



HYDROMATIC[®]
MODELS HPGF(X)/HPGFH(X)
SUBMERSIBLE SEWAGE
GRINDER PUMPS

ALSO AVAILABLE FOR HAZARDOUS LOCATION

HPGF/HPGFH



HYDROMATIC® MODELS HPGF(X)/HPGFH(X)

Submersible Sewage Grinder Pumps

| HPGF/HPGFH Pumps Characteristics | | | | | |
|----------------------------------|--------------------------------------|------|----------------------|------|------|
| Pump / Motor Unit | Submersible-Grinder | | | | |
| Phase | 1 Ø | | 3 Ø | | |
| Horsepower | 3 | 5 | 3 | 5 | 7.5 |
| 200V FLA | 19.6 | N/A | 10.9 | 17.6 | 29 |
| 230V FLA | 17.1 | 29.5 | 9.5 | 15.3 | 25.2 |
| 460V FLA | N/A | N/A | 4.8 | 7.6 | 12.6 |
| 575V FLA | N/A | N/A | 3.8 | 6.1 | 10.1 |
| Motor Type | Oil-Cooled Induction Capacitor Start | | Oil-Cooled Induction | | |
| RPM | 1750 | | | | |
| Temperature | 140°F Ambient | | | | |
| Operation | Intermittent | | | | |
| Hertz | 60 Hz | | | | |
| Thermal Overload | Bimetallic | | | | |
| Temperature | Maximum Water 140°F | | | | |
| NEMA Design | Type B (3 Ø) | | Type L (1 Ø) | | |
| Insulation | Class F | | | | |
| Discharge Size | 2" NPT | | | | |
| Unit Weight | 245 lbs. | | | | |
| Power Cord | S00W, W | | | | |
| Control Cord | S00W | | | | |

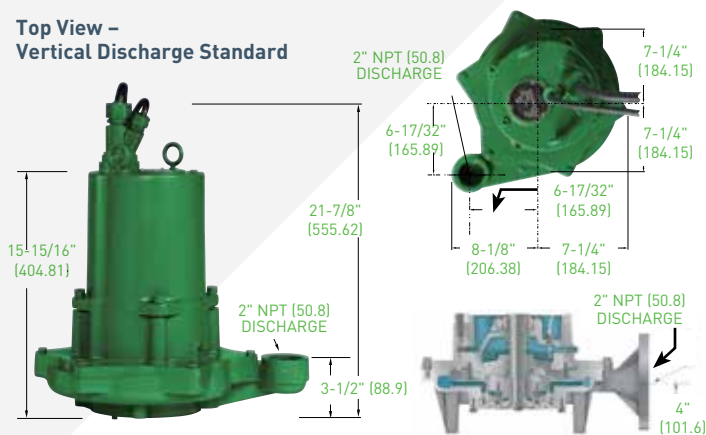
| HPGFH/HPGFHX Pumps Characteristics | | | | | |
|------------------------------------|---|------|----------------------|------|------|
| Pump / Motor Unit | Submersible-Grinder | | | | |
| Phase | 1 Ø | | 3 Ø | | |
| Horsepower | 3 | 5 | 3 | 5 | 7.5 |
| 208V FLA | N/A | N/A | 10.9 | 17.6 | 29 |
| 230V FLA | 17.1 | 29.5 | 9.5 | 15.3 | 25.2 |
| 460V FLA | N/A | N/A | 4.8 | 7.6 | 12.6 |
| 575V FLA | N/A | N/A | 3.8 | 6.1 | 10.1 |
| Motor Type | Oil-Cooled Induction Capacitor Start | | Oil-Cooled Induction | | |
| RPM | 1750 | | | | |
| Temperature | 140°F Ambient | | | | |
| Operation | Intermittent | | | | |
| Hertz | 60 Hz | | | | |
| Thermal Overload | Bimetallic | | | | |
| Temperature | Maximum Water 140°F | | | | |
| NEMA Design | Type B (3 Ø) | | Type L (1 Ø) | | |
| Insulation | Class F | | | | |
| Discharge Size | 2" NPT - 3" 125 lb. Flange (Horizontal) | | | | |
| Unit Weight | 245 lbs. | | | | |
| Power Cord | S00W, W | | | | |
| Control Cord | S00W | | | | |

| HPGF/HPGFH Materials of Construction | |
|--------------------------------------|--|
| Description | Material of Construction |
| Motor Housing | Cast Iron ASTM-48 |
| Pump Casing | Cast Iron ASTM-48 |
| Coolant/Lubricant | Dielectric Oil |
| Shaft | Stainless Steel |
| Mechanical Shaft Seal | Seal Faces: Carbon / Ceramic, Seal Body: Stainless Steel, Spring: Stainless Steel, Bellows: Buna-N |
| Impeller | Semiopen 5-Vane Brass |
| Cutters | 440C Hardened 55-60 Rockwell C |
| Upper Bearing | (Radial) Single Row-Ball |
| Lower Bearing | (Thrust) Single Row-Ball |
| Fasteners | Stainless Steel |

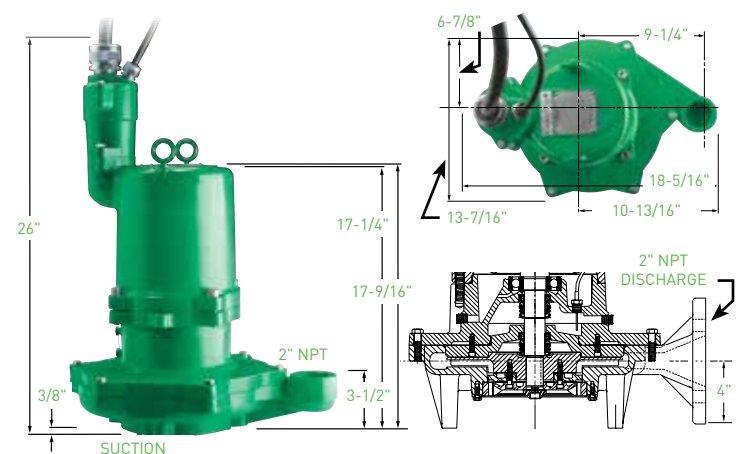
| HPGFH/HPGFHX Materials of Construction | |
|--|--|
| Description | Material of Construction |
| Motor Housing | Cast Iron ASTM-48 |
| Pump Casing | Cast Iron ASTM-48 |
| Coolant / Lubricant | Dielectric Oil |
| Shaft | Stainless Steel |
| Mechanical Shaft Seal | Seal Faces: Carbon / Ceramic, Seal Body: Stainless Steel, Spring: Stainless Steel, Bellows: Buna-N |
| Impeller | Semiopen 5-Vane Brass |
| Cutters | 440C Hardened 55-60 Rockwell C |
| Upper Bearing | (Radial) Single Row-Ball |
| Lower Bearing | (Thrust) Single Row-Ball |
| Fasteners | Stainless Steel |

HPGF/HPGFH Dimensional Data

Top View - Vertical Discharge Standard



HPGFH/HPGFHX Dimensional Data



HPGF/HPGFH Pump Features



Applications:

Residential, Commercial, Resort Area

A. Two Barrier Seal

One epoxy barrier and one compression fitting for maximum protection against wicking and water seepage into the motor housing.

B. Bearings

The heavy-duty ball bearings, upper (radial) and lower (thrust), are continuously lubricated by oil to ensure long service life.

C. Motor

Electrical design combines the advantages of high torque output with optimum running efficiency engineered specifically for grinder operation.

D. Stator Bolts

The stator is secured to the motor housing by means of stator bolts which ensure ease of maintenance if the need ever arises.

E. Shaft

Standard stainless steel shaft in grinder pump.

F. Dual Seals

Dual seals for maximum moisture protection.

G. Moisture Probe

Moisture detection probe.

H. Cutters

Exclusive "Dual Cutter" design cuts solids to smallest particle size thereby greatly reducing clogging, roping, or binding.

I. Impeller

Engineered nonmetallic semiopen impeller molded to a bronze insert for greatest torque driving capabilities. Impeller made of high strength Valox® which provides highest level of corrosion resistance and maximum toughness from impact for a wide variety of slurry pumpage. Pump-out vanes preclude material buildup around shaft and seal.

HPGFX/HPGFHX Pump Features

A. Three Barrier Seal

One epoxy barrier, one compression fitting and two additional O-rings for maximum protection against wicking and water seepage into the motor housing.

B. Bearings

The heavy-duty ball bearings, upper (radial) and lower (thrust), are continuously lubricated by oil to ensure long service life.

C. Motor

Electrical design combines the advantages of high torque output with optimum running efficiency engineered specifically for grinder operation.

D. Stator Bolts

The stator is secured to the motor housing by means of stator bolts which ensure ease of maintenance if the need ever arises.

E. Shaft

Standard stainless steel shaft in grinder pump.

F. Dual Seals

Dual seals for maximum moisture protection.

G. Two Moisture Probes

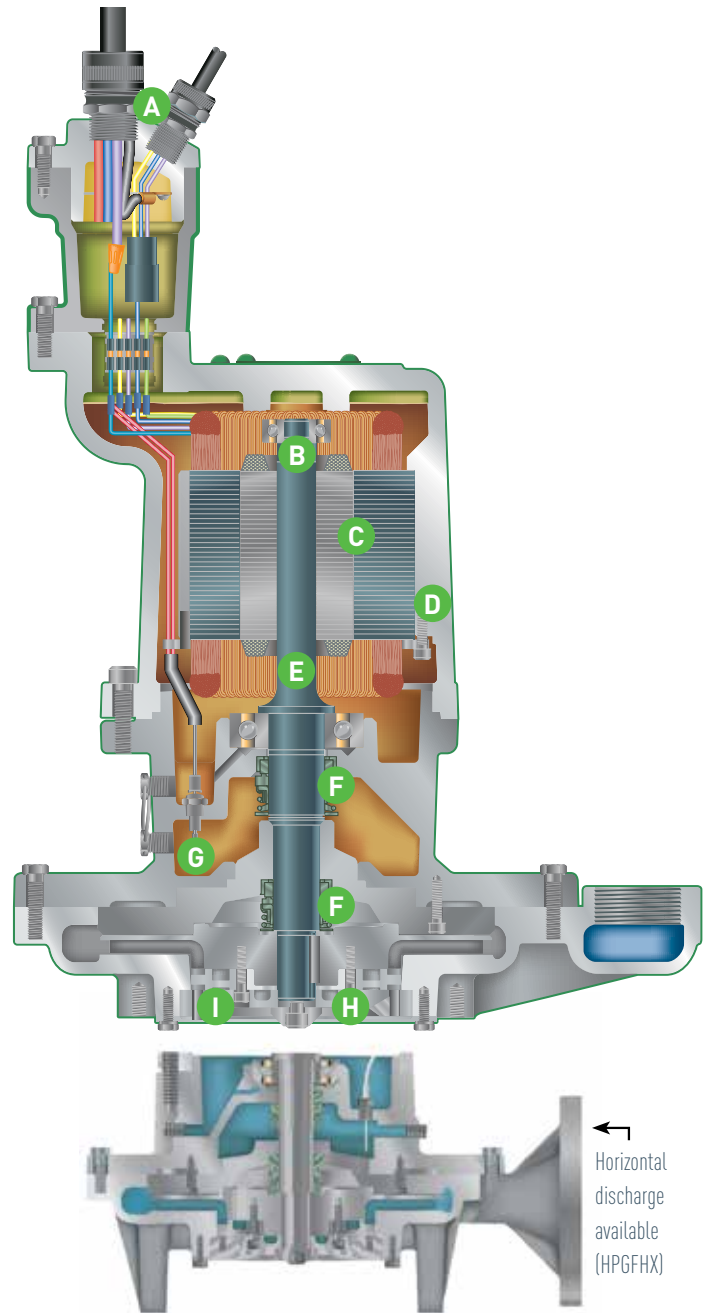
Moisture detection probe located in seal chamber.

H. Cutters

Exclusive "Dual Cutter" design cuts solids to smallest particle size thereby greatly reducing clogging, roping, or binding.

I. Impeller

Multivane, semiopen impeller.



Horizontal discharge available (HPGFHX)

Applications:

Municipal, Commercial, Residential, Resort Area



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