TERAL

# Submersible Pumps

## Sewage, wastewater, drainage and flood control


Japan since 1918

| Model | APL<br>Waste water pump | APV<br>Sewage pump | ASU<br>Waste water and Sewage pump | ABO<br>Sewage pump | AVC<br>Sewage pump | ACU<br>Sewage pump | AGO<br>Grinder pump |
|---|---|---|---|---|---|---|---|
| Photo |  |  |  |  |  |  |  |
| Impeller | Vortex<br>Semi-open | Vortex (APV, APVN, APVNL)<br>Semi-open (APVH) | Semi-open | Semi-open (ABOC, ABOH)<br>Enclosed-channel non-clog (ABO(E)) | Vortex(AVC, AVCL)<br>Semi-open (AVCH) | Vortex | Semi-open |
| Liquid | "Waste water<br>Sump drainage dewatering" | Waste water<br>Sewage water<br>Industrial waste water | Waste water<br>Sewage water<br>Drainage water | Waste water<br>Sewage water | Waste water<br>Sewage water | Waste water<br>Sewage water | Residential waste water<br>Sewage water |
| Coverage · Disc.diameter (mm) | 50 · 80 · 100 | 50 · 80 | 50 · 80 · 100 | 80 · 100 · 150 · 200 ·250 · 350 · 400 | 50 · 80 · 100 | 50 · 80 · 100 | 32 · 50 |
| Coverage · Output (kW) | 0.4~3.7 | 0.4~3.7 | 1.5~11 | 1.5~45 | 0.4~11 | 0.4~7.5 | 1.0~3.7 |
| Coverage · Solid passage (mm) | 7~20 | 26~76 | 20 | 50~120 | 30~76 | 50~100 | N/A |
| Material · Casing | FC200 | FC200 | FC200 | FC200 | FC200 | FC200 | FC200 |
| Material · Impeller | PA(50APL-5.4(S)) · FC200(≥0.4kW) | FC200 | FC200 | FC200: ABO(E), ABOH / Heat treated FC200(ABOC) | FC200 | FC200 | FC200 ( Cutter SUS440C ) |
| Material · Shaft | SUS410 (0.4 · 1.1kW)<br>SUS403 (1.5 · 3.7kW) | SUS410 (0.4 · 0.75kW)<br>SUS403 (1.5 · 3.7kW) | SUS420J2 (≥11kW)<br>SUS403 (≤7.5kW) | SUS420J2 (ABOC≥11kW, ABOE≥5.5kW)<br>SUS403 (ABOC, ABOH, ABOE≤3.7kW) | SUS410 (≤0.75kW), SUS403 (1.5~7.5kW)<br>SUS420J2 (≥11kW) | SUS403 (0.4 ~ 3.7kW)<br>SUS420J2 (≥5.5kW) | SUS403 |
| Material · Mechanical seal | SIC/SIC | SIC/SIC | SIC/SIC | SIC/SIC | SIC/SIC | SIC/SIC | SIC/SIC |
| Page | 3 | 5 | 7 | 9 | 13 | 15 | 17 |

| Model | ACS<br>Amphibious dewatering pump | APLS<br>Stainless waste water pump | APVS<br>Stainless sewage pump | ADS<br>Construction drainage | ADM<br>Agitator pump | AAX<br>Large volume water pump | AAXL<br>Submersible axial pump | SUMP<br>Residential & commercial pump |
|---|---|---|---|---|---|---|---|---|
| Photo |  |  |  |  |  |  |  |  |
| Impeller | Enclosed-channel | Semi-open | Semi-open | Semi-open<br>Enclosed | Semi-open (80ADM-55.5)<br>Enclosed | Axial-flow<br>Mix-flow (≥11kW) | Axial-flow | Semi-open |
| Liquid | Agriculture irrigation<br>Other drainage | Sanitary sewer<br>Acid/Alkaline/Corrosive<br>Between PH5~11 | Sanitary sewer<br>Acid/Alkaline/Corrosive<br>Between PH5~11 | Waste water<br>Sewage water<br>Sandy, waste water | Dewatering fluid containing<br>solid sediment | Agriculture irrigation<br>Aquaculture water<br>River water | Waste water, Industry drainage,<br>Agriculture irrigation<br>Aquaculture water | Dirty water from sumps,<br>Clean water,<br>Basins and tanks |
| Coverage · Disc.diameter (mm) | 50 · 80 · 100 · 150 | 50 · 80 · 100 | 50 · 80 · 100 | 50 · 80 · 100 · 150 | 80 · 100 · 150 | 100 · 150 · 200 · 250 · 300 | 550~700 | 25~32 |
| Coverage · Output (kW) | 1.1~7.5 | 0.4 · 11 | 0.4~11 | 1.1~7.5 | 1.5~7.5 | 0.4~11 | 37~75 | 0.1~0.25 |
| Coverage · Solid passage (mm) | 3.5~10 | 10~20 | 30~50 | 10 | 10 | 10~23 | N/A | 4 |
| Material · Casing | FC200 | SCS14 | SCS14 | FC200 | FC200 | FC200 | FC200 | ASA(≤0.15kW), PP(0.25kW) |
| Material · Impeller | Bronze (≤1.1kW)<br>Chrome steel (≥1.5kW) | SCS14 | SCS14 | HiCrFC | HiCrFC | ALBC3 Bronze | SCS13 | ABS(≤0.15kW), PA(0.25kW) |
| Material · Shaft | SUS403(≤2.2kW)<br>SUS304(≥3.7kW) | SUS316 | SUS316<br>SUS630 (≥11kW) | SUS403<br>SUS304 ≥3.7kW | SUS403 (≤2.2kW)<br>SUS304 (≥3.7kW) | SUS304 | SUS420J2 | SUS410 |
| Material · Mechanical seal | SIC/SIC | SIC/SIC | SIC/SIC | SIC/SIC | SIC/SIC | CA/CE (5.5~11kW)<br>SIC/SIC (0.4~2.2kW) | SIC/SIC & SIC/SIC | CA/CE(≤0.15kW), SiC/SiC(0.25kW) |
| Page | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |

# APL

## APPLICATIONS

- Drainage in the digestion tank
- Waste water, Sump drainage
- Drainage of spring water and stagnant water in the construction field
- Dewatering for fish pond or basement and cellars

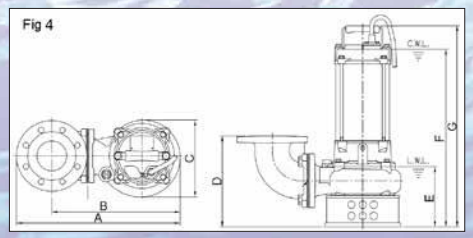
## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 · 100 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Waste water |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Semi-open & Vortex |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Upper cover | FC200 |
| | | Impeller | FC200 (50APL-5.4(S):PA) |
| | | Casing | FC200 |
| | | Casing cover | FC200 |
| | | Mech. seal | SIC/SIC |
| Motor | Type | | Dry type |
| | Insulation | | B class (F Class ≥1.1kW) |
| | Frequency · Pole | | 50Hz · 2P |
| | Protector | | Auto-cut (50APL-5.4S: Overheat protector) |
| | Material | Frame | SUS304 |
| | | Main shaft | 0.4 ~ 1.1kW : SUS410<br>1.5 ~ 2.2kW : SUS403 |
| | | Cable | VCT or H07RN-F or SOW |
| Optional | | | Float switch, Auto setter<br>APLN Impeller: SUS316 |

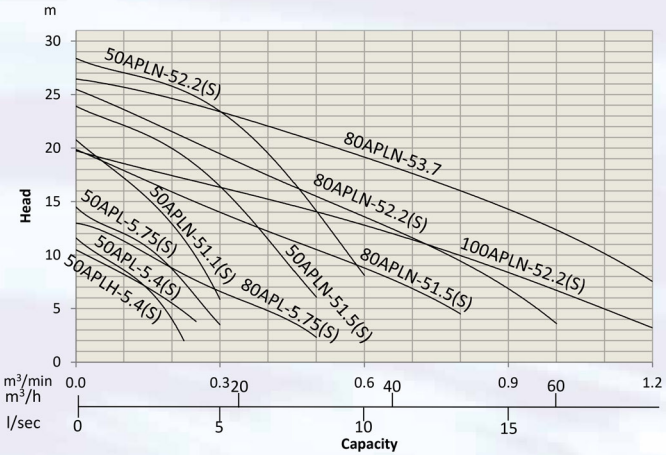
## FEATURES

- A precisely manufactured motor is achieved utilizing the highest standard of quality control. To ensure 100% quality manufactured motor with stable performance and highest efficiency, All rotors adopt heat treatment method for drive shaft assembling and stator winding impregnated with varnish and baked in industrial oven.
- Standard accessories include: VCT cable with an epoxy resin sealed water resistant cable base, Auto Cut motor thermal protector, double mechanical seals and lip seal design.

Fig 4

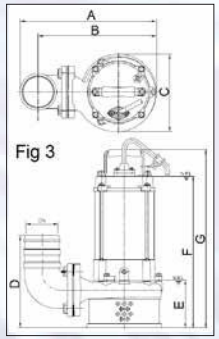



## SELECTION CHART

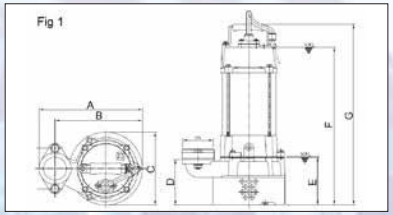


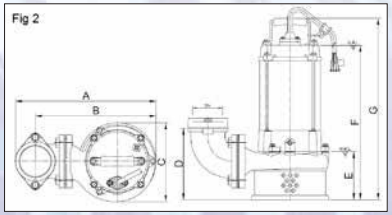

## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m3/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-open | 50 | 0.4 | 1 | Capacitor | 50APL-5.4S | 0.1 | 8 | 7.5 | 13 |
| | | | | 3 | Direct | 50APL-5.4 | 0.1 | 8 | 7.5 | 12 |
| | | | | 1 | Capacitor | 50APLH-5.4S | 0.15 | 7 | 10 | 16 |
| | | | | 3 | Direct | 50APLH-5.4 | 0.15 | 7 | 10 | 14 |
| | | | 0.75 | 1 | Capacitor | 50APL-5.75S | 0.18 | 10 | 10 | 17 |
| | | | | 3 | Direct | 50APL-5.75 | 0.18 | 10 | 10 | 15 |
| | Vortex | | 1.1 | 1 | Capacitor | 50APLN-51.1S | 0.16 | 14.5 | 7 | 20 |
| | | | | 3 | Direct | 50APLN-51.1 | 0.16 | 14.5 | 7 | 18 |
| | | | 1.5 | 1 | Capacitor | 50APLN-51.5S | 0.25 | 18.5 | 10.5 | 31 |
| | | | | 3 | Direct | 50APLN-51.5 | 0.25 | 18.5 | 10.5 | 27 |
| | | | 2.2 | 1 | Capacitor | 50APLN-52.2S | 0.3 | 23.5 | 10.5 | 35 |
| | | | | 3 | Direct | 50APLN-52.2 | 0.3 | 23.5 | 10.5 | 30 |
| | Semi-open | 80 | 0.75 | 1 | Capacitor | 80APL-5.75S | 0.3 | 6.5 | 10 | 18 |
| | | | | 3 | Direct | 80APL-5.75 | 0.3 | 6.5 | 10 | 17 |
| | | | 1.5 | 1 | Capacitor | 80APLN-51.5S | 0.5 | 10.5 | 10.5 | 33 |
| | | | | 3 | Direct | 80APLN-51.5 | 0.5 | 10.5 | 10.5 | 29 |
| | | | 2.2 | 1 | Capacitor | 80APLN-52.2S | 0.5 | 15.5 | 10.5 | 37 |
| | | | | 3 | Direct | 80APLN-52.2 | 0.5 | 15.5 | 10.5 | 32 |
| | | | 3.7 | 3 | Direct | 80APLN-53.7 | 0.6 | 19 | 20 | 35 |
| | | 100 | 2.2 | 1 | Capacitor | 100APLN-52.2S | 0.7 | 11.5 | 20 | 37 |
| | | | | 3 | Direct | 100APLN-52.2 | 0.7 | 11.5 | 20 | 32 |




## DIMENSIONS




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50APL-5.4(S) | 1 | PF / NPT | 225 | 190 | 161 | 86 | 88 | 316 | 371 | 5000 |
| 50APLH-5.4(S) | 1 | PF / NPT | 245 | 207 | 173 | 109 | 100 | 373 | 428 | 5000 |
| 50APL-5.75(S) | 1 | PF / NPT | 245 | 207 | 173 | 109 | 100 | 373 | 428 | 5000 |
| 50APLN-51.1S | 1 | PF / NPT | 262 | 224 | 187 | 91 | 90 | 373 | 428 | 8000 |
| 50APLN-51.1 | 1 | PF / NPT | 262 | 224 | 187 | 91 | 90 | 353 | 408 | 8000 |
| 50APLN-51.5S | 1 | PF / NPT | 282 | 244 | 207 | 138 | 141 | 517 | 580 | 8000 |
| 50APLN-51.5 | 1 | PF / NPT | 282 | 244 | 207 | 138 | 141 | 436 | 499 | 8000 |
| 50APLN-52.2S | 1 | PF / NPT | 282 | 244 | 207 | 138 | 141 | 517 | 580 | 5000 |
| 50APLN-52.2 | 1 | PF / NPT | 282 | 244 | 207 | 138 | 141 | 436 | 499 | 5000 |
| 80APL-5.75(S) | 1 | PF / NPT | 278 | 224 | 173 | 135 | 130 | 402 | 456 | 5000 |
| 80APLN-51.5S | 2 | PF / NPT | 391 | 337 | 208 | 214 | 152 | 528 | 591 | 8000 |
| 80APLN-51.5 | 2 | PF / NPT | 391 | 337 | 208 | 214 | 152 | 447 | 510 | 8000 |
| 80APLN-52.2S | 2 | PF / NPT | 391 | 337 | 208 | 214 | 152 | 540 | 603 | 8000 |
| 80APLN-52.2 | 2 | PF / NPT | 391 | 337 | 208 | 214 | 152 | 447 | 510 | 8000 |
| 80APLN-53.7 | 4 | PT / NPT | 440 | 346 | 207 | 244 | 162 | 477 | 540 | 8000 |
| 100APLN-52.2S | 3 | 100 | 389 | 336 | 207 | 275 | 162 | 538 | 601 | 8000 |
| 100APLN-52.2 | 3 | 100 | 389 | 336 | 207 | 275 | 162 | 457 | 520 | 8000 |

# APV

## APPLICATIONS

- Drainage of sewage from the building basements
- Emptying of septic tanks,cesspits and sewage pump station.
- Drainage of seawage from industrial process factories in the construction field
- Pumping surface and drainage water from garages and sprinkler systems

## FEATURES

- All rotors adopt heat treatment methood for drive shaft assembling and stator winding impregnated with varnish and heat dried in industrial oven.
- Available impellers are Vortex and non-clog Semi-Open.
- Standard accessories include: VCT cable with an epoxy resin sealed water resistant cable base, Auto Cut motor thermal protector, double mechanical seals and lip seals design.

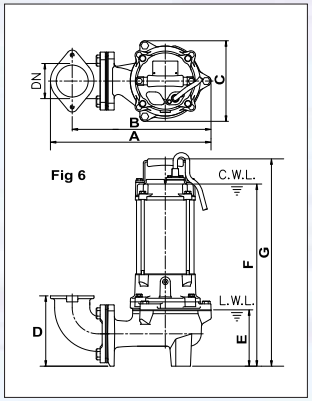


Fig 6

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Waste water · Sewage water and industrial waste water |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Semi-open (APVH) |
| | | | Vortex (APV, APVN, APVNL) |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Upper cover | FC200 |
| | | Impeller | FC200 |
| | | Casing | FC200 |
| | | Casing cover | FC200 |
| | | Mech. seal | SIC/SIC |
| Motor | Type | | Dry type |
| | Insulation | | B class (F Class ≥1.5kW) |
| | Frequency · Pole | | 50Hz·2P |
| | Protector | | Auto-cut (50APV-5.4S: Overheat protector) |
| | Material | Frame | SUS304 |
| | | Main shaft | 0.4 ~ 0.75kW : SUS410<br>1.5 ~3.7kW : SUS403 |
| | | Cable | VCT or H07RN-F or SOW |
| Optional | | | Float switch, Auto setter<br>APVN Impeller: SUS316 |

### APV TYPE IMPELLER

This impeller can generate rapid rotating vortex to handle fluid mixed with long fiber, the majority of abrasive solids do not touch impeller to minimize impeller wearing.
The reversed rotation of 3 phase APV type impeller will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

### APVH TYPE IMPELLER

Semi-open impeller cutting foreign particles, and preventing clog by solid media.

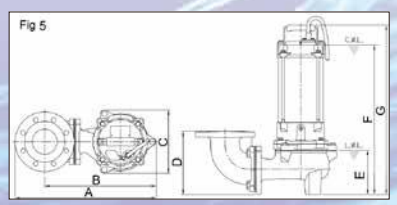


Fig 5



## SELECTION CHART

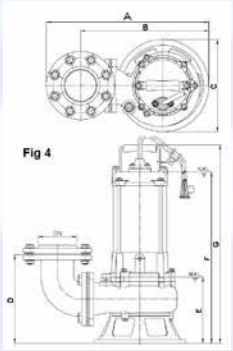
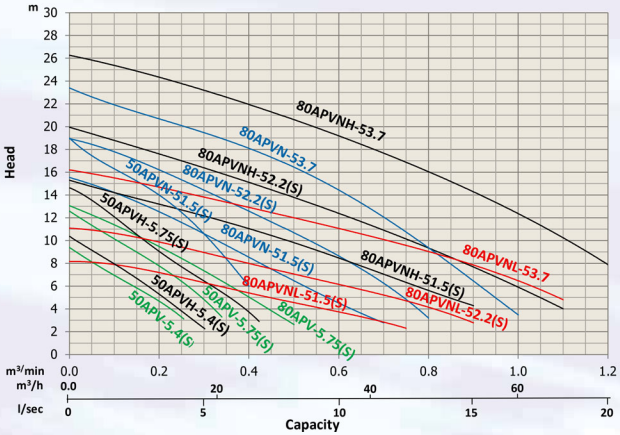


Fig 4




## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Vortex | 50 | 0.4 | 1 | Capacitor | 50APV-5.4S | 0.15 | 6 | 35 | 16 |
| | | | | 3 | Direct | 50APV-5.4 | 0.15 | 6 | 35 | 15 |
| | | | 0.75 | 1 | Capacitor | 50APV-5.75S | 0.2 | 8 | 35 | 17 |
| | | | | 3 | Direct | 50APV-5.75 | 0.2 | 8 | 35 | 16 |
| | | | 1.5 | 1 | Capacitor | 50APVN-51.5S | 0.2 | 14 | 35 | 30 |
| | | | | 3 | Direct | 50APVN-51.5 | 0.2 | 14 | 35 | 25 |
| | | 80 | 0.75 | 1 | Capacitor | 80APV-5.75S | 0.3 | 6.5 | 30 | 18 |
| | | | | 3 | Direct | 80APV-5.75 | 0.3 | 6.5 | 30 | 17 |
| | | | 1.5 | 1 | Capacitor | 80APVN-51.5S | 0.4 | 8.5 | 50 | 32 |
| | | | | 3 | Direct | 80APVN-51.5 | 0.4 | 8.5 | 50 | 28 |
| | | | 2.2 | 1 | Capacitor | 80APVN-52.2S | 0.4 | 12.5 | 50 | 35 |
| | | | | 3 | Direct | 80APVN-52.2 | 0.4 | 12.5 | 50 | 30 |
| | | | 3.7 | 3 | Direct | 80APVN-53.7 | 0.5 | 16.5 | 50 | 33 |
| | | | 1.5 | 1 | Capacitor | 80APVNL-51.5S | 0.5 | 4.5 | 76 | 35 |
| | | | | 3 | Direct | 80APVNL-51.5 | 0.5 | 4.5 | 76 | 30 |
| | | | 2.2 | 1 | Capacitor | 80APVNL-52.2S | 0.5 | 7 | 76 | 37 |
| | | | | 3 | Direct | 80APVNL-52.2 | 0.5 | 7 | 76 | 32 |
| | | | 3.7 | 3 | Direct | 80APVNL-53.7 | 0.6 | 11 | 76 | 35 |
| | | | | | Capacitor | 50APVH-5.4S | 0.2 | 6.5 | 22 | 16 |
| | Semi-open | 50 | 0.4 | 3 | Direct | 50APVH-5.4 | 0.2 | 6.5 | 22 | 15 |
| | | | 0.75 | 1 | Capacitor | 50APVH-5.75S | 0.2 | 9 | 26 | 18 |
| | | | | 3 | Direct | 50APVH-5.75 | 0.2 | 9 | 26 | 17 |
| | | 80 | 1.5 | 1 | Capacitor | 80APVNH-51.5S | 0.6 | 8.5 | 35 | 34 |
| | | | | 3 | Direct | 80APVNH-51.5 | 0.6 | 8.5 | 35 | 30 |
| | | | 2.2 | 1 | Capacitor | 80APVNH-52.2S | 0.6 | 12.5 | 35 | 37 |
| | | | | 3 | Direct | 80APVNH-52.2 | 0.6 | 12.5 | 35 | 32 |
| | | | 3.7 | 3 | Direct | 80APVNH-53.7 | 0.6 | 19 | 35 | 35 |

## DIMENSIONS

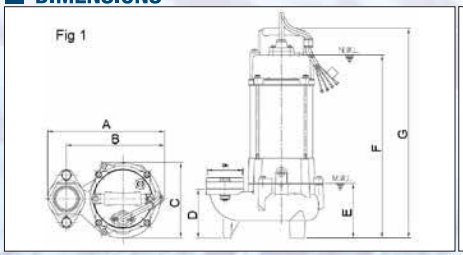


Fig 1

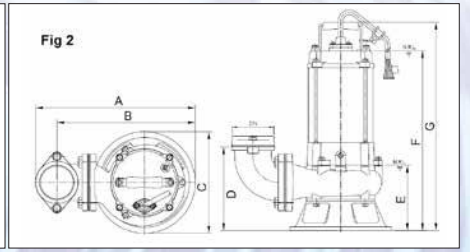


Fig 2

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50APV-5.4(S) | 1 | PF / NPT | 237 | 199 | 154 | 99 | 111 | 371 | 425 | 5000 |
| 50APV-5.75(S) | 1 | PF / NPT | 237 | 199 | 154 | 99 | 111 | 371 | 425 | 5000 |
| 50APVN-51.5S | 1 | PF / NPT | 288 | 250 | 202 | 88 | 100 | 483 | 546 | 8000 |
| 50APVN-51.5 | 1 | PF / NPT | 288 | 250 | 202 | 88 | 100 | 415 | 477 | 8000 |
| 80APV-5.75(S) | 3 | PF / NPT | 278 | 224 | 173 | 135 | 130 | 402 | 456 | 5000 |
| 80APVN-51.5S/-52.2S | 6 | PF / NPT | 402 | 348 | 202 | 176 | 140 | 525/537 | 588/600 | 8000 |
| 80APVN-51.5/-52.2 | 6 | PF / NPT | 402 | 348 | 202 | 176 | 141 | 456 | 519 | 8000 |
| 80APVN-53.7 | 5 | PF / NPT | 453 | 358 | 202 | 201 | 140 | 476 | 539 | 8000 |
| 80APVNL-51.5S/-52.2S | 6 | PF / NPT | 407 | 353 | 221 | 215 | 193 | 577/589 | 640/652 | 8000 |
| 80APVNL-51.5/-52.2 | 6 | PT / NPT | 407 | 353 | 221 | 215 | 193 | 508 | 571 | 8000 |
| 80APVNL-53.7 | 5 | PF / NPT | 458 | 363 | 221 | 240 | 193 | 528 | 591 | 8000 |
| 50APVH-5.4(S) | 2 | PF / NPT | 276 | 238 | 235 | 143 | 145 | 404 | 459 | 5000 |
| 50APVH-5.75(S) | 2 | PF / NPT | 276 | 238 | 235 | 143 | 145 | 404 | 459 | 5000 |
| 80APVNH-51.5S/-52.2S | 2 | PF / NPT | 417 | 363 | 260 | 218 | 163 | 527/539 | 590/602 | 8000 |
| 80APVNH-51.5/-52.2 | 2 | PT / NPT | 417 | 363 | 260 | 218 | 163 | 458 | 521 | 8000 |
| 80APVNH-53.7 | 4 | PT / NPT | 468 | 373 | 260 | 243 | 163 | 478 | 541 | 8000 |

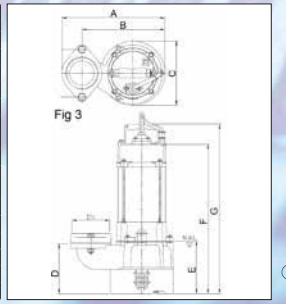


Fig 3

# ASU

## APPLICATIONS

- Waste water drainage for all industries.
- Extraction of water from river and lake.
- Pumping surface water, drainage water and flood water

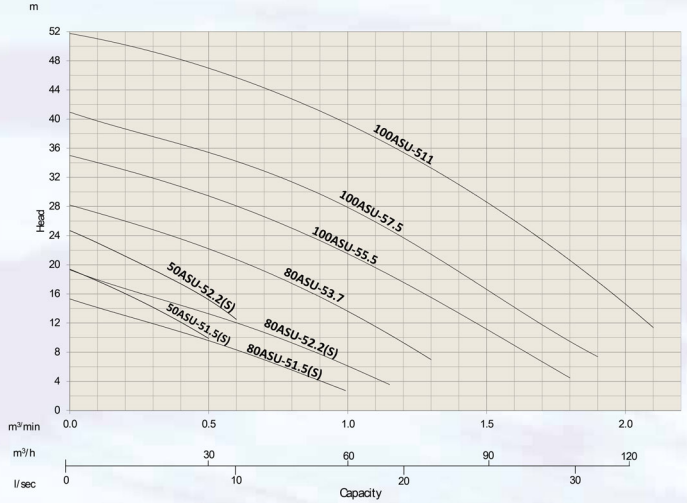
## FEATURES

- Entire cast iron structure and compact design.
- Equipped with AutoCut, silicon carbide double mechanical seals, epoxy cable base treatment.
- Compatible with guide rail system.
- High head and high efficiency suitable for a wide range of applications.

## SPECIFICATION

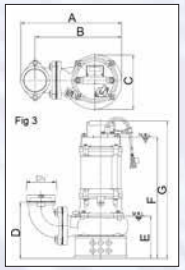
| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 · 100 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Waste water and sewage |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Semi-open |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Upper cover | FC200 |
| | | Impeller | FC200 |
| | | Casing | FC200 |
| | | Mech. seal | CA/CE & SiC/SiC |
| Motor | Type | | Dry type |
| | Insulation | | B class (≤2.2kW)<br>F class (≥3.7kW) |
| | Frequency · Pole | | 50Hz · 2P |
| | Protector | | Auto-cut(≤7.5kW)·MTP &WD(≥11kW) |
| | Material | Frame | FC200 |
| | | Main shaft | SUS420J2 (≥11kW)<br>SUS403 (≤7.5kW) |
| | | Cable | VCT |
| Optional | | | Float switch (≤2.2kW)<br>Water detector<br>Auto setter |

## SELECTION CHART

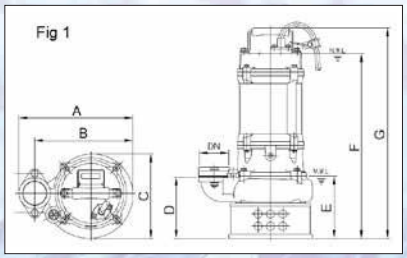


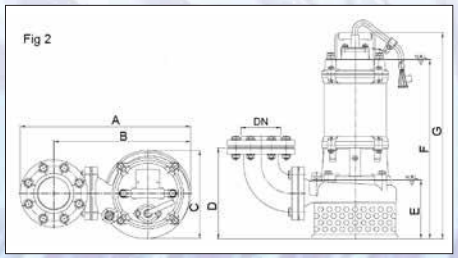

## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-open | 50 | 1.5 | 1 | Capacitor | 50ASU-51.5S | 0.4 | 12 | 20 | 35 |
| | | | | 3 | Direct | 50ASU-51.5 | 0.4 | 12 | 20 | 31 |
| | | | 2.2 | 1 | Capacitor | 50ASU-52.2S | 0.4 | 17.5 | 20 | 38 |
| | | | | 3 | Direct | 50ASU-52.2 | 0.4 | 17.5 | 20 | 34 |
| | | 80 | 1.5 | 1 | Capacitor | 80ASU-51.5S | 0.6 | 8.5 | 20 | 37 |
| | | | | 3 | Direct | 80ASU-51.5 | 0.6 | 8.5 | 20 | 32 |
| | | | 2.2 | 1 | Capacitor | 80ASU-52.2S | 0.6 | 12.5 | 20 | 39 |
| | | | | 3 | Direct | 80ASU-52.2 | 0.6 | 12.5 | 20 | 35 |
| | | | 3.7 | 3 | Direct | 80ASU-53.7 | 0.6 | 20.5 | 20 | 49 |
| | | 100 | 5.5 | 3 | Direct | 100ASU-55.5 | 1 | 21.5 | 20 | 75 |
| | | | 7.5 | 3 | Direct | 100ASU-57.5 | 1 | 28 | 20 | 81 |
| | | | 11 | 3 | Direct | 100ASU-511 | 1 | 39.5 | 20 | 91 |




## DIMENSIONS




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50ASU-51.5S | 1 | PF | 278 | 240 | 212 | 150 | 150 | 502 | 565 | 8000 |
| 50ASU-51.5 | 1 | PF | 278 | 240 | 212 | 150 | 150 | 451 | 514 | 8000 |
| 50ASU-52.2S | 1 | PF | 278 | 240 | 212 | 150 | 150 | 535 | 598 | 8000 |
| 50ASU-52.2 | 1 | PF | 278 | 240 | 212 | 150 | 150 | 451 | 514 | 8000 |
| 80ASU-51.5S | 3 | PF | 391 | 337 | 214 | 217 | 162 | 512 | 575 | 8000 |
| 80ASU-51.5 | 3 | PF | 391 | 337 | 214 | 217 | 162 | 457 | 520 | 8000 |
| 80ASU-52.2S | 3 | PF | 391 | 337 | 214 | 217 | 162 | 539 | 602 | 8000 |
| 80ASU-52.2 | 3 | PF | 391 | 337 | 214 | 217 | 162 | 457 | 520 | 8000 |
| 80ASU-53.7 | 2 | PT 3 | 470 | 376 | 242 | 250 | 176 | 510 | 578 | 8000 |
| 80(100)ASU-55.5 | 2 | PT 4 | 534(565) | 440(455) | 290 | 271(282) | 198 | 590 | 689 | 10000 |
| 80(100)ASU-57.5 | 2 | PT 4 | 534(565) | 440(455) | 290 | 271(282) | 198 | 590 | 689 | 10000 |
| 80(100)ASU-511 | 2 | PT 4 | 534(565) | 440(455) | 290 | 271(282) | 198 | 630 | 729 | 10000 |

# ABO (80mm～200mm)

## APPLICATIONS

- Drainage of sewage with solid in the city building
- Miscellaneous drainage and kitchen drainage
- Sewage management, accumulated water, septic tank, livestock farm
- Dewatering of waste water from the attenuation tank purifying tank and sewage tank in water treatment plant
- Drainage of other sewage with solid

## FEATURES

- International standard design: VCT cable, autocut, dry motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Superior abrasion resistant mechanical seals made of silicon carbide to ensure the best seal effect.
- Oil seal mounted outside of seal chamber prevents solids build-up around seal surface.
- Compatible with Guide Rail System, which allows convenient remote installation and replacement of the pump without the need to enter the pit.

### AUTO CUT

Equipped with an automatically reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

### MTP-Motor Thermal Protector

A Motor Thermal Protector is embedded in the windings of the motor. The MTP will transmit a signal to a control panel when windings temperature reaches preset threshold.

### IMPELLER

* ABO, ABOC Semi open impeller enable cutting of delicate materials to prevent clogging.
* ABOG Enclosed channel non clog impeller,allows large passage preventing clogging and allows effective drainage / dewatering for higher head applications with solids laden media.


### ABOC

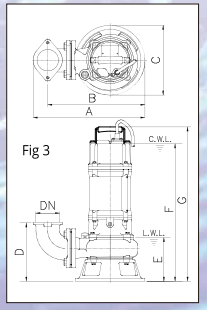
* ABOC equipped with a 2 pole motor, heat treated of bottom casing cover and impeller.
* Cutter with tungsten cutting foreign particles effectively and preventing clog by solid media which allow larger solid passage.

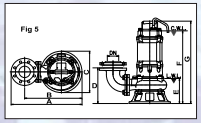
### WD WATER DETECTOR

* Pumps when equipped with this device in the mechanical seal chamber to detect any water intrusion or infiltration.
* The device will send a warning signal to the control panel to prevent motor failure induced by water ingress and save maintenance cost.

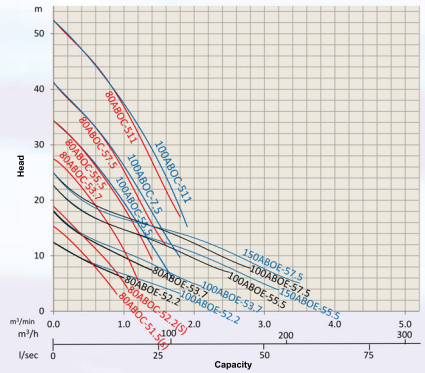
## SPECIFICATION

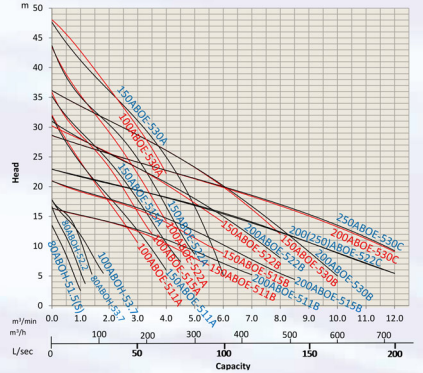
| | | Type | ABOC | ABOH | ABO(E) |
|---|---|---|---|---|---|
| | | Disc. Diameter(mm) | 80-100 | 80-100 | 100-150-200-250 |
| Pumping liquid | | Liquid temp | 0~40℃ | | |
| | | Liquid nature | Waste water and sewage | | Industrial waste water and sewage |
| | | Max. depth | 20M | | |
| Pump | Structure | Impeller | Semi-open | Semi-open | Enclosed |
| | | Mech. seal | Double mechanical seals | | |
| | | Bearing | Ball type bearing | | |
| | Material | Upper cover | FC200 | | |
| | | Impeller | Heat Treated FC200 | FC200 | FC200 |
| | | Cutter | Tungsten Blade | N.A. | N.A. |
| | | Agitator | N.A. | N.A. | N.A. |
| | | Casing | FC200 | | |
| | | Mech. seal | SIC/SIC | | |
| Motor | | Type | Dry type | | |
| | | Insulation | F class (H Class ≥ 5.5kW) | B class (F Class ≥ 3.7kW) | H Class |
| | | Frequency · Pole | 50Hz · 2P | 50Hz · 4P | 50Hz · 4P |
| | | Protector | Auto-cut( ≤7.5kW), Motor thermal protector(≥ 11kW) | | |
| | Material | Frame | FC200 | | |
| | | Main shaft | SUS403(≤ 7.5kW) SUS420J2(≥11kW) | SUS403 | SUS403(≤ 3.7kW) SUS420J2(≥5.5kW) |
| | | Cable | VCT or H07RN-F or SOW / HVCT (≥7.5kW) | | |
| Optional | | | Auto setter<br>Water detector<br>Float switch (ABO ≤ 1.5kW and ABOC) | | |



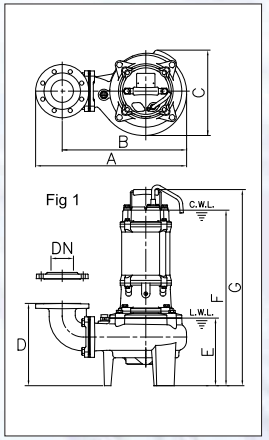

## SELECTION CHART




## PERFORMANCE SPECIFICATION

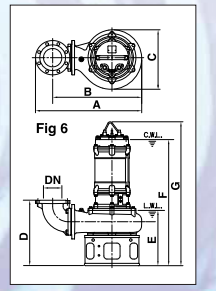
| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Semi-open | 80 | 1.5 | 1 | Capacitor | 80ABOH-51.5S | 0.5 | 8 | 50 | 47 |
| | | | | 3 | Direct | 80ABOH-51.5 | 0.5 | 8 | 50 | 47 |
| | | | 2.2 | 3 | Direct | 80ABOH-52.2 | 0.6 | 10 | 50 | 58 |
| | | | 3.7 | 3 | Direct | 80ABOH-53.7 | 0.6 | 14.5 | 50 | 67 |
| | | 100 | 3.7 | 3 | Direct | 100ABOH-53.7 | 1 | 11.5 | 50 | 67 |
| | Enclosed channel Non-clog | 80 | 2.2 | 3 | Direct | 80ABOE-52.2 | 0.8 | 7 | 76 | 60 |
| | | | 3.7 | 3 | Direct | 80ABOE-53.7 | 0.8 | 11 | 76 | 71 |
| | | 100 | 2.2 | 3 | Direct | 100ABOE-52.2 | 1 | 6.5 | 76 | 60 |
| | | | 3.7 | 3 | Direct | 100ABOE-53.7 | 1 | 10.5 | 76 | 71 |
| | | | 5.5 | 3 | Direct | 100ABOE-55.5 | 1 | 14 | 76 | 110 |
| | | | 7.5 | 3 | Direct | 100ABOE-57.5 | 1 | 17 | 76 | 120 |
| | | | 11 | 3 | Y-Δ | 100ABOE-511A | 1 | 24 | 76 | 164 |
| | | | 15 | 3 | Y-Δ | 100ABOE-515A | 1 | 29 | 76 | 176 |
| | | | 22 | 3 | Y-Δ | 100ABOE-522A | 1 | 35.5 | 76 | 229 |
| | | | 30 | 3 | Y-Δ | 100ABOE-530A | 1 | 42 | 76 | 250 |
| | | 150 | 5.5 | 3 | Direct | 150ABOE-55.5 | 1.5 | 12 | 76 | 110 |
| | | | 7.5 | 3 | Direct | 150ABOE-57.5 | 1.5 | 15 | 76 | 120 |
| | | | 11 | 3 | Y-Δ | 150ABOE-511A | 2.5 | 15.5 | 76 | 164 |
| | | | | 3 | Y-Δ | 150ABOE-511B | 2.5 | 13 | 80 | 198 |
| | | | 15 | 3 | Y-Δ | 150ABOE-515A | 2.5 | 21 | 76 | 176 |
| | | | | 3 | Y-Δ | 150ABOE-515B | 2.5 | 17 | 80 | 208 |
| | | | 22 | 3 | Y-Δ | 150ABOE-522A | 2.5 | 27.5 | 76 | 229 |
| | | | | 3 | Y-Δ | 150ABOE-522B | 2.5 | 24 | 76 | 276 |
| | | | 30 | 3 | Y-Δ | 150ABOE-530A | 2.5 | 33.5 | 76 | 250 |
| | | | | 3 | Y-Δ | 150ABOE-530B | 2.5 | 30 | 76 | 298 |
| | | 200 | 11 | 3 | Y-Δ | 200ABOE-511B | 4.5 | 9.5 | 80 | 198 |
| | | | 15 | 3 | Y-Δ | 200ABOE-515B | 4.5 | 13.5 | 80 | 208 |
| | | | 22 | 3 | Y-Δ | 200ABOE-522B | 4.5 | 19 | 76 | 276 |
| | | | | 3 | Y-Δ | 200ABOE-522C | 4.5 | 17.5 | 100x84 | 293 |
| | | | 30 | 3 | Y-Δ | 200ABOE-530B | 4.5 | 25 | 76 | 298 |
| | | | | 3 | Y-Δ | 200ABOE-530C | 4.5 | 22.5 | 100x84 | 315 |
| | | 250 | 22 | 3 | Y-Δ | 250ABOE-522C | 7 | 13.5 | 100x84 | 293 |
| | | | 30 | 3 | Y-Δ | 250ABOE-530C | 7 | 18.5 | 100x84 | 315 |
| 2 | Semi-Open with Cutter | 80/100 | 1.5 | 1 | Capacitor | 80ABOC-51.5S | 0.6 | 7.5 | 62 | 37 |
| | | | | 3 | Direct | 80ABOC-51.5 | 0.6 | 7.5 | 62 | 33 |
| | | | 2.2 | 1 | Capacitor | 80ABOC-52.2S | 0.6 | 11 | 62 | 40 |
| | | | | 3 | Direct | 80ABOC-52.2 | 0.6 | 11 | 62 | 35 |
| | | | 3.7 | 3 | Direct | 80ABOC-53.7 | 0.6 | 19 | 62 | 48 |
| | | | 5.5 | 3 | Direct | 80/100ABOC-55.5 | 0.6/1.0 | 26/19.5 | 67 | 75 |
| | | | 7.5 | 3 | Direct | 80/100ABOC-57.5 | 0.6/1.0 | 33/26 | 67 | 81 |
| | | | 11 | 3 | Y-Δ | 80/100ABOC-511 | 0.6/1.0 | 44/37 | 67 | 91 |




## DIMENSIONS

Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 80ABOH-51.5S | 4 | 80 | 474 | 420 | 288 | 226 | 182 | 582 | 645 | 8000 |
| 80ABOH-51.5 | 4 | 80 | 474 | 420 | 288 | 226 | 182 | 504 | 567 | 8000 |
| 80ABOH-52.2 | 4 | 80 | 550 | 456 | 313 | 251 | 184 | 529 | 603 | 8000 |
| 80(100)ABOH-53.7 | 1 | 80/100 | 550/581 | 456/471 | 313 | 251/263 | 184 | 569 | 643 | 8000 |
| 80(100)ABOE-52.2 | 1 | 80/100 | 521/551 | 426/441 | 287 | 294/305 | 241 | 586 | 660 | 8000 |
| 80(100)ABOE-53.7 | 1 | 80/100 | 539/569 | 444/459 | 304 | 294/305 | 241 | 626 | 700 | 8000 |
| 100(150)ABOE-55.5 | 1 | 100/150 | 653/713 | 543/573 | 374 | 328/385 | 276 | 687 | 786 | 8000 |
| 100(150)ABOE-57.5 | 1 | 100/150 | 653/713 | 543/573 | 374 | 328/385 | 276 | 727 | 826 | 10000 |
| 100(150)ABOE-511A | 1 | 100/150 | 743/803 | 633/663 | 447 | 341/371 | 286 | 793 | 918 | 10000 |
| 100(150)ABOE-515A | 1 | 100/150 | 743/803 | 633/663 | 447 | 341/371 | 286 | 793 | 918 | 10000 |
| 150(200)ABOE-511B | 6 | 150/200 | 838/839 | 698/723 | 450 | 529/539 | 444 | 951 | 1076 | 10000 |
| 150(200)ABOE-515B | 6 | 150/200 | 838/839 | 698/723 | 450 | 529/539 | 444 | 951 | 1076 | 10000 |
| 100(150)ABOE-522A | 1 | 100/150 | 778/838 | 668/698 | 476 | 352/382 | 297 | 834 | 979 | 10000 |
| 100(150)ABOE-530A | 1 | 100/150 | 778/838 | 668/698 | 476 | 352/382 | 297 | 874 | 1019 | 10000 |
| 150(200)ABOE-522B | 6 | 150/200 | 865/920 | 725/750 | 485 | 533/543 | 450 | 987 | 1132 | 10000 |
| 150(200)ABOE-530B | 6 | 150/200 | 865/920 | 725/750 | 485 | 533/543 | 450 | 1027 | 1172 | 10000 |
| 200(250)ABOE-522C | 6 | 200/250 | 1010/1073 | 840/870 | 524 | 613/628 | 495 | 1032 | 1177 | 10000 |
| 200(250)ABOE-530C | 6 | 200/250 | 1010/1073 | 840/870 | 524 | 613/628 | 495 | 1072 | 1217 | 10000 |
| 80ABOC-51.5S/-52.2S | 3 | 80 | 417 | 363 | 260 | 218 | 163 | 513/540 | 576/603 | 8000 |
| 80ABOC-51.5/-52.2 | 3 | 80 | 417 | 363 | 260 | 218 | 163 | 458 | 521 | 8000 |
| 80ABOC-53.7 | 5 | 80 | 498 | 403 | 290 | 250 | 176 | 510 | 578 | 8000 |
| 80(100)ABOC-55.5 | 5 | 80/100 | 565/596 | 471/486 | 345 | 271/282 | 198 | 590 | 689 | 8000 |
| 80(100)ABOC-57.5 | 5 | 80/100 | 565/596 | 471/486 | 345 | 271/282 | 198 | 590 | 689 | 10000 |
| 80(100)ABOC-511 | 5 | 80/100 | 565/596 | 471/486 | 345 | 271/282 | 198 | 630 | 729 | 10000 |



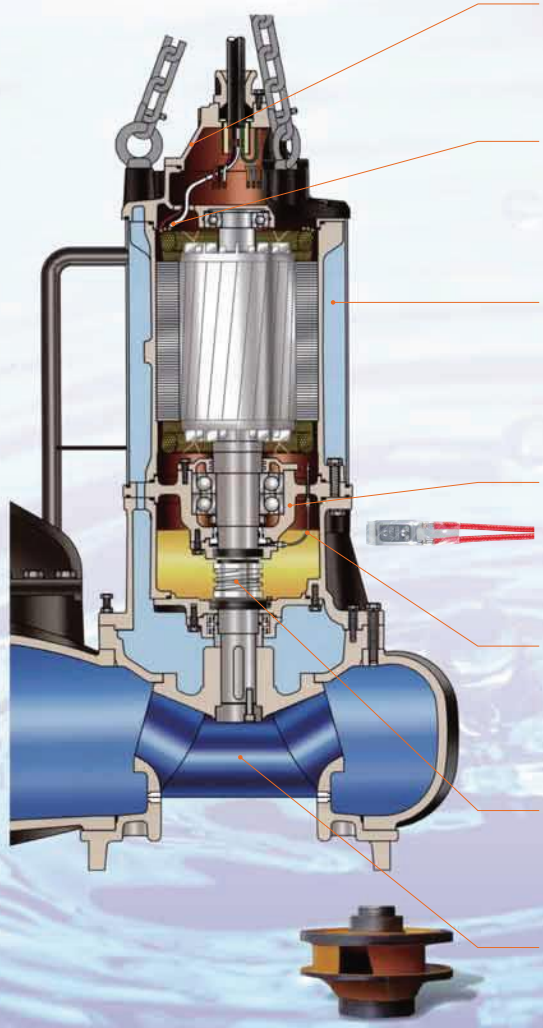
# ABO (250mm～400mm)

## SPECIAL SPECIFICATION

| | |
|---|---|
| Optional Material | • Stainless steel impeller |
| Optional Devices/ Accessories | • Bearing Thermal Detector |
| | • Auto Setter |

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 250～400 |
| Pumping liquid | Liquid temp | | 0～40℃ |
| | Liquid nature | | Aquaculture water・industrial water and sewage |
| | Max.depth | | 30m |
| Pump | Structure | Impeller | Enclosed channel non-clog impeller |
| | | Mech. seal | Double Mechanical seal |
| | | Protector | WD water detector |
| | Material | Upper cover | FC200 |
| | | Bearing | Heavy duty bearing |
| | | Impeller | FC200 |
| | | Casing | FC200 |
| | | Wear ring | Stainless steel |
| | | Mech. seal | Silicon carbide |
| Motor | Type | | Dry motor |
| | Insulation. Pole | | F class, 4P/6P |
| | Frequency | | 50Hz |
| | Protector | | Motor thermal protector(MTP) |
| | Material | Frame | FC200 |
| | | Main Shaft | SUS420J2 |
| | | Cable | 3PNCT |



### Cable base

The copper wires in the cable are exposed and coated with Epoxy resin to prevent water or moisture intrusion via damaged cable or wires. The reinforcement guarantees 100% water- proof and moisture-free.

### Motor over-heat protector

The built-in MTP (Motor Thermal Protector) will detect abnormal rise of temperature in motor winding and cut off power supply automatically when the excessive heat reaches preset threshold to protect the motor from overheating.

### Cooling jacket

Cooling Jacket allows the flow of water between motor frame and outer cover to form a circulating cooling system, which enables the pump to drain water to a lower level, increasing the operational range of the pump. (Pumps over 37kW or 50HP are equipped with Cooling Jacket as a standard. )

### Bearing Thermal detector (optional)

The optional Bearing Thermal Detector (BTD) is attached to the bearing for detection of excessive heat generated during its operation. When abnormal temperature is detected, the device will automatically cut off the power supply to prolong the bearing's life.

### WD Water detector (standard)

The device is installed in the Mechanical Seal Chamber to detect water ingress. It will send a signal to the control panel to shut down the pump to avoid motor burning out whenever a water intrusion is detected.

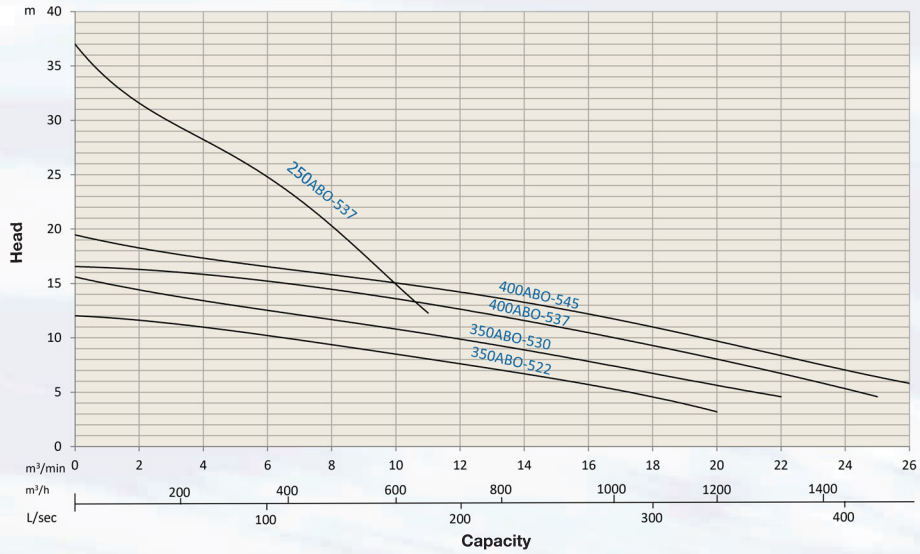
### High quality mechanical seals

The mechanical seals are made of silicon carbide, which make them more capable of resisting and withstanding the abrasion and corrosion, and substantially extend the life expectancy of the pump.

### Non-clog impeller

Non-clog impeller design, with high efficiency, excellent performance, and large solid passage. The best solution for drainage of effluent.

## SELECTION CHART



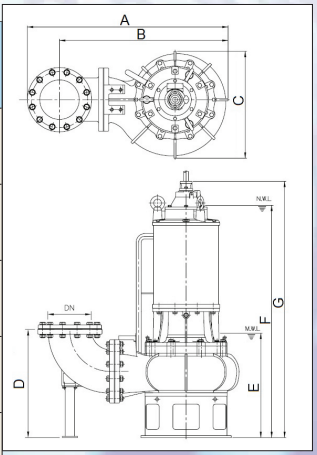

## PERFORMANCE SPECIFICATION

| Hz | Model | Power HP (kW) | Discharge Inch(mm) | Phase φ | Pole | Start Method | Head m | Capacity m3/min | Head ft | Capacity GPM | Solid passage mm | Weight kg (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 250ABO-537 | 50(37) | 10(250) | 3 | 4 | Y-Δ | 22 | 7 | 72.2 | 1850 | 60 | 691(1523) |
| | 350ABO-522 | 30(22) | 14(350) | 3 | 8 | Y-Δ | 6.5 | 14 | 21.3 | 3700 | 120 | 828(1825) |
| | 350ABO-530 | 40(30) | 14(350) | 3 | 6 | Y-Δ | 8.5 | 14 | 28 | 3700 | 120 | 833(1836) |
| | 400ABO-537 | 50(37) | 16(400) | 3 | 6 | Y-Δ | 7.5 | 20 | 24.6 | 5285 | 120 | 965(2127) |
| | 400ABO-545 | 60(45) | 16(400) | 3 | 6 | Y-Δ | 9 | 20 | 29.5 | 5285 | 120 | 970(2138) |

## DIMENSIONS

Unit: mm

| MODEL | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|
| 250ABO-537 | 250 | 1273 | 1070 | 676 | 684 | 660 | 1342 | 1621 | 10000 |
| 350ABO-522 | 350 | 1544 | 1277 | 813 | 883 | 800 | 1485 | 1763 | 10000 |
| 350ABO-530 | 350 | 1544 | 1277 | 813 | 883 | 800 | 1485 | 1763 | 10000 |
| 400ABO-537 | 400 | 1558 | 1277 | 813 | 883 | 800 | 1485 | 1763 | 10000 |
| 400ABO-545 | 400 | 1558 | 1277 | 813 | 883 | 800 | 1485 | 1763 | 10000 |

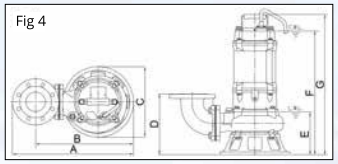


# AVC

## APPLICATIONS

- Drainage of waste water from the attenuation tank, purifying tank and sewage tank in water treatment plant
- Sewage management,accumulated water,septic tank, livestock farm
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Pumping sewage from single and multifamily dwellings.

Fig 4




## FEATURES

- International standard design: VCT cable, autocut, dry motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Superior abrasion resistant mechnical seal manufactured with silicon carbide to ensure the best seal effect.
- Oil seal mounted outside of seal chamber prevent solids build-up around seal surface.
- Compatible with Guide Rail System, which allows convenient remote installation and replacement of the pump without the need to enter the pit.

### CABLE BASE

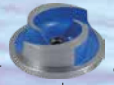
Epoxy resin sealed cable base to prevent moisture from entering motor.

### AUTO CUT

Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

### IMPELLER

* Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller.
The reversed rotation of 3 phase pumps will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.



* Semi open impeller can effectively chop down delicate materials to prevent congestion.

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 · 100 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Waste water and sewage |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Non-Clog |
| | | | Vortex: AVC(L) / Semi-Open: AVCH |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Upper cover | FC200 |
| | | Impeller | FC200 |
| | | Casing | FC200 |
| | | Mech. seal | SIC/SIC |
| Motor | Type | | Dry type |
| | Insulation | | B class (≥3.7kW : F Class) |
| | Frequency · Pole | | 50Hz · 2P |
| | Protector | | Auto-cut( ≤7.5kW), Motor thermal protector & WD(≥ 11kW) |
| | Material | Frame | FC200 |
| | | Main Shaft | SUS410(0.4 ~ 0.75kW) / SUS403(1.5~ 7.5kW) / SUS420J2(11kW) |
| | | Cable | VCT |
| Optional | | | Float switch(≤2.2kW)<br>Water detector(1.5kW~2.2kW)<br>Auto setter |



## SELECTION CHART

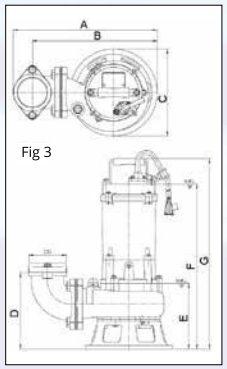
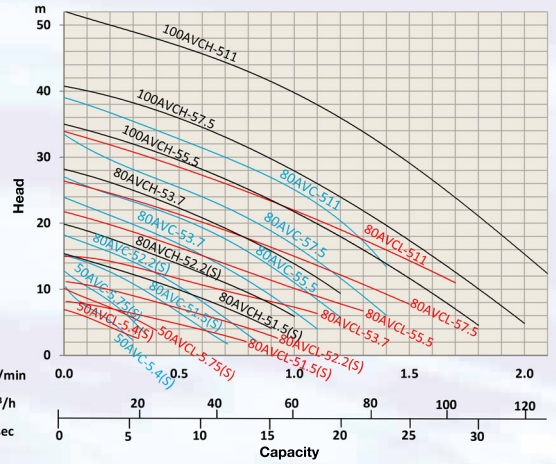



Fig 3




## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Vortex | 50 | 0.4 | 1 | Capacitor | 50AVC-5.4S | 0.15 | 6 | 35 | 19 |
| | | | | 3 | Direct | 50AVC-5.4 | 0.15 | 6 | 35 | 18 |
| | | | | 1 | Capacitor | 50AVCL-5.4S | 0.22 | 4 | 50 | 20 |
| | | | | 3 | Direct | 50AVCL-5.4 | 0.22 | 4 | 50 | 19 |
| | | | 0.75 | 1 | Capacitor | 50AVC-5.75S | 0.2 | 8 | 35 | 20 |
| | | | | 3 | Direct | 50AVC-5.75 | 0.2 | 8 | 35 | 19 |
| | | | | 1 | Capacitor | 50AVCL-5.75S | 0.25 | 6.5 | 50 | 22 |
| | | | | 3 | Direct | 50AVCL-5.75 | 0.25 | 6.5 | 50 | 21 |
| | | 80 | 1.5 | 1 | Capacitor | 80AVC-51.5S | 0.4 | 8.5 | 50 | 35 |
| | | | | 3 | Direct | 80AVC-51.5 | 0.4 | 8.5 | 50 | 32 |
| | | | | 1 | Capacitor | 80AVCL-51.5S | 0.5 | 4.5 | 76 | 38 |
| | | | | 3 | Direct | 80AVCL-51.5 | 0.5 | 4.5 | 76 | 34 |
| | | | 2.2 | 1 | Capacitor | 80AVC-52.2S | 0.4 | 12.5 | 50 | 38 |
| | | | | 3 | Direct | 80AVC-52.2 | 0.4 | 12.5 | 50 | 34 |
| | | | | 1 | Capacitor | 80AVCL-52.2S | 0.5 | 7 | 76 | 40 |
| | | | | 3 | Direct | 80AVCL-52.2 | 0.5 | 7 | 76 | 36 |
| | | | 3.7 | 3 | Direct | 80AVC-53.7 | 0.5 | 16.5 | 50 | 46 |
| | | | | 3 | Direct | 80AVCL-53.7 | 0.6 | 11 | 76 | 48 |
| | | | 5.5 | 3 | Direct | 80AVC-55.5 | 0.6 | 19.5 | 50 | 68 |
| | | | | 3 | Direct | 80AVCL-55.5 | 0.8 | 13 | 76 | 70 |
| | | | 7.5 | 3 | Direct | 80AVC-57.5 | 0.6 | 24 | 50 | 74 |
| | | | | 3 | Direct | 80AVCL-57.5 | 0.8 | 17.5 | 76 | 76 |
| | | | 11 | 3 | Direct | 80AVC-511 | 0.6 | 31.5 | 50 | 85 |
| | | | | 3 | Direct | 80AVCL-511 | 0.8 | 24.5 | 76 | 87 |
| | Semi-open | 80 | 1.5 | 1 | Capacitor | 80AVCH-51.5S | 0.6 | 8.5 | 35 | 37 |
| | | | | 3 | Direct | 80AVCH-51.5 | 0.6 | 8.5 | 35 | 33 |
| | | | 2.2 | 3 | Direct | 80AVCH-52.2 | 0.6 | 12.5 | 35 | 35 |
| | | | 3.7 | 3 | Direct | 80AVCH-53.7 | 0.6 | 20.5 | 32 | 48 |
| | | 100 | 5.5 | 3 | Direct | 100AVCH-55.5 | 1 | 21.5 | 30 | 75 |
| | | | 7.5 | 3 | Direct | 100AVCH-57.5 | 1 | 28 | 30 | 81 |
| | | | 11 | 3 | Direct | 100AVCH-511 | 1 | 39.5 | 30 | 91 |

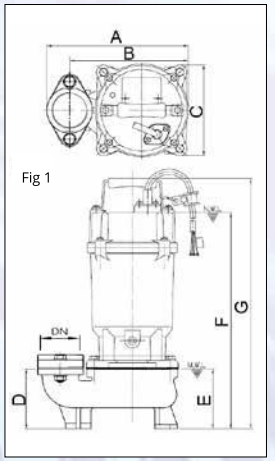



Fig 1

## DIMENSIONS

Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50AVC-5.4(S)/-5.75(S) | 1 | PF / NPT | 235 | 197 | 154 | 99 | 100 | 360 | 417 | 5000 |
| 80AVC-51.5S | 1 | PF / NPT | 397 | 343 | 202 | 171 | 140 | 511 | 574 | 8000 |
| 80AVC-51.5/-52.2 | 1 | PF / NPT | 397 | 343 | 202 | 171 | 140 | 456 | 519 | 8000 |
| 80AVC-52.2S | 1 | PF / NPT | 397 | 343 | 202 | 171 | 140 | 538 | 601 | 8000 |
| 80AVC-53.7 | 2 | PT / NPT | 481 | 389 | 222 | 205 | 145 | 505 | 573 | 8000 |
| 80AVC-55.5/-57.5 | 2 | PT / NPT | 501 | 407 | 258 | 206 | 147 | 566 | 665 | 10000 |
| 80AVC-511 | 2 | PT / NPT | 501 | 407 | 258 | 206 | 147 | 606 | 705 | 10000 |
| 80AVCH-51.5S | 3 | PF / NPT | 417 | 363 | 260 | 218 | 163 | 513 | 576 | 8000 |
| 80AVCH-52.2S | 3 | PF / NPT | 417 | 363 | 260 | 218 | 163 | 540 | 603 | 8000 |
| 80AVCH-51.5/-52.2 | 3 | PF / NPT | 417 | 363 | 260 | 218 | 163 | 458 | 521 | 8000 |
| 80AVCH-53.7 | 4 | PT / NPT | 498 | 403 | 290 | 250 | 176 | 510 | 578 | 8000 |
| 80(100)AVCH-55.5 | 4 | PT / NPT | 565(596) | 471(486) | 345 | 271(282) | 198 | 590 | 689 | 10000 |
| 80(100)AVCH-57.5 | 4 | PT / NPT | 565(596) | 471(486) | 345 | 271(282) | 198 | 590 | 689 | 10000 |
| 80(100)AVCH-511 | 4 | PT / NPT | 565(596) | 471(486) | 345 | 271(282) | 198 | 630 | 729 | 10000 |
| 50AVCL-5.4(S)/-5.75(S) | 1 | PF / NPT | 307 | 268 | 164 | 150 | 130 | 390 | 447 | 5000 |
| 80AVCL-51.5S | 1 | PF / NPT | 402 | 348 | 221 | 210 | 190 | 563 | 626 | 8000 |
| 80AVCL-51.5/-52.2 | 1 | PF / NPT | 402 | 348 | 221 | 210 | 190 | 508 | 571 | 8000 |
| 80AVCL-52.2S | 1 | PF / NPT | 402 | 348 | 221 | 210 | 190 | 590 | 653 | 8000 |
| 80AVCL-53.7 | 2 | PT / NPT | 481 | 389 | 235 | 241 | 197 | 557 | 625 | 8000 |
| 80AVCL-55.5/-57.5 | 2 | PT / NPT | 506 | 412 | 273 | 242 | 199 | 618 | 717 | 10000 |
| 80AVCL-511 | 2 | PT / NPT | 506 | 412 | 273 | 242 | 199 | 658 | 757 | 10000 |

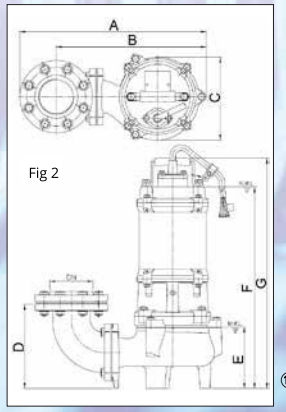



Fig 2

# ACU

## APPLICATIONS

- Drainage of waste water from the attenuation tank, purifying tank and sewage tank in water treatment plant
- Sewage management,accumulated water,septic tank, livestock farm
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.
- Pumping sewage from single and multifamily dwellings.

## FEATURES

- International standard design: VCT cable, autocut, dry motor, silicon carbide mechanical seal, high grade cast iron offering highest quality and performance.
- Superior abrasion resistant mechanical seal made of silicon carbide to ensure the best seal effect.
- Oil seal mounted outside seal chamber solids build-up around seal surface.
- Compatible with Guide Rail System, which allows convenient remote installation and replacement of the pump without the need to enter the pit.

### CABLE BASE

Epoxy resin sealed cable base to prevent moisture from entering into motor.

### AUTO CUT

Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

### IMPELLER

Vortex impellers create a hydraulic passage,allowing long fibrous materials to pass through without any contact with the impeller.
The reversed rotation of 3 phase pumps will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

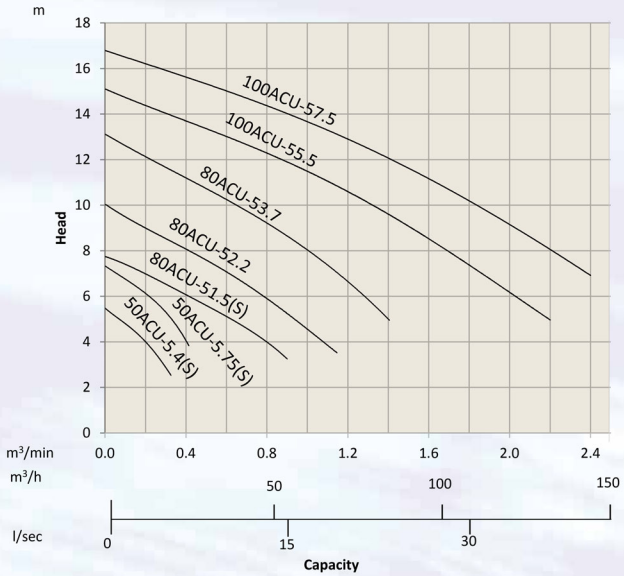
### MOTOR

The motors are produced under the strictest quality control procedures, the stator winding is impregnated with varnish resin and oven heated for up to 8 hours.

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 · 100 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Waste water and sewage |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Vortex |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Upper cover | FC200 |
| | | Impeller | FC200 |
| | | Casing | FC200 |
| | | Mech. seal | SIC/SIC |
| Motor | Type | | Dry type |
| | Insulation | | B class (≥3.7kW : F Class) |
| | Frequency Pole | | 50Hz · 4P |
| | Protector | | Auto-cut |
| | Material | Frame | FC200 |
| | | Main Shaft | SUS420J2(≥5.5kW) SUS403 (0.4 ~ 3.7kW) |
| | | Cable | VCT / HVCT (5.5kW) |
| Optional | | | Float switch (≤1.5kW) Water detector (≥1.5kW) Auto setter |

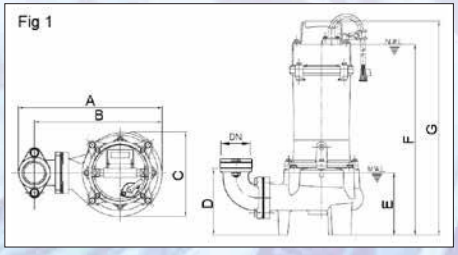
## SELECTION CHART

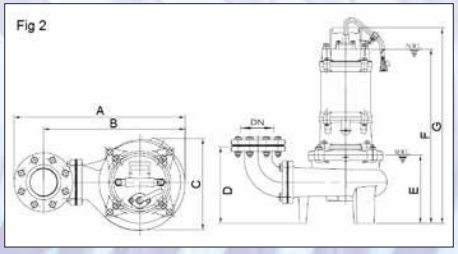



## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Vortex | 50 | 0.4 | 1 | Capacitor | 50ACU-5.4S | 0.25 | 3.5 | 50 | 30 |
| | | | | 3 | Direct | 50ACU-5.4 | 0.25 | 3.5 | 50 | 28 |
| | | | 0.75 | 1 | Capacitor | 50ACU-5.75S | 0.3 | 5 | 50 | 30 |
| | | | | 3 | Direct | 50ACU-5.75 | 0.3 | 5 | 50 | 29 |
| | | 80 | 1.5 | 1 | Capacitor | 80ACU-51.5S | 0.6 | 5 | 76 | 46 |
| | | | | 3 | Direct | 80ACU-51.5 | 0.6 | 5 | 76 | 46 |
| | | | 2.2 | 3 | Direct | 80ACU-52.2 | 0.6 | 7 | 76 | 55 |
| | | | 3.7 | 3 | Direct | 80ACU-53.7 | 0.6 | 10 | 76 | 63 |
| | | 100 | 5.5 | 3 | Direct | 100ACU-55.5 | 1 | 11 | 100 | 96 |
| | | | 7.5 | 3 | Direct | 100ACU-57.5 | 1 | 13.5 | 100 | 105 |

## DIMENSIONS




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50ACU-5.4S | 1 | PF / NPT | 347 | 308 | 204 | 160 | 150 | 469 | 526 | 5000 |
| 50ACU-5.4 | 1 | PF / NPT | 347 | 308 | 204 | 160 | 150 | 469 | 526 | 5000 |
| 50ACU-5.75S | 1 | PF / NPT | 347 | 308 | 204 | 160 | 150 | 469 | 526 | 5000 |
| 50ACU-5.75 | 1 | PF / NPT | 347 | 308 | 204 | 160 | 150 | 469 | 526 | 5000 |
| 80ACU-51.5S | 1 | PT / NPT | 447 | 393 | 260 | 236 | 234 | 634 | 697 | 8000 |
| 80ACU-51.5 | 1 | PT / NPT | 447 | 393 | 260 | 236 | 234 | 556 | 620 | 8000 |
| 80ACU-52.2 | 2 | PT / NPT | 532 | 438 | 288 | 261 | 234 | 579 | 653 | 8000 |
| 80ACU-53.7 | 2 | PT / NPT | 532 | 438 | 288 | 261 | 234 | 619 | 693 | 8000 |
| 100ACU-55.5 | 2 | PT / NPT | 615 | 506 | 337 | 310 | 303 | 714 | 813 | 10000 |
| 100ACU-57.5 | 2 | PT / NPT | 615 | 506 | 337 | 310 | 303 | 754 | 853 | 10000 |

# AGO

## APPLICATIONS

- Suitable for pressure sewage system.
- Transferring wastewater of commercial buildings, industrial plants, wastewater sampling, small hospitals.
- To transfer various wastewater and sewage.
- Drainage of wastewater from individual residences, apartment buildings, recreational developments.

## FEATURES

- Vortex impeller designed to prevent congestion by fragmented articles.
- Durable heavy duty finned cast iron construction.
- Radial cutter and cutter ring : The impeller can prevent from clogging when grinding the objects.


Radial cutter


Cutter ring

- Standard accessories include : epoxy resin cable base, dry motor, double mechanical seals, autocut protection, double ball bearings supported shaft and rotor.
- Optional: WD water detector protects the motor from sewage contamination, to provide you with exceptionally long pump service.

### CABLE BASE

Epoxy resin sealed cable base to prevent moisture from entering into motor.

### AUTO CUT

Equipped with an automatic reset motor protector, which prevents the motor from burning due to high temperature / high ampere and / or locked impeller.

### IMPELLER

Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller.
The reversed rotation of 3 phase pumps will result in higher than rated current, which may cause property or personal damage. In this case, please rewire the cable connection for proper operation.

### MOTOR

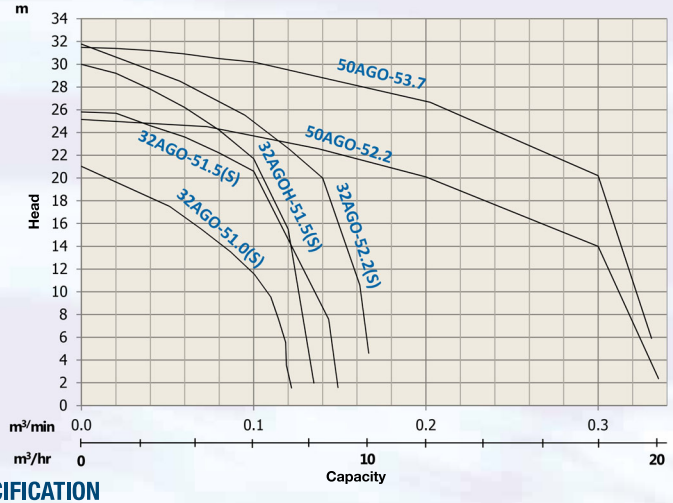
Dry type,high efficiency copper wound motors with F class insulation.
The motors are produced under the strictest quality control procedures, the stator winding is impregnated with varnish resin and oven heated for up to 8 hours.

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 32 · 50 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Residential waste water · Sewage |
| Pump | Structure | Impeller | Semi-open |
| | | Cutting Construction | Grinding |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Casing | FC200 |
| | | Impeller | FC200 |
| | | Radial Cutter | SUS440C( 55-60 Rockwell C.) |
| | | Cutter Ring | SUS440C( 55-60 Rockwell C.) |
| | | Mech. seal | Silicon Carbide |
| Motor | Type | | Dry type |
| | Insulation | | B class (≥3.7kW : F Class) |
| | Frequency · Pole | | 50Hz · 2P |
| | Protect devices | | Auto-cut |
| | Material | Frame | FC200 |
| | | Main Shaft | SUS403 |
| | | Cable | VCT |
| Optional | | | Float switch (<3.7kW)<br>Water detector (≥1.5kW)<br>Auto setter |



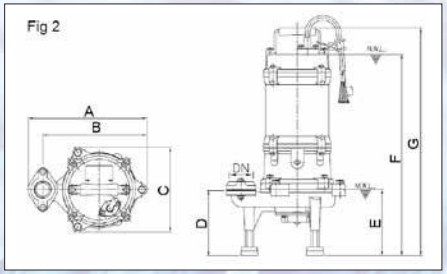
## SELECTION CHART

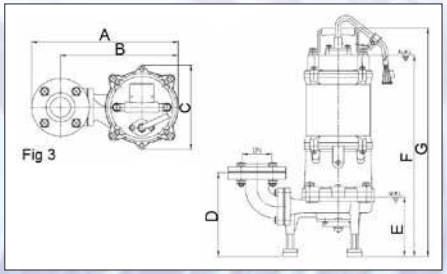



## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-Open + Grinder | 32 | 1 | 1 | Capacitor | 32AGO-51.0S | 0.06 | 17 | 27 |
| | | | | 3 | Direct | 32AGO-51.0 | 0.06 | 17 | 25 |
| | | | 1.5 | 1 | Capacitor | 32AGO-51.5S | 0.06 | 23 | 36 |
| | | | | 3 | Direct | 32AGO-51.5 | 0.06 | 23 | 32 |
| | | | | 1 | Capacitor | 32AGOH-51.5S | 0.06 | 26 | 36 |
| | | | | 3 | Direct | 32AGOH-51.5 | 0.06 | 26 | 32 |
| | | | 2.2 | 1 | Capacitor | 32AGO-52.2S | 0.06 | 28 | 38 |
| | | | | 3 | Direct | 32AGO-52.2 | 0.06 | 29 | 35 |
| | | 50 | 2.2 | 3 | Direct | 50AGO-52.2 | 0.2 | 20 | 44 |
| | | | 3.7 | 3 | Direct | 50AGO-53.7 | 0.2 | 27 | 47 |

## DIMENSIONS




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 32AGO-51.0S | 2 | PT / NPT | 249 | 214 | 177 | 156 | 158 | 498 | 555 | 8000 |
| 32AGO-51.0 | 2 | PT / NPT | 249 | 214 | 177 | 156 | 158 | 473 | 530 | 8000 |
| 32AGO-51.5S | 2 | PT / NPT | 285 | 250 | 203 | 156 | 158 | 533 | 596 | 8000 |
| 32AGO-51.5 | 2 | PT / NPT | 285 | 250 | 203 | 156 | 158 | 478 | 541 | 8000 |
| 32AGOH-51.5S | 2 | PT / NPT | 285 | 250 | 203 | 156 | 158 | 533 | 596 | 8000 |
| 32AGOH-51.5 | 2 | PT / NPT | 285 | 250 | 203 | 156 | 158 | 478 | 541 | 8000 |
| 32AGO-52.2S | 2 | PT / NPT | 285 | 250 | 203 | 156 | 158 | 560 | 623 | 8000 |
| 32AGO-52.2 | 2 | PT / NPT | 285 | 250 | 203 | 156 | 158 | 478 | 541 | 8000 |
| 50AGO-52.2 | 3 | PT / NPT | 395 | 318 | 226 | 234 | 160 | 521 | 589 | 8000 |
| 50AGO-53.7 | 3 | PT / NPT | 395 | 318 | 226 | 234 | 160 | 541 | 609 | 8000 |

# ACS


## APPLICATIONS

- Aquaculture water supply and drainage.
- Water supply for agricultural irrigation systems and underground water pumping.
- Landscape, water feature and horticulture irrigation.
- Extraction of water from rivers, lakes and reservoirs.

## FEATURES

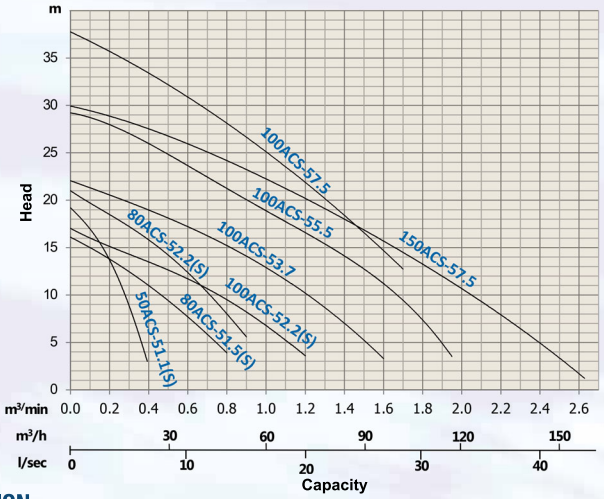
- Standard design featuring : VCT cable and dry motor equipped with thermal Auto Cut prevent motor from over heating.Abrasion resistant double mechanical seals.
- Superior design of hydro motor cooling system ensures the stable performance and extends the life expectancy of the device.

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 · 100 · 150 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Agriculture irrigation, Other drainage |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Enclosed channel |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Out cover | SUS304 |
| | | Upper cover | FC200 |
| | | Impeller | Bronze (≤1.1kW), Chrome steel (≥1.5kW) |
| | | Casing | FC200 |
| | | Mech. seal | SIC/SIC |
| Motor | Type | | Dry type |
| | Insulation | | B class ( F class ≥ 3.7kW) |
| | Frequency · Pole | | 50Hz · 2P |
| | Protector | | Auto-cut |
| | Material | Frame | SUS304 (1.1kW), FC200(≥ 1.5kW) |
| | | Main Shaft | SUS403(≤2.2kW), SUS304(≥ 3.7kW) |
| | | Cable | VCT / HVCT (≥5.5kW) |

## OPTIONAL OUTLET ACCESSORIES

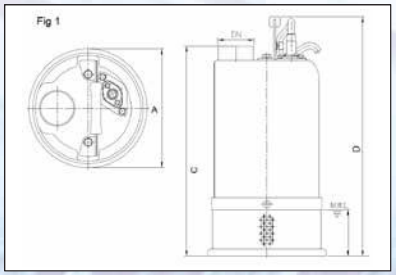

## SELECTION CHART

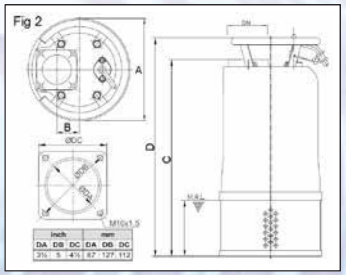



## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase ϕ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Enclosed | 50 | 1.1 | 1 | Capacitor | 50ACS-51.1S | 0.2 | 13.5 | 3.5 | 28 |
| | | | | 3 | Direct | 50ACS-51.1 | 0.2 | 13.5 | 3.5 | 24 |
| | | 80 | 1.5 | 1 | Capacitor | 80ACS-51.5S | 0.5 | 9.5 | 10 | 40 |
| | | | | 3 | Direct | 80ACS-51.5 | 0.5 | 9.5 | 10 | 36 |
| | | | 2.2 | 1 | Capacitor | 80ACS-52.2S | 0.5 | 14 | 10 | 45 |
| | | | | 3 | Direct | 80ACS-52.2 | 0.5 | 14 | 10 | 39 |
| | | 100 | 2.2 | 1 | Capacitor | 100ACS-52.2S | 0.8 | 9.5 | 10 | 45 |
| | | | | 3 | Direct | 100ACS-52.2 | 0.8 | 9.5 | 10 | 39 |
| | | | 3.7 | 3 | Direct | 100ACS-53.7 | 1 | 12.5 | 10 | 44 |
| | | | 5.5 | 3 | Direct | 100ACS-55.5 | 1 | 19 | 10 | 75 |
| | | | 7.5 | 3 | Direct | 100ACS-57.5 | 1 | 25 | 10 | 80 |
| | | 150 | 7.5 | 3 | Direct | 150ACS-57.5 | 1.5 | 17 | 10 | 81 |

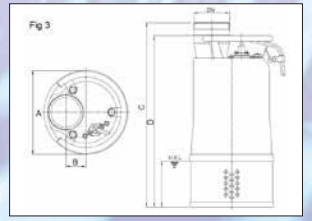
## DIMENSIONS




Unit: mm

| MODEL | Fig | DN | A | B | C | D | CABLE LENGTH |
|---|---|---|---|---|---|---|---|
| 50ACS-51.1S | 1 | Female PS 2 | 210 | 55 | 431 | 482 | 8000 |
| 50ACS-51.1 | 1 | Female PS 2 | 210 | 55 | 372 | 423 | 8000 |
| 80ACS-51.5S | 3 | Male PF 3 | 235 | 56 | 548 | 511 | 8000 |
| 80ACS-51.5 | 3 | Male PF 3 | 235 | 56 | 503 | 466 | 8000 |
| 80ACS-52.2S | 3 | Male PF 3 | 235 | 56 | 578 | 541 | 8000 |
| 80ACS-52.2 | 3 | Male PF 3 | 235 | 56 | 503 | 466 | 8000 |
| 100ACS-52.2S | 3 | Male PF 4 | 235 | 56 | 593 | 556 | 8000 |
| 100ACS-52.2 | 3 | Male PF 4 | 235 | 56 | 518 | 481 | 8000 |
| 100ACS-53.7 | 3 | Male PF 4 | 235 | 56 | 548 | 511 | 8000 |
| 100ACS-55.5 | 2 | 100 | 286 | 63 | 550 | 610 | 10000 |
| 100ACS-57.5 | 2 | 100 | 286 | 63 | 550 | 610 | 10000 |
| 150ACS-57.5 | 2 | 150 | 286 | 63 | 550 | 610 | 10000 |



# APLS

## APPLICATIONS

- Waste drainage for industries.
- Sanitary sewer, single and multifamilies drainage.
- Water drainage for chemical, pharmaceutical and metal processing factory.

## FEATURES

- This series is suitable for mildly corrosive applications.
- Reliable structure design, dry motor, double mechanical seals, equipped Auto Cut protector, stainless steel pump casing and motor frame, acid-resistant Silicon carbide seals.

### VITON O-RING

Viton O-rings are utilized in the joints of the pump to provide better protection against corrosive substance and aggressive media.

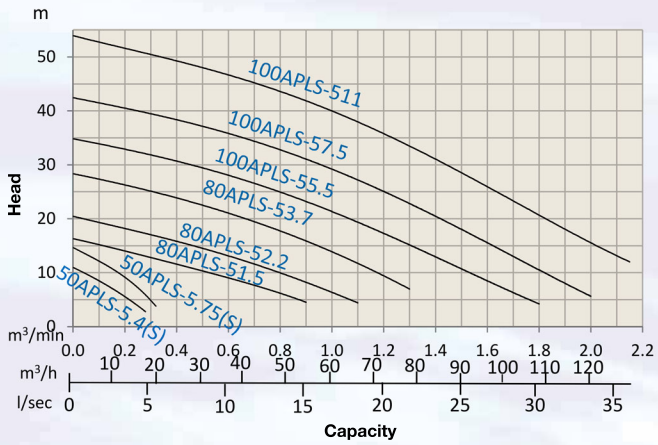
### INVESTMENT CASTING

Advanced Investment Casting (Lost-Wax Casting) is employed for the manufacture of the stainless steel components of the pumps to effectively reduce the sand hole created by conventional casting method and also give the smooth texture and pleasing appearance.

## SPECIFICATION

| | | |
|---|---|---|
| APPLICATION | Disc. Diameter(mm) | 50 · 80 · 100 |
| | Liquid temp | 0~40°C |
| | Liquid nature | Acid / Alkaline / Corrosive Liquid between PH 5~11 |
| | Max. depth | 30M |
| STRUCTURE | Impeller | Semi-open |
| | Mech. seal | Double mechanical seals |
| | Bearing | Ball type bearing |
| MATERIAL | Upper cover | SCS14 |
| | Frame | SUS316 |
| | Impeller | SCS14 |
| | Casing | SCS14 |
| | Mech. seal | SIC/SIC |
| | Main shaft | SUS316 |
| | Cable | VCT |
| MOTOR | Type | Dry & High-Efficiency Motor |
| | Insulation | B Class ( ≥3.7kW: F Class) |
| | Frequency · Pole | 50Hz · 2P |
| | Protector | Auto-cut (Overheat protector: 0.4kW-1Ph) (MTP & WD ≥11kW) |
| Optional | | Float switch (≤0.75kW)<br>Water detector (≥1.5kW)<br>Auto setter |

## SELECTION CHARTS




## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-Open | 50 | 0.4 | 1 | Capacitor | 50APLS-5.4S | 0.12 | 7 | 10 | 14 |
| | | | | 3 | Direct | 50APLS-5.4 | 0.12 | 7 | 10 | 14 |
| | | | 0.75 | 1 | Capacitor | 50APLS-5.75S | 0.17 | 10 | 10 | 16 |
| | | | | 3 | Direct | 50APLS-5.75 | 0.17 | 10 | 10 | 15 |
| | | 80 | 1.5 | 3 | Direct | 80APLS-51.5 | 0.6 | 8.5 | 20 | 29.5 |
| | | | 2.2 | 3 | Direct | 80APLS-52.2 | 0.6 | 12.5 | 20 | 32.5 |
| | | | 3.7 | 3 | Direct | 80APLS-53.7 | 0.6 | 20.5 | 20 | 44.5 |
| | | | 5.5 | 3 | Direct | 80APLS-55.5 | 0.6 | 28 | 20 | 67 |
| | | | 7.5 | 3 | Direct | 80APLS-57.5 | 0.6 | 35.5 | 20 | 73 |
| | | | 11 | 3 | Direct | 80APLS-511 | 0.6 | 46 | 20 | 82 |
| | | 100 | 5.5 | 3 | Direct | 100APLS-55.5 | 1 | 21.5 | 20 | 67 |
| | | | 7.5 | 3 | Direct | 100APLS-57.5 | 1 | 29 | 20 | 73 |
| | | | 11 | 3 | Direct | 100APLS-511 | 1 | 39.5 | 20 | 82 |

## DIMENSIONS

Fig 1

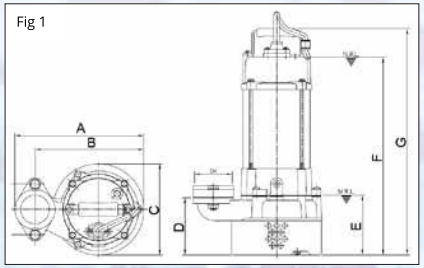
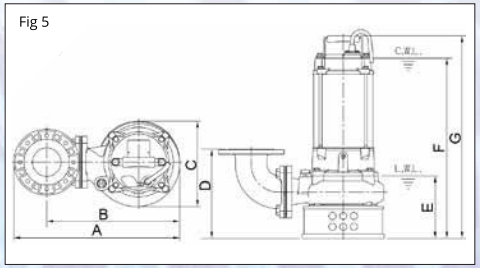



Fig 5




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50APLS-5.4S | 1 | PF / NPT | 244 | 206 | 172 | 108 | 112 | 382 | 435 | 5000 |
| 50APLS-5.4 | 1 | PF / NPT | 244 | 206 | 172 | 108 | 112 | 382 | 435 | 5000 |
| 50APLS-5.75S | 1 | PF / NPT | 244 | 206 | 172 | 108 | 112 | 382 | 435 | 5000 |
| 50APLS-5.75 | 1 | PF / NPT | 244 | 206 | 172 | 108 | 112 | 382 | 435 | 5000 |
| 80APLS-51.5 | 1 | PF / NPT | 390 | 336 | 212 | 217 | 162 | 457 | 520 | 8000 |
| 80APLS-52.2 | 1 | PF / NPT | 390 | 336 | 212 | 217 | 162 | 457 | 520 | 8000 |
| 80APLS-53.7 | 5 | PT / NPT | 465 | 373 | 239 | 250 | 176 | 505 | 568 | 8000 |
| 80APLS-55.5 | 5 | PT / NPT | 528 | 436 | 286 | 271 | 198 | 585 | 684 | 8000 |
| 80APLS-57.5 | 5 | PT / NPT | 528 | 436 | 286 | 271 | 198 | 585 | 684 | 10000 |
| 80APLS-511 | 5 | PT / NPT | 528 | 436 | 286 | 271 | 198 | 625 | 724 | 10000 |
| 100APLS-55.5 | 5 | PT / NPT | 556 | 451 | 286 | 276 | 198 | 585 | 684 | 8000 |
| 100APLS-57.5 | 5 | PT / NPT | 556 | 451 | 286 | 276 | 198 | 585 | 684 | 10000 |
| 100APLS-511 | 5 | PT / NPT | 556 | 451 | 286 | 276 | 198 | 625 | 724 | 10000 |

# APVS

## APPLICATIONS

- Waste drainage for industries.
- Sanitary sewer, single and multifamilies drainage.
- Water drainage for chemical, pharmaceutical and metal processing factory.

## FEATURES

- This series is suitable for mildly corrosive applications.
- Reliable structure design, dry motor, double mechanical seals, equipped Auto Cut protector, stainless steel pump casing and motor frame, acid-resistant Silicon carbide seals.

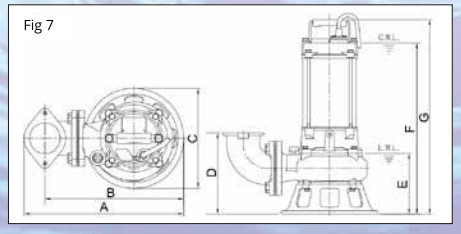
### VITON O-RING

Viton O-rings are utilized in the joints of the pump to provide better protection against corrosive substance and aggressive media.

### INVESTMENT CASTING

Advanced Investment Casting (Lost-Wax Casting) is employed for the manufacture of the stainless steel components of the pumps to effectively reduce the sand hole created by conventional casting method and also give the smooth texture and pleasing appearance.

Fig 7

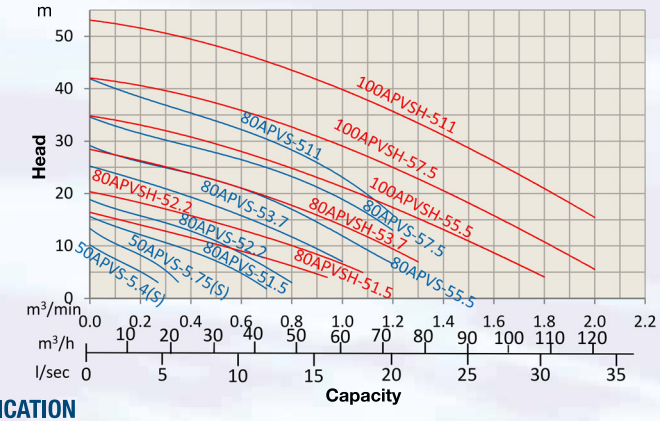



## SPECIFICATION

| | | |
|---|---|---|
| APPLICATION | Disc. Diameter(mm) | 50 · 80 · 100 |
| | Liquid temp | 0~40°C |
| | Liquid nature | Acid / Alkaline / Corrosive Liquid between PH 5~11 |
| | Max. depth | 30M |
| STRUCTURE | Impeller | Semi-open |
| | Mech. seal | Double mechanical seals |
| | Bearing | Ball type bearing |
| MATERIAL | Upper cover | SCS14 |
| | Frame | SUS316 |
| | Impeller | SCS14 |
| | Casing | SCS14 |
| | Mech. seal | SIC/SIC |
| | Main shaft | SUS316 (SUS630 ≥ 11kW) |
| | Cable | VCT |
| MOTOR | Type | Dry & High-Efficiency Motor |
| | Insulation | B Class ( ≥3.7kW: F Class) |
| | Frequency · Pole | 50Hz · 2P |
| | Protector | Auto-cut (Overheat protector: 0.4kW·1Ph) (MTP & WD ≥11kW) |
| Optional | | Float switch (≤0.75kW)<br>Water detector (≥1.5kW)<br>Auto setter |



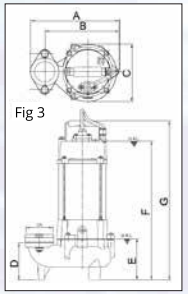
## SELECTION CHARTS




## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-Open | 50 | 0.4 | 1 | Capacitor | 50APVS-5.4S | 0.15 | 6 | 35 | 15 |
| | | | | 3 | Direct | 50APVS-5.4 | 0.15 | 6 | 35 | 14 |
| | | | 0.75 | 1 | Capacitor | 50APVS-5.75S | 0.2 | 8 | 35 | 16 |
| | | | | 3 | Direct | 50APVS-5.75 | 0.2 | 8 | 35 | 15 |
| | | 80 | 1.5 | 3 | Direct | 80APVS-51.5 | 0.4 | 8.5 | 50 | 26.5 |
| | | | 2.2 | 3 | Direct | 80APVS-52.2 | 0.4 | 13 | 50 | 29 |
| | | | 3.7 | 3 | Direct | 80APVS-53.7 | 0.5 | 17.5 | 50 | 40 |
| | | | 5.5 | 3 | Direct | 80APVS-55.5 | 0.6 | 21 | 50 | 61 |
| | | | 7.5 | 3 | Direct | 80APVS-57.5 | 0.6 | 26 | 50 | 67 |
| | | | 11 | 3 | Direct | 80APVS-511 | 0.6 | 33 | 50 | 76 |
| | | | 1.5 | 3 | Direct | 80APVSH-51.5 | 0.6 | 8.5 | 35 | 28.5 |
| | | | 2.2 | 3 | Direct | 80APVSH-52.2 | 0.6 | 12.5 | 35 | 31.5 |
| | | | 3.7 | 3 | Direct | 80APVSH-53.7 | 0.6 | 20.5 | 32 | 43 |
| | | 100 | 5.5 | 3 | Direct | 100APVSH-55.5 | 1 | 21.5 | 30 | 67 |
| | | | 7.5 | 3 | Direct | 100APVSH-57.5 | 1 | 29 | 30 | 73 |
| | | | 11 | 3 | Direct | 100APVSH-511 | 1 | 39.5 | 30 | 82 |

Fig 3




## DIMENSIONS

Fig 6

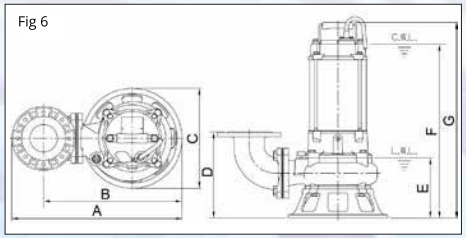
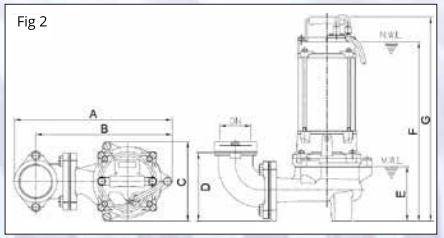


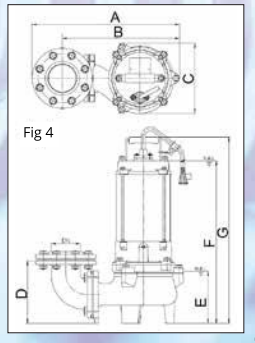

Fig 2




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 50APVS-5.4S | 3 | PF / NPT | 237 | 199 | 153 | 98 | 108 | 378 | 432 | 5000 |
| 50APVS-5.4 | 3 | PF / NPT | 237 | 199 | 153 | 98 | 108 | 378 | 432 | 5000 |
| 50APVS-5.75S | 3 | PF / NPT | 237 | 199 | 153 | 98 | 108 | 378 | 432 | 5000 |
| 50APVS-5.75 | 3 | PF / NPT | 237 | 199 | 153 | 98 | 108 | 378 | 432 | 5000 |
| 80APVS-51.5 | 2 | PF / NPT | 402 | 348 | 202 | 174 | 139 | 454 | 517 | 8000 |
| 80APVS-52.2 | 2 | PF / NPT | 402 | 348 | 202 | 174 | 139 | 454 | 517 | 8000 |
| 80APVS-53.7 | 4 | PT / NPT | 476 | 384 | 222 | 203 | 143 | 498 | 561 | 8000 |
| 80APVS-55.5 | 4 | PT / NPT | 499 | 407 | 258 | 203 | 144 | 558 | 657 | 8000 |
| 80APVS-57.5 | 4 | PT / NPT | 499 | 407 | 258 | 203 | 144 | 558 | 657 | 10000 |
| 80APVS-511 | 4 | PT / NPT | 499 | 407 | 258 | 203 | 144 | 598 | 697 | 10000 |
| 80APVSH-51.5 | 7 | PF / NPT | 417 | 363 | 260 | 218 | 163 | 458 | 521 | 8000 |
| 80APVSH-52.2 | 7 | PF / NPT | 417 | 363 | 260 | 218 | 163 | 458 | 521 | 8000 |
| 80APVSH-53.7 | 6 | PT / NPT | 495 | 403 | 290 | 250 | 176 | 505 | 568 | 8000 |
| 80(100)APVSH-55.5 | 6 | PT / NPT | 563(591) | 471(486) | 345 | 271(276) | 198 | 585 | 684 | 8000 |
| 80(100)APVSH-57.5 | 6 | PT / NPT | 563(591) | 471(486) | 345 | 271(276) | 198 | 585 | 684 | 10000 |
| 80(100)APVSH-511 | 6 | PT / NPT | 563(591) | 471(486) | 345 | 271(276) | 198 | 625 | 724 | 10000 |

Fig 4



# ADS

## APPLICATIONS

- Dewatering of fluid which contains solid sediments.
- Civil engineering, dewatering of tunnel and ground works, also for storm sewers.
- Ease of mobility for use by contractors, installers and service industries.

## FEATURES

- Compact, strong and easy handing for all civil engineering application conditions.
- Double outer casings and hydro motor cooling system make it suitable for low water level operating.
- Fully waterproof IP68 stainless steel structure, combined with a high grade silicon carbide double mechanical seals.

### HiCR IMPELLER

The extremely sturdy HiCR impeller can reach the hardness of 55-60 HRC and withstand highly abrasive applications.

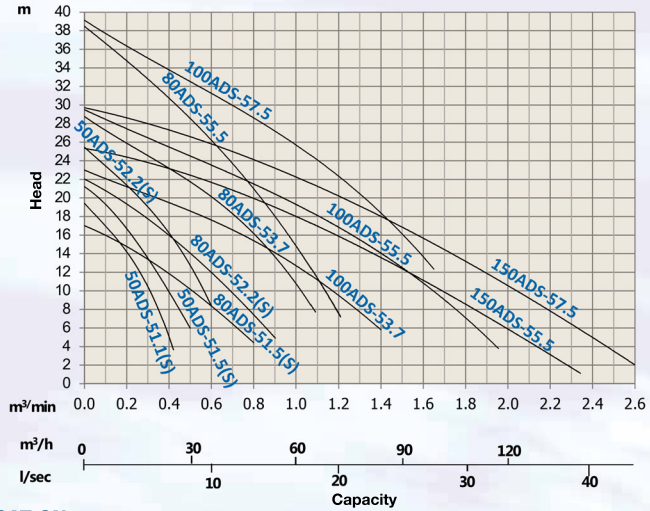
## SPECIFICATION

| | | | | |
|---|---|---|---|---|
| Disc.diameter(mm) | | | 50 · 80 | 80 · 100 · 150 |
| Power | | | 1.1~3.7kW | 5.5~7.5kW |
| Pumping liquid | Liquid temp | | 0~40°C | |
| | Liquid nature | | Waste water and sewage | Sandy · Waste water |
| | Max.depth | | 30M | |
| Pump | Structure | Impeller | Semi-open(50ADS) Enclosed | Enclosed Semi-open (80ADS-55.5) |
| | | Mech. seal | Double mechanical seals | |
| | | Bearing | Ball type bearing | |
| | Material | Out cover | SUS304 | |
| | | Upper cover | FC200 | |
| | | Casing | FC200 | |
| | | Casing cover | FC200 | |
| | | Impeller | HiCrFC | |
| | | Mech. seal | SIC/SIC | |
| Motor | Type | | Dry type | |
| | Insulation | | B Class(3.7kW : F Class) | F class |
| | Frequency · Pole | | 50Hz·2P | |
| | Protector | | Auto-cut | |
| | Material | Frame | SUS304 (FC200 ≥1.5kW) | SUS304 (FC200 ≥1.5kW) |
| | | Main Shaft | SUS403 (SUS304 ≥3.7kW) | SUS403 (SUS304 ≥3.7kW) |
| | | Cable | VCT | HVCT (≥5.5kW) or VCT |
| Optional | | | Float switch 50ADS-51.1(S) | |

## OPTIONAL OUTLET ACCESSORIES


Please refer to individual dimensional drawing for detailed.

## SELECTION CHART




## PERFORMANCE SPECIFICATION

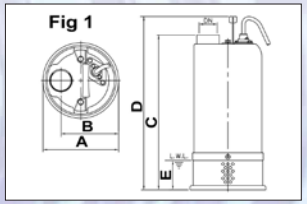
| Pole P | Impeller Type | Dis. mm | 5Output kW | Phase φ | Start Method | Model | Capacity m³/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-Open | 50 | 1.1 | 1 | Capacitor | 50ADS-51.1S | 0.2 | 13.5 | 7.5 | 28 |
| | | | | 3 | Direct | 50ADS-51.1 | 0.2 | 13.5 | 7.5 | 24 |
| | | | 1.5 | 1 | Capacitor | 50ADS-51.5S | 0.25 | 15 | 10 | 40 |
| | | | | 3 | Direct | 50ADS-51.5 | 0.25 | 15 | 10 | 36 |
| | | | 2.2 | 1 | Capacitor | 50ADS-52.2S | 0.3 | 19 | 10 | 44 |
| | | | | 3 | Direct | 50ADS-52.2 | 0.3 | 19 | 10 | 39 |
| | Enclosed | 80 | 1.5 | 1 | Capacitor | 80ADS-51.5S | 0.5 | 10 | 10 | 40 |
| | | | | 3 | Direct | 80ADS-51.5 | 0.5 | 10 | 10 | 36 |
| | | | 2.2 | 1 | Capacitor | 80ADS-52.2S | 0.5 | 14 | 10 | 45 |
| | | | | 3 | Direct | 80ADS-52.2 | 0.5 | 14 | 10 | 39 |
| | | | 3.7 | 3 | Direct | 80ADS-53.7 | 0.5 | 21.5 | 10 | 44 |
| | Semi-open | | 5.5 | 3 | Direct | 80ADS-55.5 | 0.5 | 28 | 10 | 72 |
| | Enclosed | 100 | 3.7 | 3 | Direct | 100ADS-53.7 | 1 | 12.5 | 10 | 44 |
| | | | 5.5 | 3 | Direct | 100ADS-55.5 | 1 | 19 | 10 | 75 |
| | | | 7.5 | 3 | Direct | 100ADS-57.5 | 1 | 25 | 10 | 80 |
| | | 150 | 5.5 | 3 | Direct | 150ADS-55.5 | 1.5 | 12 | 10 | 78 |
| | | | 7.5 | 3 | Direct | 150ADS-57.5 | 1.5 | 17 | 10 | 81 |

## DIMENSIONS

Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|
| 50ADS-51.1S | 1 | Female PS 2 | 210 | 160 | 431 | 482 | 85 | 8000 |
| 50ADS-51.1 | 1 | Female PS 2 | 210 | 160 | 372 | 423 | 85 | 8000 |
| 50ADS-51.5S | 2 | 50 | 235 | 50 | 465 | 511 | 115 | 8000 |
| 50ADS-51.5 | 2 | 50 | 235 | 50 | 421 | 466 | 115 | 8000 |
| 50ADS-52.2S | 2 | 50 | 235 | 50 | 496 | 541 | 115 | 8000 |
| 50ADS-52.2 | 2 | 50 | 235 | 50 | 421 | 466 | 115 | 8000 |
| 80ADS-51.5S | 2 | 80 | 235 | 50 | 465 | 511 | 115 | 8000 |
| 80ADS-51.5 | 2 | 80 | 235 | 50 | 421 | 466 | 115 | 8000 |
| 80ADS-52.2S | 2 | 80 | 235 | 50 | 496 | 541 | 115 | 8000 |

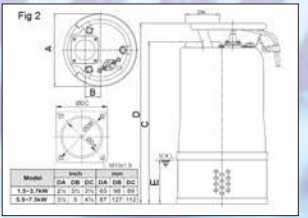
Fig 1




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|
| 80ADS-52.2 | 2 | 80 | 235 | 50 | 421 | 466 | 115 | 8000 |
| 80ADS-53.7 | 2 | 80 | 235 | 50 | 451 | 496 | 115 | 8000 |
| 80ADS-55.5 | 2 | 80 | 286 | 63 | 550 | 610 | 130 | 10000 |
| 100ADS-53.7 | 2 | 100 | 235 | 50 | 465 | 511 | 130 | 8000 |
| 100ADS-55.5 | 2 | 100 | 286 | 63 | 550 | 610 | 130 | 10000 |
| 100ADS-57.5 | 2 | 100 | 286 | 63 | 550 | 610 | 130 | 10000 |
| 150ADS-55.5 | 2 | 150 | 286 | 63 | 550 | 610 | 130 | 10000 |
| 150ADS-57.5 | 2 | 150 | 286 | 63 | 550 | 610 | 130 | 10000 |

Fig 2



# ADM

Agitator

## APPLICATIONS

- Dewatering of fluid which contains solid sediments.
- Civil engineering, dewatering of tunnel engineering , also for manhole sewer.
- Mobile use for contractors, installers and industry.

## FEATURES

- Reliable waterproof structure, automatic rest motor protector and double mechanical seals made of silicon carbide. Durable and leakproof.
- Compact, strong design and easy operation in any place.
- Designed for civil engineering, light weight for easy portability, double outer casing hydro motor cooling system make it possible to pump the water to low level.
- Impeller made of high chrome alloy steel with hardness of 55-60 HRC. Extremely durable and abrasion resistant.
- Equipped with a cast iron agitator to create powerful turbulence to carry away slurry.

## SPECIFICATIONS

| | | |
|---|---|---|
| APPLICATION | Disc. Diameter(mm) | 80 · 100 · 150 |
| | Power(kW) | 1.5~7.5 |
| | Liquid temp | 0~40°C |
| | Liquid nature | Delivery of Sandy & Abrasive Liquid. Suitable for Construction or Mining Field |
| | Max. depth | 30M |
| STRUCTURE | Impeller | Semi-open (80ADM-55.5) Enclosed |
| | Mech. seal | Double mechanical seals |
| | Bearing | Ball type bearing |
| MATERIAL | Out cover | FC200 |
| | Upper cover | FC200 |
| | Frame | FC200 |
| | Impeller | HiCrFC |
| | Casing | FC200 |
| | Agitator | FCD700 |
| | Mech. seal | SIC / SIC |
| | Main shaft | SUS403(≤2.2kW), SUS304 (≥3.7kW) |
| | Cable | VCT or H07RN-F |
| MOTOR | Type | Dry & High-Efficiency Motor |
| | Insulation | B class ( F class ≥ 3.7kW) |
| | Frequency · Pole | 50Hz · 2P |
| | Protector | Auto-cut |

## OPTIONAL OUTLET ACCESSORIES

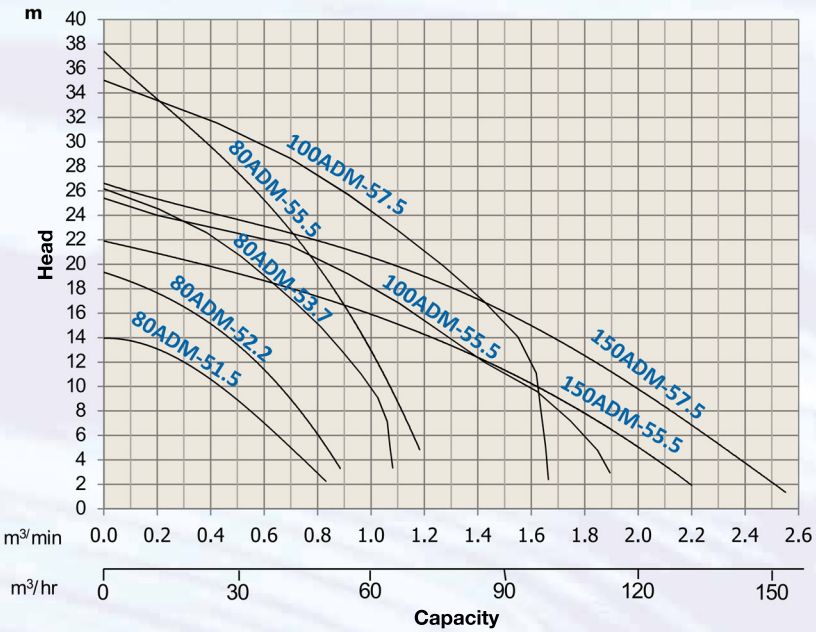
Double flange set

Male thread outlet

Hose

Please refer to individual dimensional drawing for detailed.

## SELECTION CHART



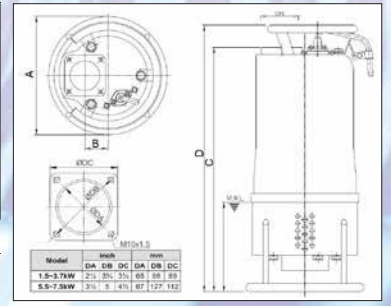

## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m3/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Enclosed | 80 | 1.5 | 3 | Direct | 80ADM-51.5 | 0.5 | 9 | 10 | 36 |
| | | | 2.2 | 3 | Direct | 80ADM-52.2 | 0.5 | 13 | 10 | 40 |
| | | | 3.7 | 3 | Direct | 80ADM-53.7 | 0.5 | 21 | 10 | 45 |
| | Semi-open | | 5.5 | 3 | Direct | 80ADM-55.5 | 0.5 | 27 | 10 | 73 |
| | Enclosed | 100 | 5.5 | 3 | Direct | 100ADM-55.5 | 1 | 18 | 10 | 76 |
| | | | 7.5 | 3 | Direct | 100ADM-57.5 | 1 | 24 | 10 | 81 |
| | | 150 | 5.5 | 3 | Direct | 150ADM-55.5 | 1.5 | 11 | 10 | 79 |
| | | | 7.5 | 3 | Direct | 150ADM-57.5 | 1.5 | 16 | 10 | 82 |

## DIMENSIONS

Unit: mm

| MODEL | DN | A | B | C | D | CABLE LENGTH |
|---|---|---|---|---|---|---|
| 80ADM-51.5 | 80 | 260 | 50 | 502 | 547 | 8000 |
| 80ADM-52.2 | 80 | 260 | 50 | 502 | 547 | 8000 |
| 80ADM-53.7 | 80 | 260 | 50 | 532 | 577 | 8000 |
| 80ADM-55.5 | 80 | 318 | 62 | 623 | 683 | 10000 |
| 100ADM-55.5 | 100 | 318 | 62 | 623 | 683 | 10000 |
| 100ADM-57.5 | 100 | 318 | 62 | 623 | 683 | 10000 |
| 150ADM-55.5 | 150 | 318 | 62 | 623 | 683 | 10000 |
| 150ADM-57.5 | 150 | 318 | 62 | 623 | 683 | 10000 |



# AAX (100mm～300mm)

## APPLICATIONS

- Aquaculture water pumping and drainage for large volume water applications.
- Water supply for landscape and water features.
- Extraction of water from rivers, lakes and reservoirs.
- Flood control.

## FEATURES

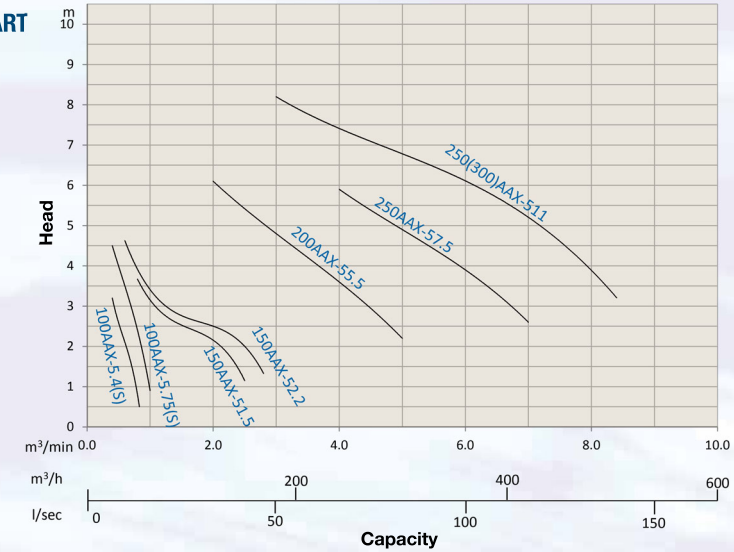
- Robust construction and compact design with a dry motor, double mechanical seal and impeller flow guide vane high efficiency.
- Large flow capacities achieved with almost no vibration or noise by use of Axial & Mix flow design.
- Easy handling, energy saving and low maintenance.

## SPECIFICATION

| | | | |
|---|---|---|---|
| Disc.diameter(mm) | | | 100 · 150 · 200 · 250 · 300 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Agriculture irrigation, Aquaculture water, River water |
| | Max.depth | | 30M |
| Pump | Structure | Impeller | Axial-flow / Mix-flow ( ≥11kW)) |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Outer cover | SUS304 |
| | | Upper cover | FC200 |
| | | Impeller | ALBC3 Bronze |
| | | Casing | FC200 |
| | | Mech. seal | CA/CE(5.5~15Kw), SIC/SIC(0.4~2.2Kw) |
| Motor | Type | | Dry type |
| | Insulation | | B Class / F Class ( ≥5.5kW) |
| | Frequency · Pole | | 50Hz · 4P , 2P( ≤0.75kW) |
| | Protector | | Auto-cut( ≥5.5kW Optional) |
| | Material | Frame | FC200, SUS304( ≥5.5kW) |
| | | Main Shaft | SUS304 |
| | | Cable | VCT / HVCT |

## OPTIONAL OUTLET ACCESSORIES

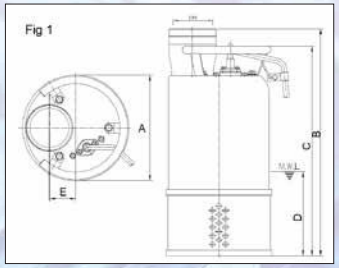

## SELECTION CHART

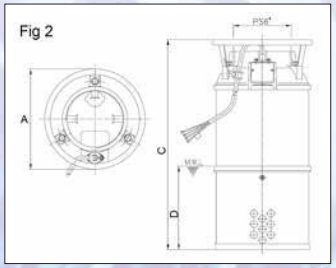


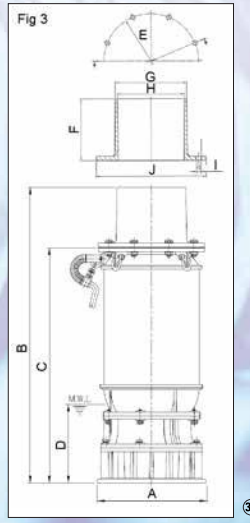

## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m3/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Axial | 100 | 0.4 | 1 | Capacitor | **100AAX-5.4S** | 0.7 | 1.5 | 10 | 25 |
| | | | | 3 | Direct | **100AAX-5.4** | 0.7 | 1.5 | 10 | 25 |
| | | | 0.75 | 1 | Capacitor | **100AAX-5.75S** | 0.7 | 3 | 10 | 26 |
| | | | | 3 | Direct | **100AAX-5.75** | 0.7 | 3 | 10 | 26 |
| 4 | | 150 | 1.5 | 3 | Direct | **150AAX-51.5** | 2 | 2 | 20 | 51 |
| | | | 2.2 | 3 | Direct | **150AAX-52.2** | 2 | 2.5 | 20 | 52 |
| | | 200 | 5.5 | 3 | Direct | **200AAX-55.5** | 3.5 | 4 | 23 | 116 |
| | | 250 | 7.5 | 3 | Direct | **250AAX-57.5** | 5.5 | 4 | 23 | 157 |
| | Mix | 250 | 11 | 3 | Direct | **250AAX-511** | 7 | 4.5 | 23 | 201 |
| | | 300 | | 3 | Direct | **300AAX-511** | 7 | 4.5 | 23 | 201 |

## DIMENSIONS




Unit: mm

| MODEL | Fig | DN | A | B | C | D | E | F | G | H | I | J | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **100AAX-5.4S** | 1 | Male PT 4 | 225 | 478 | 441 | 200 | 56 | NA | NA | NA | NA | NA | 5000 |
| **100AAX-5.4** | 1 | Male PT 4 | 225 | 478 | 441 | 200 | 56 | NA | NA | NA | NA | NA | 5000 |
| **100AAX-5.75S** | 1 | Male PT 4 | 225 | 478 | 441 | 200 | 56 | NA | NA | NA | NA | NA | 5000 |
| **100AAX-5.75** | 1 | Male PT 4 | 225 | 478 | 441 | 200 | 56 | NA | NA | NA | NA | NA | 5000 |
| **150AAX-51.5** | 2 | Female PS 6 | 285 | NA | 597 | 300 | NA | NA | NA | NA | NA | NA | 8000 |
| **150AAX-52.2** | 2 | Female PS 6 | 285 | NA | 597 | 300 | NA | NA | NA | NA | **NA** | NA | 8000 |
| **200AAX-55.5** | 3 | 200 | 340 | 923 | 733 | 400 | 285 | 185 | 215 | 200 | **φ15-8** | 330 | 10000 |
| **250AAX-57.5** | 3 | 250 | 380 | 1015 | 802 | 500 | 325 | 210 | 266 | 250 | **φ15-8** | 370 | 10000 |
| **250AAX-511** | 3 | 250 | 430 | 1082 | 862 | 600 | 389 | 220 | 317 | 250 | **φ15-12** | 430 | 10000 |
| **300AAX-511** | 3 | 300 | 430 | 1082 | 862 | 600 | 389 | 220 | 317 | 300 | φ15-12 | 430 | 10000 |

# AAXL (550mm~700mm)

## APPLICATIONS

- Water supply or drainage for industry.
- Water supply for hydro cooling system in the power plant.
- Drainage of waste water.
- Suitable for for large volume dewatering.
- Water supply for agriculture irrigation.
- Extraction of water from dock and river.

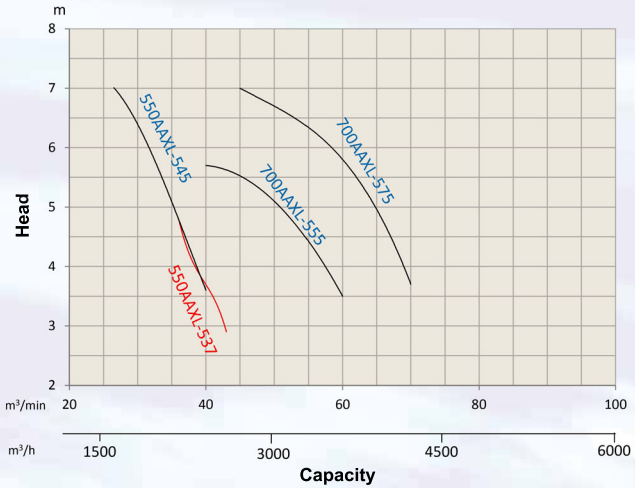
## FEATURES

- Pump manufactured with firm structure, exposed cable lead hermetically sealed with epoxy for better protection against water and moisture, double mechanical seals, and IP68 dust free and water proof for long lasting operation.
- Shaft and impeller are precisely balanced for stable performance and silent operation.

## SPECIFICATION

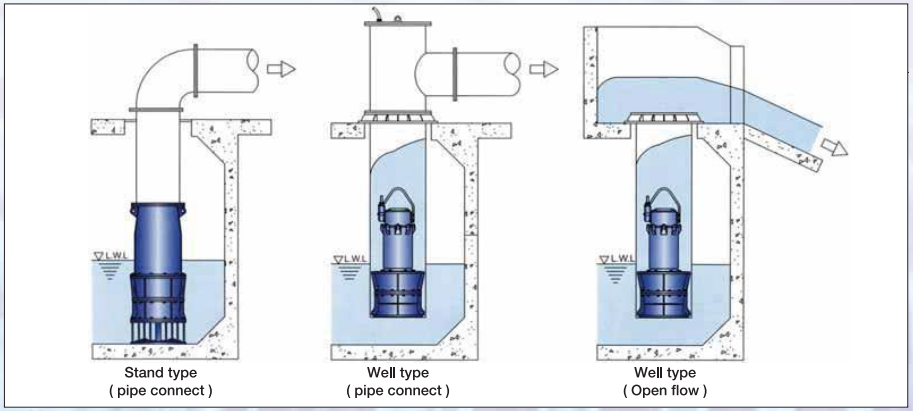
| | | | |
|---|---|---|---|
| Disc.diameter (mm) | | | 550~700 |
| Pumping liquid | Liquid temp | | 0~40°C |
| | Liquid nature | | Waste water, Industry drainage, Agriculture irrigation, Aquaculture water |
| Pump | Structure | Impeller | Axial |
| | | Mech. seal | Double mechanical seals |
| | | Bearing | Ball type bearing |
| | Material | Upper cover | FC200 |
| | | Impeller | SCS13 |
| | | Casing | FC200 |
| | | Wear ring | SCS13(≤45kW) / ALBC3(≤55kW) |
| | | Mech. seal | SIC/SIC & SIC/SIC |
| | Protection Device | | Water detector in mechanical seal chamber |
| Motor | Type | | Dry type |
| | Frequency · Pole | | 50Hz · 8P(37~45kW), 10P(55~75kW) |
| | Phase Volt. | | 3φ, 380~460V |
| | Insulation | | F Class (155°C) |
| | Protection Device | | Motor thermal protector |
| | Material | Frame | FC200 |
| | | Shaft | SUS420J2 |
| | | Cable | 2PNCT or VCT |

## SELECTION CHART




## PERFORMANCE SPECIFICATION

| Model | Power HP (kW) | Discharge inch | Phase φ | Start Method | Capacity m³/min | Head m | Well Type Weight (kg) | Stand Type Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| 550AAXL-537 | 50(37) | 22 | 3 | Y-Δ | 38 | 4 | 755 | 1130 |
| 550AAXL-545 | 60(45) | 22 | 3 | Y-Δ | 31 | 6 | 755 | 1130 |
| 700AAXL-555 | 75(55) | 28 | 3 | Y-Δ | 60 | 3.5 | 1530 | 2060 |
| 700AAXL-575 | 100(75) | 28 | 3 | Y-Δ | 60 | 5 | 1600 | 2130 |



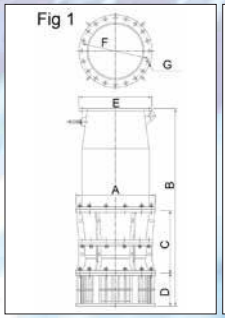

## DIMENSIONS

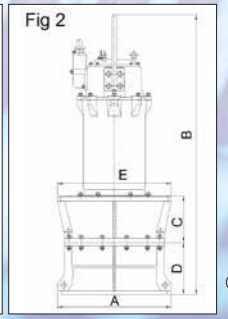
Unit: mm

| Well Type | Fig | DN | A | B | C | D | E | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|
| 550AAXL-537 | 2 | 550 | 803 | 1380 | 330 | 300 | φ780 | 10000 |
| 550AAXL-545 | 2 | 550 | 803 | 1380 | 330 | 300 | φ780 | 10000 |
| 700AAXL-555 | 2 | 700 | 870 | 2150 | 356 | 400 | φ870 | 10000 |
| 700AAXL-575 | 2 | 700 | 870 | 2150 | 356 | 400 | φ870 | 10000 |

Unit: mm

| Well Type | Fig | DN | A | B | C | D | E | F | G | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|
| 550AAXL-537 | 1 | 550 | 803 | 1960 | 1120 | 330 | φ720 | 665 | φ27-20 | 10000 |
| 550AAXL-545 | 1 | 550 | 803 | 1960 | 1120 | 330 | φ720 | 665 | φ27-20 | 10000 |
| 700AAXL-555 | 1 | 700 | 930 | 2720 | 1420 | 420 | φ875 | 820 | φ27-24 | 10000 |
| 700AAXL-575 | 1 | 700 | 930 | 2720 | 1420 | 420 | φ875 | 820 | φ27-24 | 10000 |



# SUMP

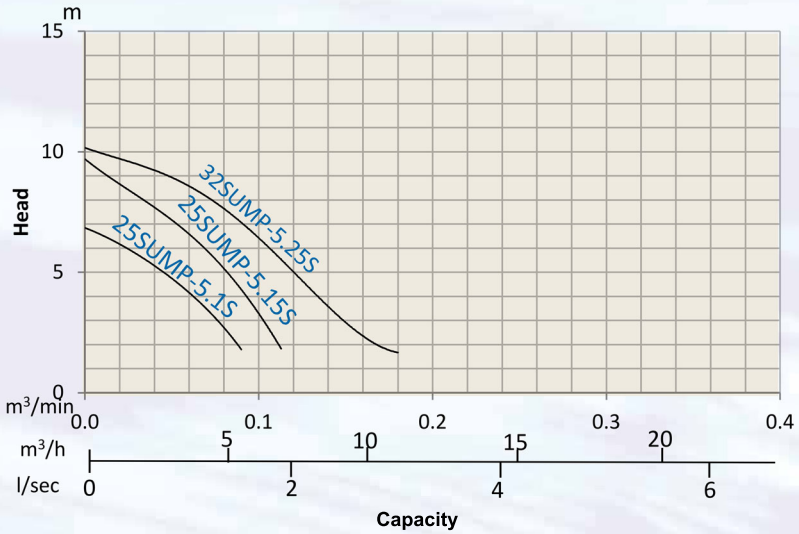

## APPLICATIONS

- ✱ Water Tank Circulation;
- ✱ Water recycle in pool & fountain;
- ✱ Light duty water supply & drainage;
- ✱ Commercial Tank Beautification

## FEATURES

- ✱ High capacity, high efficient motor with low amperage providing energy saving
- ✱ Motor with cooling effect even for low water positioning
- ✱ Optional Accessories: Standard Float Switch (F) type or Vertical Float Switch (FV) for confined space application
- ✱ New Vortex Design with superior performance

## SELECTION CHART



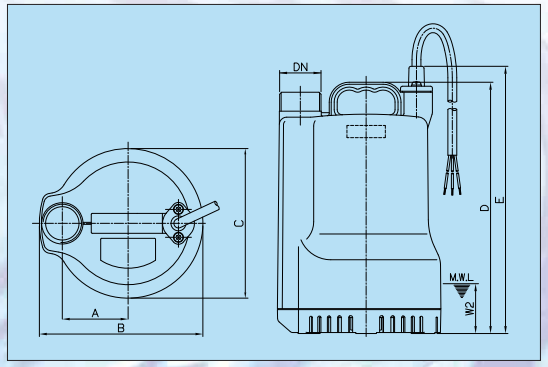

## PERFORMANCE SPECIFICATION

| Pole P | Impeller Type | Dis. mm | Output kW | Phase φ | Start Method | Model | Capacity m3/min | Head m | Solid passage mm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Semi-open | 25 | 0.1 | 1 | Capacitor | **25SUMP-5.1S** | 0.05 | 4.5 | 4 | 4.0 |
| | | | 0.15 | 1 | Capacitor | **25SUMP-5.15S** | 0.06 | 6.5 | 4 | 4.4 |
| | | 32 | 0.25 | 1 | Capacitor | **32SUMP-5.25S** | 0.1 | 6.5 | 4 | 4.1 |

## SPECIFICATION

| | | | | |
|---|---|---|---|---|
| Disc.diameter(mm) | | | 25 | 32 |
| Power | | | 0.1~0.15kW | 0.25kW |
| Pumping liquid | Liquid temp | | 0~40°C | |
| | Liquid nature | | Dirty water from sumps, Clean water, Basins and tanks | Marine culture, Sea water |
| | Max.depth | | 10M | |
| Pump | Structure | Impeller | Semi-open | |
| | | Mech. seal | Single mechanical seals | |
| | | Bearing | Ball type bearing | |
| | Material | Upper cover | ASA | PP |
| | | Impeller | ABS | PA |
| | | Casing | ASA | PP |
| | | Mech. seal | CA/CE | SiC/SiC |
| Motor | Type | | Dry type | |
| | Insulation | | B class | |
| | Frequency · Pole | | 50Hz · 2P | |
| | Protector | | Overheat protector | |
| | Material | Frame | ADC12 | SUS316 |
| | | Main Shaft | SUS410 | |
| | | Cable | H05RN-F | |
| Optional | | | Float switch | |

## DIMENSIONS



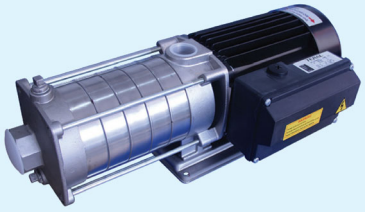

Unit: mm

| MODEL | DN | A | B | C | D | E | W2 | CABLE LENGTH |
|---|---|---|---|---|---|---|---|---|
| **25SUMP-5.1S** | PF 1 | 68 | 164 | 153 | 240 | 256 | 50 | 3000 |
| **25SUMP-5.15S** | PF 1 | 68 | 164 | 153 | 240 | 256 | 50 | 3000 |
| **32SUMP-5.25S** | PF 1.5 | 66 | 164 | 150 | 252 | 268 | 50 | 3000 |

# TERAL
## Pumps and Fans

End-suction Pumps

In-Line Pumps



Horizontal Multistage Pumps

Horizontal Split Case Pumps

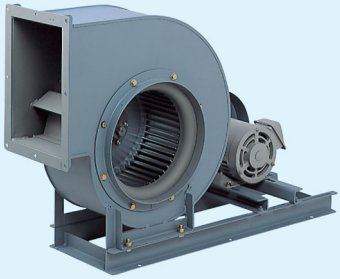
Freshwater &
Sewage Submersible Pumps

Variable Speed Systems

Vertical Multistage Pumps

Coolant Pumps

Ring Blowers



Centrifugal Fans


**Teral Inc.**
**Head Office** 230, Moriwake, Miyuki-cho, Fukuyama-city, Hiroshima, 720-0003, Japan
Tel: +81-84-955-1111 Fax: +81-84-955-5777
**Tokyo Office** TERAL Koraku Bldg., 2-3-27, Koraku, Bunkyo-ku, Tokyo, 112-0004, Japan
Tel: +81-3-3818-6890 Fax: +81-3-3818-6790

**Teral Asia Limited**
Room 1001, 10/F., Olympia Plaza, 255 King's Road, North Point, Hong Kong
Tel: +852-2571-0282 Fax: +852 2571-0619 E-mail: sales@teralasia.com

**Teral General Machine (Shanghai) Co., Ltd.**
No. 285, Yuan Qu Road (N), Bei Qiao, Min Hang District, Shanghai 201109, China
Tel: +86-21-6490-9128 Fax: +86-21-6490-9126

**Teral Thai Co., Ltd. / Teral Trading & Service Co., Ltd.**
150 Moo 16 Udomsorayuth Rd., T.Bangkrasan, A.Bangpa-In, Ayutthaya 13160 Thailand
Tel: +66-3522-0640-2, +66-3525-8543-4 Fax: +66-3522-0643

**Teral Malaysia Sdn Bhd**
10, Jalan SS13/6A, Subang Jaya Industrial Estate 47500,
Subang Jaya, Selangor D.E, Malaysia
Tel : +60-3-5611 5775 Fax: +60-3-5612 5775 E-mail: sales.my@teralasia.com

**Teral Vietnam Limited Liability Company**
Room 1306, 13th Floor, BIDV Tower, 194 Tran Quang Khai Street,
Ly Thai To Ward, Hoan Kiem District, Hanoi, Vietnam.
Tel: +84.43.935.2790 Fax: +84.43.935.2800 E-mail: sales.vn@teralasia.com

**PT. TeralIndonesia Pumps and Fans**
KomplekPergudanganTaman Tekno,, Blok G3 No. 08, JL. BSD SektorXI,
SetuTangerang Selatan, Banten, Indonesia 15314
Tel: +62-21-29665778 Fax: +62-21-75673913 E-mail: sales1.id@teralasia.com

**Affiliated Sister Company:**
**Atai Fuji Motor Co., Ltd.** (Ring Blowers & Coolant Pumps)
No. 32, Sec 2, Chang-Hsing Rd., Lu-Chu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.
Tel: +886-3-321-3030 Fax: +886-3-321-7890

**TeralMiddle East**
1806-002, 18th floor, BB1, MazayaBusiness Avenue, JLT, Dubai, UAE. PO Box 414781
Tel: +971-(0)43699039 Email: sales.me@teralasia.com

**Teral Pumps & Fans North America Ltd.**
Suite #197, 800-15355 24th Ave., Surrey. BC, CANADA V4A 2H9
Tel: +1-(604) 839-1008 E-mail: salesamerica@teralasia.com


**www.teral.net**


(Edition Date: December 2022 by Teral Asia Limited)
TAD00602-3-E