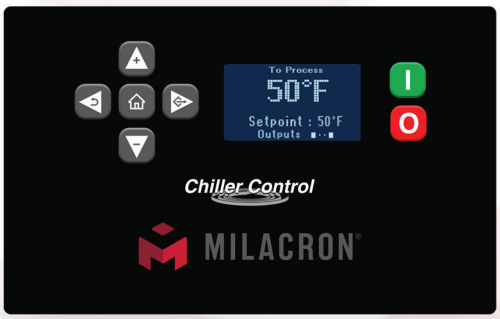
# Portable Water Chillers




## MCA SERIES

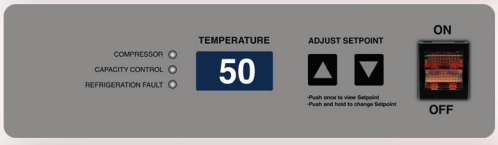
- **1/4 to 30 Tons Cooling Capacity for 20°F to 70°F Process Fluid**
- **Indoor Units with Air-Cooled Condenser**

Air-Cooled portable water chillers can be installed and operated easily needing only a source of electrical power, coolant fluid and a process load to be cooled and controlled. All portable water chillers are delivered fully charged, tested and ready to run right out of the box.




**2 - 30 Ton Models** ... Temperature control is achieved by using an advanced microprocessor control instrument. The control instrument maintains precise temperature control while protecting all system components.

- Easy to navigate LCD display.
- Home screen includes continuous setpoint and to process temperature.
- Out-of-spec alarm including standard audible signal.
- Solid state temperature sensors.
- Selectable SPI or Modbus RTU communication.
- Provides capacity modulation from 50 - 100%.




**1/4 -1.5 Ton Models** ... The standard chiller control provides basic temperature and machine status monitoring.

- Accurate control
- Large & Bright LED temperature display
- Digital Setpoint selection with soft touch keys
- Illuminated Chiller On / Off switch
- Compressor On light
- Basic chiller diagnostics with Refrigeration Fault light
- Capacity control light

# SPECIFICATIONS

| MODEL MCA- | | .5 | .75 | 1 | 1.5 | 2 | 3 | 4 | 5 | 7.5 | 10 | 15F | 15FF | 15B | 20F | 20FF | 20B | 25 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAPACITY @ 50°F LWT | Tons[1] | .50 | .75 | 1 | 1.5 | 2 | 2.9 | 4 | 4.9 | 7.2 | 9.8 | 14.5 | 14.5 | 14.5 | 18.5 | 19.3 | 18.5 | 23.1 | 30 |
| | KW[1] | 1.75 | 2.53 | 3.5 | 4.73 | 7.0 | 10.8 | 14.0 | 17.2 | 25.3 | 34.4 | 50.9 | 50.9 | 50.9 | 65.0 | 67.7 | 65.0 | 81.0 | 105.3 |
| COMPRESSOR | HP | .50 | .75 | 1 | 1.5 | 2 | 3 | 4 | 5 | 7½ | 10 | 15 | 15 | 15 | 20 | 20 | 20 | 25 | 30 |
| | Type[2] | R | R | SC | SC | SC | SC | SC | DSC | SC | DSC | DSC | DSC | DSC | SC | SC | SC | SC | SC |
| REFRIGERANT | | 134A | 134A | 134A | 134A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A | 410A |
| PROCESS PUMP | HP | 1/3 | 1/3 | 1/2 | 1/2 | 3/4 | 3/4 | 3/4 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 |
| | GPM | 1.2 | 1.8 | 2.4 | 3.6 | 4.8 | 7.2 | 9.6 | 12 | 18 | 24 | 36 | 36 | 36 | 48 | 48 | 48 | 60 | 72 |
| | PSI | 60 | 60 | 60 | 60 | 32 | 30 | 30 | 52 | 50 | 48 | 55 | 55 | 55 | 50 | 50 | 50 | 59 | 57 |
| | Type[3] | P | P | P | P | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| | Construction[3] | B | B | B | B | SS | SS | SS | SS | SS | SS | SS | SS | SS | SS | SS | SS | SS | SS |
| CONNECTION | Process (to/from) | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| SIZES | Make-Up | -- | -- | -- | -- | -- | -- | -- | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| AIR-COOLED | Type[5] | F | F | F | F | F | F | F | F | F | F | F | F | B | F | F | B | B | B |
| CONDENSER | CFM x 1000 | .45 | .65 | .71 | 1.1 | 2 | 3 | 5 | 5 | 10 | 10 | 15 | 20 | 15 | 20 | 20 | 20 | 20 | 30 |
| | S.P.[6] | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.35 | -- | -- | 1.35 | 1.35 | 1.35 |
| | Ambient[7] | 90 | 90 | 90 | 90 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| FULL LOAD[8] | 115/1/60 | 17 | 21 | --- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AMPERAGE | 230/1/60 | 9 | 11 | 15 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 230 volt | -- | -- | -- | -- | 17 | 20 | 24 | 34 | 48 | 56 | 86.6 | 94 | 87 | 92 | 108 | 103 | 148 | 184 |
| | 460 volt | -- | -- | -- | -- | 8.5 | 10 | 12 | 17 | 24 | 28 | 43.3 | 47 | 44 | 46 | 54 | 51.5 | 74 | 92 |
| | 575 volt | -- | -- | -- | -- | -- | 7.5 | 9 | 14 | 19 | 23 | 35 | 39 | 31 | 37 | 46 | 42 | 60 | 74 |
| TANK CAPACITY | Holding | 4 | 4 | 4 | 4 | 7½ | 7½ | 25 | 25 | 25 | 25 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| (gallons) | Tank Lid[9] | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| | Auto Make Up[10] | O | O | O | O | O | O | O | S | S | S | S | S | S | S | S | S | S | S |
| DIMENSIONS | Height | 33 | 37 | 37 | 37 | 30 | 43 | 60 | 60 | 60 | 60 | 65 | 68 | 96 | 66 | 68 | 96 | 96 | 96 |
| (inches) | Width | 18 | 19 | 19 | 19 | 37 | 34 | 34 | 34 | 34 | 34 | 58 | 61 | 58 | 59 | 61 | 58 | 58 | 58 |
| | Depth | 24 | 25 | 25 | 25 | 24 | 40 | 40 | 40 | 56 | 56 | 64 | 54 | 70 | 58 | 54 | 70 | 70 | 70 |
| WEIGHTS (pounds) | Shipping[11] | 220 | 265 | 345 | 350 | 415 | 600 | 800 | 800 | 1,100 | 1,100 | 1,600 | 2,200 | 2,300 | 2,000 | 2,200 | 2,600 | 3,200 | 3,400 |

***Notes***

1. Tons or Kilowatts capacity at 12,000 Btu/hr/ton @ 50°F LWT, 95°F ambient and 115°F condensing. (90°F ambient and 110°F condensing for .5 - 1.5 ton models.) Operating at temperatures below 50°F will reduce chiller capacity. The minimum recommended operating temperature when no glycol is used is 48°F.
2. R = hermetic reciprocating. SC = hermetic scroll. DSC = Copeland Digital Scroll™.
3. P = positive displacement. C = centrifugal.
4. B = brass. SS = stainless steel. C = cast iron.
5. F = fan. B = blower.
6. Static pressure in inches of water.
7. Design ambient conditions. Loss of capacity and/or difficulty operating will occur at higher ambient.
8. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
9. S = standard. O = optional.
10. Approximate unit weight crated for shipment.

Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability. Selection of certain optional features may change listed specifications.

## Model Designator

**MCA-10**

***Nominal Capacity in Tons***

***Condenser Type***
***A:*** *Air-Cooled*

***MC: Milacron Chiller***

MILACRON®

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