

ELH SUBMERSIBLE DEWATERING PUMP



The ELHW is made out of cast iron with a high pressure mechanical seal. The pump needs to only be partially immersed, with the hydraulic part under the motor and the motor cooled by pumped water for safe operation. The top discharge designed maximizes space for tight sumps, which is perfect for several applications, including but not limited to, dewatering in underground mines. Seal pressure relief ports are incorporated to prevent the pumping pressure from applying to the mechanical shaft seal. Discharge ranges from 50mm(2") to 150mm(6"), motor ranges from 3kW (4.0HP) to 150kW (200HP). Motor is a dry type submersible induction motor (2 poles).



Specification

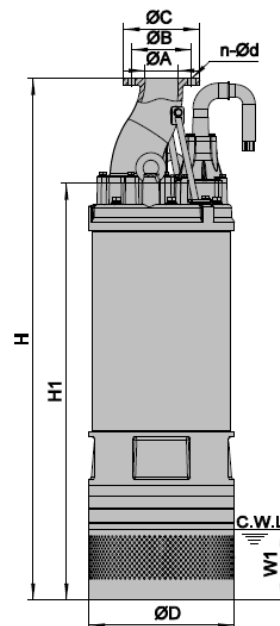
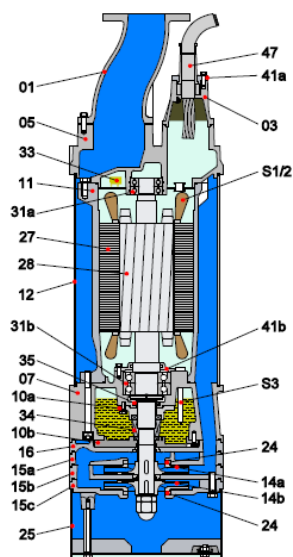
- **Capacity: up to 960 GPM**
- **Head: up to 755 FT**
- **Power: 3.0kW (4.0HP) to 150 kW (200HP)**
- **Power Supply: three phase 460V ±10%, 60Hz**
- **Insulation class: F**
- **Protection class: IP68**
- **Cable length: 65 ft**
- **Water temperature: up to 104 °F**
- **Max water depth: 100 ft**
- **Deep-well pre-dewatering or high-head dewatering**
- **Civil engineering and construction work**
- **Mines, quarries, coal ore & slurries**
- **Sewage treatment plants**
- **General pumping purposes**

Application

Special features on request

- **Other voltages**
- **Cable length is adjustable**



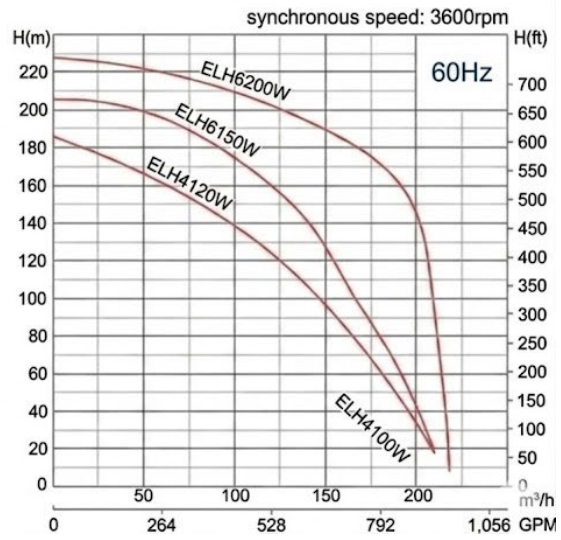
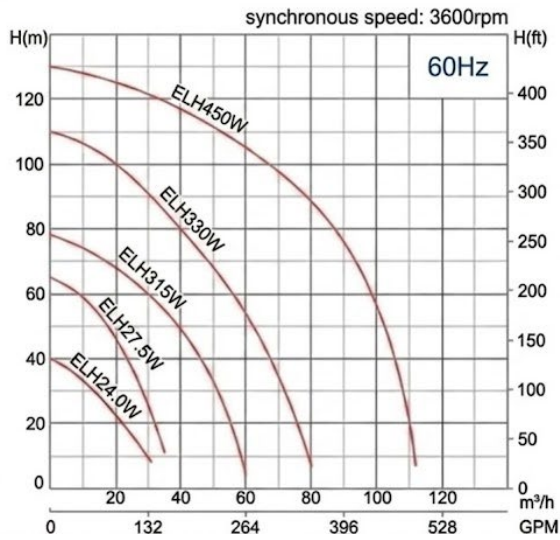


C.W.L.: continuous running water level

Materials of components

| Item No. | Part name | Material | Item No. | Part name | Material |
|----------|----------------------|-------------------|----------|--|-----------------|
| 01 | Discharge connection | Ductile iron | 25 | Strainer | Stainless steel |
| 03 | Terminal box | Cast iron | 27 | Stator | |
| 05 | Upper cover | Cast iron | 28 | Rotor | Shaft:AISI420SS |
| 07 | Bearing house | Cast iron | 31a | Bearing | |
| 10a | Seal bracket | Cast iron | 31b | Bearing | |
| 10b | Seal bracket | Cast iron | 33 | Motor protector | 3~11kW |
| 11 | Motor body | Cast iron | 34 | Mechanical seal | |
| 12 | Outer casing | Steel | 35 | Oil seal | |
| 14a | Impeller | High chrome alloy | 41a | Cable fixing plate | Cast iron |
| 14b | Impeller | High chrome alloy | 41b | Bearing fixing plate | Cast Iron |
| 15a | Diffuser & Casing | Ductile iron | 47 | Cable | |
| 15b | Diffuser & Casing | Ductile iron | S1/2 | Overheat protector : 22~150kW | |
| 15c | Diffuser & Casing | Ductile iron | S3 | Oil water leakage probe : 37~150kW (22kW : on option) | |
| 16 | Inlet plate | Ductile iron | | | |
| 24 | Neck ring | High chrome alloy | | | |

| Model | A | B | C | n-Ød | D | H | H1 | W1 | N.W | G.W. | Packing dimensions mm |
|----------|-----|-----|-----|-------|-----|------|------|-----|------|------|--------------------------|
| | mm | mm | mm | mm | mm | mm | mm | mm | Kg | Kg | |
| ELH25W | 50 | | | | 185 | 685 | 570 | 146 | 52 | 57 | 740x220x295 |
| ELH27.5W | 50 | 125 | 165 | 4-Ø18 | 234 | 788 | 616 | 170 | 100 | 107 | 840x280x385 |
| ELH315W | 80 | 160 | 200 | 8-Ø18 | 275 | 1036 | 824 | 210 | 160 | 172 | 1085x310x415 |
| ELH330W | 80 | 160 | 200 | 8-Ø18 | 330 | 1174 | 914 | 260 | 278 | 308 | 1225x375x545 |
| ELH450W | 100 | 180 | 220 | 8-Ø18 | 420 | 1500 | 1198 | 227 | 500 | 540 | 1625x465x705 |
| ELH4100W | 100 | 190 | 235 | 8-Ø22 | 550 | 1762 | 1410 | 400 | 1000 | 1052 | 1900x620x690 |
| ELH4120W | 100 | 190 | 235 | 8-Ø22 | 550 | 1822 | 1470 | 400 | 1055 | 1110 | 1960x620x700 |
| ELH6150W | 150 | 250 | 300 | 8-Ø26 | 592 | 1793 | 1388 | 370 | 1245 | 1301 | 1935x665x965 |
| ELH6200W | 150 | 250 | 300 | 8-Ø26 | 592 | 1925 | 1520 | 415 | 1428 | 1488 | 2065x665x975 |



PERFORMANCE TABLE

| Model | Outlet | | Motor Power | | Rated current (460) | Rate capacity | | Rated head | Rated head | max capacity | | max head | Impeller passage |
|----------|--------|------|-------------|-----|---------------------|-------------------|------|------------|------------|-------------------|-------|----------|------------------|
| | mm | inch | kW | HP | | m ³ /h | GPM | | | m ³ /h | GPM | | |
| ELH25W | 50 | 2 | 3 | 4 | 6.2 | 18 | 79.2 | 26 | 85.3 | 30 | 132 | 39 | 6 |
| ELH27.5W | 50 | 2 | 5.5 | 7.5 | 11.4 | 18 | 79.2 | 48 | 157.4 | 35 | 154 | 65 | 6 |
| ELH315W | 80 | 3 | 11 | 15 | 22.0 | 30 | 132 | 60 | 196.8 | 60 | 264 | 78 | 8.5 |
| ELH330W | 80 | 3 | 22 | 30 | 41.5 | 40 | 176 | 80 | 262.4 | 78 | 343.2 | 110 | 8.5 |
| ELH450W | 100 | 4 | 37 | 50 | 66.0 | 60 | 264 | 105 | 344.4 | 112 | 492.8 | 130 | 6 |
| ELH4100W | 100 | 4 | 75 | 100 | 134.0 | 120 | 528 | 125 | 410.0 | 210 | 924 | 185 | 15 |
| ELH4120W | 100 | 4 | 90 | 120 | 162.0 | 120 | 528 | 140 | 459.2 | 210 | 924 | 205 | 15 |
| ELH6150W | 150 | 6 | 110 | 150 | 198.0 | 120 | 528 | 168 | 551.0 | 192 | 844.8 | 218 | 8 |
| ELH6200W | 150 | 6 | 150 | 200 | 260.0 | 150 | 660 | 190 | 623.2 | 218 | 959.2 | 230 | 12 |