

CENTRAL CHILLERS

Water-Cooled Module

CM-WPT SERIES WATER-COOLED 5 - 200 TONS

The MILACRON CM-WPT central chilling module is designed to be used as part of a central chilled water system.

Chilling modules are offered in single, dual and triple zone configurations.

PROCESS TEMPERATURES:

- 20°F to 65°F

AVAILABLE CAPACITIES:

- 5 to 200 tons

**For Use with
NEW SYSTEMS or
to EXPAND an
Existing System**



CM-CC-40WPT



CM-WPT Instrument



A distribution system is required to circulate chilled water from the WPT Chiller Module. Choose the

MILACRON CM-TTK Series

Pump Tank Station with polyethylene reservoir to provide chilled water distribution to the process use-points.

FEATURES - AT A GLANCE:

- Microprocessor control instrument
- Delivered ready to run - not a kit
- Water-cooled condensers
- Condenser water regulator valves
- Refrigerant and coolant pressure gauges



STANDARD FEATURES

REFRIGERANT CIRCUITS (per zone):

- Hermetic scroll, semi-hermetic discus or rotary screw compressors with suction service valves and discharge service valves
- Brazed plate evaporator on 5-40 ton single zone models, 20-80 ton dual zone models and 90-120 ton triple zone models
- Shell and tube evaporator on 50-60 ton single zone models, 100-200 ton dual zone models and 150-200 ton triple zone models
- Water-cooled condenser with regulator valve, single point connection, isolation valves and removable heads
- Other refrigerant components include: liquid line solenoid valve, thermostatic expansion valve, sight glass with moisture indicator, hot gas by-pass capacity control system
- Unloading on 50-60 ton single, 100-200 ton dual and 150-200 ton triple zone models

LIMIT DEVICES (per zone):

- Refrigerant circuit: high pressure limit, low pressure limit, evaporator flow limit
- Instrument control circuit fuse

PRESSURE GAUGES (per zone):

- Refrigerant high pressure gauge, refrigerant low pressure gauge, coolant pressure gauge

ELECTRICAL:

- Fused transformer, Nema rated electrical cabinet, Power entry terminal block, Fused compressor motor starter on dual and triple zone models

CHILLER CONTROL INSTRUMENT:

- Microprocessor multizone controller with Intelligent zone boards where compressors are staged individually on dual & triple zone models
- Large temperature display in °F or °C for *to process* and *from process*
- Large setup display
- Refrigerant circuit indicators: *probe, low flow, high pressure, low pressure, compressor, freezestat, capacity*
- Water circuit indicators: *temperature deviation, low pressure, flow, probe,*
- SPI communications interface
- Selectable lead/lag mode
- Audible and visual alarm

OPTIONS

FRAME CONSTRUCTION:

- Special paint

REFRIGERANT CIRCUIT:

- Compressor CCPR valve
- Compressor hour meter

CHILLER CONTROL INSTRUMENT:

- Remote display kit
- PLC with touch screen interface

WARRANTIES:

- Extended compressor warranty

ELECTRICAL:

- UL listed electrical panel
- Power disconnect

SPECIFICATIONS

CM-WPT SPECIFICATIONS		C-5	C-7.5	C-10	C-15	C-20	C-25	C-30	C-35	C-40	C-50	C-60
COMPRESSOR	Capacity ³	5.5	9.1	11.5	15	19	25	30	36	40	49.8	57.6
	Number	1	1	1	1	1	1	1	1	1	1	1
	HP each	5	7 ¹ / ₂	10	15	(2)10	(2)13	(2)15	35	40	50	60
	Style ⁴	SC	SC	SC	SC	SC	SC	SC	D	D	S	S
CONNECTION SIZES (inches)	Process	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	2	2	2 ¹ / ₂	2 ¹ / ₂	2 ¹ / ₂	2 ¹ / ₂	3	3
	Condensing	3/4	1	1	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₂	2	2	3	3	3
WATER FLOW REQUIREMENT (GPM)	Process	13	22	28	36	47	60	72	86	101	120	138
	City ⁵ condensing	9	15	18	23	29	38	45	54	63	75	87
	Tower ⁶ condensing	18	30	36	45	58	75	90	108	126	149	173
FULL LOAD AMPERAGE ¹ @ 3 Phase / 60hz ²	230 Volt	22	31	43	56	66	83	94	107	142	180	224
	460 Volt	10	16	22	28	33	42	47	54	71	90	112
	575 volt	8	13	17	25	28	34	39	43	57	75	80
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22	22	22
DIMENSIONS (inches)	Height	52	52	52	52	52	57	57	57	57	57	57
	Width	24	24	24	24	24	29	29	29	36	36	36
	Depth	62	62	62	70	70	70	70	70	84	84	84
WEIGHT (lbs)	Shipping ⁷	450	525	545	845	885	1,040	1,100	1,150	1,200	1,300	1,400

Notes:

1. Full load amps shown. No allowance for inrush. Service disconnect by owner. Full Load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
2. Consult factory for 50hz operation.
3. Tons capacity at 12,000 BTU/ton @ 50°F LWT @ 105°F condensing temperature. Capacities may be +/- 5% as reserved by the compressor manufacturer. Capacities multipliers are 50°F - 1.00; 40°F - .80; 30°F - .60; 20°F - .40. The minimum recommended operating temperature when no glycol is used is 48°F.
4. D = discus, S = screw, SC = scroll.
5. Flow rate based on 60°F city water source at 20 PSI with a clean condenser.
6. Flow rate based on 85°F tower water source at 20 PSI with a clean condenser.
7. Unit weight crated for shipment.

CM-WPT SPECIFICATIONS		CC-20	CC-30	CC-40	CC-50	CC-60	CC-70	CC-80	CC-100	CC-120	CC-200	CCC-90	CCC-105	CCC-120	CCC-150	CCC-180	CCC-200
COMPRESSOR	Capacity ³	23	30	38	50	60	70	80	100	115.2	200	90	103	120	149.5	172.8	200
	Number	2	2	4	4	4	2	2	2	2	2	6	3	3	3	3	3
	HP each	10	15	10	13	15	35	40	50	60	100	15	35	40	50	60	70
	Style ⁴	SC	SC	SC	SC	SC	D	D	S	S	S	SC	D	D	S	S	S
CONNECTION SIZES (inches)	Process	2	2 ¹ / ₂	2 ¹ / ₂	3	3	4	4	4	4	6	4	4	4	6	6	6
	Condensing	1 ¹ / ₂	3	3	3	3	3	3	4	4	6	4	4	6	6	6	6
WATER FLOW REQUIREMENT (GPM)	Process	55	72	96	120	144	168	192	240	277	480	216	260	288	359	415	480
	City ⁵ condensing	36	45	57	75	90	105	120	150	173	300	135	162	180	224	259	300
	Tower ⁶ condensing	72	90	115	150	180	210	240	300	346	600	270	324	360	443	518	600
FULL LOAD AMPERAGE ¹ @ 3 Phase / 60hz ²	230 Volt	85	113	152	196	232	214	284	360	448	n/a	347	321	426	540	672	n/a
	460 Volt	43	56	76	98	117	107	142	180	224	350	174	161	213	270	336	380
	575 volt	34	46	53	68	75	86	113.8	144	180	295	115	130	170	216	269	320
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
DIMENSIONS (inches)	Height	57	57	57	57	57	57	57	70	70	65	85	85	85	85	85	112
	Width	48	48	48	52	52	72	72	90	90	80	73	73	73	73	73	95
	Depth	76	76	76	79	79	84	84	115	115	180	130	130	130	130	130	135
WEIGHT (lbs)	Shipping ⁷	1,200	1,800	1,900	2,200	2,350	2,500	2,600	3,450	3,700	4,375	3,300	3,450	3,600	3,900	4,200	4,375



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Printed October 2006

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