Efficient Operation
And Quality Construction

Conair's PTSS Stainless Steel Pump Tanks are designed to meet and exceed the needs of your application. Fully engineered for a complete range of tower or chiller applications, Conair's tanks provide the highest quality design and construction features available.

This series of pump tanks promises years of trouble-free operation with the use of high quality components.

Model PTSS-0450

Corrosion-Free Stainless Steel Construction for Ultimate Durability

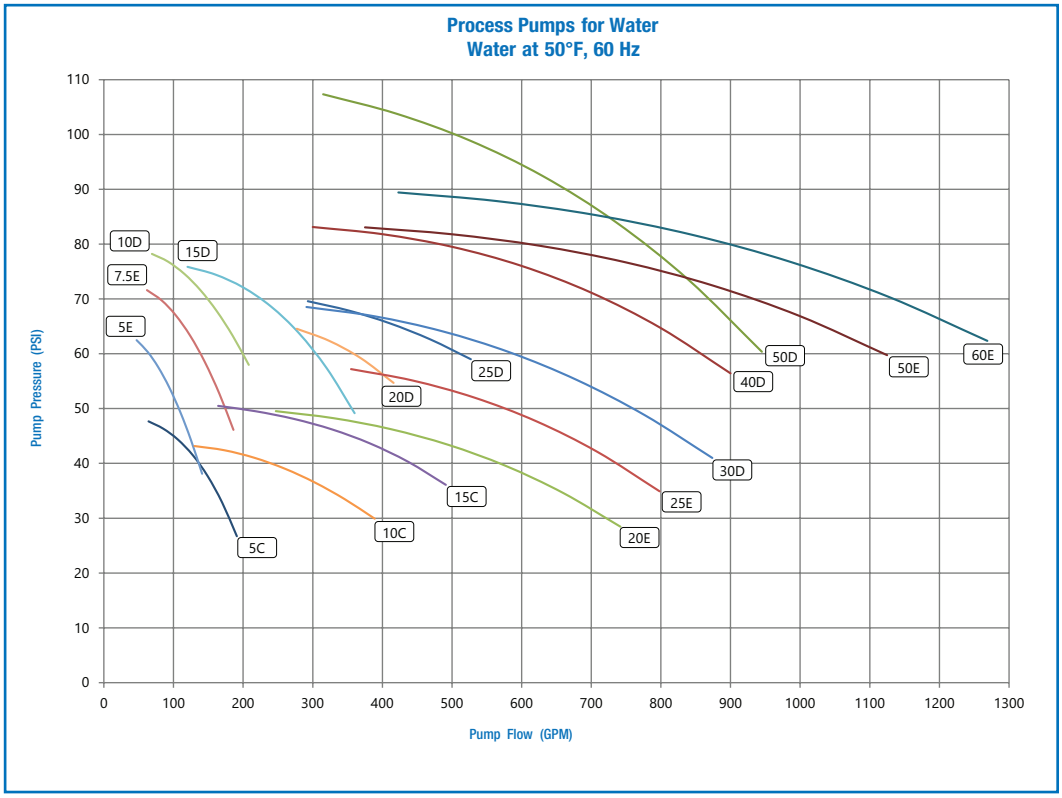
Conair incorporates more value-added features into every pump/reservoir system than anyone else. Every PTSS tank includes standard, full-size pump trim, extended pump suction legs, inside and outside welded seams, and solid steel decking under the pump.

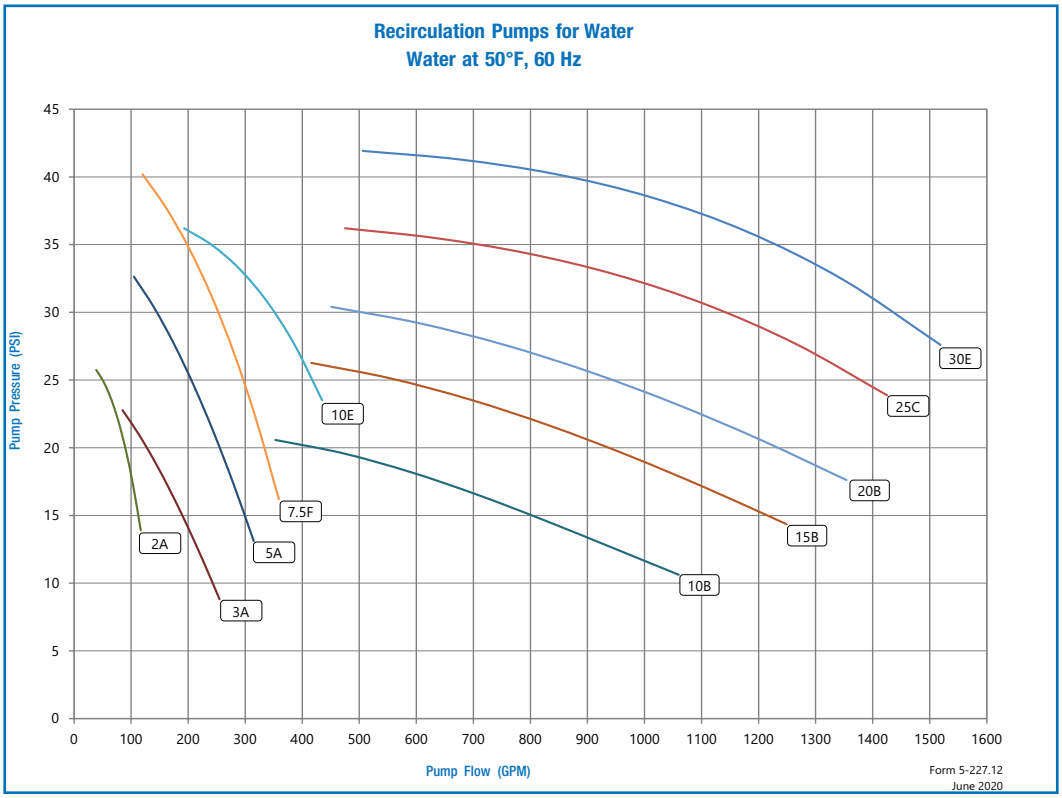
High-efficiency, close-coupled, non-overloading centrifugal pumps are precisely matched to your application, providing optimum flow and pressure to the process with reduced electrical costs, and improving motor life by assuring the motor operates within its horsepower rating.

Conair's full-sized pump suction legs feature a 45° angle opening to prevent vortexing and pump cavitation. This also enables the tank to operate at a lower water level, saving water costs and reducing the use of valuable chemicals that may otherwise overflow to drain at shutdown.

- **Quality construction, safe operation and simple maintenance**
  All pumps are mounted on a solid deck for added strength, serviceability, and safety. Reservoirs are constructed of rugged plate steel for superior strength and reliability.
- **The ultimate protection from leaks and corrosion**
  Durable corrosion-free construction through welded stainless steel water reservoirs. These provide the structural strength and durability required for industrial cooling applications. Premium materials and construction methods ensure the ultimate protection from leaks and corrosion.
- **Easy to operate**
  The large 7-inch color touch screen HMI and PLC control system bring powerful monitoring and controls to your fingertips with clear text and easy-to-use screens. Digital display of operating temperatures, pump and fan running hours, automatic standby switch, and energy-saving variable-speed pump and fan controls are all part of our offering. In addition, helpful temperature and fluid level alarms and ensure your system operates at optimum performance. All our pump tank controls are built and UL labeled to UL508A Industrial Control Panel standards.
- **Quick installation**
  By using the grooved pipe connecting system, the need for flexible couplings is reduced, eliminating pipe stress at start-up. Grooved connections quickly assemble and disassemble for fast installation, maintenance, and reconfiguration when adding or changing pumps. Conair's prewired and mounted control panel is hardwired to pump motors and all alarms, simplifying field installation and significantly reducing installation costs.

Pump Curves





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Specification Notes

Pump curves do not reflect pressure drops due to internal piping.

These pump curves are non-overloading using the service factor of the motors.

Specifications may change without notice. Check with a Conair representative for the most current information.

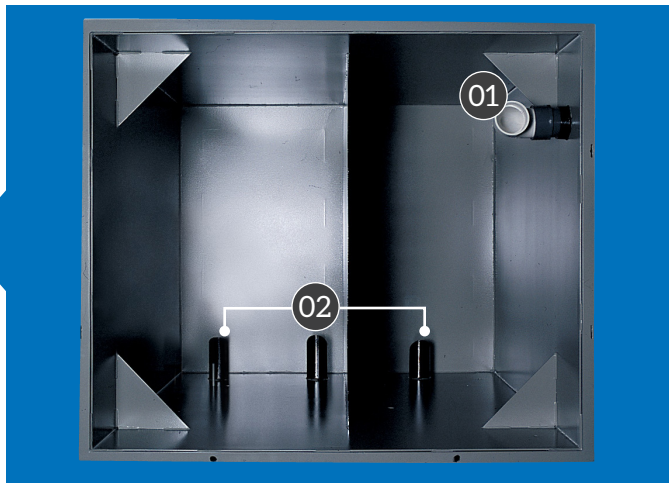
Reservoir Features

01

PVC elbow at reservoir overflow increases holding capacity

02

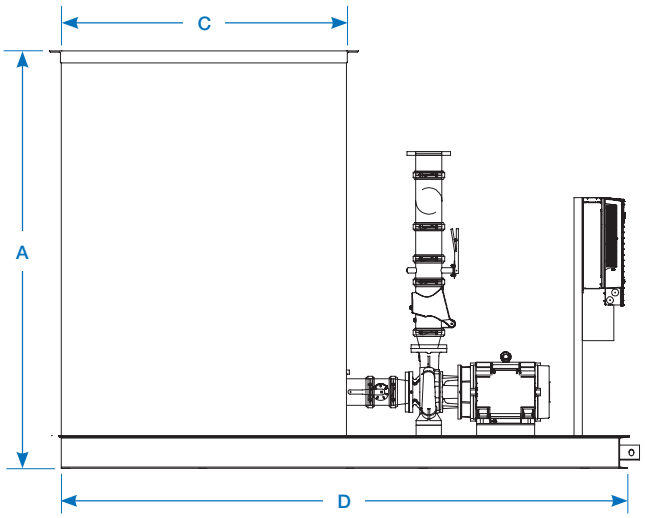
Extended pump suction legs with 45° angle back-cut prevents vortexing and pump cavitation



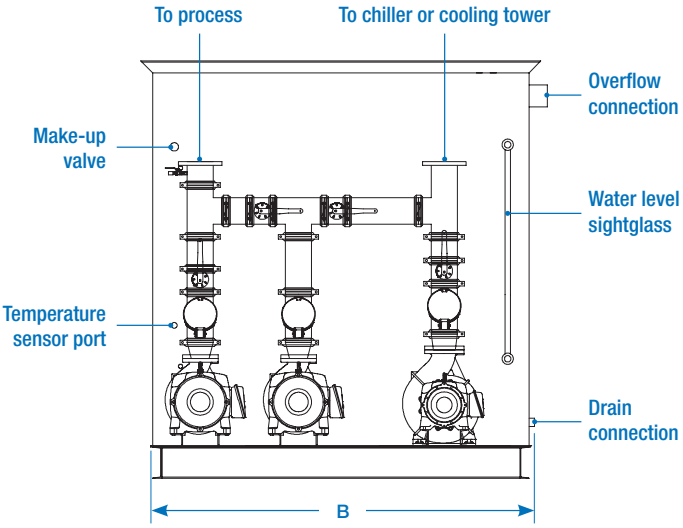
Options

- Single or dual standby pumps for process and recirculating eliminate downtime. Pumps are available with complete connecting trim, including discharge manifold and isolation valves.
- Automatic switching to standby pump protects against downtime due to pump failure.
- Full insulation maintains reservoir water temperature and eliminates “sweating”.
- Premium efficiency motors cut electrical operating costs and offer rapid payback with utility rebate programs.
- Unbreakable sight glass features shutoff valves and brass safety rods; allows for a quick visual check of reservoir operating level.
- Tank cover prevents contamination and evaporation.
- Factory-installed and wired alarms with panel mounted indicator lights warn of low flow, low pressure, low level and high temperatures. Sonalert horn with silencer switch warns of system failure.
- Solid-state sensor with alarm provides trouble-free sensing of low water levels.
- For operator protection, a fused disconnect shuts off power before door is opened for maintenance or inspection.
- Panel-installed programmable logic controller (PLC) allows control sequences and alarm settings to be customized for individual process requirements.
- Reservoir support legs conserve valuable floor space, support a cooling tower to reduce roof loading and eliminate additional roof support costs.

Specifications



Side view



Front view

Specifications

Stainless Steel Models	PTSS-0275	PTSS-0450	PTSS-0700	PTSS-1000	PTSS-1000XL	PTSS-1300	PTSS-1300XL
Performance characteristics gallon {liter}†							
Capacity to overflow	265 {1003}	430 {1628}	695 {2630}	1025 {3880}	1000 {3785}	1290 {4883}	1250 {4731}
Operating capacity	185 {700}	305 {1154}	485 {1836}	720 {2725}	700 {2650}	905 {3426}	880 {3331}
Operating chiller	225 {852}	370 {1400}	590 {2233}	875 {3312}	850 {3218}	1090 {4126}	1060 {4012}
Dimensions inch {mm}‡							
A - Height	49 {1244}	52 {1321}				64 {1626}	64 {1626}
B - Width	60 {1524}		72 {1829}		84 {2133}	72 {1829}	84 {2133}
C - Tank length	23 {584}	36 {914}	48 {1219}	71 {1803}	59 {1498}	71 {1803}	59 {1498}
D - Total length	60 {1524}	72 {1829}	96 {2438}	144 {3657}			
Connections NPT inch							
Overflow	4.0						
Make-up	1.0						
Drain	1.0			1.5			
Weight lb {kg}							
Shipping	2000 {907}	2500 {1134}	3000 {1361}	3400 {1542}	4500 {2041}	3600 {1633}	
Operating	4500 {2041}	6500 {2948}	9000 {4082}	12,500 {5670}	12,800 {5806}	14,500 {6577}	

Stainless Steel Models	PTSS-1600	PTSS-1600XL	PTSS-1700	PTSS-2100	PTSS-2800	PTSS-3700	PTSS-4500*	PTSS-6000*
Performance characteristics gallon {liter}†								
Capacity to overflow	1570 {5943}	1525 {5773}	1725 {6530}	2075 {7855}	2775 {10,504}	3710 {14,043}	4700 {17,791}	5645 {21,368}
Operating capacity	1105 {4183}	1060 {4013}	1210 {4580}	1575 {5962}	2100 {7949}	2815 {10,655}	3560 {13,476}	4280 {16201}
Operating chiller	1330 {5035}	1270 {4807}	1460 {5527}	1750 {6624}	2450 {9274}	3300 {12492}	4155 {15,728}	4990 {18,889}
Dimensions inch {mm}‡								
A - Height	76 {1930}		66 {1676}	78 {1981}	102 {2591}		107 {2718}	
B - Width	72 {1829}	84 {2133}	96 {2438}				127 {3226}	151{3835}
C - Tank length	71 {1803}	59 {1498}	71 {1803}			95 {2413}	105 {2667}	
D - Total length	144 {3657}			156 {3962}	168 {4267}		173 {4394}	
Connections NPT inch								
Overflow	4.0							
Make-up	1.0							1.5
Drain	1.5		2.0					
Weight lb {kg}								
Shipping	4000 {1814}		4500 {2041}	5000 {2268}	5500 {2495}	7500 {3402}	10,500 {4763}	16,000 {7257}
Operating	17,000 {7711}		19,500 {8845}	22,500 {10,205}	29,500 {13,380}	39,000 {17,690}	50,000 {22,679}	63,000 {28,576}

Specification Notes

* Pump deck shipped separately, field connection required.

† Operating level based upon allowing for 30 ft {9144 mm} of vertical riser drain down and for tower systems the typical cooling tower drain down.

‡ Dimensions and weights shown are for a typical 3-pump arrangement. Actual weights and dimensions will vary depending on pump and option selections.

Specifications may change without notice. Consult with a Conair representative for the most current information.