



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

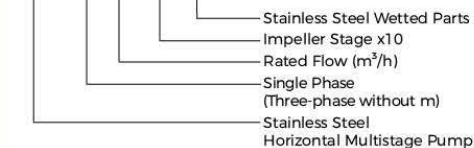
- AISI 304 shaft
- Max. liquid temperature: +85°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operating pressure: 10 bar
- Liquid PH Value: 4-10

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)



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Pump

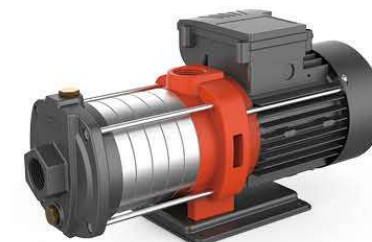
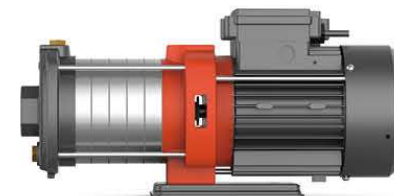
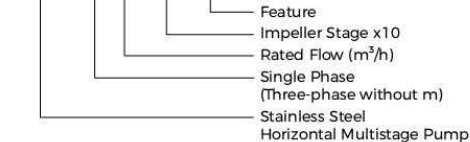
- AISI 304 shaft
- Max. liquid temperature: +60°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operating pressure: 10 bar
- Liquid PH Value: 6.5 - 8.5

Motor

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

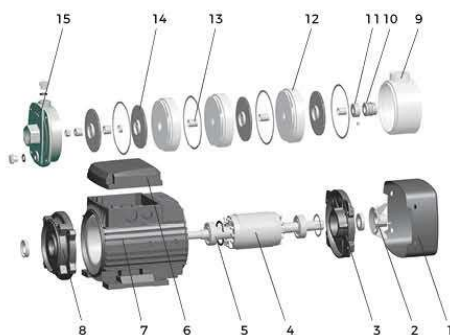
Identification Codes

ECH (m) 2 - 20 - F



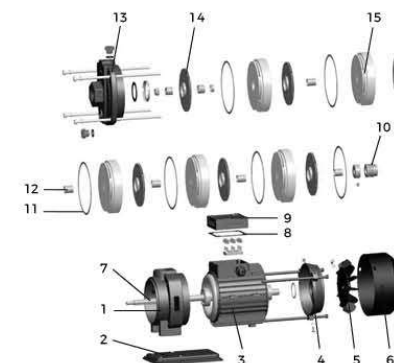
Material Table

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

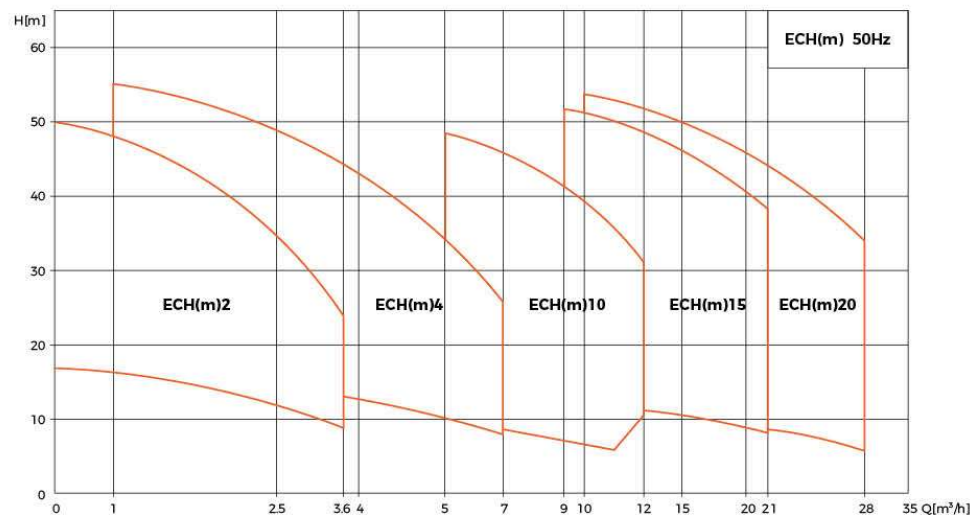


Material Table

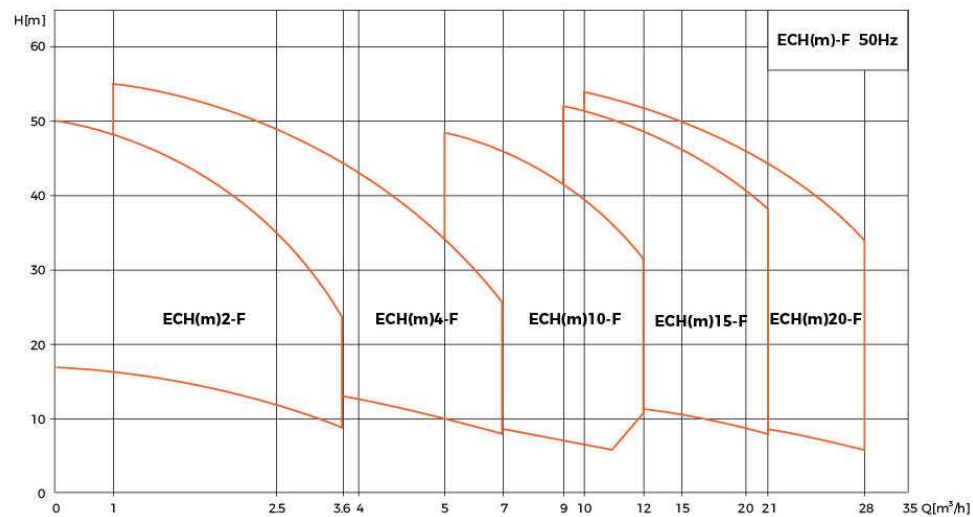
No.	Part	Material
1	Support	Cast iron
2	Base	Q235
3	Stator	ZL 102
4	Rear	ZL 102
5	Fan	PP-GF15
6	Fan cover	08F
7	Rotor	
8	O-ring	NBR
9	Terminal Box	PP-GF20
10	Mechanical seal	Sic/Carbon
11	O-ring	NBR
12	Sleeve	AISI 304
13	Pump body	HT200
14	Impeller	AISI 304
15	Diffuser	AISI 304



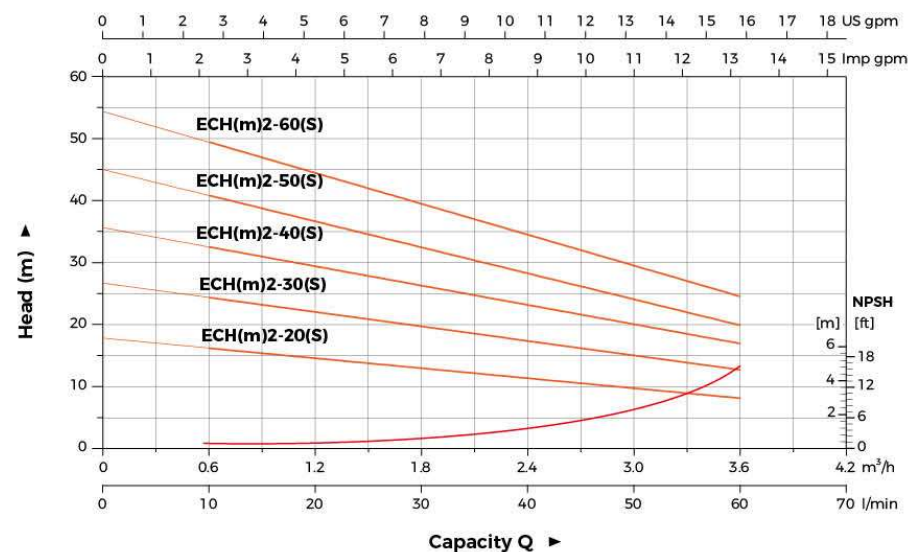
Scope of Performance - ECH



Scope of Performance - ECH-F



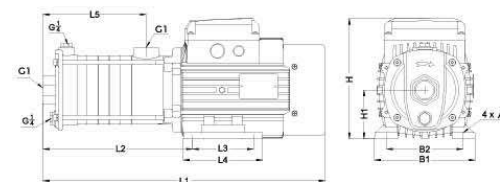
Hydraulic Performance Curves



Technical Data

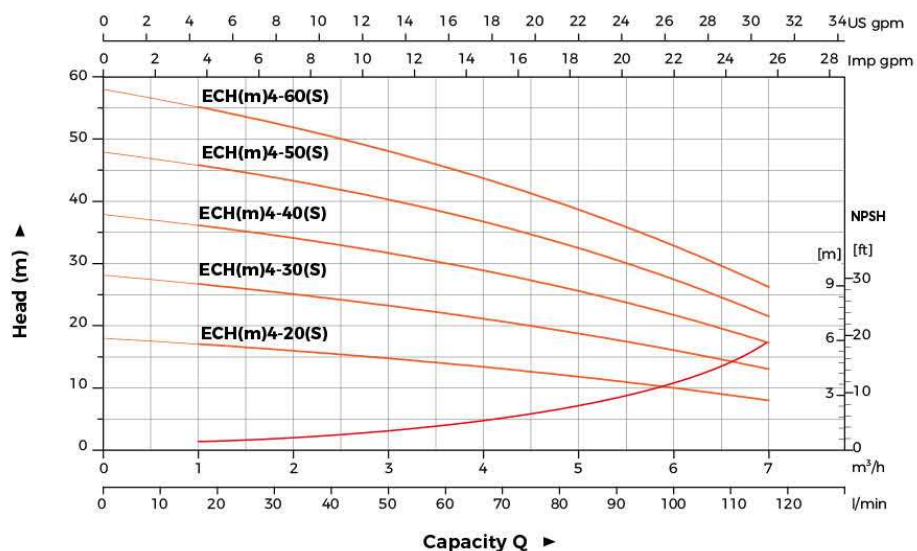
Model	Power		Q(m³/h) Q(l/min)	0.6	1.2	1.8	2.5	3.0	3.6
	kW	HP		10	20	30	40	50	60
ECH(m)2-20(S)	0.37	0.5	H (m)	16	15	13	12	10	8
ECH(m)2-30(S)	0.37	0.5		24	22	20	18	16	12
ECH(m)2-40(S)	0.55	0.75		33	30	26	24	21	16
ECH(m)2-50(S)	0.55	0.75		40	37	33	30	24	19
ECH(m)2-60(S)	0.75	1.0		50	45	40	36	30	23

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)2-20(S)	344.5	165.5	90	110	98.5	137	112	176.5	71	Φ7	11.46	10.96	420x215x222	1215
ECH(m)2-30(S)	362.5	183.5	90	110	116.5	137	112	176.5	71	Φ7	11.82	11.32	420x215x222	1215
ECH(m)2-40(S)	380.5	201.5	90	100	134.5	137	112	176.5	71	Φ7	13.24	12.77	420x215x222	1215
ECH(m)2-50(S)	399.5	220.5	90	110	153.5	137	112	176.5	71	Φ7	13.69	13.22	455x215x222	1170
ECH(m)2-60(S)	417.5	238.5	90	110	171.5	137	112	176.5	71	Φ7	14.6	14.35	455x215x222	1170

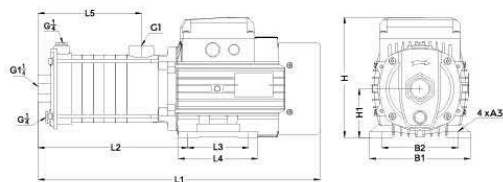
Hydraulic Performance Curves



Technical Data

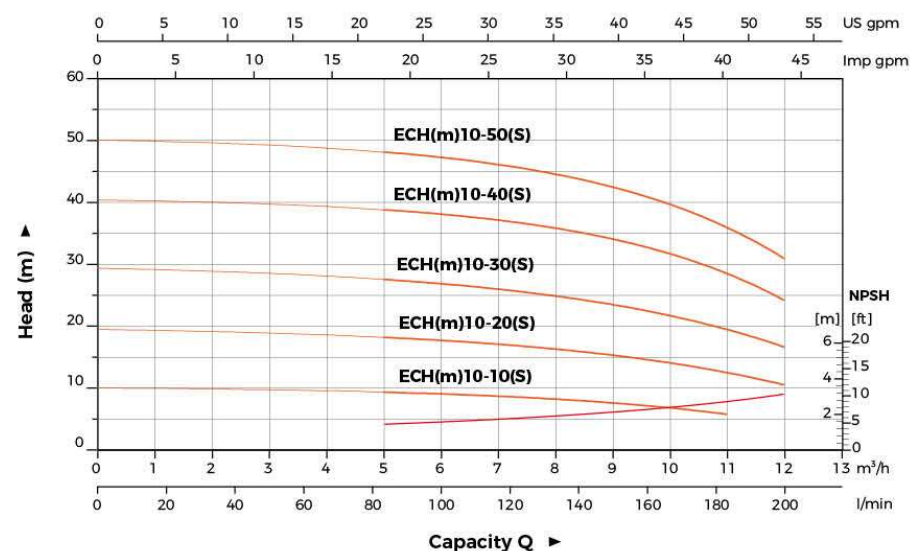
Model	Power		Q(m³/h) Q(l/min)	1	2	3	4	5	6	7
	kW	HP		17	33	50	67	83	100	117
ECH(m)4-20(S)	0.55	0.75	H (m)	17	16	15	13	12	10	8
ECH(m)4-30(S)	0.55	0.75		27	25	23	21	19	16	13
ECH(m)4-40(S)	0.75	1.0		36	34	32	28	26	22	17
ECH(m)4-50(S)	1.1	1.5		46	43	40	36	33	28	21
ECH(m)4-60(S)	1.1	1.5		55	52	48	43	39	33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

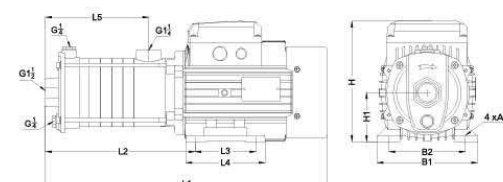
Hydraulic Performance Curves



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