

# CENTRAL CHILLER

**MA SERIES**  
AIR-COOLED

- **5 to 30 Tons Capacity**
- **Scroll Compressor**
- **Brazed Plate Evaporator**
- **Air-Cooled Condenser**
- **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 ton units
- Compressor suction service valve
- Compressor discharge service valve
- Braze plate evaporator
- Air-cooled condenser
- Liquid receiver
- Condenser regulator valve
- Liquid line solenoid valve
- Sight glass with moisture indicator
- Thermostatic expansion valve
- Hot gas by-pass capacity control
- Non ozone depleting refrigerant

#### LIMIT DEVICES

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

#### 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 TANK SYSTEM.*

**PRICE & PERFORMANCE... for the LONG TERM**



MA-30 shown



#### CHILLER CONTROL INSTRUMENT

- Microprocessor based controller
- Large temperature display window
- To process temperature display in °F and °C
- Illuminated Power On switch
- Indicator lights for *Compressor* and *Hot Gas Bypass*
- Diagnostic light for *Refrigerant Fault*
- Soft key setpoint selectors

**TEMPTTEK**<sup>®</sup>

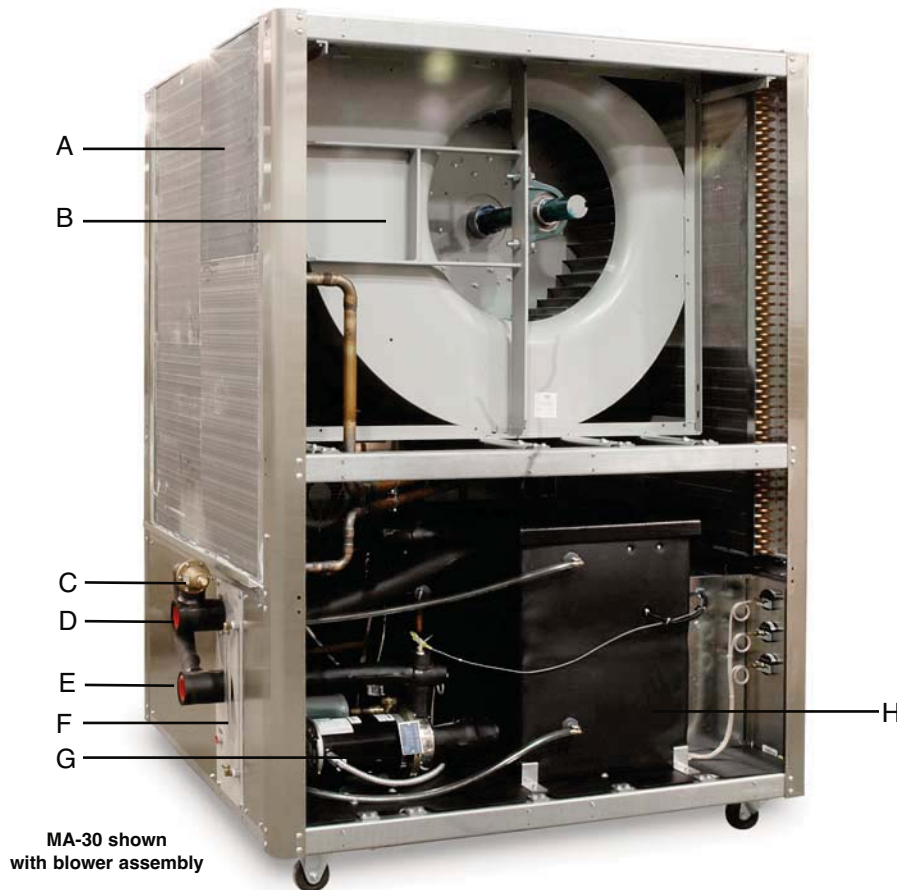
since 1989

# SPECIFICATIONS

MODEL <sup>1</sup> MA -		5A	7.5A	10A	15A	15FC	20A	20FC	25	30
COMPRESSOR	Tons <sup>2</sup> @ 50°F LWT	5	7½	10	15	15	20	20	25	30
	HP	5	7½	10	15	15	20	20	25	30
	Type <sup>3</sup>	H	H	H	H	H	H	H	H	H
CONNECTION	To Process	1¼	1¼	1¼	1¼	1¼	1½	1½	2	3
SIZES	From Process	1¼	1¼	1¼	1¼	1¼	1½	1½	2	3
	AIR-COOLED	Style	Fan	Fan	Fan	Blower	Fan	Blower	Fan	Blower
CONDENSER	# of Motors	2	2	2	2	2	2	2	1	1
	HP	⅓	½	¾	7½	7½	10	10	15	20
	CFM	5,000	7,500	10,000	15,000	15,000	20,000	20,000	25,000	30,000
FULL LOAD <sup>4</sup>	208/3/60	31.2	43.9	63.4	100.2	100.2	131.6	131.6	161.5	198.0
AMPERAGE	230/3/60	28.2	39.7	57.3	90.6	90.6	119.0	119.0	146.0	179.0
	460/3/60	13.0	20.6	28.7	45.3	45.3	59.5	59.5	73.0	89.5
	575/3/60	10.4	16.6	23.0	36.4	36.4	47.7	47.7	58.9	72.1
	REFRIGERANT	Type HFC -	410A	410A	410A	410A	410A	410A	410A	410A
REQUIRED PROCESS FLOW	GPM @ 20 PSI	12	18	24	36	36	48	48	60	60
DIMENSIONS <small>(inches)</small>	Height	60	60	60	60	60	102	102	102	102
	Width	34	34	34	64	64	58	58	58	58
	Depth	40	40	56	56	56	70	70	70	70
WEIGHTS <small>(pounds)</small>	Shipping <sup>5</sup>	800	900	1,000	1,640	1,640	1,950	1,950	2,050	2,250

### 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. H = hermetic reciprocating. SC = hermetic scroll.
4. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
5. Approximate unit weight crated for shipment.

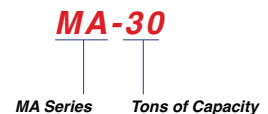


MA-30 shown with blower assembly

## MECHANICAL COMPONENTS

- A Air-Cooled Condenser
- B Centrifugal Blower
- C Low Flow Bypass (optional)
- D From Process Connection
- E To Process Connection
- F Reservoir Sight Glass
- G Coolant Pump
- H Reservoir

## Model Designator for MA Central Chillers



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