

## PROCESS CHILLED WATER SYSTEMS



Shown: PCW rated for 300 gpm with 316 SS pump, 304 SS filter housing, 316 SS heat exchanger, schedule 80 PVC. Part # PCW-300-1-1-1-IM-4-PVC.



Shown: PCW rated for 500 gpm with 316 SS pump, 304 SS filter housing, 316 SS heat exchanger, schedule 80 PVC. Part # PCW-500-1-1-1-IM-4-PVC



Shown: PCW rated for 1000 gpm with 316 SS pump, 316 SS filter housing and heat exchanger, schedule 80 CPVC. Part # PCW-1000-3-1-1-AB-4-CPV

Wastech Process Chilled Water (PCW) systems maintain constant flow of cooled or chilled water to process critical tools and machinery. The skid mounted PCWs maintain the water flow at user-defined constant temperatures and pressures ensuring the availability of cool water for critical processes. Custom configurations are available, call or e-mail Sales for more information.

### Specifications:

- 50 to 1000 gallon per minute capacities
- Water temperatures from 40 F to 75 F (Depending on water cooling method, chiller or cooling tower)
- Skid-mounted design, ready to install
- Factory-piped, wired and tested before shipment
- Indoor or outdoor installation

### Standard Features:

- PLC based control system with color touch screen HMI
- UL Listed control panel
- NEMA 4 powder coated steel control panel
- VFD control of pumps
- Powder coated steel skid
- 316 SS Pumps
- 316 SS Heat exchangers
- PVC schedule 80 piping
- Dry contacts for common alarm and influent permissive signals
- Seismic tie down brackets

### Optional Features:

- One, two or three operating pumps
- One or two filters
- One or two heat exchangers
- Pipe materials available in CPVC, 304 SS or 316 SS
- Multiple redundancy options
  - Back-up UPS for controls
  - VFD bypass upon VFD failure
  - Redundant PLC

ORDERING INFORMATION										
PCW	Process Chilled Water									
	<b>Flow Rate</b> (Choose One, or Enter Desired Flow Rate. Discharge pressure assumed to be 100 PSI)									
	-50	50 Gallons Per Minute								
	-150	150 Gallons Per Minute								
	-300	300 Gallons Per Minute								
	-500	500 Gallons Per Minute								
	-750	750 Gallons Per Minute								
	-1000	1000 Gallon Per Minute								
	<b>Operating Pump Configuration</b> (Choose One)									
	-1	Simplex (1 x 100%)								
	-2	Duplex (2 x 100%, N+1)								
	-3	Triplex (3 x 50%, N+1)								
	<b>Filter Configuration</b> (Choose One)									
	-1	Simplex (one filter)								
	-2	Duplex (two filters)								
	<b>Heat Exchanger Configuration</b> (Choose One)									
	-1	Simplex (one heat exchanger)								
	-2	Duplex (two heat exchangers)								
	<b>Control Option</b> (Choose One)									
	-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								
	<b>Power Requirements</b> (Choose One)									
	-3A	208 VAC / 3 / 60 Hz								
	-3B	230 VAC / 3 / 60 Hz								
	-4	460 VAC / 3 / 60 Hz								
	<b>Control Panel Enclosure Rating</b> (Choose One)									
	-N4	NEMA4 – Powder Coated Carbon Steel								
	-N4XS	NEMA4X – 304 Stainless Steel								
	<b>Pipe Material</b> (Choose One)									
	-PVC	PVC Sch. 80 (pump & HX 316 SS, filter housing 304 SS)								
	-CPV	CPVC Sch. 80 (pump & HX 316 SS, filter housing 304 SS)								
	-34S	304 SS Sch. 10 (pump & HX 316 SS, filter housing 304 SS)								
	-36S	316 SS Sch. 10 (pump & HX & filter housing 316 SS)								
	<b>Redundancy Options</b> (Choose Any)									
	-BU	Back-up UPS for controls								
	-VB	VFD bypass upon VFD failure (pump runs full speed)								
	-RP	Redundant PLC (one operating, one spare)								
<b>Example Part Number</b>										
PCW	-50	-1	-1	-1	-IM	-3A	-N4	-PVC	-BU	PCW-50-1-1-1-IM-3A-N4-PVC-BU
PCW	-500	-2	-1	-2	-AB	-4	-N4	-36S	-RP	PCW-500-2-1-2-AB-4-N4-36S-RP



Shown: PCW with pumps and filters on one skid and the heat exchangers on the other.

The PCW is rated for 150 gpm with 316 SS pumps, 316 SS filter housings, 316 SS heat exchangers, schedule 10 316 SS piping on the process side and painted steel piping on the chiller side.

The PCW has redundant heat exchangers to enable constant operation even during routine maintenance.