



# GF

SUBMERSIBLE  
GRINDER PUMPS

60Hz

make future flow

# FEATURES

- The GF grinder pump grinds solid household wastes into fine particles using a durable SUS440C radial cutter and cutter ring.
- The corrosion-resistant radial cutter and cutter ring, with a hardness of 55~60 Rockwell C., works seamlessly with a non-clog vortex impeller to transport wastewater efficiently.
- The 2" (50mm) discharge (50GF) models feature triangular handles for easy installation and maintenance. The guide rail system enhances maintenance safety and minimizes the need for well and tank entries.



## PRODUCT NOMENCLATURE

| 32              | GF   | 2    | 1.5 | H         |
|-----------------|------|------|-----|-----------|
| Discharge<br>mm | Type | Pole | kW  | High Head |



## SPECIFICATIONS

| Spec.         | Description               |
|---------------|---------------------------|
| Liquid Temp.  | 0~40°C (32~104°F)         |
| Motor         | 2P (3600rpm) • Dry Motor  |
| Insulation    | Class F • Class H         |
| Protection    | IP68                      |
| Protector     | Auto-cut / MTS / MTS & MS |
| M.seal Type   | Double M.seals            |
| Impeller Type | Vortex                    |
| Item          | Material                  |
| Upper Cover   | FC200 / ASTM-30           |
| Motor Frame   | FC200 / ASTM-30           |
| Shaft         | SUS403 / ASTM 403         |
| M.seal        | CA/CE & SiC/SiC           |
| Casing        | FC200 / ASTM-30           |
| Impeller      | FC200 / ASTM-30           |
| Radial Cutter | SUS440C / AISI 440C       |
| Cutter Ring   | SUS440C / AISI 440C       |
| Cable         | VCT or SJOW/SOW/SOOW      |

## APPLICATIONS

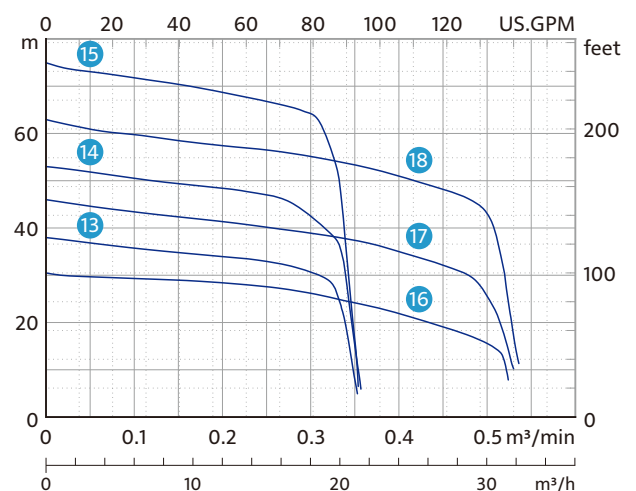
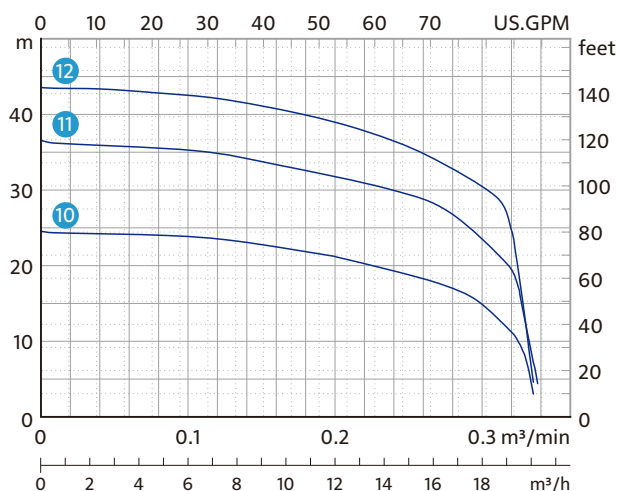
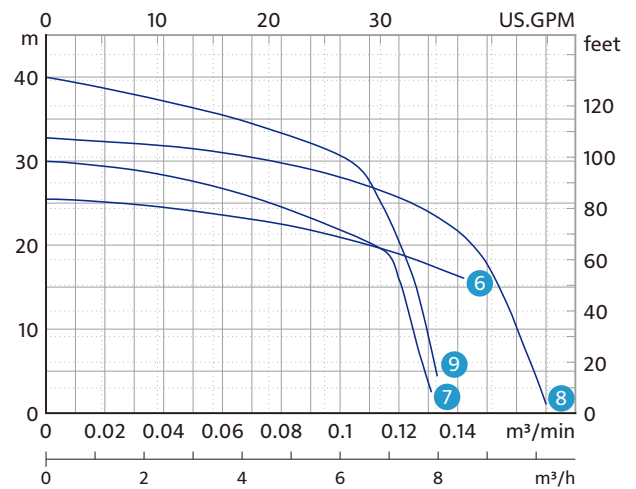
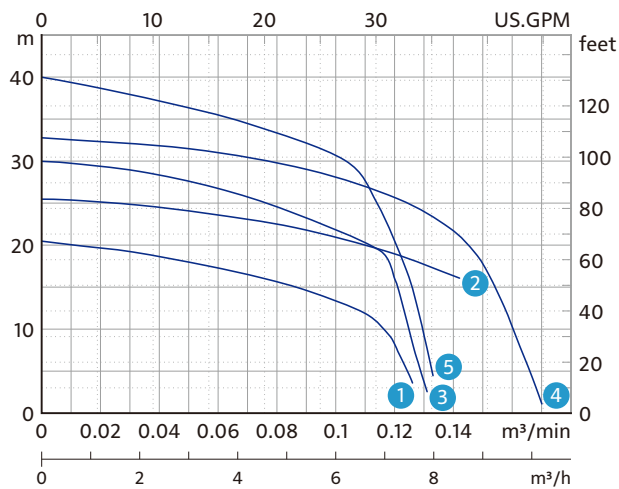
- Residential wastewater drainage for homes and apartments
- Wastewater drainage for commercial buildings such as hotels and office buildings
- Industrial wastewater drainage

## EXTREME GRINDING ABILITY



The pictures are for reference only.  
The actual grinding result might be varied cause radial cutter & cutter ring condition and application environment.

# PERFORMANCE CURVES AND SPECS



| Model        | Output<br>HP(kW) | Discharge<br>Inch(mm) | Phase<br>Ø | Start Method        | Standard  | Max.      | Casing Type | Weight kg(lb) |         |
|--------------|------------------|-----------------------|------------|---------------------|-----------|-----------|-------------|---------------|---------|
|              |                  |                       |            |                     | ft-GPM    | ft-GPM    |             | 1Ø            | 3Ø      |
| 1 32GF21.0   | 1.3(1.0)         | 1¼" (32)              | 1          | Capacitor           | 55.8-16   | 67.3-34   | V           | 27(60)        | 25(55)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 2 32GF21.5   | 2(1.5)           | 1¼" (32)              | 1          | Capacitor           | 75.5-16   | 83.7-36   | V           | 36(79)        | 32(71)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 3 32GF21.5H  | 2(1.5)           | 1¼" (32)              | 1          | Capacitor           | 85.3-16   | 98.4-36   | V           | 36(79)        | 32(71)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 4 32GF22.2   | 3(2.2)           | 1¼" (32)              | 1          | Capacitor           | 100.1-16  | 105-44    | V           | 38(84)        | 36(79)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 5 32GF22.2H  | 3(2.2)           | 1¼" (32)              | 1          | Capacitor           | 114.8-16  | 131.2-36  | V           | 38(84)        | 35(77)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 6 40GF21.5   | 2(1.5)           | 1½" (40)              | 1          | Capacitor           | 75.5-16   | 83.7-36   | H           | 36(79)        | 32(71)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 7 40GF21.5H  | 2(1.5)           | 1½" (40)              | 1          | Capacitor           | 85.3-16   | 98.4-36   | H           | 36(79)        | 32(71)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 8 40GF22.2   | 3(2.2)           | 1½" (40)              | 1          | Capacitor           | 100.1-16  | 105-44    | H           | 38(84)        | 36(79)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 9 40GF22.2H  | 3(2.2)           | 1½" (40)              | 1          | Capacitor           | 114.8-16  | 131.2-36  | H           | 38(84)        | 35(77)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 10 50GF22.2  | 3(2.2)           | 2" (50)               | 1          | *External Capacitor | 65.6-52   | 80.4-88   | H           | 50(110)       | 44(97)  |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 11 50GF23.7  | 5(3.7)           | 2" (50)               | 1          | *External Capacitor | 101.7-52  | 119.8-88  | H           | 50(110)       | 47(104) |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 12 50GF24.5  | 6(4.5)           | 2" (50)               | 1          | *External Capacitor | 124.7-52  | 142.7-88  | H           | 56(123)       | 50(110) |
|              |                  |                       | 3          | DOL                 |           |           |             |               |         |
| 13 50GF25.5  | 7.5(5.5)         | 2" (50)               | 3          | DOL                 | 70.5-106  | 100.1-140 | H           | -             | 73(161) |
| 14 50GF25.5H | 7.5(5.5)         | 2" (50)               | 3          | DOL                 | 105-66    | 124.7-95  | H           | -             | 73(161) |
| 15 50GF27.5  | 10(7.5)          | 2" (50)               | 3          | DOL                 | 113.2-106 | 150.9-140 | H           | -             | 79(174) |
| 16 50GF27.5H | 10(7.5)          | 2" (50)               | 3          | DOL                 | 149.3-66  | 173.9-95  | H           | -             | 79(174) |
| 17 50GF211   | 15(11)           | 2" (50)               | 3          | Y-D/DOL             | 164-106   | 206.7-142 | H           | -             | 90(198) |
| 18 50GF211H  | 15(11)           | 2" (50)               | 3          | Y-D/DOL             | 218.2-66  | 246.1-95  | H           | -             | 90(198) |

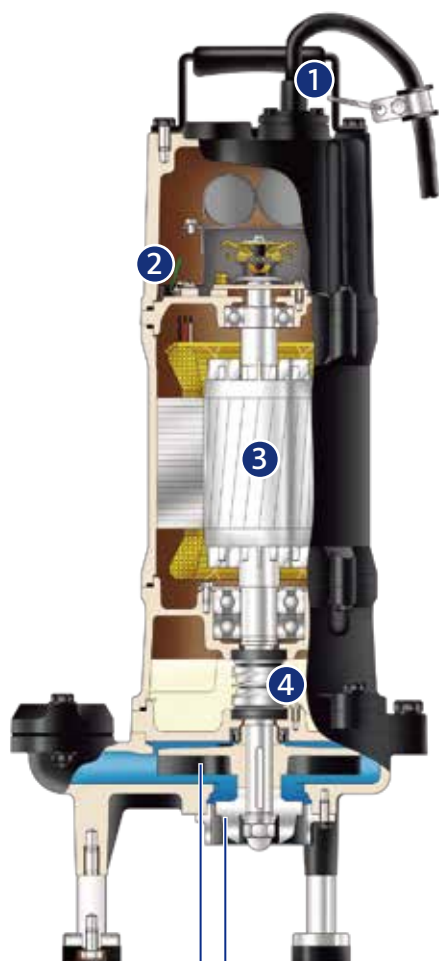
※ Excludes Cable & Elbow Weight.

※ Start Method : Y-D = STAR-DELTA

※ Casing type : V stands for Vertical and H for Horizontal. ※ \*External Capacitor : Required external capacitors & start relay.



## 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.



**Vortex Impeller**



**Radial Cutter & Cutter Ring**



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YouTube



**Selection  
system**



**Catalog**