

ECH

Horizontal Multistage Stainless Steel Pumps

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.

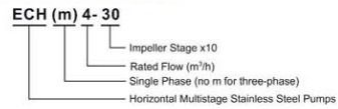
Pump

- AISI 304 shaft
- Max. liquid temperature: +85°C
- Altitude: up to 1000m
- Max. suction: 8 m
- Max. inlet pressure: limited by Max. operating pressure

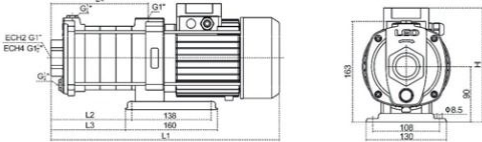
Motor

- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: IP44
- Max. ambient temperature: +40°C

Identification Codes



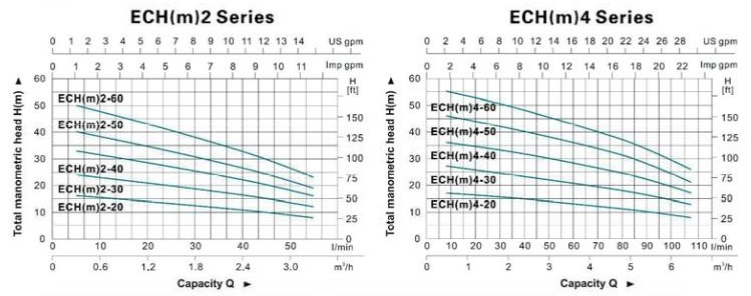
Dimension



| Model | L1 | L2 | L3 | L4 | H | | | |
|------------|-----|-------|-------|-------|--------------|-------------|--------------|-------------|
| | | | | | Single-phase | Three-phase | Single-phase | Three-phase |
| ECH(m)2-20 | 333 | 75 | 64 | 103.5 | 211 | 185 | 11.5 | 11.7 |
| ECH(m)2-30 | 352 | 93.5 | 82.5 | 122 | 211 | 185 | 11.8 | 12.0 |
| ECH(m)2-40 | 370 | 112 | 101 | 140.5 | 211 | 185 | 12.7 | 12.8 |
| ECH(m)2-50 | 389 | 130.5 | 119.5 | 159 | 211 | 185 | 13.0 | 13.1 |
| ECH(m)2-60 | 407 | 149 | 138 | 177.5 | 211 | 185 | 13.8 | 14.0 |
| ECH(m)4-20 | 342 | 85.5 | 74.5 | 114 | 211 | 185 | 12.5 | 12.6 |
| ECH(m)4-30 | 370 | 113 | 102 | 141.5 | 211 | 185 | 12.8 | 13.0 |
| ECH(m)4-40 | 398 | 140.5 | 129.5 | 169 | 211 | 185 | 14.2 | 14.4 |
| ECH(m)4-50 | 426 | 168 | 157 | 196.5 | 211 | 185 | 15.1 | 15.2 |
| ECH(m)4-60 | 453 | 195.5 | 184.5 | 224 | 211 | 185 | 15.4 | 15.5 |



Hydraulic Performance Curve



| Model | Power | | Q (m ³ /h) | | H (m) | | | | | | |
|------------|-------|------|-----------------------|----|-------|----|----|----|----|----|----|
| | kW | HP | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| ECH(m)2-20 | 0.37 | 0.5 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| ECH(m)2-30 | 0.37 | 0.5 | 18 | 16 | 15 | 13 | 12 | 10 | 8 | | |
| ECH(m)2-40 | 0.55 | 0.75 | 27 | 24 | 22 | 20 | 18 | 16 | 12 | | |
| ECH(m)2-50 | 0.55 | 0.75 | 35 | 33 | 30 | 26 | 24 | 21 | 16 | | |
| ECH(m)2-60 | 0.75 | 1.0 | 45 | 40 | 37 | 33 | 30 | 24 | 19 | | |
| | | | 53 | 50 | 45 | 40 | 36 | 30 | 23 | | |

| Model | Power | | Q (m ³ /h) | | H (m) | | | | | | |
|------------|-------|------|-----------------------|----|-------|----|----|----|-----|-----|--|
| | kW | HP | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| ECH(m)4-20 | 0.55 | 0.75 | 0 | 17 | 33 | 50 | 67 | 83 | 100 | 117 | |
| ECH(m)4-30 | 0.55 | 0.75 | 18 | 17 | 16 | 15 | 13 | 12 | 10 | 8 | |
| ECH(m)4-40 | 0.75 | 1.0 | 28 | 27 | 25 | 23 | 21 | 19 | 16 | 13 | |
| ECH(m)4-50 | 1.1 | 1.5 | 38 | 36 | 34 | 32 | 28 | 26 | 22 | 17 | |
| ECH(m)4-60 | 1.1 | 1.5 | 48 | 46 | 43 | 40 | 36 | 33 | 28 | 21 | |
| | | | 58 | 55 | 52 | 48 | 43 | 39 | 33 | 26 | |

Materials Table

| No. | Part | Material |
|-----|-----------------|-----------------|
| 1 | Bottom plate | Q235 |
| 2 | Support | Cast iron |
| 3 | Stator | |
| 4 | Terminal box | ABS |
| 5 | Bearing | |
| 6 | Rotor | |
| 7 | End plate | ZL102 |
| 8 | Fan | PE |
| 9 | Fan cover | SP |
| 10 | Mechanical seal | Carbon/graphite |
| 11 | Diffuser | AISI 304 |
| 12 | Shaft | AISI 304 |
| 13 | Impeller | AISI 304 |
| 14 | Pump body | Cast iron |

