

CENTRAL CHILLERS

MW SERIES WATER-COOLED

- **5 to 180 Tons Capacity**
- **Microprocessor Control**
- **Multiple Refrigerant Zones**
- **Water-Cooled Condenser**
- **Galvanized Steel Frame**
- **Nema 12 Electrical Cabinet**

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 ZONES

- Single, Dual or Triple zones (depending on capacity)
- Hermetic scroll compressors on 5-30 single zone models and 20-60 dual zone models
- Semi-hermetic discus compressors on 35-60 ton single zone models, 70-120 ton dual zone models, and 90-180 ton triple zone models
- Compressor suction service valve
- Compressor discharge service valve
- Braze 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 single zone models, 100-120 ton dual zone models, and 150-180 ton triple zone models
- Water-cooled condenser with removable caps for service
- Condenser regulator valve
- Condenser manifold on dual and triple zone models with single supply and return ports
- Liquid line solenoid valve
- Sight glass with moisture indicator
- Thermostatic expansion valve
- Hot gas by-pass capacity control on 5-40 ton single zone models, 20-80 ton dual zone models, and 90-120 triple zone models
- Cylinder unloading capacity control on 50-60 ton single zone models, 100-120 ton dual zone models, and 150-180 ton triple zone models

LIMIT DEVICES

- Coolant flow switch
- Compressor motor overload protection
- Refrigerant high pressure switch
- Refrigerant low pressure switch
- Instrument control circuit fuse



CHILLER CONTROL INSTRUMENT

- Microprocessor based multizone controller
- Intelligent zone controller boards
- Compressors are staged individually on dual and triple zone models
- Large temperature display in °F and °C
- To process and from process temperature display
- Refrigerant circuit indicators per zone for: probe, low flow, high pressure, low pressure, compressor, freestat, and capacity
- Water circuit indicators for: temperature deviation, low pressure, flow, probe
- SPI communications interface
- Selectable lead / lag mode
- Audible and visual alarm (optional)

ELECTRICAL

- Nema rated electrical cabinet
- Fused transformer
- Power entry terminal block

FRAME

- Female NPT process connections
- Galvanized steel frame

WARRANTY & SERVICE

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

PRICE & PERFORMANCE... for the LONG TERM

525 East Stop 18 Road Greenwood, IN 46142 317-887-6352 fax: 317-881-1277

web site: www.Temptek.com email: sales@Temptek.com

TEMPTTEK®

since 1989

SPECIFICATIONS

MW SERIES SPECIFICATIONS

SINGLE ZONE MODELS		5C	7.5C	10C	15C	20C	25C	30C	35C	40C	50C	60C
COMPRESSOR	Capacity ¹	5.5	9.1	11.5	15	19	25	30	36	40	49.8	57.6
	Quantity	1	1	1	1	2	2	2	1	1	1	1
	HP each	5	7-1/2	10	15	10	13	15	35	40	50	60
CONNECTION SIZES	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
	(INCHES) Condensing	3/4	1	1	1-1/4	1-1/4	1-1/2	2	2	3	3	3
WATER FLOW (GPM)	Process	13	22	28	36	47	60	72	86	101	120	138
REQUIREMENTS	City ²	9	15	18	23	29	38	45	54	63	75	87
	Tower ³	18	30	36	45	58	75	90	108	126	149	173
	AMPERAGE⁴	230 / 3 / 60	22	31	43	56	66	83	94	107	142	180
	460 / 3 / 60	10	16	22	28	33	42	47	54	71	90	112
	575 / 3 / 60	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	Height	52	52	52	52	52	57	57	57	57	57	57
	Width	24	24	24	54	24	29	29	29	36	36	36
	Depth	62	62	62	70	70	70	70	70	84	84	84
WEIGHT	Shipping ⁵	450	525	545	845	885	1,040	1,100	1,150	1,200	1,300	1,400

DUAL ZONE MODELS		20CC	30CC	40CC	50CC	60CC	70CC	80CC	100CC	120CC
COMPRESSOR	Capacity ¹	23	30	38	60	60	70	80	100	115.2
	Quantity	2	2	4	4	4	2	2	2	2
	HP each	10	15	10	15	15	35	40	50	60
CONNECTION SIZES	Process	2	2-1/2	2-1/2	3	3	4	4	4	4
	(INCHES) Condensing	1-1/2	3	3	3	3	3	3	4	4
WATER FLOW (GPM)	Process	55	72	96	144	144	168	192	240	277
REQUIREMENTS	City ²	36	45	57	75	90	105	120	150	173
	Tower ³	72	90	115	180	150	210	240	300	346
	AMPERAGE⁴	230 / 3 / 60	85	113	152	196	232	214	284	360
	460 / 3 / 60	43	56	76	98	117	107	142	180	224
	575 / 3 / 60	34	46	53	68	75	86	114	144	180
REFRIGERANT	Type HCFC	22	22	22	22	22	22	22	22	22
DIMENSIONS	Height	57	57	57	57	57	57	57	70	70
	Width	48	48	48	52	52	72	72	90	90
	Depth	76	76	76	79	79	84	84	115	115
WEIGHT	Shipping ⁵	1,200	1,800	1,900	2,350	2,350	2,500	2,600	3,450	3,700

TRIPLE ZONE MODELS		105CCC	120CCC	150CCC	180CCC
COMPRESSOR	Capacity ¹	103	120	149.5	172.8
	Quantity	3	3	3	3
	HP each	35	40	50	60
CONNECTION SIZES	Process	4	4	6	6
	(INCHES) Condensing	4	6	6	6
WATER FLOW (GPM)	Process	260	288	359	415
REQUIREMENTS	City ²	162	180	224	259
	Tower ³	324	360	443	518
	AMPERAGE⁴	230 / 3 / 60	321	426	540
	460 / 3 / 60	161	213	270	336
	575 / 3 / 60	130	170	216	269
REFRIGERANT	Type HCFC	22	22	22	22
DIMENSIONS	Height	85	85	85	85
	Width	73	73	73	73
	Depth	130	130	130	130
WEIGHT	Shipping ⁵	3,450	3,600	3,900	4,200



Notes:

1. Tons capacity at 12,000 BTU / ton at 50°F LWT at 105°F condensing temperature. Capacities may be +/- 5% as reserved by the compressor manufacturer. 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. 2. Flow rate based on 60°F city water source at 20 PSI with a clean condenser. 3. Flow rate based on 85°F tower water source at 20 PSI with a clean condenser. 4. 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. 5. Unit weight crated for shipment.

PRICE & PERFORMANCE... for the LONG TERM



since 1989

525 East Stop 18 Road Greenwood, IN 46142 317-887-6352 fax: 317-881-1277 web site: www.TempTek.com email: sales@TempTek.com
 Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice. form #ADV-535 3/03 ©2003 TEMPTEK, INC.