

HIGH CAPACITY PUMP LIFT STATIONS (HCPLS)



Shown: HCPLS-0700-36-P5-3-AM-4-N4-RC-CL-PP-SC-52-VM-ST. 400 GPM lift station with 700 gallon tank, triplex pump configuration, polypropylene piping, side inlet, and a 460 VAC PLC-based control system.



Shown: HCPLS-0300-36-P4-2-AM-4-N4-IC-CL-PP-TC-DC-VM-ST. 200 GPM lift station with 300 gallon tank, duplex pump configuration, polypropylene piping, double containment, and a 460 VAC PLC-based control system.

Wastech High Capacity Pump Lift Stations (HCPLS) are designed for transferring water, chemicals and wastewater when a gravity drain is not possible. All HCPLS systems use thermoplastic vertical centrifugal pumps for corrosion resistance. Custom configurations and tank geometries are available, call or e-mail Sales.

Specifications

- Simplex (one pump), duplex (two pumps), or triplex (three pumps) configuration
- Multipoint level switch assembly with digital level display
- Separate lockable motor disconnects that allow maintenance work to be performed on one pump while the other is still in service
- All pump lift stations include a high-high level switch to activate a high level alarm
- Integrated or remote control panel
- Indoor or outdoor installation

Standard Features

- Custom fabricated polypropylene tank and skid with fork-lift slots
- Vertical centrifugal pumps with all non-metallic wetted parts available in PVC, CPVC, PP, or PVDF
- Thermoplastic closed and dynamically balanced pump impellers
- Vanite® outer vs. ceramic inner wet shaft bearings with product flush bearing lubrication
- Pump suction basket strainer with 1/4" holes
- Check valve for each pump with Viton seals to prevent liquid from flowing back into the tank
- NEMA 4X junction box to terminate instrumentation
- View window for maintenance access

Optional Features

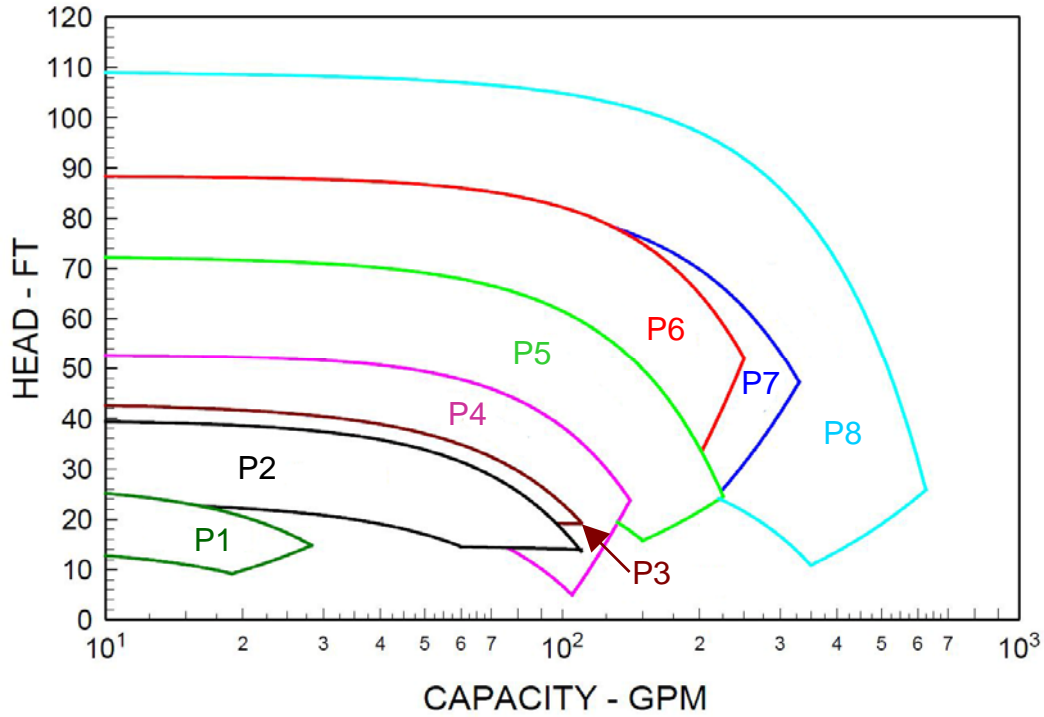
- Fabricated polypropylene double containment tank with float leak switch
- Discharge manifold with isolation ball valves
- Seismic tie downs
- Valve enclosure with latched clear PVC doors
- PLC-Based control system
- Redundant high level switch
- Discharge pressure gauges with isolation valves
- Vortex impellers for handling sludge and slurries
- Stainless steel tanks and pumps

ORDERING INFORMATION

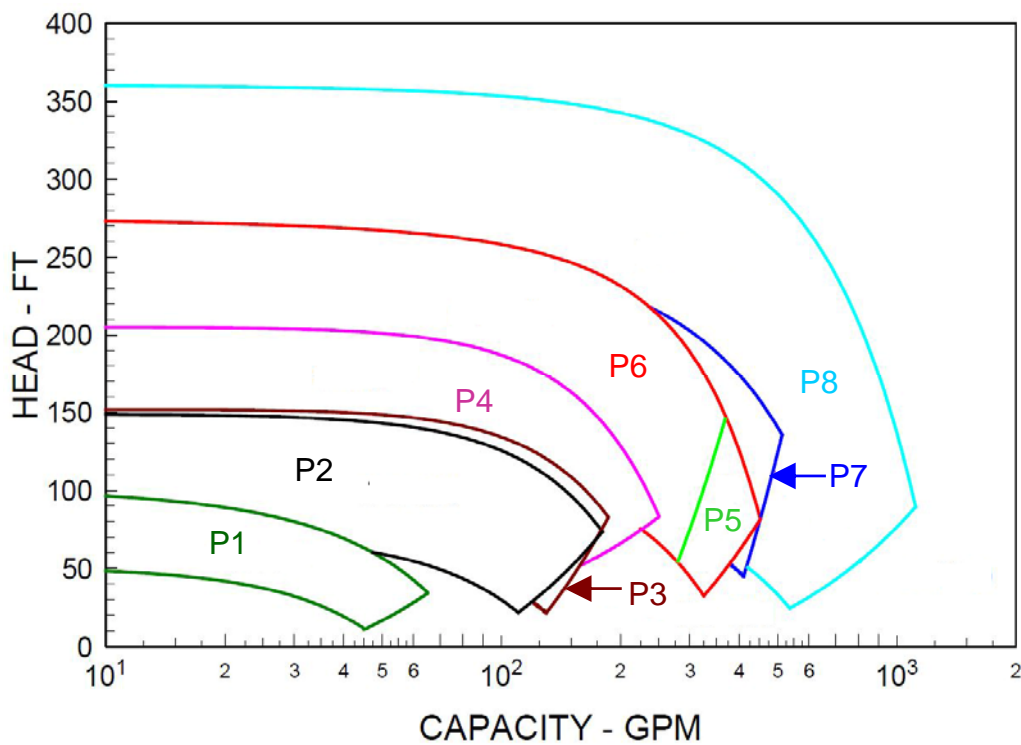
HCPLS	High Capacity Pump Lift Station												
	Tank Volume (Specify Between 120-200% of Flow Rate)*												
	-XXXX	Gallons*											
		Pump RPM (Choose One)											
	-18	1800 RPM											
	-36	3600 RPM											
		Pump Curve Number (Choose One)											
	-PX	P1 Through P8 (Refer to Page 3)											
		Pump Configuration (Choose One)											
	-1	Simplex (One Pump)											
	-2	Duplex (Two Pumps, Alternating Lead-Lag)											
	-3	Triplex (Three Pumps, Alternating Lead-Lag1-Lag2)											
		Control Options (Choose One)											
	-RB	Relay-Based Control Panel (no PLC or HMI)											
	-IM	IDEC PLC with 7" Maple HMI											
	-AM	Allen-Bradley MicroLogix PLC with 7" Maple HMI											
	-AB	Allen-Bradley MicroLogix PLC with 10" PanelView Plus HMI											
	-AX	Allen-Bradley CompactLogix PLC with 10" PanelView Plus HMI											
		Power Requirements (Choose One)											
	-3A	208 VAC / 3 / 60 Hz											
	-3B	230 VAC / 3 / 60 Hz											
	-4	460 VAC / 3 / 60 Hz											
		Enclosure Rating (Choose One)											
	-N4	NEMA4 - Powder Coated Carbon Steel											
	-N4XS	NEMA4X - 304 Stainless Steel											
		Panel Configuration (Choose One)											
	-IC	Integrated Control Panel											
	-RC	Remote Control Panel											
		Level Control (Choose One)											
	-DL	Discrete (Point Level Switches without Display)											
	-CL	Continuous (Level Transmitter with Display)											
		Discharge Piping Material (Choose One)											
	-PV	PVC SCH 80 Discharge Piping											
	-CV	CPVC SCH 80 Discharge Piping											
	-PP	Polypropylene Discharge Piping (Specify Socket or Butt Fusion)											
		Inlet Connection (Choose One)											
	-TC	Top Connection											
	-SC-XX"	Side Connection - Specify Height From Bottom To Centerline											
		Options (Choose Any)											
	-DC	Double Containment											
	-HH	Redundant High Level Switch											
	-ST	Seismic Tie-Downs											
	-VM	Valve Manifold											
	-VE	Valve Enclosure											
HCPLS	-0200	-18	-P1	-2	-IM	-4	-N4	-IC	-CL	-PV	-TC	-DC	HCPLS-0200-18-P1-2-IM-4-N4-CL-PV-TC-DC

* Consult Wastech Sales with any specific geometric requirements or space limitations.

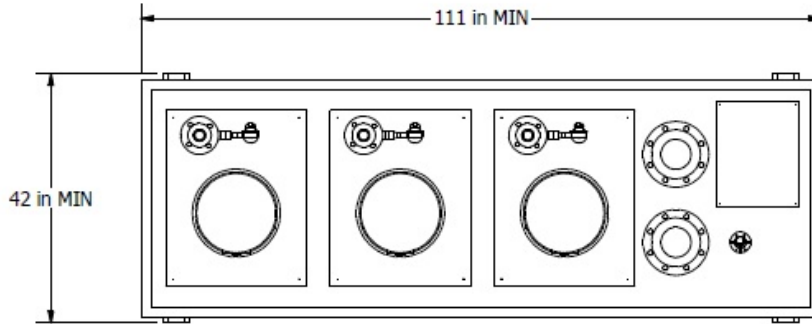
1800 RPM PUMP PERFORMANCE CURVES



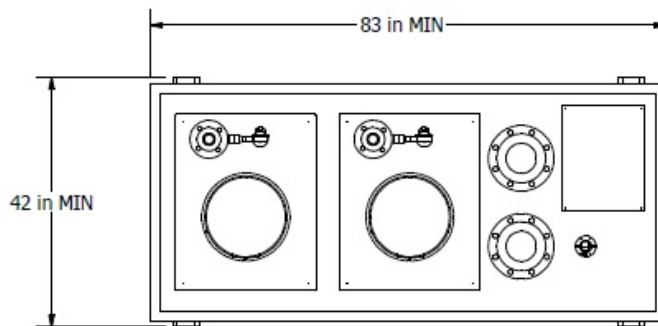
3600 RPM PUMP PERFORMANCE CURVES



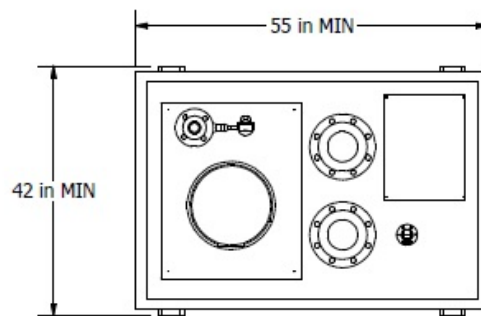
MINIMUM DIMENSIONS



TRIPLEX



DUPLEX



SIMPLEX

TANK DEPTHS UP TO 8 FT

