

# PUMP TANK STATIONS

## with Steel Reservoir

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

Model "PTS" for use with Tower  
Water Systems

Model "CPTS" for use with  
Chilled Water Systems

**Delivered  
Ready To Run**

CM-PTS-2000 shown with these optional features:

- Standby pump and manifold
- Central control console
- Pressure and temperature alarm system
- 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.

**Milacron Pump Tank Stations** are available for tower water systems (**PTS** models) and chilled water systems (**CPTS** models). Single or dual pump configurations with optional standby pump and manifold are available.

**AVAILABLE CAPACITIES:** 275 to 3000 gallons

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

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

These ready-to-run pump tanks are built from heavy-gauge steel and strengthened with perimeter reinforcement. Mild-steel models receive epoxy coating on wetted surfaces. Custom options are available to meet your specific application requirements.

### FEATURES - AT A GLANCE:

- Epoxy coated mild steel construction
- Stainless steel construction optional
- Angle iron belt reinforcement
- Full pump trim (suction & discharge valves)
- Pressure and temperature gauges
- Prewired motor starter package



# STANDARD FEATURES

**TANK CONSTRUCTION:** Sand blasted and epoxy coated, 7 ga. mild steel assembly, welded • Perimeter belting reinforcement • Drain valve • Overflow port • Hot / cold section partition • Structural steel base • Water-level control (float type) • Pump platform decking • Tank insulation (for chilled water applications)

**PUMPS:** Centrifugal, motor driven • Bronze impeller • Suction service valve • Discharge service valve

**ELECTRICAL:** Prewired magnetic pump motor starters • Nema rated • 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

**STANDBY PUMP & MANIFOLD (A):** Suction valves • Discharge manifold with isolation valves • Prewired centrifugal pump

**CENTRAL CONTROL CONSOLE (B):** 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 (C):** Process water low pressure alarm • Process water over-temperature alarm • Audible and visual beacon

**WATER MAKE-UP SYSTEM (D):** Float switch activated solenoid valve • Isolated float valve

**INSTRUMENT CONTROL PANEL (E):** 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

|   |                       | 275                           | 400                           | 600                           | 750                           | 1000                          | 1250                          | 1500                          | 2000                          | 2500                          | 3000                          |              |              |
|---|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------|--------------|
| <b>WATER CAPACITY</b>                           | To Overflow           | 275                           | 400                           | 600                           | 750                           | 1,000                         | 1,250                         | 1,500                         | 2,000                         | 2,500                         | 3,000                         |              |              |
|   | Normal Operating PTS  | 180                           | 240                           | 345                           | 450                           | 560                           | 700                           | 840                           | 1,120                         | 1,400                         | 1,625                         |              |              |
|   | Normal Operating CPTS | 180                           | 300                           | 485                           | 615                           | 790                           | 985                           | 1,185                         | 1,575                         | 1,930                         | 2,350                         |              |              |
| <b>CONNECTION SIZES (inches)</b>                | Water Make-Up         | 1                             | 1                             | 1                             | 1                             | 1                             | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>4</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |              |              |
| <b>DIMENSIONS (inches) <sup>1</sup></b>         | Tank Drain            | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> |              |              |
|   | Tank Overflow         | 4                             | 4                             | 4                             | 4                             | 4                             | 4                             | 4                             | 6                             | 6                             | 6                             |              |              |
|   | Height                | 55                            | 55                            | 67                            | 79                            | 79                            | 79                            | 79                            | 79                            | 79                            | 79                            |              |              |
| <b>WEIGHTS (lbs) <sup>2</sup></b>               | Width                 | 60                            | 60                            | 72                            | 72                            | 72                            | 72                            | 72                            | 72                            | 72                            | 144                           |              |              |
|   | Depth (tank)          | 24                            | 36                            | 36                            | 36                            | 48                            | 60                            | 72                            | 96                            | 120                           | 72                            |              |              |
|   | Depth (base)          | 60                            | 72                            | 80                            | 80                            | 100                           | 112                           | 112                           | 150                           | 174                           | 124                           |              |              |
| <b>PROCESS PUMP PUMP</b>                        | Dry                   | 1,625                         | 1,745                         | 2,300                         | 2,800                         | 3,250                         | 4,300                         | 4,500                         | 4,990                         | 5,480                         | 6,580                         |              |              |
|   | Operating             | 3,125                         | 4,245                         | 6,340                         | 7,920                         | 9,805                         | 12,505                        | 14,335                        | 18,060                        | 21,500                        | 26,085                        |              |              |
|   | Maximum               | 3,915                         | 5,075                         | 7,295                         | 9,050                         | 11,580                        | 14,715                        | 17,000                        | 21,650                        | 26,300                        | 31,600                        |              |              |
|   | Shipping <sup>4</sup> | 1,725                         | 1,845                         | 2,400                         | 2,920                         | 3,370                         | 4,500                         | 4,700                         | 5,300                         | 5,700                         | 6,750                         |              |              |
| <b>TOWER/EVAPORATOR PUMP 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> |
|   | HP                    | 2                             | 3                             | 5                             | 7.5                           | 10                            | 15                            | 20                            | 25                            | 30                            | 40                            | 50           | 60           |
|   | GPM/PSI <sup>5</sup>  | 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     |
| <b>FULL LOAD AMPERAGE <sup>3</sup> @3ø/60hz</b> | 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 PUMP</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> |
|   | HP                    | 2                             | 3                             | 5                             | 7.5                           | 10                            | 15                            | 20                            | 25                            | 30                            | 40                            | 50           | 60           |
|   | GPM/PSI <sup>5</sup>  | 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     |
| <b>FULL LOAD AMPERAGE <sup>3</sup> @3ø/60hz</b> | 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         |

Notes: 1. Selection of certain options or custom configurations may change dimensions. 2. Weight may vary with optional pump installation. 3. Full load amps shown. 4. Approximate unit shipping weight. 5. Typical performance characteristics.



**MILACRON PROCESS SUPPORT BUSINESS**

4165 Halfacre Road Batavia, Ohio 45103 Phone: 513-536-2584 Fax: 513-536-2321  
web site: www.Milacron.com

Printed October 2006

SINCE PRODUCT INNOVATION AND IMPROVEMENT IS OUR CONSTANT GOAL, ALL FEATURES AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY.