530x275x310	696
ECH(m)15-30-F	546	192	190	190	230	185	180	140	-	250	120	34.5	590x275x310	539
ECH(m)15-40-F	591	237	217	190	230	230	180	140	-	250	120	46.5	635x275x310	430

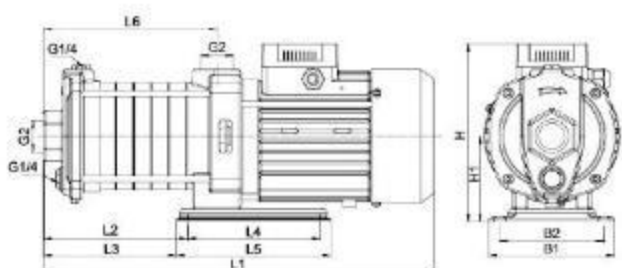
Hydraulic Performance Curves



Technical Data

Model	Power		Q(m³/h) Q(l/min)	0	4	8	12	16	20	24	28
	kW	HP		H (m)							
ECH(m)20-10-F	1.1	1.5		13.6	13.3	12.8	12.1	10.8	9.5	7.8	5.7
ECH(m)20-20-F	2.2	3		28.5	27.8	27.0	26.1	24.4	22.4	19.8	17.2
ECH20-30-F	4.0	5.0		42.5	41.6	40.9	39.9	38.0	35.5	31.4	26.9
ECH20-40-F	4.0	5.0		56.6	55.2	54.2	52.7	50.1	45.9	40.3	34.0

Dimension



Model	L1	L2	L3	L4	L5	L6	B1	B2	H		H1	GW (Kg)	L x W x H (mm)	Quantity (PCS/20' TEU)
									1~	3~				
ECH(m)20-10-F	419	142	131	138	170	142	130	108	232.5	226	110	23	465x275x310	756
ECH(m)20-20-F	485	149	138	138	170	142	130	108	242	230	110	29.2	530x275x310	696
ECH20-30-F	546	192	190	190	230	185	180	140	-	250	120	37.3	590x275x310	538
ECH20-40-F	591	237	217	190	230	230	180	140	-	250	120	46.5	635x275x310	430