



**HYDROMATIC<sup>®</sup>**  
**MODELS HPGH(X)/HPGHH(X)**  
**SUBMERSIBLE SEWAGE**  
**GRINDER PUMPS**

**ALSO AVAILABLE FOR HAZARDOUS LOCATION**

HPGHX/HPGHHX



# HYDROMATIC® MODELS HPGH(X)/HPGHH(X)

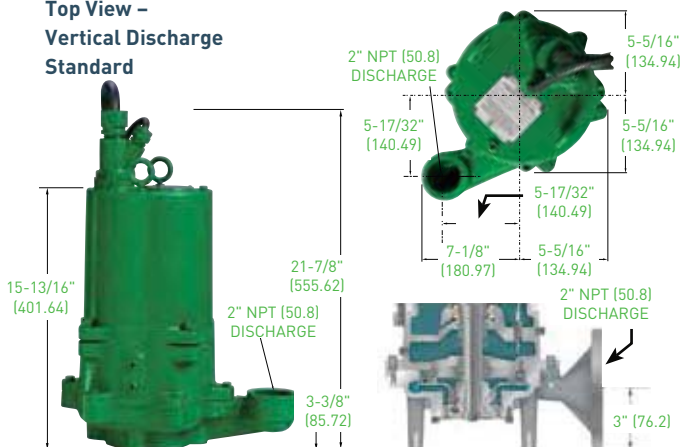
## Submersible Sewage Grinder Pumps

| HPGH(X)/HPGHH(X) Pumps Characteristics |                                         |      |                      |      |      |
|----------------------------------------|-----------------------------------------|------|----------------------|------|------|
| Pump / Motor Unit                      | Submersible-Grinder                     |      |                      |      |      |
| Phase                                  | 1 Ø                                     |      | 3 Ø                  |      |      |
| Horsepower                             | 3                                       | 5    | 3                    | 5    | 7.5  |
| 208V FLA                               | 20.6                                    | 33.9 | 10.9                 | 17.9 | 24.8 |
| 230V FLA                               | 17.9                                    | 29.5 | 9.4                  | 15.6 | 21.5 |
| 460V FLA                               | N/A                                     | N/A  | 4.7                  | 7.8  | 10.8 |
| 575V FLA                               | N/A                                     | N/A  | 3.8                  | 6.2  | 8.6  |
| Motor Type                             | Oil-Cooled Induction Capacitor Start    |      | Oil-Cooled Induction |      |      |
| RPM                                    | 3450                                    |      |                      |      |      |
| Temperature                            | 140°F Ambient                           |      |                      |      |      |
| Operation                              | Intermittent                            |      |                      |      |      |
| Hertz                                  | 60 Hz                                   |      |                      |      |      |
| Thermal Overload                       | Bimetallic                              |      |                      |      |      |
| Temperature                            | Maximum Water 140°F                     |      |                      |      |      |
| NEMA Design                            | Type L (1 Ø)                            |      | Type B (3 Ø)         |      |      |
| Insulation                             | Class F                                 |      |                      |      |      |
| Discharge Size                         | 2" NPT – 3" 125 lb. Flange (Horizontal) |      |                      |      |      |
| Unit Weight                            | 225 lbs.                                |      |                      |      |      |
| Power Cord                             | S00W, W                                 |      |                      |      |      |
| Control Cord                           | S00W                                    |      |                      |      |      |

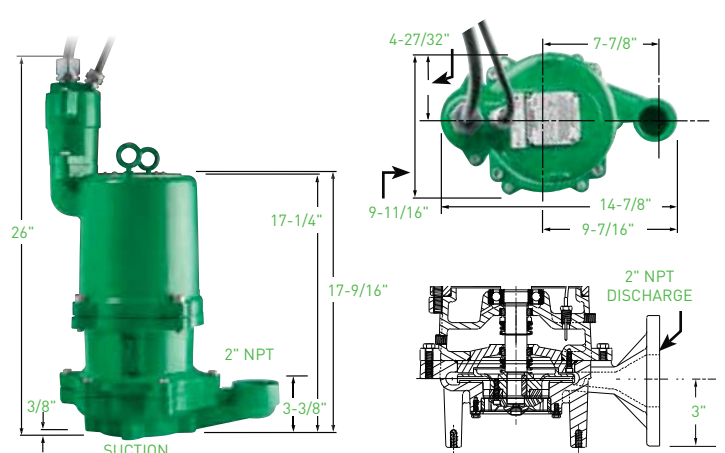
| HPGH(X)/HPGHH(X) Materials of Construction |                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------|
| Description                                | 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 SST                                                                                |
| Cutters                                    | 440C Hardened 55-60 Rockwell C                                                                     |
| Upper Bearing                              | (Radial) Single Row-Ball                                                                           |
| Lower Bearing                              | (Thrust) Single Row-Ball                                                                           |
| Fasteners                                  | Stainless Steel                                                                                    |

### HPGH/HPGHH Dimensional Data

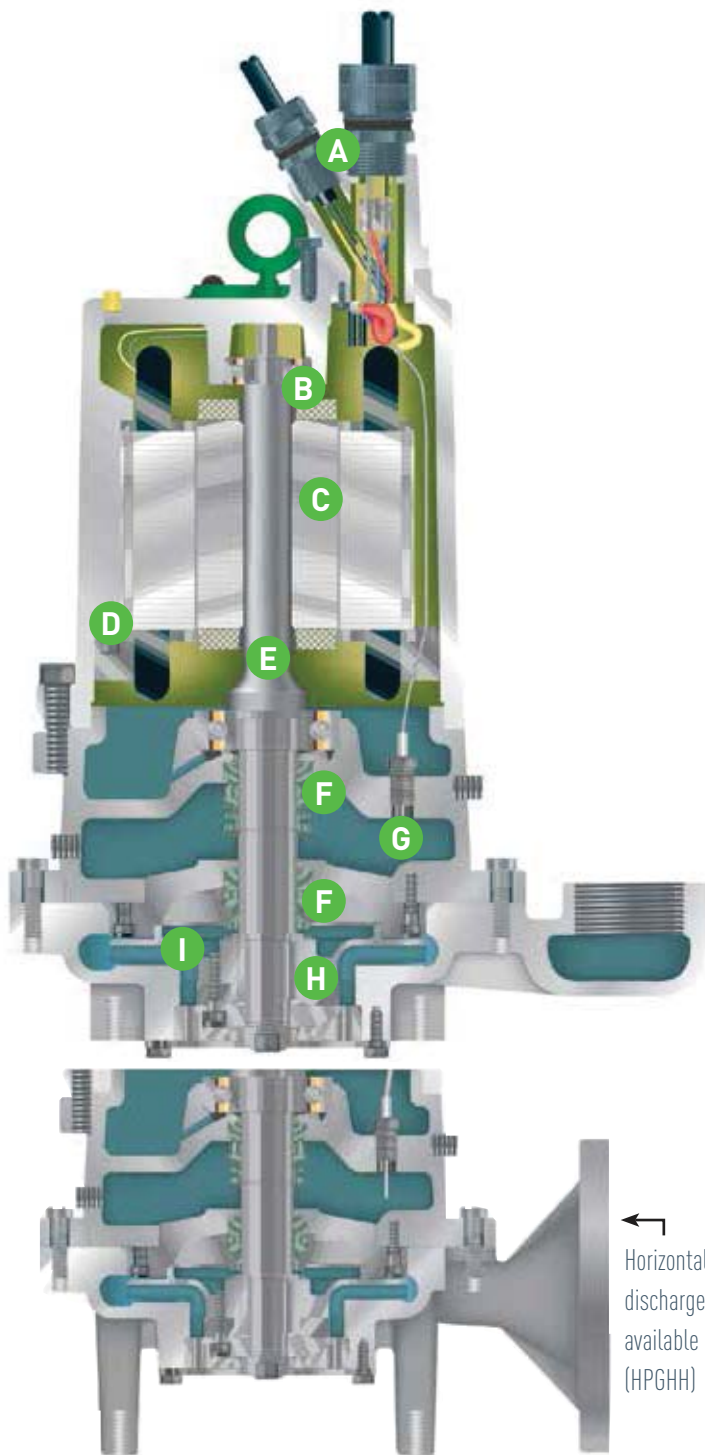
Top View – Vertical Discharge Standard



### HPGHX/HPGHHX Dimensional Data



# HPGH/HPGHH Pump Features



## 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 and retaining ring 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

Standard 316 SST / CF8M impeller provides highest level of corrosion resistance and maximum toughness from impact for a wide variety of slurry pumpage.

←  
Horizontal discharge available (HPGHH)

## Applications:

Residential, Commercial, Resort Area

# HPGHX/HPGHHX 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

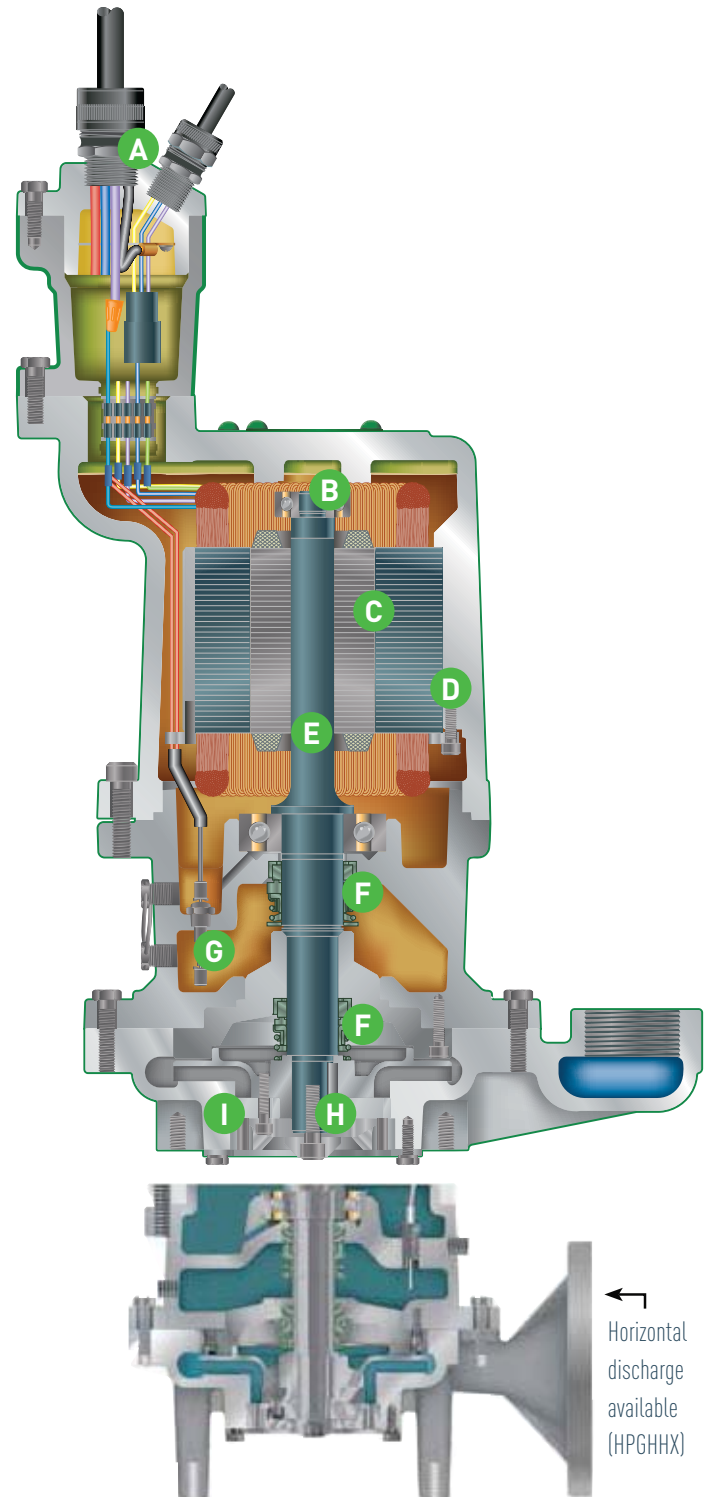
Moisture detection probe located in seal chamber.

## H. Cutters

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

## I. Impeller

Multivane, semiopen impeller.



1101 MYERS PARKWAY  
ASHLAND, OHIO 44805  
PH: 855-274-8947  
WWW.HYDROMATIC.COM

490 PINEBUSH ROAD, UNIT 4  
CAMBRIDGE, ONTARIO, CANADA N1T 0A5  
PH: 800-363-7867  
WWW.HYDROMATIC.COM

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Applications:  
Municipal, Commercial, Residential, Resort Area