

PORTABLE CHILLERS

MCA & MCW SERIES

- Air-Cooled and Water-Cooled
- 1/4 to 4 Tons
- 20°F to 65°F
- Non-Ozone Depleting Refrigerants



Model : CA-4A
4 ton Capacity Air-Cooled

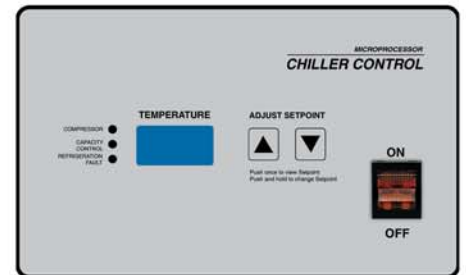
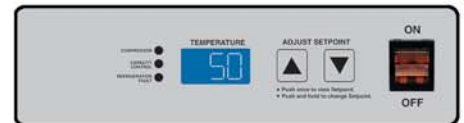


Model : CA-2W
2 ton Capacity Water-Cooled



Model : CA-1A
1 ton Capacity Air-Cooled

Standard Control Instrument
1/4 - 1.5 Ton Units



Standard Control Instrument
2 - 4 Ton Units



**CINCINNATI
MILACRON**

STANDARD FEATURES

FRAME CONSTRUCTION: 1.5 ton Air-Cooled Models: Stainless steel sheet metal • Portable, on casters • Lift-off top • Small footprint - compact 2 ton Air-Cooled & 2 - 3 ton Water-Cooled Models: Stainless steel sheet metal • Lift-off top • Portable, on casters 3 - 4 ton Air-Cooled Models: Stainless steel "lift-off" cabinetry • Powder coated upright frame members • Galvanized steel cross frame members • 'Bolt-together' frame for increased strength • Portable, on casters • Non-ferrous fan shroud

REFRIGERANT CIRCUIT: Hermetic compressors • Fan style air-cooled condenser on air-cooled models • Tube-in-tube condenser on water-cooled models • Refrigerant sight glass with moisture indicator • Filter-drier • Thermostatic expansion valve • Brazed plate evaporator that is immersed in reservoir on 2 - 4 ton models • Coaxial evaporator on 1/4 - 1.5 tons models • Microprocessor controlled hot gas by-pass capacity control system on 2 - 4 ton models

COOLANT CIRCUIT: Stainless steel centrifugal pump process pump - on 2 - 4 ton models • Brass vane pump on 1/4 - 1.5 ton models • Reservoir level sight glass • Insulated non-ferrous reservoir • Standard NPT process connections

SYSTEM LIMIT DEVICES: Refrigerant high pressure • Refrigerant low pressure • Process pump motor overload

PRESSURE GAUGES for 2 - 4 ton models: Refrigerant low pressure • Refrigerant high pressure • Coolant pressure

ELECTRICAL: Compressor contactor • Process pump motor starter • Factory installed 10' power cord on 1/4 - 2 ton models

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

OPTIONS

REFRIGERANT CIRCUIT: Condenser screen for air-cooled units • Refrigerant pressure gauges for 1/4 - 1.5 ton models • Hot gas bypass capacity control on 1/4 - 1.5 ton models

COOLANT CIRCUIT: Overhead piping kit • No tank for gravity return applications • Low flow bypass valve: manual or automatic • Process line shut-off valves • Automatic water make-up system

FRAME: Lower enclosure panels for 1/4 - 1.5 ton models

SPECIFICATIONS

MODEL CA-		.25A	.33A	.5A	.75A	1A	1.5A	2A	3A	4A
CAPACITY @ 50°F LWT	Tons ¹	.29	.39	.50	.75	1	1.5	2	2.9	4
COMPRESSOR	HP	.25	.33	.50	.75	1	1.5	2	3	4
	Type ²	R	R	R	R	R	R	SC	SC	SC
REFRIGERANT		134A	134A	134A	134A	134A	134A	410A	410A	410A
PROCESS PUMP	HP	1/3	1/3	1/3	1/3	1/2	1/2	3/4	3/4	3/4
	GPM	.7	.9	1.2	1.8	2.4	3.6	4.8	7.2	9.6
	PSI	60	60	60	60	60	60	32	30	30
	Type ³	P	P	P	P	P	P	C	C	C
	Construction ⁴	B	B	B	B	B	B	SS	SS	SS
CONNECTION SIZES	Process (to / from)	1/2	1/2	1/2	1/2	1/2	1/2	3/4	1	1 1/4
AIR-COOLED	Type ⁵	F	F	F	F	F	F	F	F	F
CONDENSER	CFM x 1000	.25	.33	.45	.65	.71	1.1	2	3	5
	Ambient ⁶	90	90	90	90	90	90	95	95	95
FULL LOAD ⁷	115/1/60	13	15	17	21	--	--	--	--	--
AMPERAGE	230/1/60	--	--	9	11	15	20	--	--	--
	230 volt	--	--	--	--	--	--	17	20	24
	460 volt	--	--	--	--	--	--	8.5	10	12
	575 volt	--	--	--	--	--	--	--	7.5	9
TANK CAPACITY	Holding	4	4	4	4	4	4	7 1/2	7 1/2	25
(gallons)	Tank Lid ⁸	S	S	S	S	S	S	O	O	S
	Auto Make Up ⁹	O	O	O	O	O	O	O	O	O
DIMENSIONS	Height	33	33	33	33	37	37	30	43	60
(inches)	Width	18	18	18	18	19	19	37	34	34
	Depth	24	24	24	24	25	25	24	40	40
WEIGHTS (pounds)	Shipping ⁹	220	220	220	265	345	350	415	600	800

Notes

1. Tons capacity at 12,000 Btu/hr/ton @ 50°F LWT, 95°F ambient and 115°F condensing for air cooled models, 85°F water and 105°F condensing for water cooled 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. 3. P = positive displacement. C = centrifugal. 4. B = brass. SS = stainless steel. 5. F = fan. 6. Design ambient conditions. Loss of capacity and/or difficulty operating will occur at higher ambient. 7. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. 8. S = standard. O = optional. 9. Approximate unit weight crated for shipment. 10. City water requirements based on 60°F water supply at 20 PSI differential with a clean condenser. 11. Tower water requirements based on 85°F water supply at 20 PSI differential with a clean condenser. Note: 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 CW-		2W	3W
CAPACITY @ 50°F LWT	Tons ¹	2	3
COMPRESSOR	HP	2	3
REFRIGERANT	Type ²	SC	SC
		410A	410A
PROCESS PUMP	HP	3/4	3/4
	GPM	4.8	7.2
	PSI	32	30
	Type ³	C	C
	Construction ⁴	SS	SS
CONNECTION SIZES	Process (to/from)	3/4	3/4
	Condenser	1/2	3/4
	Make-Up	--	--
WATER-COOLED	City ¹⁰	3	6
CONDENSER	Tower ¹¹	6	9
FULL LOAD ⁷	230 volt	16	18
AMPERAGE	460 volt	8	9
	575 volt	7	8
TANK CAPACITY	Holding	7 1/2	7 1/2
(gallons)	Tank Lid ⁸	O	O
	Auto Make Up ⁹	O	O
DIMENSIONS	Height	30	30
(inches)	Width	37	37
	Depth	24	24
WEIGHTS (pounds)	Shipping ⁹	445	470



MILACRON PROCESS SUPPORT BUSINESS

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

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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.