



# AFC

SUBMERSIBLE  
CUTTER PUMPS

50Hz

make future flow

# FEATURES

- The C-type Tungsten carbide-edged open impeller enhances shredding power, making it perfect for pumping sewage and breaking/tearing debris.
- 100~150 µm high solids epoxy coating on the casted-iron body prolongs product life for durability.
- Durability is further enhanced by standard accessories: cable with an epoxy resin-sealed, water-resistant cable base, Auto-cut motor protector, double mechanical seals, and oil seal design.



## PRODUCT NOMENCLATURE

|                 |      |               |      |     |
|-----------------|------|---------------|------|-----|
| 80              | AF   | C             | 2    | 1.5 |
| Discharge<br>mm | Type | Impeller type | Pole | kW  |



ELBOW

GRS

## SPECIFICATIONS

| Spec.         | Description                             |
|---------------|---|
| Liquid Temp.  | 0~40°C (32~104°F)                       |
| Motor         | 2P (3000rpm) / 4P (1500rpm) • Dry Motor |
| Insulation    | Class F • Class H                       |
| Protection    | IP68                                    |
| Protector     | Auto-cut • MTS & MS                     |
| M.seal Type   | Double M.seals                          |
| Impeller Type | Open                                    |

| Item         | Material                                      |
|--------------|---|
| Upper Cover  | FC200 / GG-20                                 |
| Motor Frame  | FC200 / GG-20                                 |
| Shaft        | SUS403 / X5Cr13 • SUS420J2 / X30Cr13          |
| M.seal       | CA/CE & SiC/SiC                               |
| Casing       | FC200 / GG-20                                 |
| Impeller     | FC200 / GG-20 + Tungsten                      |
| Casing Cover | FC200 / GG-20 + Heat • FCD700 / GGG-70 + Heat |
| Footing      | FCD450 / GGG-45 • None                        |
| Cable        | VCT or H07RN-F                                |

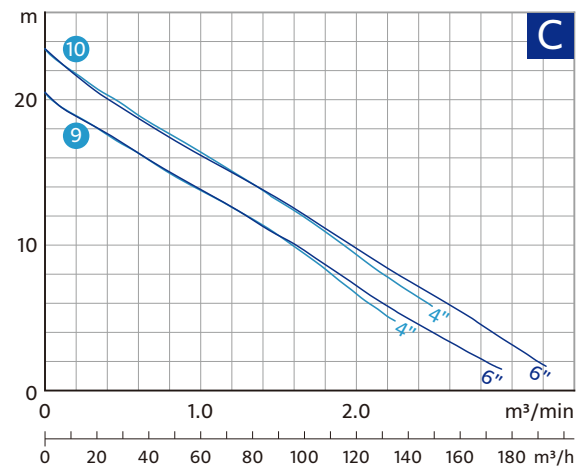
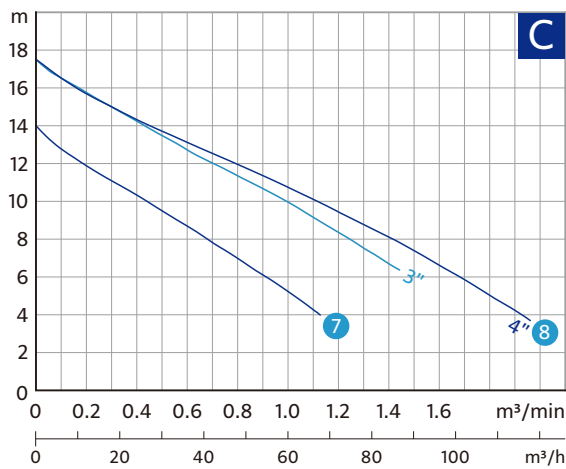
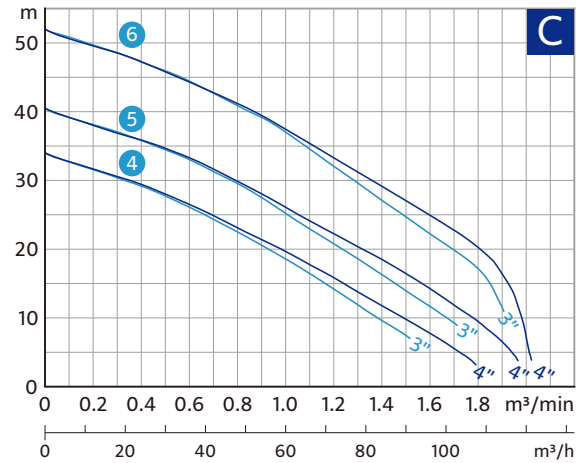
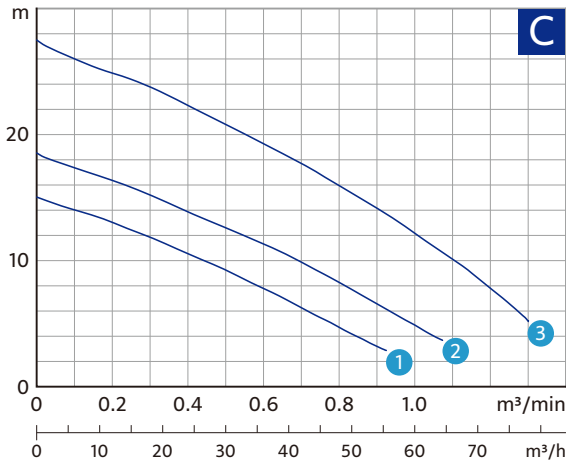
## APPLICATIONS

- Factory water treatment for wastewater containing debris
- Drainage and water extraction for sewage management, water accumulation, septic tanks, and farms
- Water treatment plant drainage: attenuation, purification tanks, and sewage tanks

## ACCESSORIES : ELBOW / GRS-GUIDE RAIL SYSTEMS

AFC pumps can be installed with 90° Elbow Flange outlet or GRS guide rail system, to have easier/safer installation or removal during replacement and maintenance. The GRS does not support the vertical casing models.

# PERFORMANCE CURVES AND SPECS



| Model              | Output HP(kW) | Discharge Inch(mm) | Phase Ø | Start Method | Standard | Max.      | Casing Type | Weight kg |     |
|--------------------|---------------|--------------------|---------|--------------|----------|-----------|-------------|-----------|-----|
|                    |               |                    |         |              | m-m³/min |           |             | 1Ø        | 3Ø  |
| 1 80AFC21.5        | 2(1.5)        | 3"(80)             | 1       | Capacitor    | 7.5-0.6  | 15-1.0    | H           | 37        | 33  |
|                    |               |                    | 3       | DOL          |          |           |             |           |     |
| 2 80AFC22.2        | 3(2.2)        | 3"(80)             | 1       | Capacitor    | 11-0.6   | 18.5-1.15 | H           | 40        | 35  |
|                    |               |                    | 3       | DOL          |          |           |             |           |     |
| 3 80AFC23.7A       | 5(3.7)        | 3"(80)             | 3       | DOL          | 19-0.6   | 27.5-1.35 | H           | -         | 48  |
| 4 80(100)AFC25.5   | 7.5(5.5)      | 3"(80)             | 3       | DOL          | 26-0.6   | 34-1.55   | H           | -         | 75  |
|                    |               | 4"(100)            |         |              | 19.5-1.0 | 34-1.8    |             |           |     |
| 5 80(100)AFC27.5   | 10(7.5)       | 3"(80)             | 3       | DOL          | 33-0.6   | 40.5-1.75 | H           | -         | 81  |
|                    |               | 4"(100)            |         |              | 26-1.0   | 40.5-2.05 |             |           |     |
| 6 80(100)AFC211    | 15(11)        | 3"(80)             | 3       | Y-D/DOL      | 44-0.6   | 52-1.95   | H           | -         | 91  |
|                    |               | 4"(100)            |         |              | 37-1.0   | 52-2.1    |             |           |     |
| 7 80AFC42.2        | 3(2.2)        | 3"(80)             | 3       | DOL          | 8.5-0.6  | 14-1.2    | H           | -         | 60  |
| 8 80(100)AFC43.7   | 5(3.7)        | 3"(80)             | 3       | DOL          | 12.5-0.6 | 17.5-1.5  | H           | -         | 69  |
|                    |               | 4"(100)            |         |              | 10.5-1.0 | 17.5-2.0  |             |           |     |
| 9 100(150)AFC45.5  | 7.5(5.5)      | 4"(100)            | 3       | DOL          | 13.5-1.0 | 20.5-2.3  | H           | -         | 105 |
|                    |               | 6"(150)            |         |              | 10.5-1.5 | 20.5-3.0  |             |           |     |
| 10 100(150)AFC47.5 | 10(7.5)       | 4"(100)            | 3       | DOL          | 16-1.0   | 23.5-2.5  | H           | -         | 118 |
|                    |               | 6"(150)            |         |              | 13-1.5   | 23.5-3.2  |             |           |     |

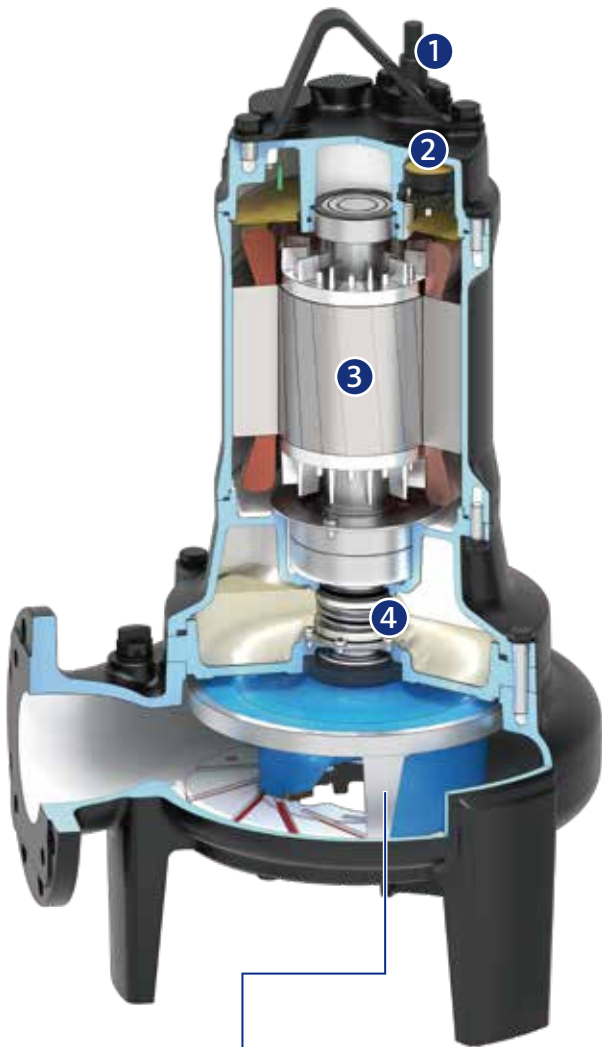
※ Excludes Cable & Elbow Weight.

※ Casing type : V stands for Vertical and H for Horizontal.

※ Start Method : Y-D = STAR-DELTA



# PRODUCT FEATURES



## 1 Epoxy Cable Base

An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.



## 2 Auto-cut Protector

Automatic On / Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



## 3 High Efficiency Dry Motors

All stator coils are treated with insulating varnish procedures to achieve the best insulation, efficiency and durability.



## 4 Double Mechanical Seals

Superior abrasion resistant mechanical seal is manufactured with silicon carbide to ensure the best seal effect.



## C Type Open Impeller and Cutter Casing Cover

Tungsten carbide on the impeller vanes shreds against the inner cutting blades to break down destructible solids to prevent clogging. Hardened casing cover designed to withstand the abrasion.



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Selection  
system



Catalog