

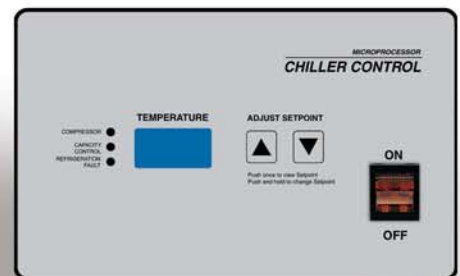
PORTABLE CHILLERS

MCA SERIES

- Air-Cooled
- 5 to 30 Tons
- 20°F to 65°F
- Non-Ozone Depleting Refrigerants



MCW-10 shown.
Air-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 • Fan shroud on 5, 7.5 and 10 ton models • Thermoformed dimensional lift-off fascia

REFRIGERANT CIRCUIT: High efficiency and reliable scroll compressors • Air-cooled condenser • Fan on 5, 7.5, 10, 15, 20 ton models • Blower on 25 and 30 ton models
 • 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

SPECIFICATIONS

MODEL MCA-		5	7.5	10	15	20	25	30
CAPACITY ² @ 50°F LWT	Tons ²	4.9	7.2	9.8	14.5	18.5	23.1	30
	HP	5	7½	10	15	20	25	30
COMPRESSOR	Type ³	DSC	SC	DSC	DSC	SC	SC	SC
REFRIGERANT		410A	410A	410A	410A	410A	410A	410A
PROCESS PUMP	HP	2	2	2	3	3	5	5
	GPM	12	18	24	36	48	60	72
	PSI	52	50	48	55	50	59	57
	Type ⁴	C	C	C	C	C	C	C
	Construction ⁵	SS	SS	SS	SS	SS	SS	SS
CONNECTION	Process (to/from)	1¼	1¼	1¼	2	2	2	2
SIZES	Make-Up	½	½	½	½	½	½	½
AIR-COOLED	Type ⁶	F	F	F	F	F	B	B
CONDENSER	CFM x 1000	5	10	10	15	20	20	30
	S.P. ⁷	--	--	--	--	--	1.35	1.35
	Ambient ⁸	95	95	95	95	95	95	95
FULL LOAD ⁹	230 volt	34	48	56	80	92	148	184
AMPERAGE	460 volt	17	24	28	40	46	74	92
	575 volt	14	19	23	32	37	60	74
TANK CAPACITY (gallons)	Holding	25	25	25	65	65	65	65
	Tank Lid ¹⁰	S	S	S	S	S	S	S
	Auto Make Up ¹⁰	S	S	S	S	S	S	S
DIMENSIONS (inches)	Height	60	60	60	66	66	96	96
	Width	34	34	34	59	59	58	58
	Depth	40	56	56	58	58	70	70
WEIGHTS (pounds)	Shipping ¹¹	800	1,100	1,100	1,600	2,000	3,200	3,400

Notes

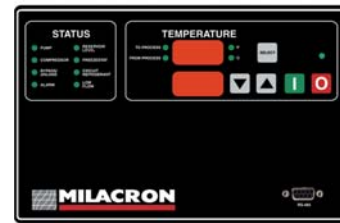
1. Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability. Selection of certain optional features may change listed specifications.
2. Tons capacity at 12,000 Btu/hr/ton @ 50°F LWT, 95°F ambient and 115°F condensing. 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 compressor.
4. C = centrifugal.
5. SS = stainless steel. C = cast iron.
6. F = fan. B = blower.
7. Static pressure in inches of water.
8. Design ambient conditions. Loss of capacity and/or difficulty operating will occur at higher ambient.
9. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
10. S = standard.
11. Approximate unit weight crated for shipment.

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

OPTIONS

REFRIGERANT CIRCUIT: Blower (5-20 ton models)

COOLANT CIRCUIT: Overhead piping kit • No tank for gravity return applications • Low flow bypass circuit - manual or automatic • Process line shut-off valves
 • Larger process pump

ELECTRICAL: Branch circuit fusing • UL labeled electrical sub panel



MILACRON PROCESS SUPPORT BUSINESS

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