



# FGC Series Grinder Pump

Non-clogging design, small discharge, and high pressure.



## General features:

AFEC Pump develops this grinder pump featuring a grinder mechanism at the suction port to chop foreign matters like kitchen waste, cloth, rubber, plastics, and etc. contained in drainage. The pumps are designed to pump small quantities of water, and large solids are effectively cut into very fine particles that can be pumped through small pipes without risk of blocking. Its extreme high pressure at low flows with only limited motor power makes it the first choice for small-volume transfer of residential, industrial and municipal sewage treatment systems.

### Motor

- Fully submersible, insulation class F, protection type IP 68.
- Oil-free motor with thermal and over-current protector.
- Asynchronous 1 & 3 phase, 2 pole, 50Hz/2850rpm or 60Hz/3450rpm.
- Max. liquid temperature: 40°C (104°F)

### Construction

- Completely sealed water resistance cable entry.
- Cast iron casing with ample dimensional cooling ribs for superior heat dissipation.
- Highly wear resistance heat-treated 410 stainless steel shaft.
- Double mechanical seals (lower silicon carbide v silicon carbide, upper carbon/ceramic) in oil chamber for great durability.
- The well-balanced impeller is made of Alloy Copper to handle ground slurry without clogging.
- Grinder Impeller & Grinder Disc:  
The parts are replaceable, no need to take pump apart. They are made of High Chrome Steel with hardness of 55-58 Rockwell C to break up paper, textile material and solid contaminants in the wastewater.
- Guide rail fittings are available upon optional request.
- 10 meters (33ft) PVC cable or H07RN-F cable upon request.

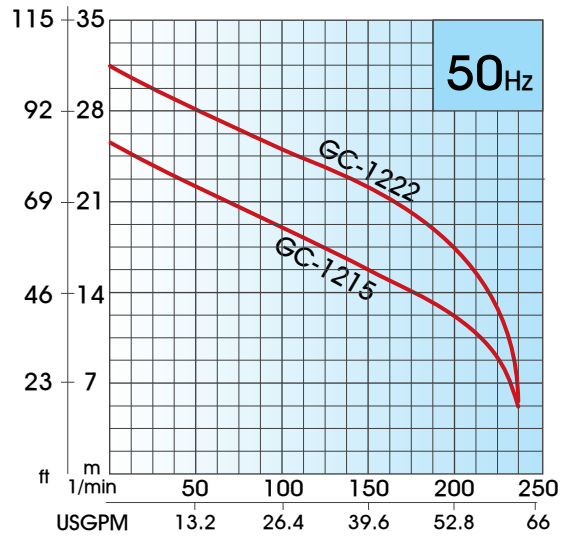
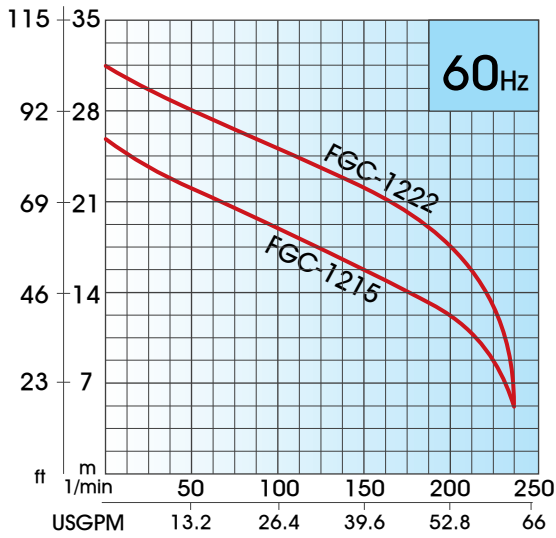


Rigid Grinding Device

## Applications

- Individual residential and low-pressure sewer applications.
- Pump slurry or wastewater to a treatment plant, lagoon, or gravity manhole through a discharge pipe as small as 1 1/4"(32mm) in diameter.
- Transfer of household sewage and drainage from drain tanks at hospitals, hotels, plants, and etc.
- Waste treatment for villas, summer houses and other residential areas which can not be direct connected to the existing sewage system.

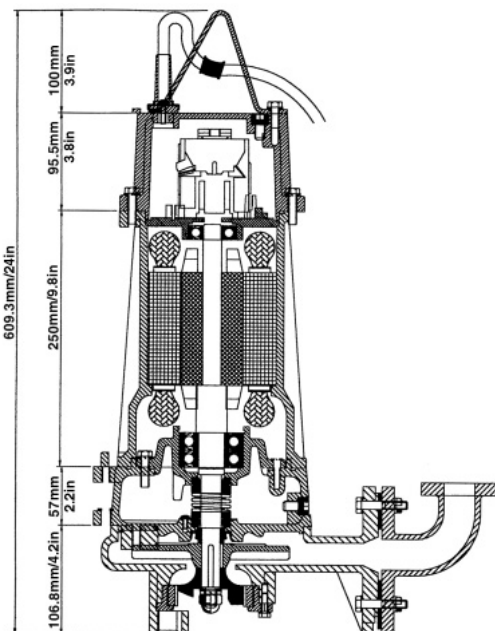
## Performance Curve



## Technical Specifications

Type	Outlet		Output		Voltage 1 & 3p	Nor.Head		Nor.Capa.		Max.Head		Max.Capa		Weight	
	mm	inch	Kw	hp		m	ft	l/min	USgpm	m	ft	l/min	USgpm	kg	lb
FGC-1215	32	1 1/4	1.5	2	110/220v	16	52.5	110	29	25	82	230	61	43	95
FGC-1222	32	1 1/4	2.2	3	380/415v	20	65.6	110	29	30	98	230	61	45	99

## Dimensions



## Main parts description

- Epoxy sealed watertight cable gland and waterproof joints.
- Top cove, motor casing, and pump casing are made of cast iron FC200.
- Stainless steel 410 motor shaft.
- Oil-lubricated ball bearings.
- Alloy copper impeller. High Chrome Steel grinder impeller and grinder disc.
- Double mechanical seal (CE/CA+SIC/SIC).

