PENTAIR

HYDROMATIC®

MODELS HPGH(X)/HPGHH(X)

SUBMERSIBLE SEWAGE GRINDER PUMPS

ALSO AVAILABLE FOR HAZARDOUS LOCATION

HPGHX/HPGHHX

FM APPROVED

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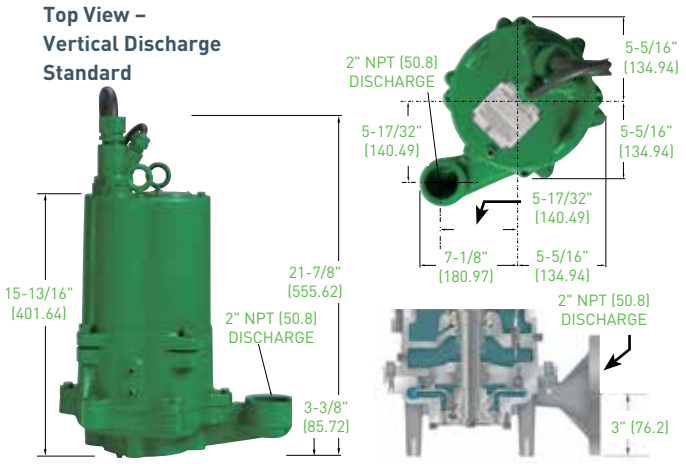
HYDROMATIC® MODELS HPGH(X)/HPGHH(X)
Submersible Sewage Grinder Pumps

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	SOOW, W				
Control Cord	SOOW				

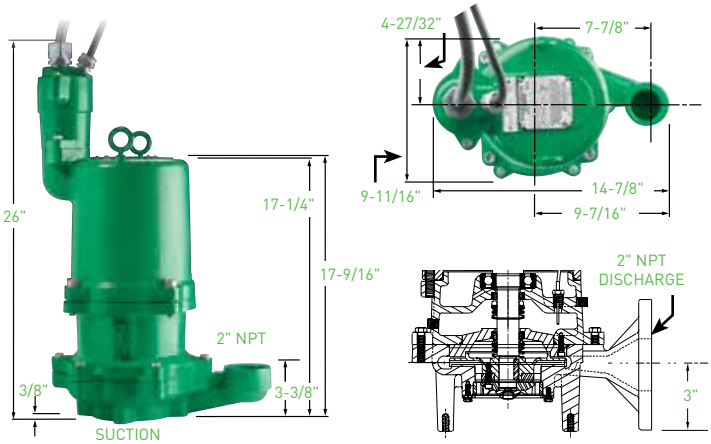
HPGH(X)/HPGHH(X) Materials of Construction	
Description	Material of Construction
Motor Housing	Cast Iron ASTM-48
Pump Casing	Cast Iron ASTM-48
Coolant / Lubricant	Dielectric Oil
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon / Ceramic, Seal Body: Stainless Steel, Spring: Stainless Steel, Bellows: Buna-N
Impeller	Semiopen 5-Vane Bronze
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



All dimensions in inches. Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

HPGH/HPGHH Pump Features

Horizontal discharge available (HPGHH)

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 impeller 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.

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.

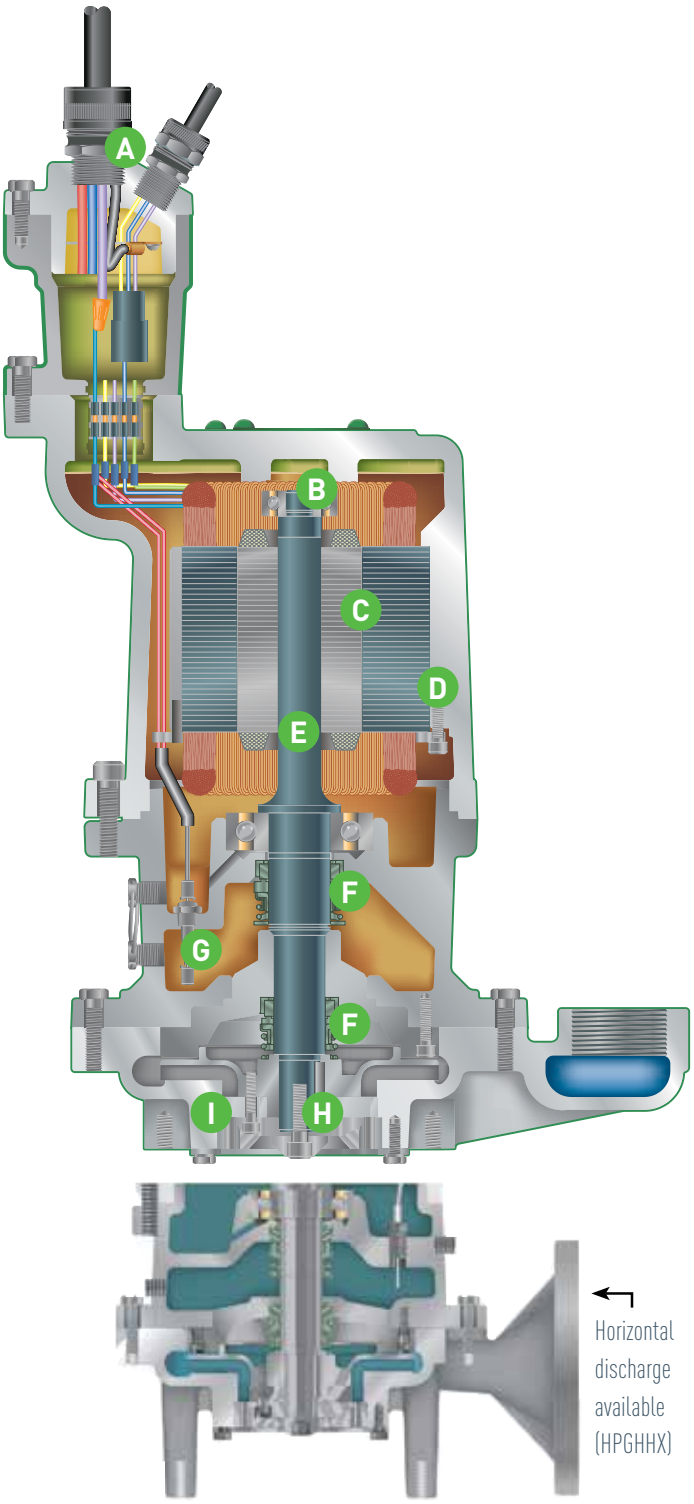
E. Shaft
Standard stainless steel shaft in grinder pump.

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.



Horizontal discharge available (HPGHHX)

Applications:
Municipal, Commercial, Residential, Resort Area

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Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.
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