

HV200 SERIES GRINDER PUMPS



ADVANCED
HYDRAULICS



LEGENDARY SEAL
LEAK DETECTION



PATENTED
AXIAL CUTTER
TECHNOLOGY

PENTAIR® HYDROMATIC® HV200 SERIES GRINDER PUMPS

HYDROMATIC HV200 SERIES SUBMERSIBLE GRINDER PUMPS

Pentair Hydromatic HV200 Series Grinder Pumps are engineered from the ground up, in order to overcome the increased debris and higher pressure required in today's wastewater environment. These grinder pumps feature a patented axial cutter design and semi-open impeller to help slice through the toughest solids and trash found in domestic wastewater without roping or clogging.



ADVANCED HYDRAULICS

The only single stage centrifugal 2 HP grinder that can deliver up to 185' of lift for superior performance and reliability.



LEGENDARY SEAL LEAK DETECTION

Early warning system for reduced downtime and maintenance costs.



PATENTED AXIAL CUTTER TECHNOLOGY

Easily slices through solids and trash found in domestic wastewater without roping or clogging.



WATCH THE VIDEO AT [PENTAIR.COM](https://www.pentair.com)



FEATURES

Cable Entry System

- Cable jacket sealed by compression fitting; individual wires sealed by compression grommet for double seal protection against water ingress
- Replace power cord without disturbing motor for ease of maintenance

Oil-Filled Motor

- Maximizes heat dissipation; provides constant bearing lubrication for long life

Heavy 416 SST Shaft

- Corrosion resistant, reduces shaft deflection for long life

Double Mechanical Shaft Seals

- In oil-filled seal chamber for continuous lubrication, superior motor protection

Seal Leak Probe

- Located in seal chamber instead of motor area for early warning of water leaks. Allows corrective action before costly motor or bearing failure occurs
- Activates warning light in control panel

SST Semi-Open Impeller

- Provides improved performance, resists clogging
- Pump-out vanes help keep trash from seal, reduces pressure at seal face for longer life

Heat Sensor

- Protects motor from burnout due to excessive heat from any overload condition
- Automatically resets when motor has cooled

Lower Double Row Ball

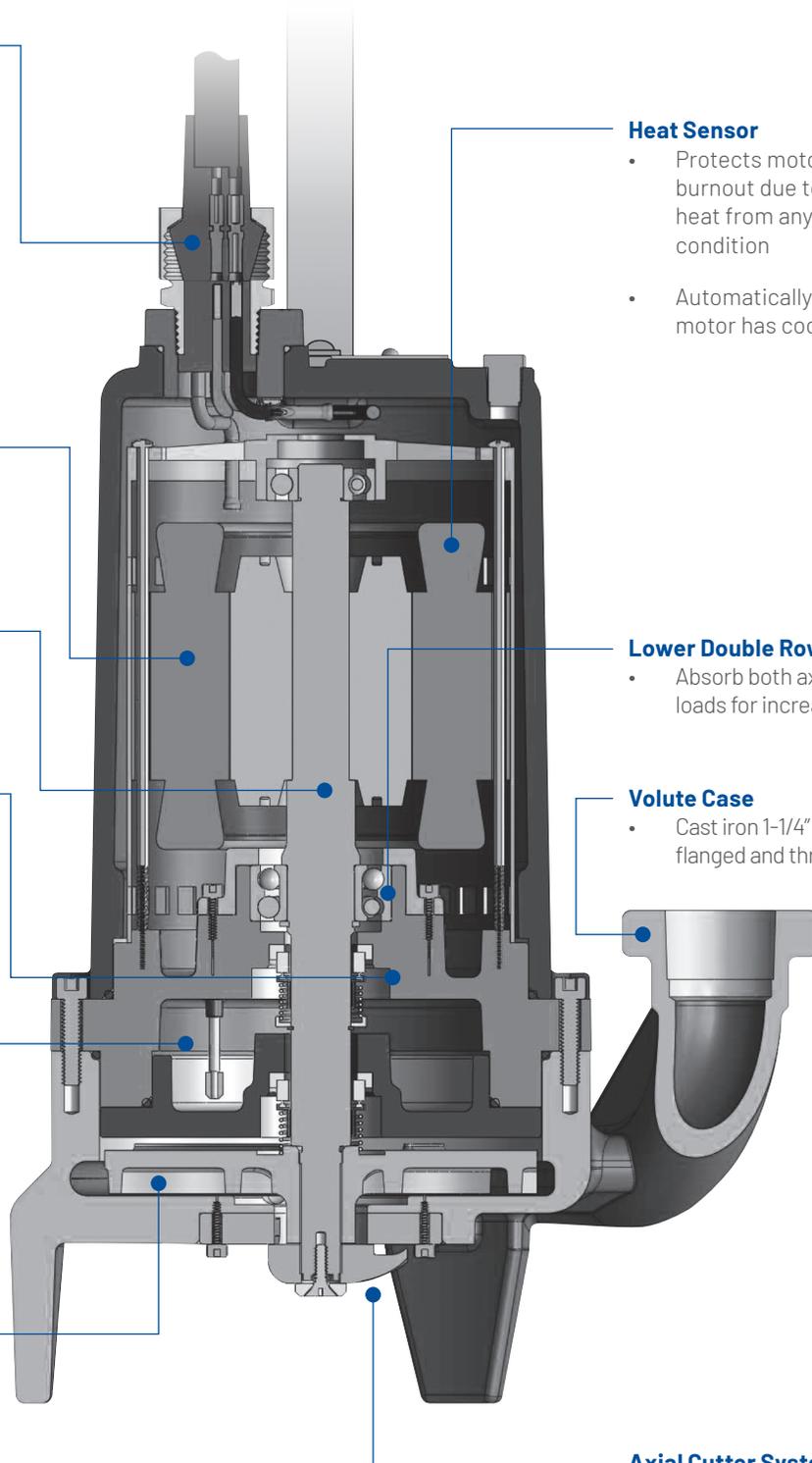
- Absorb both axial and radial loads for increased durability

Volute Case

- Cast iron 1-1/4" NPT vertical flanged and threaded discharge

Axial Cutter System

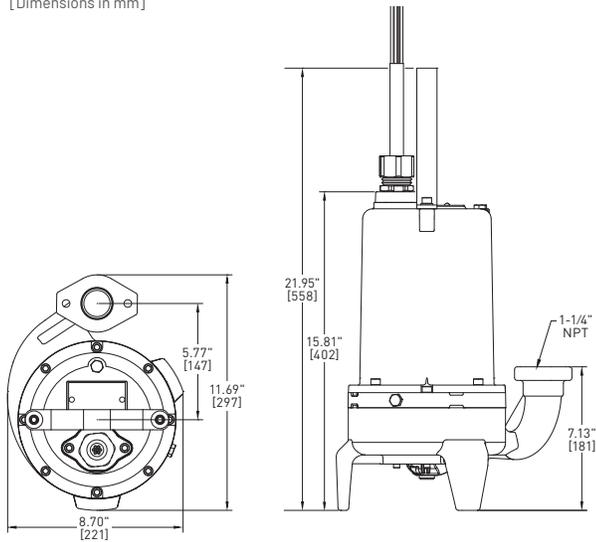
- Constructed of 440 SST hardened to 57-60Rc for long life
- Easily replaceable without dismantling pump



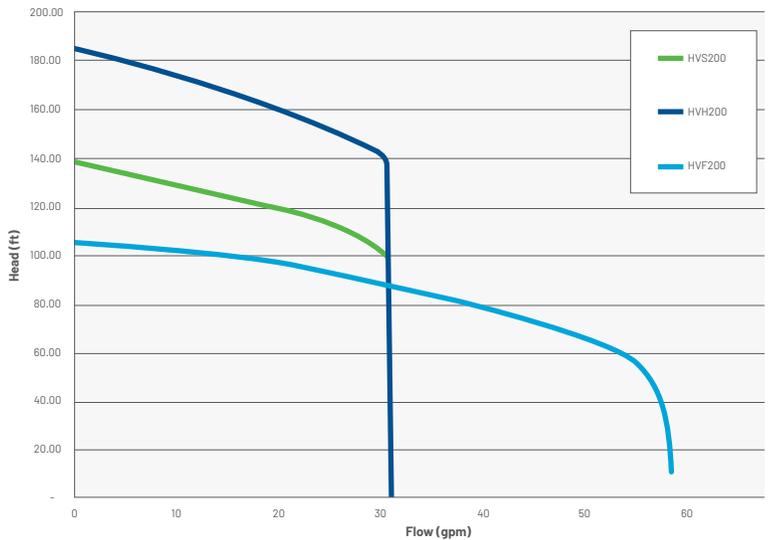
PERFORMANCE DATA AND DIMENSIONS

3450 RPM

[Dimensions in mm]



2HP PUMP CURVES



CONSTRUCTION MATERIALS

MOTOR HOUSING, SEAL HOUSING, CORD CAP AND VOLUTE CASE		Cast Iron, Class 30, ASTM A48
IMPELLER		Semi-Open, Stainless Steel
POWER CORD		20' S00W
MECHANICAL SEALS	STANDARD	Double Tandem Carbon and Ceramic
	OPTIONAL	Lower Tungsten Carbide
PUMP, MOTOR SHAFT		416 SST
FASTENERS		300 Series SST
ROTATING CUTTER, STATIONARY CUTTER		440 SST 57-60 Rockwell

PRODUCT CAPABILITIES

CAPACITIES TO	58.5 gpm	22.41 lpm
HEADS TO	185 ft	56.38
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*	2 hp, 3450 rpm 1 ph - capacitor start/run 200, 230 volts; 60 Hz 3 ph - induction run 200, 230, 460, 575 volts, 60 Hz	
STD. THIRD PARTY APPROVALS	CSA	
ACCEPTABLE PH RANGE	6 - 9	
SPECIFIC GRAVITY	.9 - 1.1	
VISCOSITY	28 - 35 SSU	
DISCHARGE (FLANGE DIA.)	1-1/4 in.	31.75 mm
MIN. SUMP DIAMETER	SIMPLEX	24 in. / 61.0 cm
	DUPLEX	36 in. / 91.4 cm

*Single phase motors are capacitor start type. Hydromatic control panels or capacitor kits are recommended for proper operation and warranty.



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