

HYDROMATIC[®]
MODELS HPGH/HPGHH
SUBMERSIBLE SEWAGE
GRINDER PUMPS



HYDROMATIC® MODELS HPGH/HPGHH

Submersible Sewage Grinder Pumps

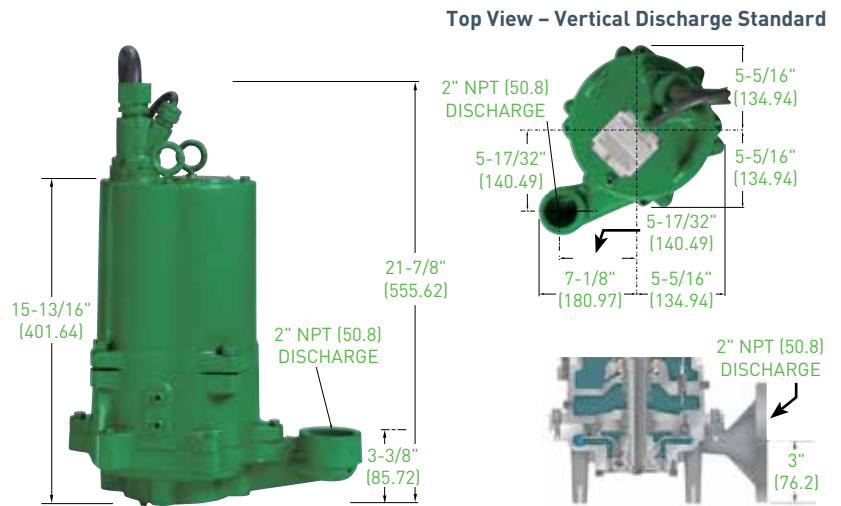
Pumps Characteristics

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				

Materials of Construction

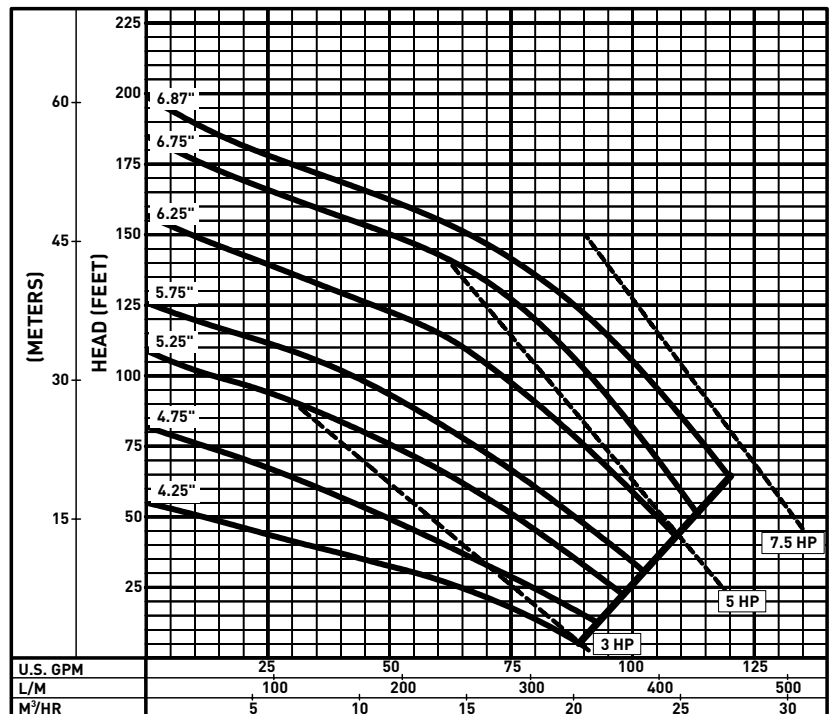
Description	Material of Construction
Motor Housing	Cast Iron ASTM-48
Pump Casing	Cast Iron ASTM-48
Coolant/Lubricant	Dielectric Oil
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon / Ceramic Seal Body: Stainless Steel Spring: Stainless Steel Bellows: Buna-N
Impeller	Semiopen 5-Vane Bronze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

Dimensional Data

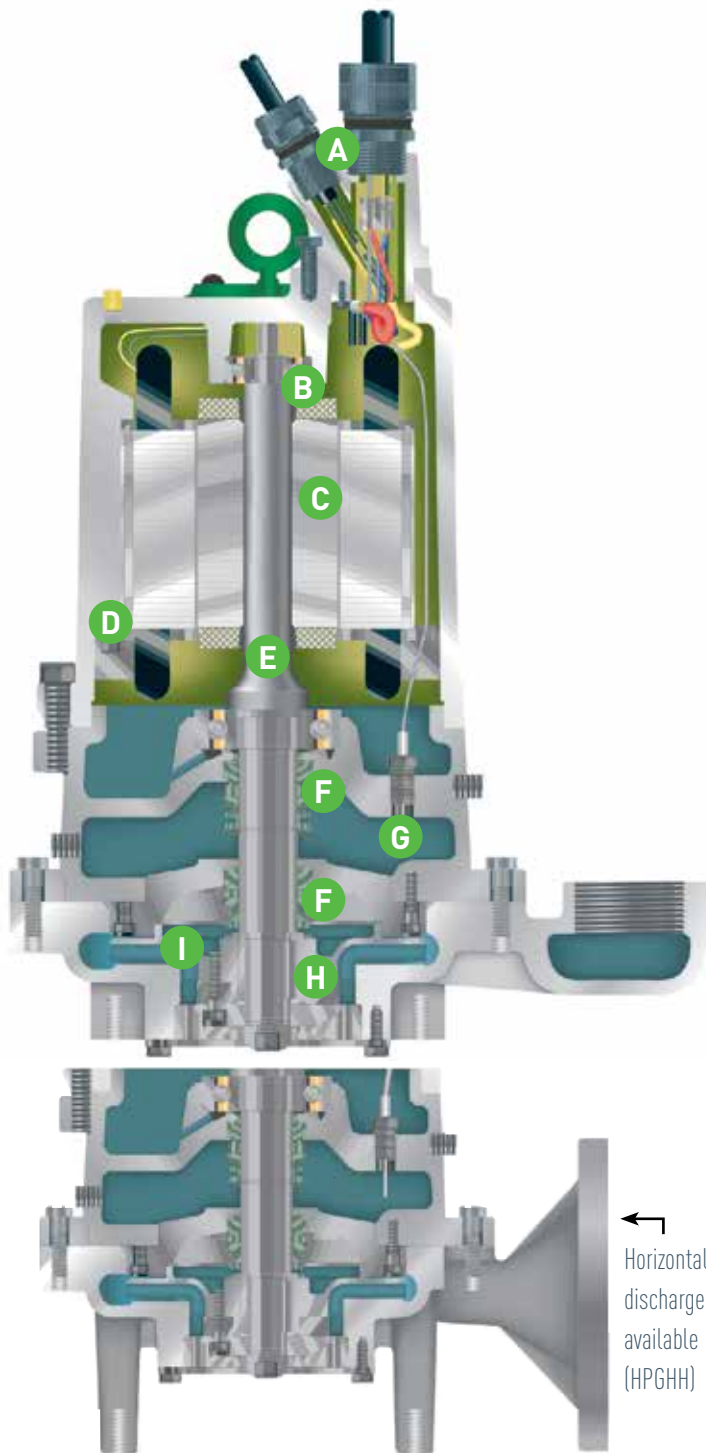


All dimensions in inches (mm). Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

Performance Data



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 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

Horizontal discharge available (HPGHH)



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