

CENTRAL CHILLERS

MW SERIES

WATER-COOLED

- *Process Temperatures From 20°F to 65°F*
- *5 to 40 Tons Capacity*
- *Water-Cooled Condenser*
- *Scroll Compressor Up To 30 Tons*
- *Brazed Plate Evaporator*
- *Non Ozone Depleting Refrigerants*

The **MW Series** central chiller provides precision temperature control from an economically affordable and reliable unit. Perfect for applications such as plastic injection molding, blow molding, extrusion and other industrial applications. Product features include:

TEMPERATURE RANGE

- 20° - 65°F

REFRIGERANT CIRCUIT

- Single zone
- Hermetic scroll compressors on 5-30 models and semi-hermetic compressor on the 40 ton
- Compressor suction service valve
- Compressor discharge service valve
- Braze plate evaporator
- Water-cooled condenser with removable caps for service
- Condenser regulator valve
- Liquid line solenoid valve
- Sight glass with moisture indicator
- Thermostatic expansion valve
- Pressure Activated hot gas by-pass capacity control

LIMIT DEVICES

- Coolant flow switch
- Coolant freeze-stat
- Compressor motor overload protection
- Refrigerant high pressure switch
- Refrigerant low pressure switch
- Refrigerant pressure relief valve

CHILLER CONTROL

- Mechanical Thermostat

ELECTRICAL

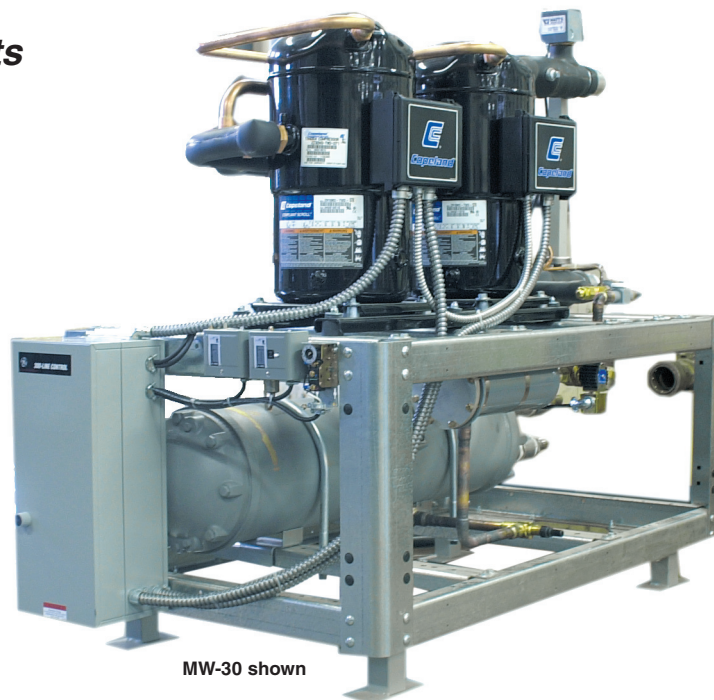
- Nema 1 rated electrical cabinet
- Power entry terminal block

FRAME

- Female NPT process connections
- Galvanized steel frame

WARRANTY & SERVICE

- 1 year on parts & labor
- Nationwide network of service contractors



GREAT FOR START-UP
INSTALLATIONS OR
EXPANSIONS OF EXISTING
SYSTEMS...

COMPLETE SYSTEM
PACKAGES ARE EVEN MORE
ECONOMICAL WHEN
COMBINED WITH A TEMPTTEK
PUMP TANK SYSTEM.

PRICE & PERFORMANCE... for the LONG TERM

TEMPTEK®

since 1989

Southgate Process Equipment / sales@southgateprocess.com / (770) 345-0010

SPECIFICATIONS

MODEL MW- ¹		5	7.5	10	15	20	25	30	40
REFRIGERANT CIRCUITS	Quantity	1	1	1	1	1	1	1	1
CAPACITY @ 50°F LWT	Tons ²	5	7.5	10	15	20	25	30	40
COMPRESSOR	Quantity	1	1	1	1	2	2	2	1
	Type ³	SC	SC	SC	SC	SC	SC	SC	SC/S
CONNECTION SIZES ⁴ (inches)	To/From Process	1 1/4	1 1/4	1 1/4	2	2	2 1/2	2 1/2	2 1/2
FLOW REQUIREMENTS	GPM	13	22	28	36	47	60	72	101
UNIT AMPERAGE ⁵	230 volts	25	31	43	60	84	104	120	156
@ 3ø / 60 Hz ⁶ (full load)	460 volts	12.5	16	22	30	42	52	60	78
	575 volts	10	13	17	24	34	42	48	63
REFRIGERANT	Type	R410A	R410A	R410A	R410A	R410A	R407C	R407C	R407C
DIMENSIONS (inches)	Height	52	52	52	52	52	57	57	57
	Width	24	24	24	24	24	29	29	36
	Depth	62	62	62	70	70	70	70	84
WEIGHTS (pounds)	Shipping ⁷	450	525	545	845	885	1,040	1,100	1,200

INTERNAL WATER-COOLED CONDENSER⁸

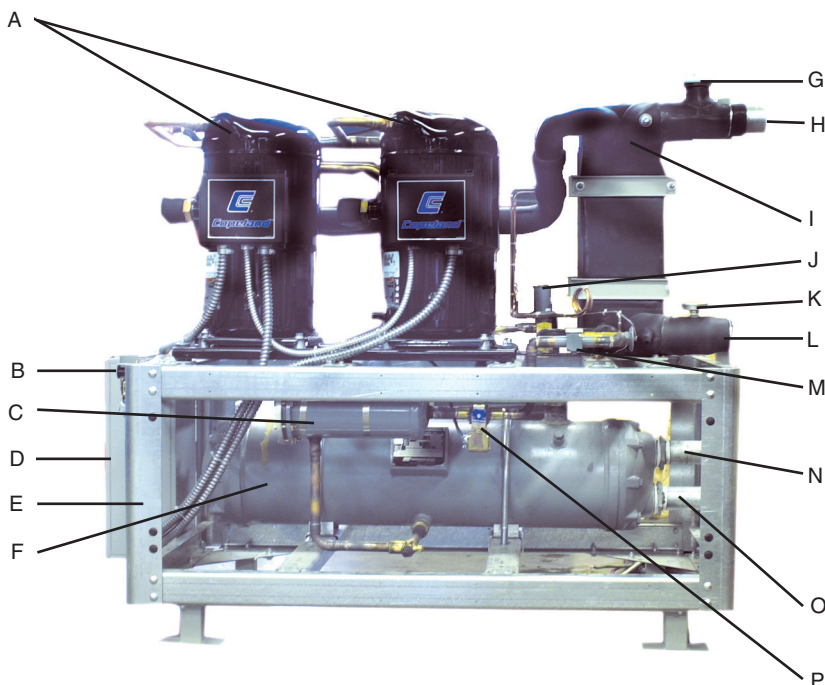
CONDENSER WATER	City	8	12	15	23	30	38	45	60
FLOW REQUIREMENTS	Tower	15	23	30	45	60	75	90	120
CONNECTIONS	Supply / Drain	1	1 1/4	1 1/4	1 1/2	2	2	2	3

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 or Kilowatts capacity at 12,000 Btu/hr/ton @ 50°F LWT, 95°F ambient and 115°F condensing. Capacity 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. 3. S = screw compressor. SC = hermetic scroll. D = disc compressor. 4. Process connections may vary based on unique pump flow requirements of your process. Confirm you connection size requirement with your Advantage sales representative. 5. Full Load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. 6. Consult factory for 50hz operation. 7. Approximate unit weight crated for shipment. 8. City water requirements based on 60°F water supply at 20 PSI differential with a clean condenser. Tower water requirements based on 85°F water supply at 20 PSI differential with a clean condenser.

MECHANICAL COMPONENTS

- A - Compressors
- B - Limit Switch
- C - Filter - Drier
- D - Electrical Cabinet
- E - Galvanized Steel Frame
- F - Water Cooled Condenser
- G - Flow Switch
- H - From Process Connection
- I - Evaporator
- J - Expansion Valve
- K - Temperature Gauge
- L - To Process Connection
- M - Refrigerant Sight Glass
- N - Condenser Return
- O - Condenser Supply
- P - Liquid Line Solenoid Valve



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