PENTAIR
HYDROMATIC

STANDARD AND HAZARDOUS LOCATION 2 HP SUBMERSIBLE SEWAGE GRINDER PUMPS

HWG200 AND HWG(X)200



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FM APPROVED
HWG(X)200 ONLY

PENTAIR® HYDROMATIC® MODELS HWG200 AND HWG(X)200

Submersible Sewage Grinder Pumps

DESIGNED FOR RESIDENTIAL, LIGHT COMMERCIAL AND INDUSTRIAL APPLICATIONS

The Pentair Hydromatic HWG(X) Series by Pentair are rugged 2 horsepower submersible centrifugal grinder pumps designed for residential, light commercial or industrial applications. It is especially suited for use in pressure sewer applications or in systems with long discharge runs or high static heads. The HWG(X) Series features a recessed impeller design to efficiently grind typical domestic sewage solids into a fine slurry. These pumps are available in standard construction and construction for use in Class 1, Group D hazardous locations.

The HWG(X) Series can be installed in a variety of packaged systems. Factory-assembled simplex or duplex packages with guide rail systems are available. Individual rail components are also available for installation in on-site concrete systems. Pentair Hydromatic offers a complete line of submersible grinder, solids handling wastewater pumps, controls, basins, and accessories. For additional information, please contact your Pentair Hydromatic representative or the Ashland, Ohio sales office at 855.274.8947.

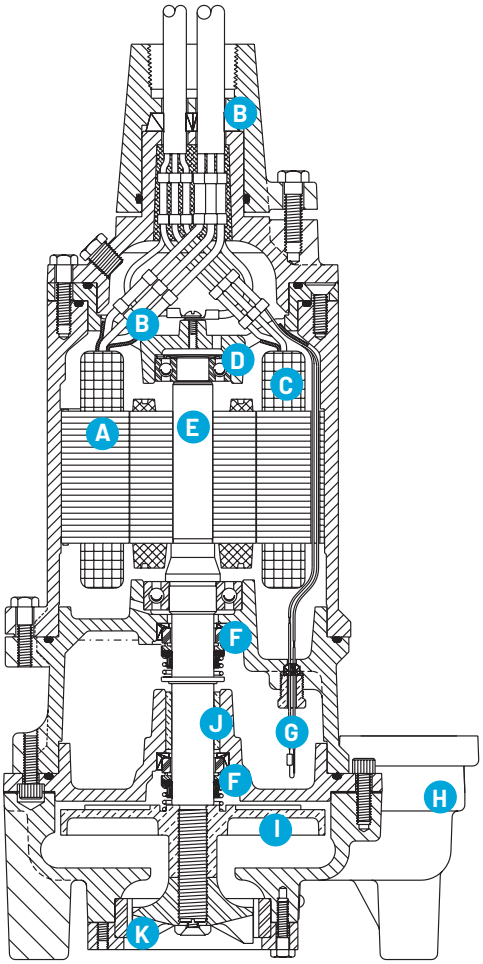


Product Capabilities		
Capacities To	40 gpm	150.7 lpm
Heads To	100 ft.	30.5 m
Liquids Handling	domestic raw sewage	
Intermittent Liquid Temp.	up to 140˚F	up to 60˚C
Winding Insulation Temp. (Class F)	311˚F	155˚C
Motor Electrical Data (Single phase motors are capacitor start and capacitor run type. Pentair Hydromatic control panels or capacitor kits are required for proper operation and warranty.)	2 HP, 3450 RPM 1 ph – capacitor start/run. 208 or 230 volts; 60 Hz 3 ph – induction run 208, 230, 460, 575 volts, 60 Hz	
Third Party Approvals	HWG - CSA HWGX - CSA, FM	
Acceptable pH Range	6 – 9	
Specific Gravity	.9 – 1.1	
Viscosity	28 – 35 SSU	
Discharge, NPT	1-¼ in.	31.75 mm
Min. Sump Diameter Simplex Duplex	 24 in. 36 in.	 61.0 cm 91.4 c

Note: Consult factory for applications outside these recommendations.

Construction Materials	
Motor Housing, Seal Housing, Cord Cap and Volute Case	cast iron, Class 30, ASTM A48
Impeller	recessed, 316 SST / CF8M
Power Cord	SOOW
Control Cord	SOOW
Mechanical Seals: Standard Optional	 double tandem carbon and ceramic lower tungsten carbide
Pump, Motor Shaft	416 SST
Fasteners	300 Series SST
Shredding Ring, Grinding Impeller	440 SST, 58-60 Rockwell

PUMP FEATURES AND APPLICATIONS



A. Stator – 2 HP
2 hp, 3450 RPM, 1 and 3 phase. Press fit for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings.

B. Cable Entry System
Provides double seal protection. Cable jacket sealed by compression fitting. Individual wires sealed by epoxy potting.

C. Heat Sensor
Protects motor from burnout due to excessive heat from any overload condition. Automatically resets when motor has cooled.

D. Ball Bearings
Upper and lower ball bearings support shaft and rotor and take axial and radial loads.

E. Heavy 416 Sst Shaft
Corrosion resistant. Reduces shaft deflection due to grinding loads.

F. Shaft Seals
Double tandem mechanical shaft seals protect motor. Oil-filled seal chamber provides continuous lubrication.

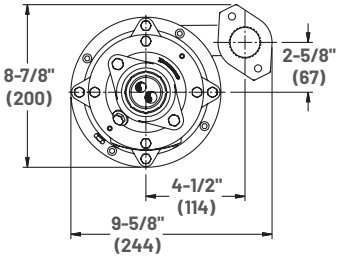
G. Seal Leak Probe
Detects water in seal housing, activates warning light in control panel.

H. Volute Case
Cast iron 11⁄4" NPT vertical discharge.

I. Impeller
SST recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. Pump-out vanes help keep trash from seal, reduces pressure at seal faces.

J. Sleeve Bearing
Takes radial load; provides flame path.

K. Grinder Assembly
Grinder impeller and shredding ring are replaceable without dismantling pump. Constructed of 440 SST hardened to 56-60 Rockwell.



IDEAL FOR USE IN PRESSURE SEWER SYSTEMS.

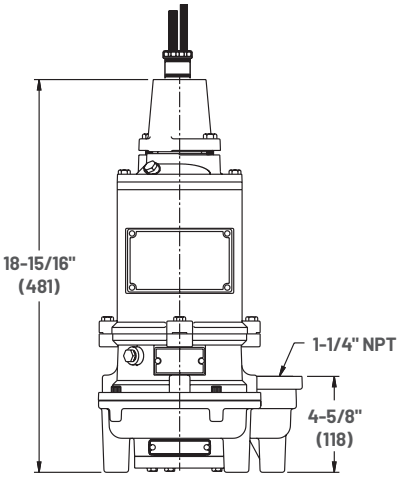
- Choice of standard, high flow or high head designs.
- Recessed impeller provides steep non-overloading operating curve.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Recessed impeller reduces radial bearing loads, increases bearing life.
- High torque capacitor start/ run single phase or three phase motors for assured starting under heavy load.
- Seal leak probes and on-winding heat sensors warn of seal leak condition and stop motor if motor overheats. Helps prevent costly motor damage.

THE HWG(X)200 SERIES IS DESIGNED FOR EASY MAINTENANCE.

- Shredding ring and grinder impeller are replaceable without dismantling pump or motor.





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HYD14402 (12-19-22)