

EXPLOSION-PROOF, SUBMERSIBLE SEWAGE GRINDER PUMPS

Models HPGHX/HPGHHX



Applications

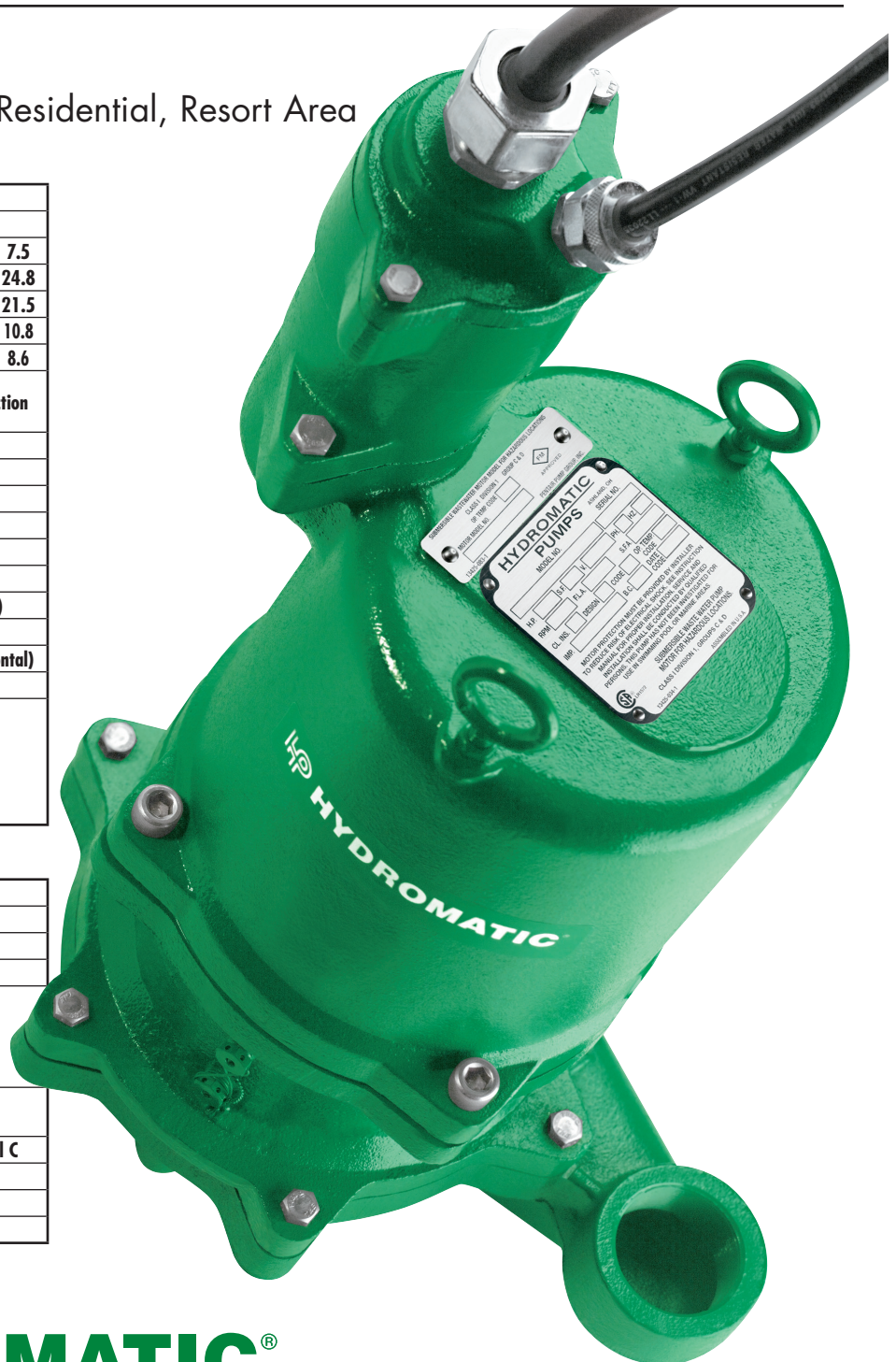
- Municipal, Commercial, Residential, Resort Area

Pump Characteristics

Pump/Motor Unit	Submersible-Grinder				
	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		
R.P.M.	3450				
Temp.	140° F Ambient				
Operation	Intermittent				
Hertz	60 Hz				
Thermal Overload	Bi-Metallic				
Temperature	Max. 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	Type STW/STW-A Water Resistant 600V, 60° C CSA Approved 35' Ft. Std.				

Materials 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	Semi-open 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



HYDROMATIC®
Pentair Water

HPGHX/HPGHHX – Submersible Sewage Grinder Pumps

Details

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

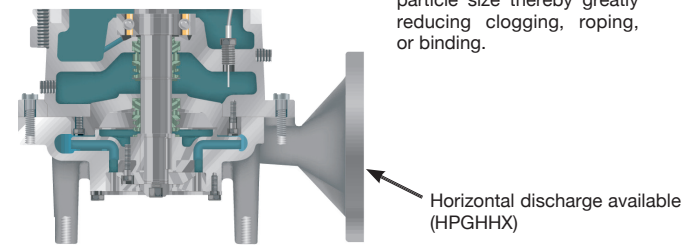
Dual seals for maximum moisture protection.

G. TWO MOISTURE PROBES

Moisture detection probe located in seal chamber.

H. CUTTERS

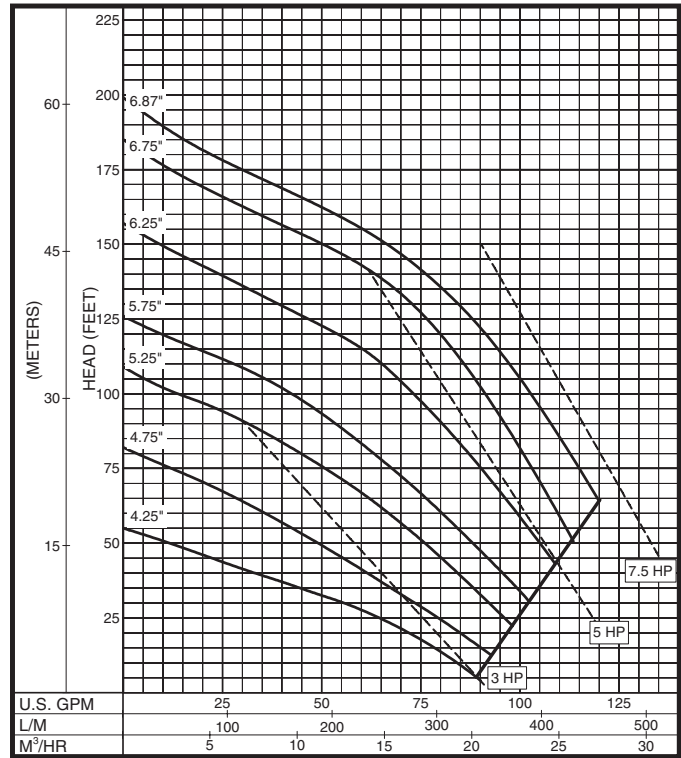
Exclusive "Dual Cutter" design cuts solids to smallest particle size thereby greatly reducing clogging, roping, or binding.



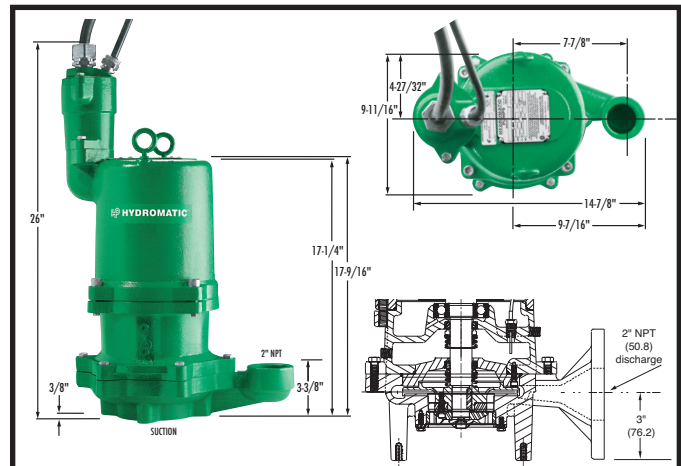
I. IMPELLER

The multivane, semi-open impeller is cast bronze and noncorrosive to provide long life.

Performance Data



Dimensional Data



All dimensions in inches. Metric for international use. Component dimensions may vary $\pm 1/8$ inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable. We reserve the right to make revisions to our product and their specifications without notice.



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