



ECH



ECHS

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

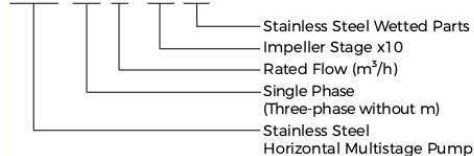
- AISI 304 shaft
- Max. liquid temperature: +85°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operating pressure: 10 bar
- Liquid PH Value: 4-10

Motor

- IE2 motor (IE3 motor available on request)
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Enclosures class: IP55
- Max ambient temperature: +40°C

Identification Codes

ECH (m) 2 - 20 (S)



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

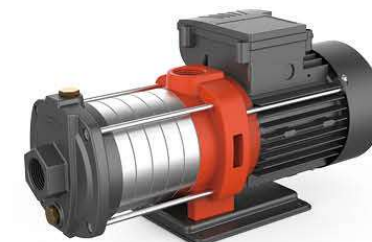
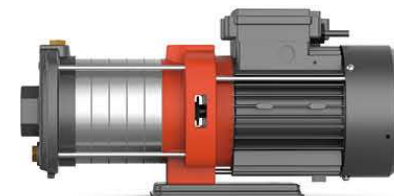
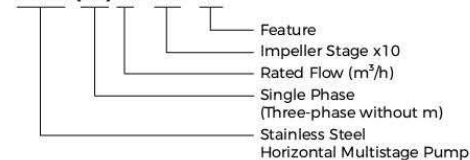
- AISI 304 shaft
- Max. liquid temperature: +60°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operating pressure: 10 bar
- Liquid PH Value: 6.5 - 8.5

Motor

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

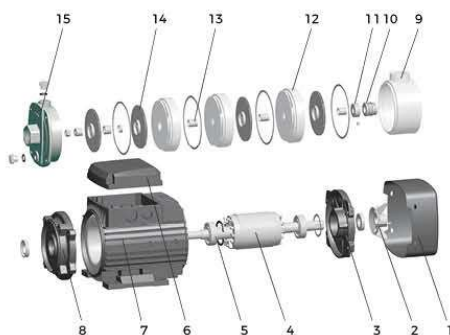
Identification Codes

ECH (m) 2 - 20 - F



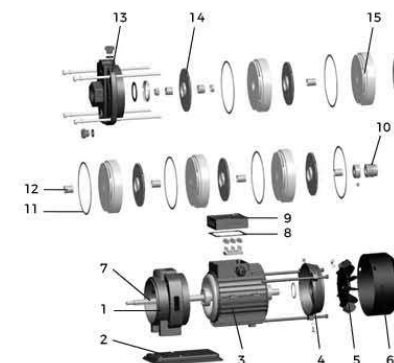
Material Table

No.	Part	Material
1	Fan cover	08F
2	Fan	PP
3	Rear cover	ZL 102
4	Rotor	
5	Bearing	
6	Terminal box	ZL 102
7	Stator	
8	Front cover	Cast iron
9	Outlet body	Cast iron/AISI 304
10	Mechanical seal	Sic/Carbon
11	Positioning sleeve	AISI 304
12	Diffuser	AISI 304
13	Sleeve	AISI 304
14	Impeller	AISI 304
15	Pump body	Cast iron/AISI 304

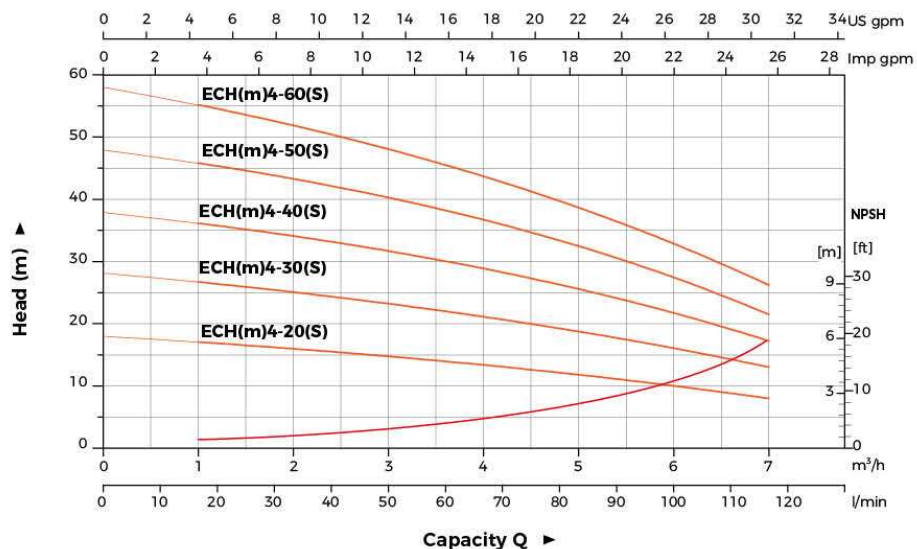


Material Table

No.	Part	Material
1	Support	Cast iron
2	Base	Q235
3	Stator	ZL 102
4	Rear	ZL 102
5	Fan	PP-GF15
6	Fan cover	08F
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



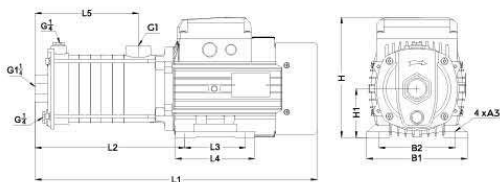
Hydraulic Performance Curves



Technical Data

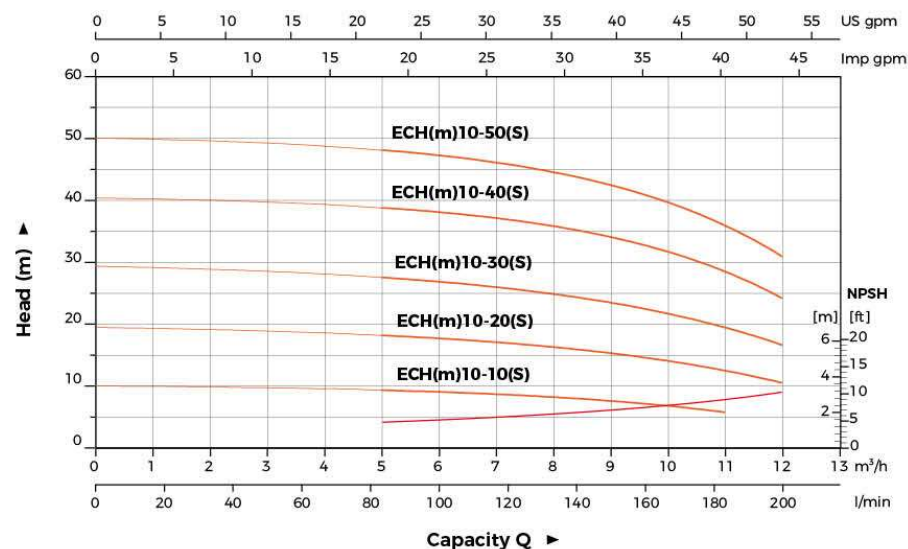
Model	Power		Q(m³/h) Q(l/min)	1	2	3	4	5	6	7
	kW	HP		17	33	50	67	83	100	117
ECH(m)4-20(S)	0.55	0.75	H (m)	17	16	15	13	12	10	8
ECH(m)4-30(S)	0.55	0.75		27	25	23	21	19	16	13
ECH(m)4-40(S)	0.75	1.0		36	34	32	28	26	22	17
ECH(m)4-50(S)	1.1	1.5		46	43	40	36	33	28	21
ECH(m)4-60(S)	1.1	1.5		55	52	48	43	39	33	26

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	GW(Kgs)		L x W x H (mm)	Quantity (PCS/20 TEU)
											1~	3~		
ECH(m)4-20(S)	354	175.5	90	110	108.5	137	112	176.5	71	Φ7	13.1	12.65	420x215x222	1215
ECH(m)4-30(S)	381.5	203	90	110	136	137	112	176.5	71	Φ7	13.58	13.13	420x215x222	1215
ECH(m)4-40(S)	408.5	230	90	110	163	137	112	176.5	71	Φ7	14.75	14.51	455x215x222	1170
ECH(m)4-50(S)	484	266	100	130	190	165	125	204.5	80	Φ10	21.47	19.05	548x235x247	800
ECH(m)4-60(S)	511.5	293.5	100	130	217.5	165	125	204.5	80	Φ10	21.95	19.43	548x235x247	800

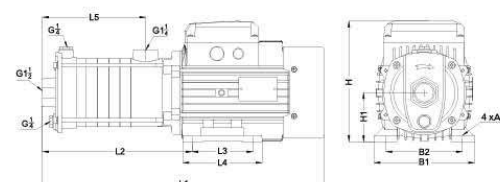
Hydraulic Performance Curves



Technical Data

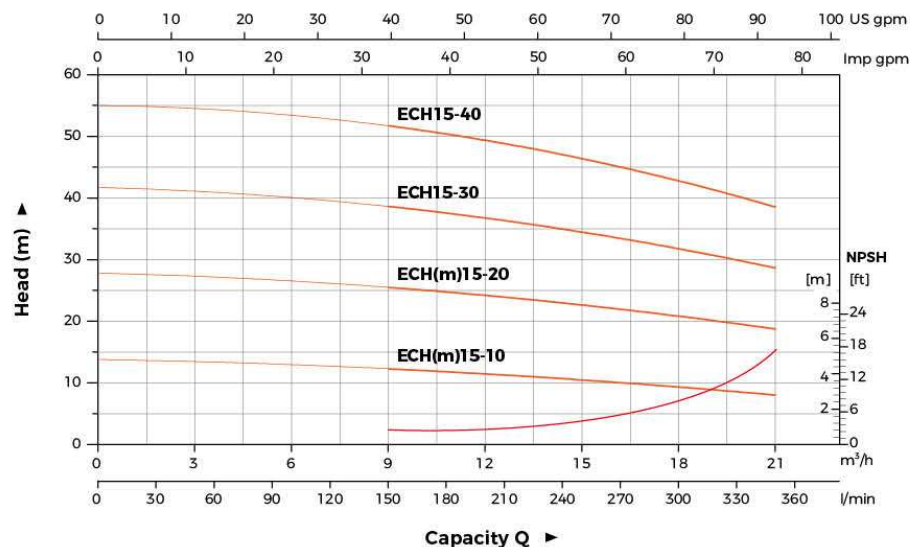
Model	Power		Q(m³/h) Q(l/min)	6	7	8	9	10	11	12
	kW	HP		100	117	133	150	167	183	200
ECH(m)10-10(S)	0.75	1.0	H (m)	9.1	8.7	8.2	7.7	6.8	5.8	5.1
ECH(m)10-20(S)	0.75	1.0		17.9	17.1	16.3	15.3	14	12.5	10.6
ECH(m)10-30(S)	1.1	1.5		27.1	26.3	24.9	23.4	21.4	19.3	16.9
ECH(m)10-40(S)	1.5	2.0		38.6	37.6	35.9	33.9	31.2	28.2	24.6
ECH(m)10-50(S)	2.2	3.0		47.8	46.4	44.4	42.2	39.5	35.9	31.1

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	GW(Kgs)		L x W x H (mm)	Quantity (PCS/20 TEU)
											1~	3~		
ECH(m)10-10(S)	430	212	100	130	121	165	125	204.5	80	Φ10	20.75	18.15	503x235x247	856
ECH(m)10-20(S)	430	212	100	130	121	165	125	204.5	80	Φ10	20.85	18.25	503x235x247	856
ECH(m)10-30(S)	460.5	242.5	100	130	151.5	165	125	204.5	80	Φ10	21.95	20.56	503x235x247	856
ECH(m)10-40(S)	549.5	261.5	125	150	182	180	140	217.5	90	Φ10	28.25	27.9	618x245x262	653
ECH(m)10-50(S)	579.5	291.5	125	150	212	180	140	217.5	90	Φ10	30.6	30.42	618x245x262	653

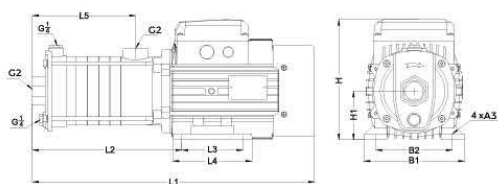
Hydraulic Performance Curves



Technical Data

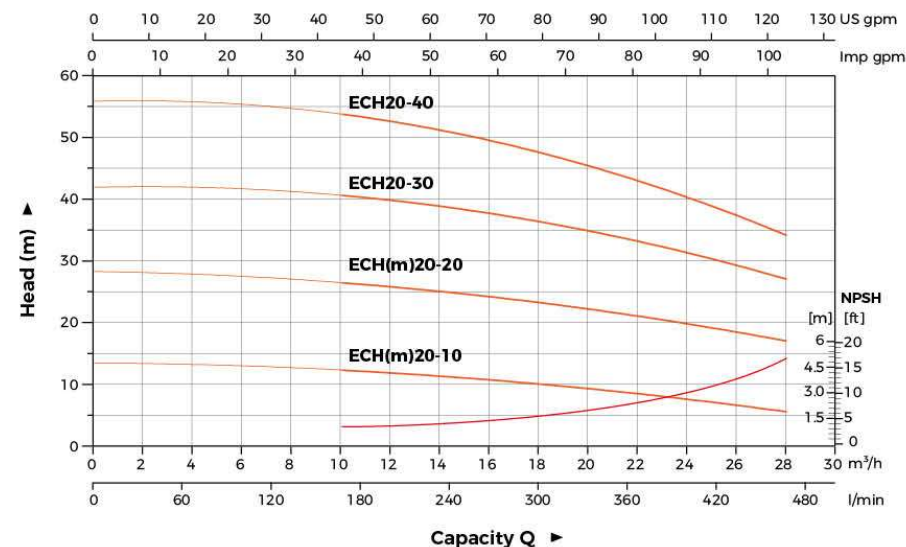
Model	Power		Q(m³/h) Q(l/min)	9	12	15	18	21
	kW	HP		150	200	250	300	350
ECH(m)15-10	1.1	1.5	H (m)	12.4	11.6	10.6	9.4	8.2
ECH(m)15-20	2.2	3.0		25.6	24.1	22.7	21.1	18.8
ECH15-30	3.0	4.0		38.7	36.9	34.9	31.9	28.5
ECH15-40	4.0	5.5		51.8	49.7	46.8	42.9	38.3

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	CW(Kgs)		L x W x H (mm)	Quantity (PCS/20 TEU)
											1-	3-		
ECH(m)15-10	451	233.5	100	130	139.5	165	125	204.5	80	Φ10	22.67	20.27	503x235x247	856
ECH(m)15-20	510	222	125	150	139.5	180	140	217.5	90	Φ10	30.31	29.62	557x245x262	659
ECH15-30	560	272	125	150	184.5	180	140	217.5	90	Φ10	/	32.22	618x245x262	620
ECH15-40	616	336.5	140	180	230	205	160	224.5	100	Φ12	/	39.61	687x245x269	504

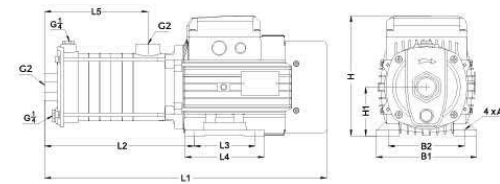
Hydraulic Performance Curves



Technical Data

Model	Power		Q(m³/h) Q(l/min)	12	16	20	24	28
	kW	HP		200	267	333	400	467
ECH(m)20-10	1.1	1.5	H (m)	12.1	10.8	9.5	7.8	5.7
ECH(m)20-20	2.2	3.0		26.1	24.4	22.4	19.8	17.2
ECH20-30	4.0	5.5		39.9	38.0	35.5	31.4	26.9
ECH20-40	4.0	5.5		52.7	50.1	45.9	40.3	34.0

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	CW(Kgs)		L x W x H (mm)	Quantity (PCS/20 TEU)
											1-	3-		
ECH(m)20-10	451	233.5	100	130	139.5	165	125	204.5	80	Φ10	22.67	20.27	503x235x247	856
ECH(m)20-20	510	222	125	150	139.5	180	140	217.5	90	Φ10	30.31	29.62	557x245x262	659
ECH20-30	570.5	291	140	180	184.5	205	160	224.5	100	Φ12	/	38.94	687x245x269	513
ECH20-40	616	336.5	140	180	230	205	160	224.5	100	Φ12	/	39.61	687x245x269	504