

EDM SUBMERSIBLE SLURRY PUMP



The ESM series is a submersible series pump with a semi-vortex impeller made out of a high chrome alloy to withstand heavily abrasive slurries. The semi-vortex impeller reduces the risk of clogging, while the high chrome increases erosion resistance.

SPECIFICATION

- Power supply: single phase 120V ± 10%, 60Hz
Three phase 460V ± 10%, 60Hz
- Insulation class: F
- PH: 6.5 to 8.5
- Protection class: IP68
- Cable length: 26ft
- water temperature: up to 104°F
- Max water depth: 32ft

APPLICATION

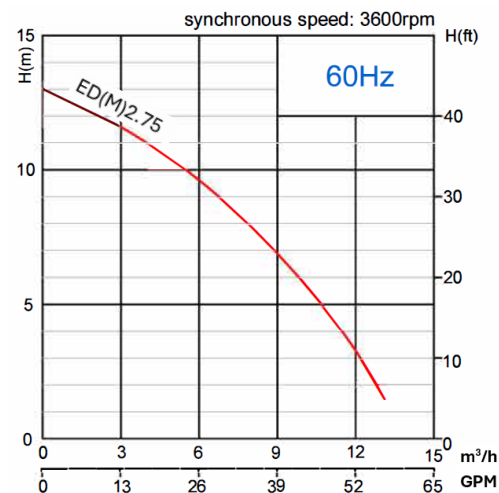
- Civil engineering
- Construction sites
- Basements or other utility pits
- Rainwater
- General pumping purposes
- Pumping fluid: sludge, liquid-containing mud and bentonite



SPECIAL FEATURES ON REQUEST

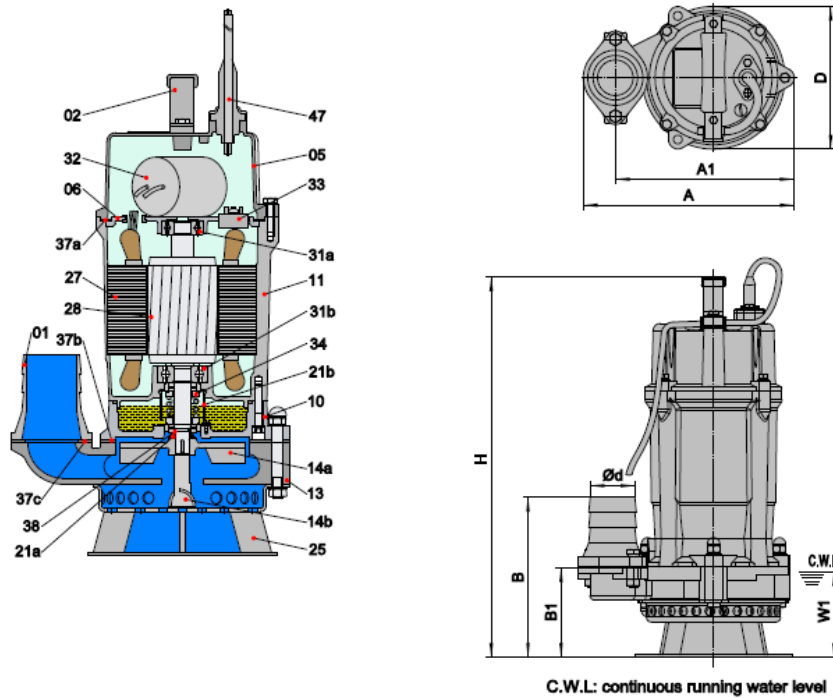
- Other voltages
- Optional longer cables

Note: ED: three phase; EDM: single phase; EDM...F: single phase with float switch



| Model | Outlet | | Motor Power | | Rated current | | Rate capacity | | Rated head | Rated head | max capacity | | max head | Impeller passage |
|--------------|--------|------|-------------|------|---------------|-----|---------------|-----|------------|------------|--------------|-----|----------|------------------|
| | mm | inch | kW | HP | 1 | 3 | m³/h | GPM | m | ft | m³/h | GPM | m | mm |
| ED(M)2.75(F) | 50 | 2 | 0.55 | 0.75 | 7.3 | 6.0 | 8 | 35 | 8 | 26 | 13 | 58 | 13 | 9 |





Materials of components

| Item No. | Part name | Material | Item No. | Part name | Material |
|----------|------------------|----------------------|----------|-----------------|----------------------------|
| 01 | Hose coupling | Cast Iron | 27 | Stator | |
| 02 | Handle | Rubber&steel | 28 | Rotor | Shaft:AISI420SS |
| 05 | Upper cover | Aluminum die casting | 31a | Bearing | Ball bearing |
| 06 | Up-Bearing house | Cast Iron | 31b | Bearing | Ball bearing |
| 10 | Seal house | Cast Iron | 32 | Capacitor | |
| 11 | Motor body | Aluminum die casting | 33 | Motor protector | |
| 13 | Pump body | Cast Iron | 34 | Mechanical seal | Ceramic-Stl/Carbon-Ceramic |
| 14a | Impeller | High chrome alloy | 37a | Gasket | NBR |
| 14b | Agitator | High chrome alloy | 37b | Gasket | NBR |
| 21a | Oil riser | NBR | 37c | Gasket | NBR |
| 21b | Sand guard | LDPE | 38 | Shaft sleeve | AISI420SS |
| 25 | Strainer | Steel | 47 | Cable | H07RN-F |

DIMENSIONS & WEIGHTS

| Model | d | A | A1 | B | B1 | D | H | W1 | N.W | G.W | Packing dimensions |
|------------|----|-----|-----|-----|----|-----|-----|----|------|------|--------------------|
| | mm | mm | mm | mm | mm | mm | mm | mm | Kg | Kg | mm |
| EDM2.75(F) | 50 | 237 | 201 | 168 | 95 | 160 | 401 | 95 | 15.5 | 17 | 455x255x230 |
| ED2.75 | 50 | 237 | 201 | 168 | 95 | 160 | 401 | 95 | 14 | 15.5 | 455x255x230 |

EDME: The EDME is the EDM with a built in automatic water sensor. The sensor will automatically turn off the pump when the water level drops below the sensor and will automatically turn the pump on when the water level rises high enough to get the sensor wet. The benefits include a pump with automatic run capability; the pump will shut down 60s after the water level drops below the sensor and immediately once the water comes in contact with the sensor. The pump will automatically stop in the event of overload and recover within 5 min. This protects against impeller jam.

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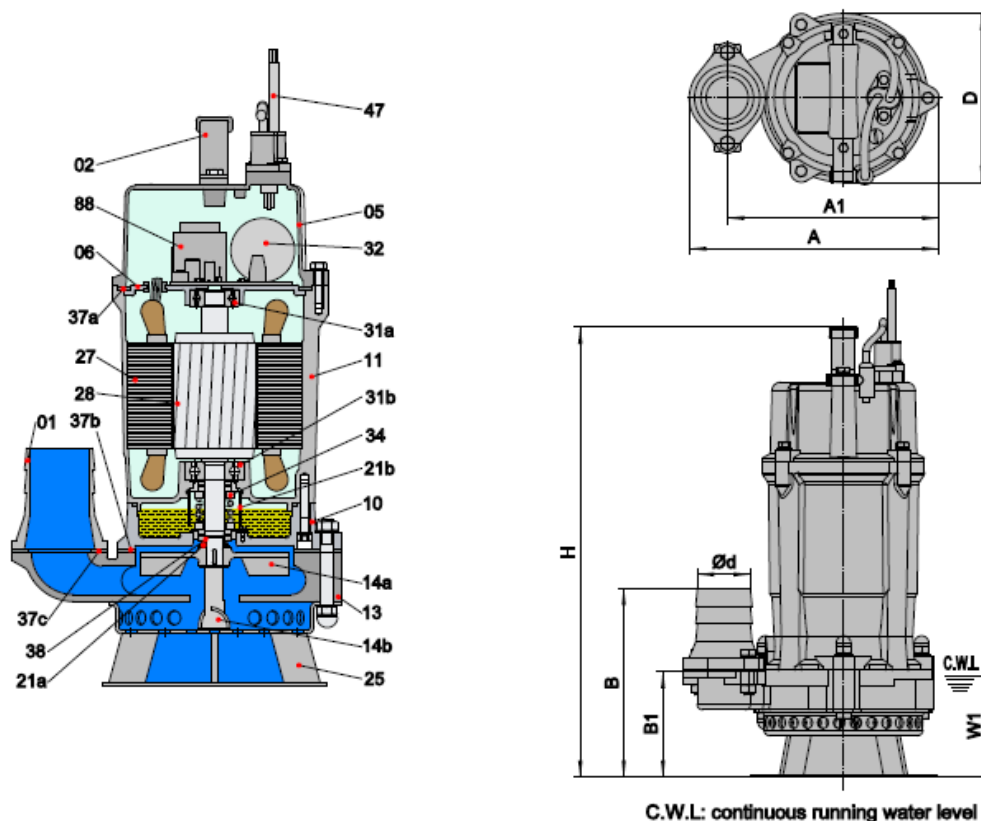
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| 21a | Oil riser | NBR | 38 | Shaft sleeve | AISI420SS |
| 21b | Sand guard | LDPE | 47 | Cable | H07RN-F |
| 25 | Strainer | Steel | 88 | Controller block | |

| Model | d | A | A1 | B | B1 | D | H | W1 | N.W | G.W | Packing dimensions |
|--------|----|-----|-----|-----|----|-----|-----|----|------|------|--------------------|
| | mm | mm | mm | mm | mm | mm | mm | mm | Kg | Kg | mm |
| ED2.75 | 50 | 237 | 201 | 168 | 95 | 160 | 401 | 95 | 15.2 | 16.7 | 455x255x230 |