

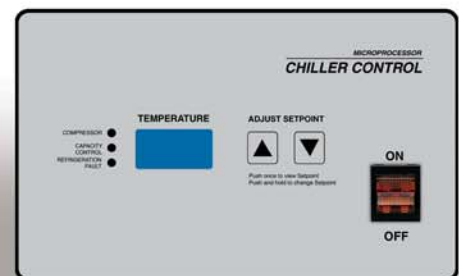
PORTABLE CHILLERS

MCW SERIES

- Water-Cooled
- 5 to 40 Tons
- 20°F to 65°F
- Non-Ozone Depleting Refrigerants



MCW-10 shown.
Water-cooled unit with
10 tons capacity.



Standard Control Instrument



**CINCINNATI
MILACRON**

STANDARD FEATURES

CONSTRUCTION: Powder coated lift-off cabinetry and upright frame members • Galvanized steel cross frame members • 'Bolt-together' frame for increased strength • Casters for portability • Thermoformed dimensional lift-off fascia

REFRIGERANT CIRCUIT: High efficiency and reliable scroll compressors • Water-cooled condenser with Regulator valve • Filter-drier • Liquid line solenoid • Refrigerant sight glass with moisture indicator • Brazed plate evaporator • Thermostatic expansion valve • Microprocessor controlled hot gas by-pass or digital capacity control system

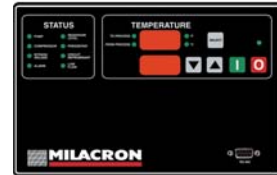
COOLANT CIRCUIT: Stainless steel process pump up to 5 hp • Cast iron process pump on models with 7-1/2 hp and larger pumps • Large capacity insulated nonferrous reservoir • Reservoir level sight glass • Automatic water make-up system • Standard NPT process fittings

SYSTEM LIMIT DEVICES: Process pump motor overload • Refrigerant high pressure switch • Refrigerant low pressure switch • Refrigerant pressure relief valve • Instrument control circuit fuse

PRESSURE GAUGES: Refrigerant high pressure • Refrigerant low pressure • Coolant pressure

ELECTRICAL: Pump motor starter • Compressor motor contactor • Fused transformer • Power entry terminal block

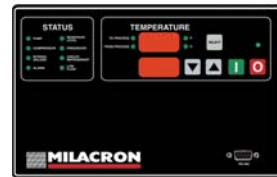
STANDARD CONTROL INSTRUMENT
Accurate control • Large & Bright LED temperature display • Digital Setpoint selection with soft touch keys • Illuminated Chiller On / Off switch • Compressor On light • Basic chiller diagnostics with Refrigeration Fault light • Capacity control light



Not available with 5, 10 & 15 ton models with digital compressors.

LE CONTROL INSTRUMENT UPGRADE

• Continuous *to process* and *setpoint* temperature display • Selectable *from process* temperature display • Temperature display in °F & °C • Status indicators for *power on, compressor, bypass/unload, alarm, reservoir level, freestat, refrigerant circuit and low flow* • Soft key operators • RS-485 SPI communication with display indication



Not available with 5, 10 & 15 ton models with digital compressors.

HE CONTROL INSTRUMENT UPGRADE

• Continuous *to process* and *setpoint* temperature display in °F & °C • Setup display for *temperature, flow, network and machine* • Continuous digital flow indication in GPM or LPM • Continuous digital capacity indication in tons or percent • Out-of-spec alarms for *temperature and flow • Ok-fault status display for compressor, bypass/unload, temperature deviation, water level, probe, pump overload, high pressure, low pressure, low oil, compressor freestat and phase* • Soft key operators • RS-485 SPI communication with display indication

SPECIFICATIONS

MODEL MCW-		5	7.5	10	15	20	25	30	40
CAPACITY @ 50°F LWT	Tons ²	5	7.6	10	15	20	25	30	40
COMPRESSOR	HP	5	7½	10	15	10 ⁽²⁾	13 ⁽²⁾	15 ⁽²⁾	20 ⁽²⁾
	Type ³	DSC	SC	DSC	DSC	SC	SC	SC	SC
REFRIGERANT		410A	410A	410A	410A	407C	407C	407C	407C
PROCESS PUMP	HP	2	2	2	3	3	5	5	7½
	GPM	12	19	26	36	48	60	72	92
	PSI	52	48	47	55	50	59	57	61
	Type ⁴	C	C	C	C	C	C	C	C
	Construction ⁵	SS	SS	SS	SS	SS	SS	SS	C
CONNECTION	Process (to/from)	1¼	1¼	1¼	2	2	2	2	2½
SIZES	Condenser	¾	¾	1	1¼	1¼	1½	1½	2½
	Make-Up	½	½	½	½	½	½	½	½
WATER-COOLED	City ⁶	8	14	17	23	32	39	45	60
CONDENSER	Tower ⁷	15	28	43	45	63	78	90	120
FULL LOAD⁸	230 volt	30	40	48	68.4	78	106	134	178
AMPERAGE	460 volt	15	20	24	34.2	39	53	67	89
	575 volt	12	16	20	27.5	32	43	54	72
TANK CAPACITY (gallons)	Holding	25	25	25	65	65	65	65	65
	Tank Lid ⁹	S	S	S	S	S	S	S	S
	Auto Make Up ⁹	S	S	S	S	S	S	S	S
DIMENSIONS (inches)	Height	40	40	40	57	57	57	57	57
	Width	32	32	32	34	34	34	34	34
	Depth	40	40	40	80	80	80	80	80
WEIGHTS (pounds)	Shipping ¹⁰	655	740	760	1,500	1,900	2,100	2,200	2,500

Notes

1. 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.
2. Tons capacity at 12,000 Btu/hr/ton @ 50°F LWT, 85°F condensing water and 105°F condensing. Operating at temperatures below 50°F will reduce chiller capacity. The minimum recommended operating temperature when no glycol is used is 48°F.
3. SC = hermetic scroll.
DSC = digital scroll.
4. C = centrifugal.
5. SS = stainless steel. C = cast iron.
6. City water requirements based on 60°F water supply at 20 PSI differential with a clean condenser.
7. Tower water requirements based on 85°F water supply at 20 PSI differential with a clean condenser.
8. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
9. S = standard.
10. Approximate unit weight crated for shipment.



MILACRON PROCESS SUPPORT BUSINESS

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