PENTAIR
HYDROMATIC

HPE SERIES

PREMIUM EFFICIENT SOLIDS HANDLING PUMPS



pentair.com/hydromatic

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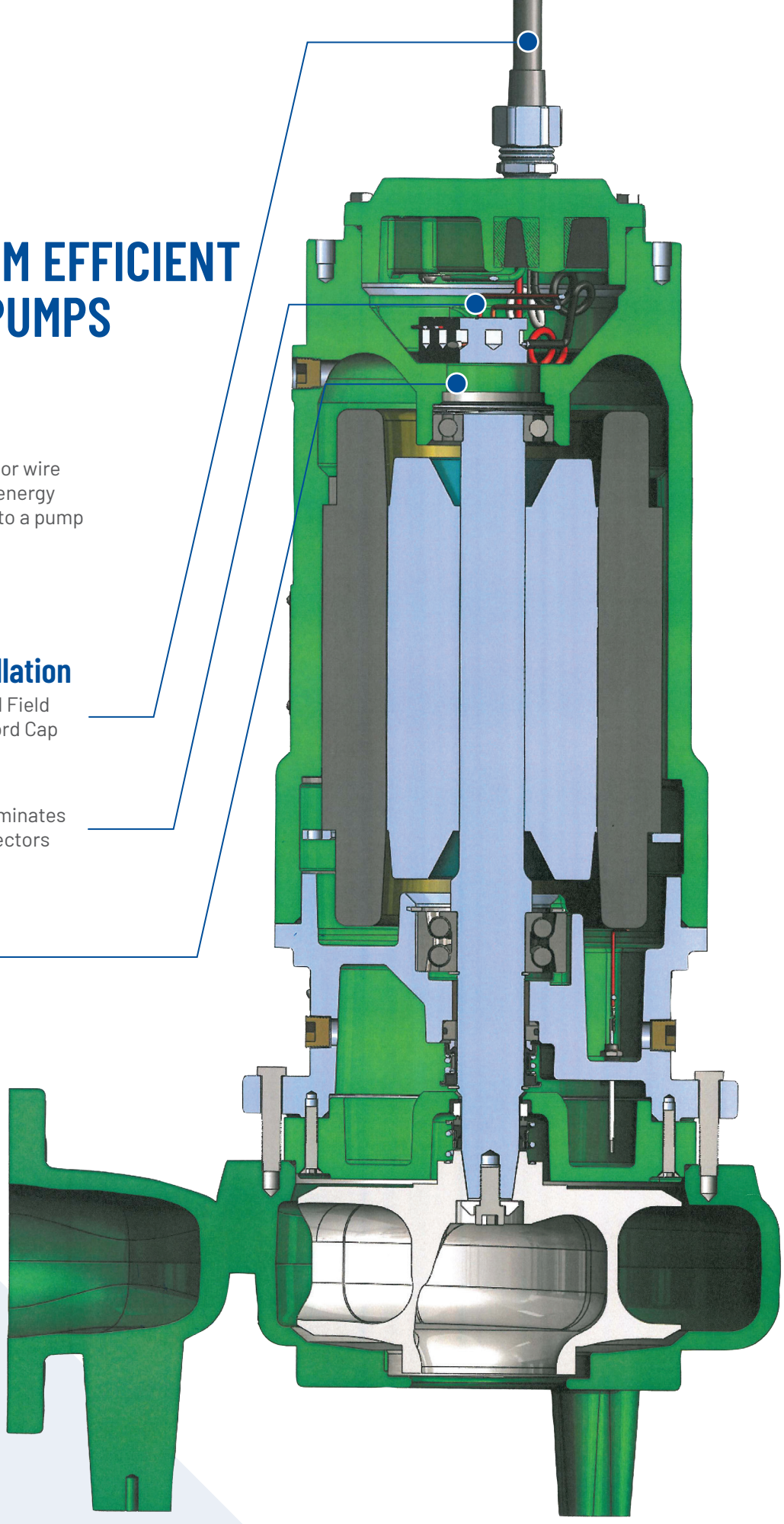
HPE SERIES PREMIUM EFFICIENT SOLIDS HANDLING PUMPS

Lower Cost of Ownership

- Premium Efficient Motors provide superior wire to water efficiencies resulting in annual energy savings of up to $6,000 when compared to a pump with a Standard Efficient Motor*.

Ease of Maintenance and Installation

- Quick Disconnect Cord is Specifiable and Field Serviceable – Avoids Replacing Entire Cord Cap
- Terminal Block – Positive Connection Eliminates Connection Box, Wire Nuts, Crimp Connectors
- Maintenance Free, Permanently Lubricated Bearings
- Ordinary and Hazardous Location Available
- Seal and Quick Disconnect Cord Replacements will NOT void FM/CSA Certification



*Based on:

- Condition point of 6000 GPM at 60.5 feet of head
- Standard efficient S12L = 139,500 watts and 201.73 amps
- Premium efficient S12LXP = 126,800 watts and 179.77 amps
- Average run time per day = 10 hours
- Average price per KW/hour = $0.13

HPE SERIES PREMIUM EFFICIENT SOLIDS HANDLING PUMPS

Longer Pump Life

- Non-toxic oil filled motor for superior heat transfer and decreased operating temperature runs up to 40°C cooler than competitive premium efficiency air cooled motors for longer life.
- Seal leak detection – true early-warning system, housed in seal chamber to alert of liquid intrusion into outboard seal.
- Industry first shaft grounding option for VFD – prevents premature bearing failure.

PENTAIR HYDROMATIC® HPE BEATS THE COMPETITION

FEATURES	HYDROMATIC HPE	COMPETITION
Superior Cooling	✓ Oil-Filled Motor	✗ Air-Filled Motor
Continuous Bearing Lubrication	✓ Continuously Oil Lubricated Maintenance Free Bearings	✗ Grease Packed Bearings That Require Yearly Maintenance
Superior Motor Moisture Protection	✓ Seal Leakage Detection Probes in Lower Seal Chamber	✗ Probes in Motor Housing
Superior Bearing Protection	✓ Optional Shaft Grounding Ring	✗ No Option for Shaft Grounding
Ease of Service	✓ Optional Quick Change-Out Cable Assembly	✗ Quick Change-Out Cables Not Available



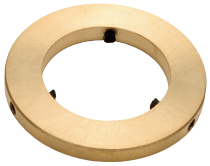
QUICK DISCONNECT CABLE

- Easy cord replacement in the field
- Pin and socket joint prevents oil from wicking, vulcanized rubber around the wire acts as a secondary block against moisture



TERMINAL BLOCK

- Superior electrical connection without the need for wire nuts and crimp connectors
- Reusable. No need to cut wires for service
  NOTE: Terminal block featured on 210 frame pumps, and select 460 volt and 575 volt pumps 250 frame and larger.



SHAFT GROUND RING

- Proprietary conductive filaments provide a low impedance path to ground
- Protects the bearings from premature failure caused by VFD induced currents



DOUBLE ROW ANGULAR CONTACT BEARINGS

- Absorbs harmful thrust transfer up the motor stack, ensuring positive location of the rotor in the stator
- B10 life of 50,000 hours over the entire operating range for longer times between service calls



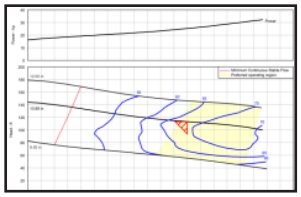
MECHANICAL SEALS

- Type 2100 inboard for durability, less drag and ease of installation
- Type 2 outboard for a wide range of service conditions and reducing downtime
- Carbon/Silicon Carbide as standard. Optional lower Tungsten Carbide/Tungsten Carbide

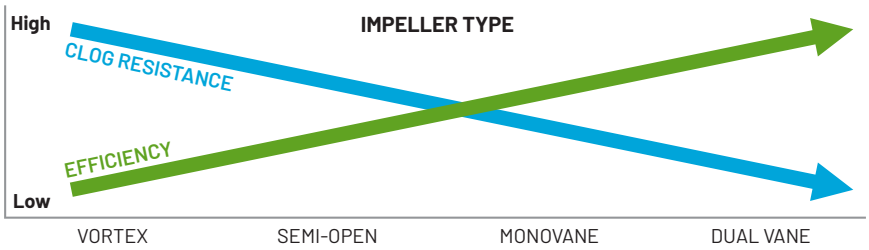
CHOOSING THE RIGHT HPE PUMP

1 Use the online pump selection tool at **www.pentair.com/hydromatic** to identify pumps that meet flow and head requirements.

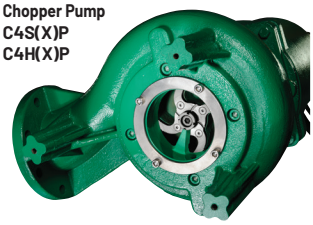




2 Choose the right pump based on efficiency and solids handling needs.



NEW!
Chopper Pump
C4S(X)P
C4H(X)P



MODEL	DISCHARGE	IMPELLER	MOTOR FRAME	HORSEPOWER			
				870 RPM	1150 RPM	1750 RPM	3450 RPM
H3H(X)P	3"	Monovane	210			7.5-15	
H4H(X)P	4"	Monovane	210			7.5-15	
S4M(X)P	4"	Dual Vane	210		3-5	5-15	
S4MV(X)P	4"	Vortex	210		3-5	5-15	
S4P(X)P	4"	Dual Vane	210			5-15	
S4HV(X)P	4"	Vortex	210				7.5-15
C4S(X)P	4"	Semi-open	210		3-5	7.5-15	
C4H(X)P	4"	Semi-open	250			20-40	
H40(X)P	4"	Monovane	250/280			20-50	
S4K(X)P	4"	Dual Vane	250/280			20-50	
S4B(X)P	4"	Dual Vane	250/280	5-7.5	7.5-15	20-50	
S4L(X)P	4"	Dual Vane	250/280	5-7.5	7.5-15	20-50	
S4LV(X)P	4"	Vortex	250/280	5-7.5	7.5-15	20-50	
S4T(X)P	4"	Dual Vane	320/360			75-150	
S6L(X)P	6"	Dual Vane	250/280	5-7.5	7.5-15	20-50	
S6A(X)P	6"	Dual Vane	250/280	5-7.5	7.5-15	20-50	
S8F(X)P	8"	Dual Vane	250/280	5-7.5	7.5-15	20-50	
S8LA(X)P	8"	Dual Vane	320/360			75-150	
S8L(X)P	8"	Dual Vane	320/360	20-25	40-60	75-150	
S12L(X)P	12"	Dual Vane	320/360	20-40	40-75	75-150	

3 Choose your options

CORD	SEALS	WEAR RINGS	PAINT	OTHER
❑ STANDARD or ❑ QUICK DISCONNECT	❑ STANDARD MECHANICAL	❑ VOLUTE WEAR RING or ❑ IMPELLER WEAR RING	❑ Standard ❑ Coal Tar Epoxy ❑ Polyamide Epoxy ❑ Phenalkamine Epoxy	❑ Shaft Ground Ring (for VFD)
LENGTH ❑ 35' ❑ 50' ❑ 75' ❑ 100'	**MATERIAL** ❑ Carbon/Silicon Carbide/Nitrile (standard) ❑ Carbon/Silicon Carbide/Flourocarbon ❑ Tungsten Carbide/Tungsten Carbide/Nitrile ❑ Tungsten Carbide/Flourocarbon	**MATERIAL** ❑ Standard ❑ 304 SST ❑ 410 SST ❑ Bronze		

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