

PUMP TANK STATIONS

Polyethylene Reservoir

For Use With
Tower Water
or
Chilled Water
Systems



MILACRON CM-TTK Series 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.

CM-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



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

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 polyethylene reservoir is a cylindrical, seamless, one piece tank, rotational molded from linear low density polyethylene.

Rust and corrosion free, this polyethylene reservoir 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.

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



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)

OPTIONS



A



B



C



D



E



F

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

INSTRUMENT 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)

SPECIFICATIONS

SPECIFICATIONS	Model CM-TTK-	Conventional Configuration				Space Saving Configuration							
		450	850	1600	3200	450-SS	850-SS	1600-SS	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				
DIMENSIONS (inches) ¹	Tank Overflow	4	4	6	6	4	4	6	6				
	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				
WEIGHTS (LBS) ²	Depth (base - 3 pump)	54	56	58	58	n/a	n/a	n/a	n/a				
	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				
PROCESS PUMP		PP-2	PP-3	PP-5	PP-7.5	PP-10	PP-15	PP-20	PP-25	PP-30	PP-40	PP-50	PP-60
PUMP	HP	2	3	5	7.5	10	15	20	25	30	40	50	60
	GPM/PSI ⁴	40/40	60/60	90/60	150/60	210/60	360/60	405/60	525/60	600/60	810/62	1,100/60	1,250/60
FULL LOAD AMPERAGE ¹ @3ø/60hz ³	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
EVAPORATOR (EP) / TOWER (TP) PUMP		E/TP-2	E/TP-3	E/TP-5	E/TP-7.5	E/TP-10	E/TP-15	E/TP-20	E/TP-25	E/TP-30	E/TP-40		
PUMP	HP	2	3	5	7.5	10	15	20	25	30	40	50	60
	GPM/PSI ⁴	60/30	90/30	210/30	255/30	405/30	525/30	810/30	900/30	1,100/30	1,100/62	1,250/30	1,750/30
FULL LOAD AMPERAGE ¹ @3ø/60hz ³	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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STANDBY PUMP SPECIFICATIONS		SP-2	SP-3	SP-5	SP-7.5	SP-10	SP-15	SP-20	SP-25	SP-30	SP-40	SP-50	SP-60
PUMP	HP	2	3	5	7.5	10	15	20	25	30	40	50	60
	GPM/PSI ⁴	40/40	60/60	90/60	150/60	210/60	360/60	405/60	525/60	600/60	810/62	1,100/60	1,250/60
FULL LOAD AMPERAGE ¹ @3ø/60hz ³	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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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.



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