

WITH  
POLYETHYLENE  
RESERVOIR

# PUMP TANK STATIONS

For Use With **Tower Water**  
or **Chilled Water**  
Systems



ADVANTAGE 'TOUGH TANK®' Pump Tank Stations are available for tower water systems and chilled water systems.

Single or dual pump configurations with optional standby pump and manifold are available.

**10 Year Warranty**  
On the Polyethylene Reservoir

TTK-1600 shown in Conventional configuration with these options.

- Standby pump and manifold
- Central control console
- Pressure and temperature alarms
- Electric water make-up system
- CheckMate™ system control instrument

Thermal Products, Inc.  
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CheckMate™ System Control Instrument

checkmate™

The new CheckMate™ control and monitoring instrument is a popular option that displays performance, status of all motors, alarms, error logs, running hours and process temperatures.

New Top Operators™ provide motor and overall system control and includes a multi-color LED for operating (**GREEN**) and overload tripped (**RED**) indications.

**AVAILABLE CAPACITIES:**

450, 850, 1600 & 3200 gallons  
Other capacities possible with tank combinations

**AVAILABLE PROCESS PUMP HP:** 2 to 60

**AVAILABLE PROCESS PUMP GPM:** 40 to 1250

The patent pending **TOUGH TANK®** is a cylindrical, seamless, one piece tank, rotational molded from linear low density polyethylene. Rust and corrosion free, **TOUGH TANK®** will not degrade regardless of water quality. The reservoir baffle provides hot / cold water service. Pump assemblies are mounted on a structural steel deck and attached to the tank via flexible connectors.

**ENGINEERING SERVICES...** for every water system purchased, **ADVANTAGE** supplies complete piping drawings for contractor bidding and installation services. **ADVANTAGE** staffs an experienced engineering department to assist in the piping design.

**FEATURES - AT A GLANCE:**

- One piece seamless construction... no leaks!
- Rotational molded LLDPE
- Full pump trim (suction & discharge valves)
- Pressure and temperature gauges
- Prewired motor starter package
- 1 year pump and control warranty
- 10 year tank failure warranty



Information on all **ADVANTAGE** products is available at: [www.AdvantageEngineering.com](http://www.AdvantageEngineering.com)



# SPECIFICATIONS

		Conventional Configuration				Space Saving Configuration							
SPECIFICATIONS TOUGH TANK		TTK-450	TTK-850	TTK-1600	TTK-3200	TTK-450-SS	TTK-850-SS	TTK-1600-SS	TTK-3200-SS				
WATER CAPACITY	To Overflow	450	850	1600	3200	450	850	1600	3200				
	Normal Operating PTS	225	425	800	1600	225	425	800	1600				
	Normal Operating CPTS	350	675	1200	2400	350	675	1200	2400				
CONNECTION SIZES (inches)	Water Make-Up	1	1	1	1	1	1	1	1				
	Tank Drain	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2				
	Tank Overflow	4	4	6	6	4	4	6	6				
DIMENSIONS (inches) <sup>1</sup>	Height	60	72	96	96	108	120	144	144				
	Width	48	62	75	160	54	66	78	150				
	Depth (tank)	50	62	75	75	56	68	80	80				
	Depth (base - 2 pump)	45	49	51	51	n/a	n/a	n/a	n/a				
	Depth (base - 3 pump)	54	56	58	58	n/a	n/a	n/a	n/a				
WEIGHTS (LBS) <sup>2</sup>	Dry	860	1,590	2,243	4,636	2,100	3,390	4,493	9,136				
	Operating	2,750	5,160	8,963	18,076	3,990	6,960	11,213	22,575				
	Maximum	4,640	8,730	15,683	31,516	5,880	10,530	17,935	36,016				
	Shipping	860	1,590	2,243	4,636	2,100	3,390	4,473	9,136				
<b>PROCESS PUMP</b>		<b>PP-2</b>	<b>PP-3</b>	<b>PP-5</b>	<b>PP-7.5</b>	<b>PP-10</b>	<b>PP-15</b>	<b>PP-20</b>	<b>PP-25</b>	<b>PP-30</b>	<b>PP-40</b>	<b>PP-50</b>	<b>PP-60</b>
PUMP	HP	2	3	5	7.5	10	15	20	25	30	40	50	60
	GPM/PSI <sup>4</sup>	40/40	60/60	90/60	150/60	210/60	360/60	405/60	525/60	600/60	900/60	1,100/60	1,250/60
FULL LOAD AMPERAGE <sup>1</sup> @ 3ø/60hz <sup>3</sup>	230 volts	6.8	9.6	15.2	22.0	28.0	42.0	54.0	68.0	84.0	104.0	130.0	154.0
	460 volts	3.4	4.8	7.6	11.0	14.0	21.0	27.0	34.0	42.0	52.0	65.0	77.0
	575 volts	2.7	3.9	6.1	9.0	11.0	17.0	22.0	27.0	32.0	41.0	52.0	62.0
<b>EVAPORATOR (EP) / TOWER (TP) PUMP</b>		<b>E/TP-2</b>	<b>E/TP-3</b>	<b>E/TP-5</b>	<b>E/TP-7.5</b>	<b>E/TP-10</b>	<b>E/TP-15</b>	<b>E/TP-20</b>	<b>E/TP-25</b>	<b>E/TP-30</b>	<b>E/TP-40</b>		
PUMP	HP	2	3	5	7.5	10	15	20	25	30	40		
	GPM/PSI <sup>4</sup>	60/30	90/30	210/30	255/30	405/30	525/30	810/30	900/30	1,100/30	1,100/30	1,750/30	1,750/30
FULL LOAD AMPERAGE <sup>1</sup> @ 3ø/60hz <sup>3</sup>	230 volts	6.8	9.6	15.2	22.0	28.0	42.0	54.0	68.0	84.0	104.0	130.0	154.0
	460 volts	3.4	4.8	7.6	11.0	14.0	21.0	27.0	34.0	42.0	52.0	65.0	77.0
	575 volts	2.7	3.9	6.1	9.0	11.0	17.0	22.0	27.0	32.0	41.0	52.0	62.0
<b>STANDBY PUMP SPECIFICATIONS</b>		<b>SP-2</b>	<b>SP-3</b>	<b>SP-5</b>	<b>SP-7.5</b>	<b>SP-10</b>	<b>SP-15</b>	<b>SP-20</b>	<b>SP-25</b>	<b>SP-30</b>	<b>SP-40</b>	<b>SP-50</b>	<b>SP-60</b>
PUMP	HP	2	3	5	7.5	10	15	20	25	30	40	50	60
	GPM/PSI <sup>4</sup>	40/40	60/60	90/60	150/60	210/60	360/60	405/60	525/60	600/60	900/60	1,100/60	1,250/60
FULL LOAD AMPERAGE <sup>1</sup> @ 3ø/60hz <sup>3</sup>	230 volts	6.8	9.6	15.2	22.0	28.0	42.0	54.0	68.0	84.0	104.0	130.0	154.0
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	575 volts	2.7	3.9	6.1	9.0	11.0	17.0	22.0	27.0	32.0	41.0	52.0	62.0

Notes: 1. Selection of certain options or custom configurations may change pump dimensions. 2. Approximate unit shipping weight. Weight may vary with optional pump installation. 3. Full load amps shown. 4. Typical performance characteristics.

## STANDARD FEATURES

### TANK CONSTRUCTION:

- One Piece, seamless, cylindrical shape reservoir
- Rotational molded linear low density polyethylene
- Drain valve
- Overflow port
- Molded rectangular base
- Water-level control (float type)
- Hot / cold section partition (baffle) (when applicable)
- Tank Lid

### PUMPS:

- Structural steel pump platform deck
- Centrifugal, motor driven
- Bronze impeller
- Suction service valves
- Discharge service valves

### ELECTRICAL:

- Prewired magnetic pump motor starters
- Overload protection
- Thermostat control of tower fan (when applicable)

### PRESSURE GAUGES:

- To process
- To chiller evaporator or tower

### TEMPERATURE GAUGES:

- To process water temperature
- From process water temperature (on 2 pump systems)

### WARRANTY:

- 1 year parts and labor on pumping system
- 10 year reservoir failure

Note: the Central Control Console option must be purchased to accommodate the pressure and temperature alarm system option, the electronic water make-up system option and the CheckMate™ system control panel option.

**WARRANTY AND SERVICE...** Refer to bulletin ADV-205 for complete warranty details. The Advantage service department is staffed with experienced technicians, and supported by a network of independent service contractors.

## OPTIONS

### SPACE SAVING (A):

- Tank set on top of pump system
- Decreases physical footprint
- Accepts 1, 2 and 3 pump systems
- Accepts electrical cabinet and control panel

### STANDBY PUMP & MANIFOLD (B):

- Suction valves
- Discharge manifold with isolation valves
- Prewired centrifugal pump

### CENTRAL CONTROL CONSOLE (C):

- Nema 12 cabinet with oil tight conduit
- Power distribution block
- Power 'On' indication
- On / off operators
- Branch circuit fusing
- Convenient location for electrical components

### ALARMS (D):

- Process water low pressure alarm
- Process water over-temperature alarm
- Audible and visual beacon

### WATER MAKE-UP SYSTEM (E):

- Float switch activated solenoid valve
- Isolated float valve

### CHECKMATE™ CONTROL PANEL (F):

- Top Operators for pump and overall system control with multi-color LED light for operating (green) and overload tripped (red) indication
- Large, easy-to-read temperature display
- Digital setpoint selection (for tower systems)
- Individual setup and status screens

### TANK CONSTRUCTION :

- Tank insulation (for chilled water applications)



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ADVANTAGE PRODUCTS: TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS

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