



A WASTEWATER/SUMP SUBMERSIBLE PUMPS

FEATURE

- A precision manufactured motor is achieved by utilizing the highest standard of quality control. All rotors adopt heat treatment methods for drive shaft assembling, and stator winding impregnated with varnish that is heat dried in an industrial oven.
- HCP's professional assembly line, complimented with a synthesized production test, ensures the highest level of pump quality.
- Standard accessories include : cable with an epoxy resin sealed water resistant cable base, Auto-cut thermal motor protector, dual mechanical seals and lip seal design.
- The A-05A is a practical pump, with a low temperature, oil filled motor and single seal design (CA/CE).



APPLICATIONS

- Waste water.
- Sump drainage.
- Flood control.
- Dewatering for fish pond or basement and cellars.

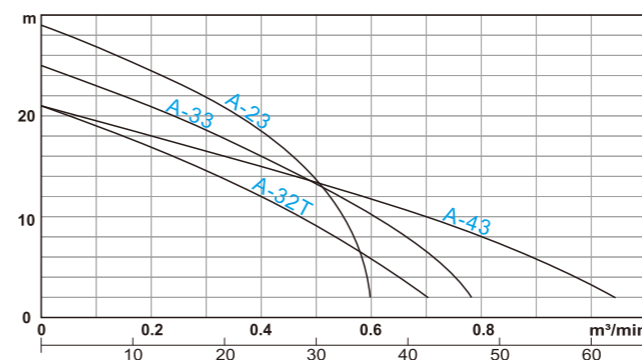
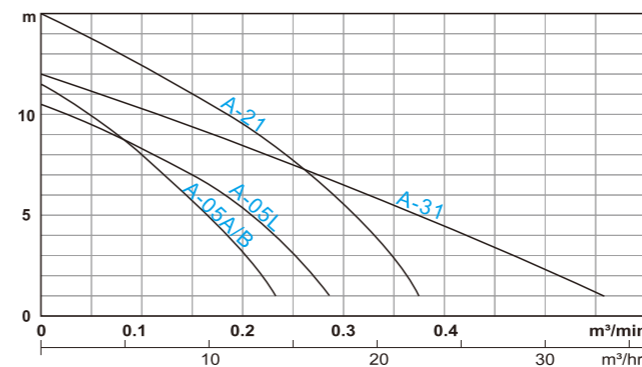
PRODUCT NOMENCLATURE

| | | |
|------|----------------|-------|
| A | 05 | A |
| Type | HP | Style |
| A | 2 | 1 |
| Type | Discharge inch | HP |



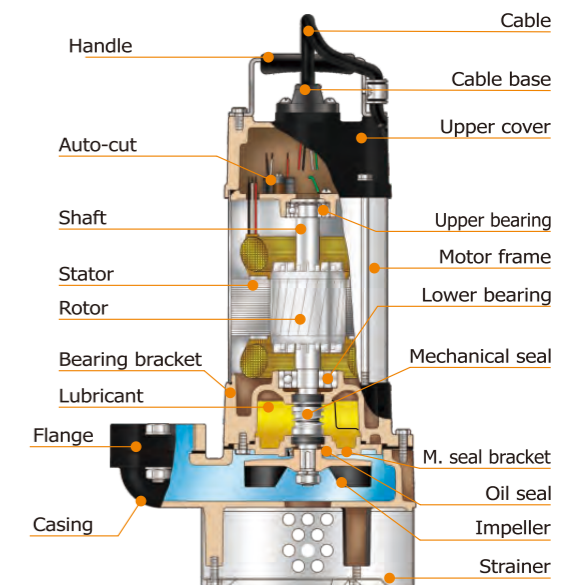
Note: A05-31 3Phase Vortex impeller will cause higher amperage when operated in reverse direction

PERFORMANCE CURVES



SPECIFICATIONS

| | | |
|-----------------------|---|--|
| Discharge (mm) | | 50 • 80 • 100 |
| Limits Of Use | Liquid Temp. | 0~40°C (32~104°F) |
| | Applications | Wastewater Sewage and Drainage water |
| | Submersion Depth | 30m (100feet) |
| Type | Frequency | 50Hz |
| | Motor | 2P (3000RPM) • Dry Motor (A-05A: Oil motor) |
| | Insulation | Class B |
| | Protection | IP68 |
| Material | Protector | Auto-cut (A-05A 3Ø none, A-05A/B/L 1Ø Overheat) |
| | Bearing | Ball Type |
| | M.seal | Double M.seals (A-05A: Single M.seal) |
| | Impeller | Semi-open (A-43: Enclosed-Channel) |
| | Upper Cover | FC-200 |
| | Motor Frame | SUS304 |
| | Shaft End | SUS410(0.5~1HP) • SUS403(2~3HP) |
| | M.seal | Upper: Carbon/Ceramic Lower: Silicon/Silicon (A-05A: carbon/ceramic) |
| | Casing | FC-200 |
| | Impeller | FC-200(A-05A/B: PA) |
| Cable | VCT or H07RN-F or SJOW/SOW | |
| Optional | Pumps can be customized to fit specifications | |



PERFORMANCE SPEC.

| Model | Output HP(kW) | Size DN Inch(mm) | Phase Ø | Start Method | Head (m) | Capacity | | Solid Passage mm | Weight (kg) | | Dimension (mm) | | | | |
|-------|---------------|------------------|---------|---------------------|----------|----------|------|------------------|-------------|----|----------------|-----|-----|-----|-----|
| | | | | | | m³/min | m³/h | | 1Ø | 3Ø | A | B | C | 1Ø | 3Ø |
| A-05B | ½ (0.4) | 2" (50) | 1 3 | Capacitor Direct | 8 | 0.1 | 6 | 7.5 | 14 | 13 | 226 | - | 161 | 372 | 372 |
| A-05L | ½ (0.4) | 2" (50) | 1 3 | Capacitor Direct | 7 | 0.15 | 9 | 8 | 16 | 14 | 245 | - | 173 | 430 | 430 |
| A-21 | 1 (0.75) | 2" (50) | 1 3 | Capacitor Direct | 10 | 0.18 | 10.8 | 10 | 17 | 15 | 245 | - | 173 | 430 | 430 |
| A-31 | 1 (0.75) | 3" (80) | 1 3 | Capacitor Direct | 6.5 | 0.3 | 18 | 10 | 18 | 17 | 278 | - | 173 | 457 | 457 |
| A-32T | 2 (1.5) | 3" (80) | 1 3 | Capacitor Direct | 12 | 0.4 | 24 | 10.5 | 37 | 32 | 385 | 245 | 216 | 575 | 495 |
| A-23 | 3 (2.2) | 2" (50) | 1 3 | Capacitor Direct | 24.5 | 0.2 | 12 | 10.5 | 38 | 32 | 280 | 242 | 216 | 572 | 493 |
| A-33 | 3 (2.2) | 3" (80) | 1 3 | Capacitor Direct | 16 | 0.4 | 24 | 10.5 | 39 | 33 | 385 | 245 | 216 | 575 | 495 |
| A-43 | 3 (2.2) | 4" (100) | 1 3 | Capacitor Direct | 10 | 0.7 | 42 | 10.5 | 44 | 39 | 385 | 246 | 216 | 575 | 495 |
| A-05A | ½ (0.4) | 2" (50) | 1 3 | Capacitor Direct | 8 | 0.1 | 6 | 7.5 | 12 | 11 | 226 | - | 161 | 349 | 349 |

Note: Weight Without Cable & Elbow Set

