



0.3HP



0.5~1HP



2~3HP



5~7.5HP

### ▲ Features

- Dry motor with overload protector; Cable with an epoxy resin sealed water-proof cable hood; Use deep groove C3 bearing to extend life time.
- Superior abrasion resistant double mechanical seal to ensure best seal effect.
- Oil seal mounted outside of seal chamber stops solids gathering around seal faces.
- Equipped with SUS304 strainer to prevent impeller from being blocked or damaged by sewage or solids.

### ▲ Motor Spec.

- 2P dry type motor.
- Insulation: F class.
- Protection: IP68.
- Frequency: 50HZ.
- Voltage: 1 $\phi$ 220~240V(0.5~2HP).  
3 $\phi$ 220~440V(all models).



EA Volute Impeller

### ▲ Applications

- Wastewater, sump drainage from basement of buildings, hotels, schools, restaurants, malls, subway, construction site, public places..etc.
- Rainwater effluent, accumulated water drainage ,flood control, water circulation of aquaculture and landscape ponds..etc.

#### Optional

Submersible sump pump with guide rail device



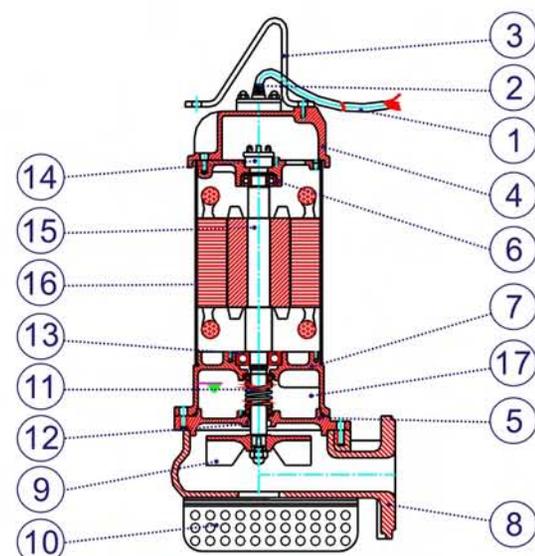
Optional Single phase sump pump with auto float switch. (0.5~2HP)



### ▲ Parts and Materials List

| No. | Parts              | Standard Material      |
|-----|--------------------|------------------------|
|     |                    | EA Model               |
| 1   | Cable              | STOW                   |
| 2   | Cable hood         | PVC                    |
| 3   | Handle             | Nylon6 or SS400        |
| 4   | Motor cover        | Nylon66 or FC200       |
| 5   | Seal housing       | FC200                  |
| 6   | Bracket            | FC200                  |
| 7   | Oil chamber        | FC200                  |
| 8   | Pump casing        | FC200                  |
| 9   | Impeller           | FC200                  |
| 10  | Strainer           | SUS304                 |
| 11  | Mech. seal         | CA/CE                  |
| 12  | Oil seal           | NBR                    |
| 13  | Bearing            | (NTN brand)            |
| 14  | Overload protector | (T.I.brand)            |
| 15  | Shaft              | SUS410                 |
| 16  | Motor housing      | SUS304                 |
| 17  | Lubricant oil      | (Turbine Oil ISO VG46) |

• Mech.seal (sic/sic)material is available upon request.

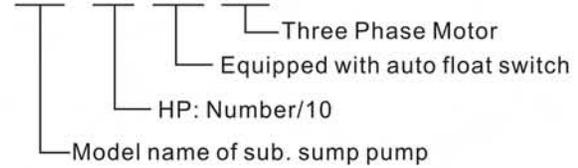


### Operating Conditions

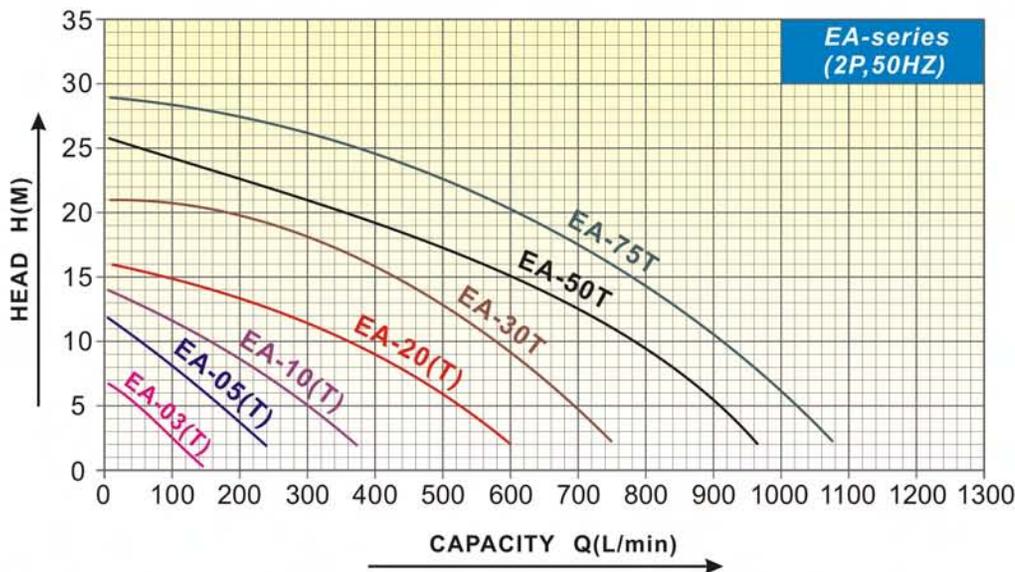
- Water temperature: 0~40°C.
- Ambient temperature: 0~40°C.
- Solid passage: 6MM.
- Operating water depth: Max.8~10M.
- No use in sea water and high-corrosive liquids.
- No 24hrs continuously running.

### Model Code

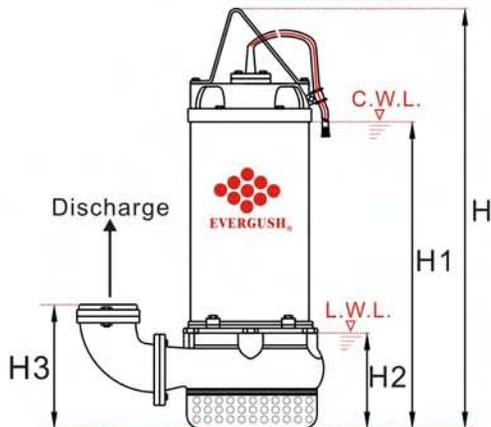
**EA-20(A)(T)**



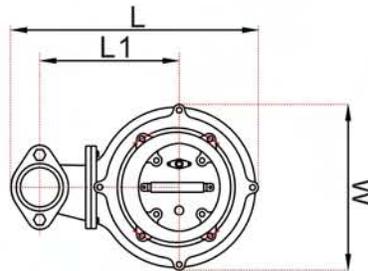
### Performance Curves



### Specification & Dimensions



NOTE: Forbid running submersible pumps continuously under L.W.L.



C.W.L.: Continuously Running Water Level.  
L.W.L.: Lowest Running Water Level.

| Model       | Power |     | Disch. Inch | Phase φ | Rated  |              | Max.   |          | Dimensions (mm) |     |     |     |     |     | Cable M | Net Weight KG | Solid Passage MM |    |
|-------------|-------|-----|-------------|---------|--------|--------------|--------|----------|-----------------|-----|-----|-----|-----|-----|---------|---------------|------------------|----|
|             | KW    | HP  |             |         | Head M | Capacity LPM | Head M | Cap. LPM | L               | L1  | W   | H   | H1  | H2  |         |               |                  | H3 |
| EA-03(A)(T) | 0.25  | 0.3 | 1.5"        | 1,3     | 4~5    | 70~50        | 7      | 150      | 195             | 135 | 138 | 325 | 213 | 75  | 73      | 5             | 9                | 5  |
| EA-05(A)(T) | 0.37  | 0.5 | 2"          | 1,3     | 5~6    | 175~150      | 12     | 260      | 221             | 115 | 141 | 373 | 260 | 76  | 97      | 5             | 13               | 6  |
| EA-10(A)(T) | 0.75  | 1   | 2"          | 1,3     | 8~10   | 220~155      | 14     | 400      | 330             | 193 | 173 | 451 | 327 | 100 | 155     | 5             | 23               | 6  |
| EA-20(A)(T) | 1.5   | 2   | 2"(3")      | 1,3     | 9~10   | 400~360      | 16     | 650      | 403             | 250 | 212 | 536 | 388 | 110 | 164     | 5             | 33               | 8  |
| EA-30T      | 2.2   | 3   | 2"(3")      | 1,3     | 11~15  | 550~430      | 21     | 800      | 403             | 250 | 212 | 556 | 408 | 110 | 164     | 5             | 35               | 8  |
| EA-50T      | 3.7   | 5   | 3"(4")      | 3       | 12~15  | 720~600      | 26     | 1000     | 463             | 260 | 227 | 605 | 440 | 132 | 215     | 5             | 55               | 10 |
| EA-75T      | 5.5   | 7.5 | 3"(4")      | 3       | 16~18  | 750~680      | 29     | 1100     | 463             | 260 | 227 | 645 | 480 | 132 | 215     | 5             | 61               | 10 |

Remarks: ●(A): Equipped with automatic float switch. ●(T): Three phase motor. ●10M cable are available for all models per special request.

50HZ



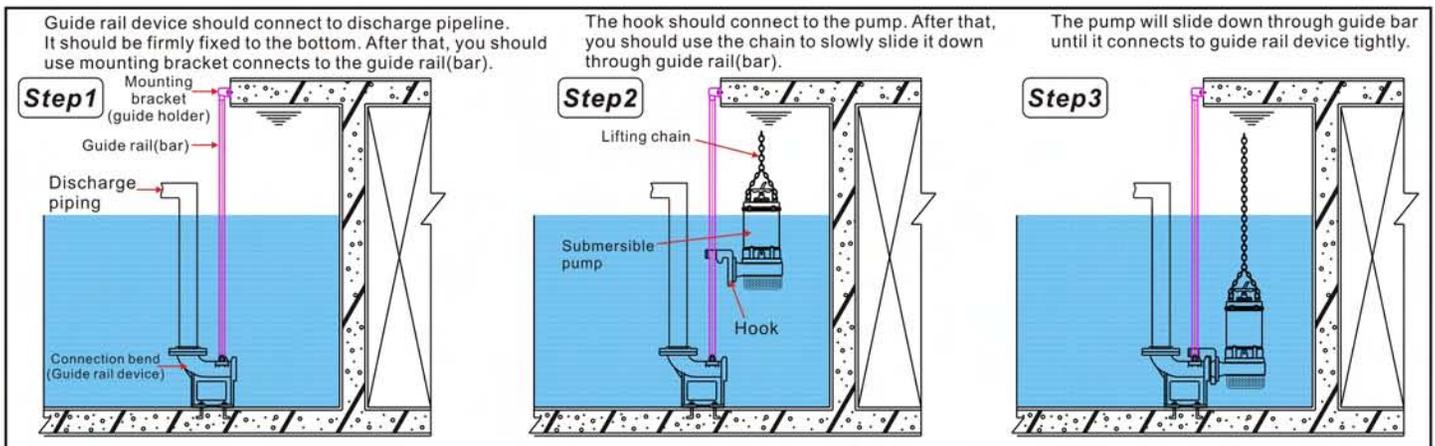
Product Features:

- Through simple and convenient installation, we can connect the pump onto guide rail device. Whenever the pump needs maintenance, it can be easily pulled out through guide bar to dismantle, repair or examine the pump. For safety purpose, The workers no longer need to go down the septic tank to do maintenance. It will greatly reduce down time.

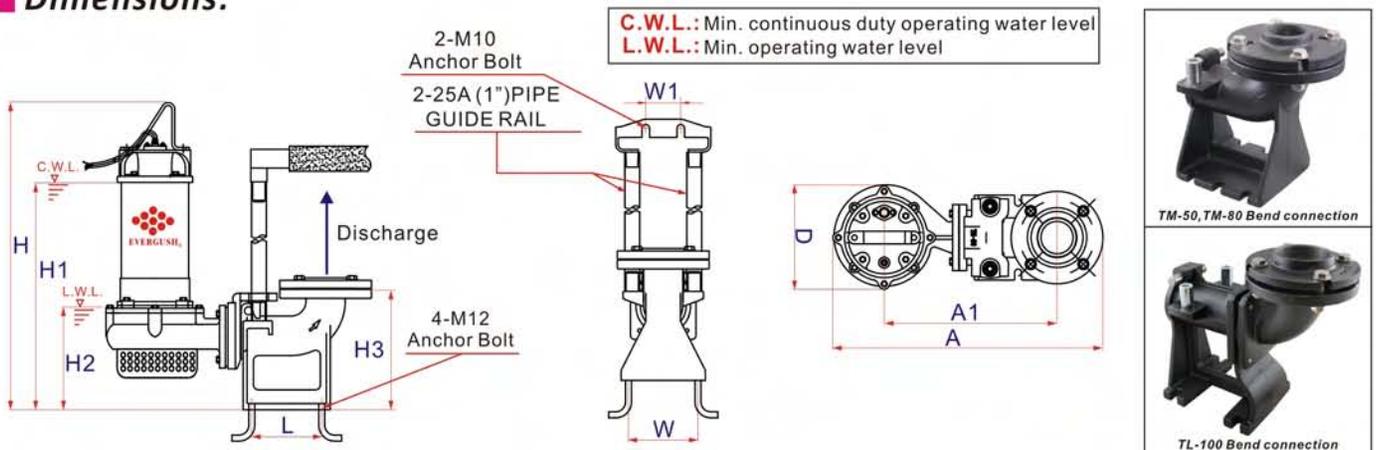
Applications:

- Animal husbandry and dairying septic tank waste water drainage; sewers, apartments, buildings and basements sewage treatment equipment drainage; Dye house, fur and leather industry and steel industry waste water drainage; other waste water treatments drainage.

Installation Diagram:



Dimensions:



| Model        | Matched TOS Model | Power HP | Disch. Inch | Dimensions(mm) |     |     |     |     |     |     |     |     |    | Weight(KG) |            |
|--------------|-------------------|----------|-------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|----|------------|------------|
|              |                   |          |             | A              | A1  | D   | H   | H1  | H2  | H3  | L   | W   | W1 | TOS Device | TOS & PUMP |
| TOS-EA-05(T) | TM-50             | 0.5      | 2"          | 490            | 311 | 173 | 469 | 356 | 172 | 243 | 110 | 140 | 70 | 16         | 29         |
| TOS-EA-10(T) | TM-50             | 1        | 2"          | 490            | 311 | 173 | 524 | 400 | 172 | 243 | 110 | 140 | 70 | 16         | 34         |
| TOS-EA-20(T) | TM-80             | 2        | 3"          | 564            | 368 | 210 | 601 | 453 | 175 | 243 | 110 | 140 | 70 | 16         | 50         |
| TOS-EA-30T   | TM-80             | 3        | 3"          | 564            | 368 | 210 | 621 | 473 | 175 | 243 | 110 | 140 | 70 | 16         | 52         |
| TOS-EA-50T   | TL-100            | 5        | 4"          | 730            | 520 | 230 | 718 | 553 | 245 | 310 | 160 | 150 | 70 | 24         | 80         |
| TOS-EA-75T   | TL-100            | 7.5      | 4"          | 730            | 520 | 230 | 758 | 593 | 245 | 310 | 160 | 150 | 70 | 24         | 86         |

Remarks: ● TOS means cast iron guide rail device. (Q.D.C:Quick Discharge Device) ● "T" means 3 phase motor.