



Design is the Difference™

ICEMAN
Full Range

Process Temperature Control
System

Continuous Temperature Control

Mokon's Iceman Full Range Temperature Control System offers a combination heating/chilling system all in one package. A Mokon circulating water temperature control system, combined with an Iceman chiller, integrates the benefits and features of both products into one compact, self-supporting unit.

The Full Range system is ideal for applications requiring multi-zone control, processes requiring both heating and chilling and/or a wide variety of temperatures, or where water supplies are not accessible. It is available in multiple sizes, configurations, and a variety of cooling, heating and pumping capacities.

The overall design provides for long-life, durability and accurate continuous process control. Traditional Mokon quality and craftsmanship can be found throughout, such as noncorrosive construction and the incorporation of highly accurate microprocessor-based controls with adaptive tuning capabilities. All these features and more in a compact design with Mokon reliability built in!

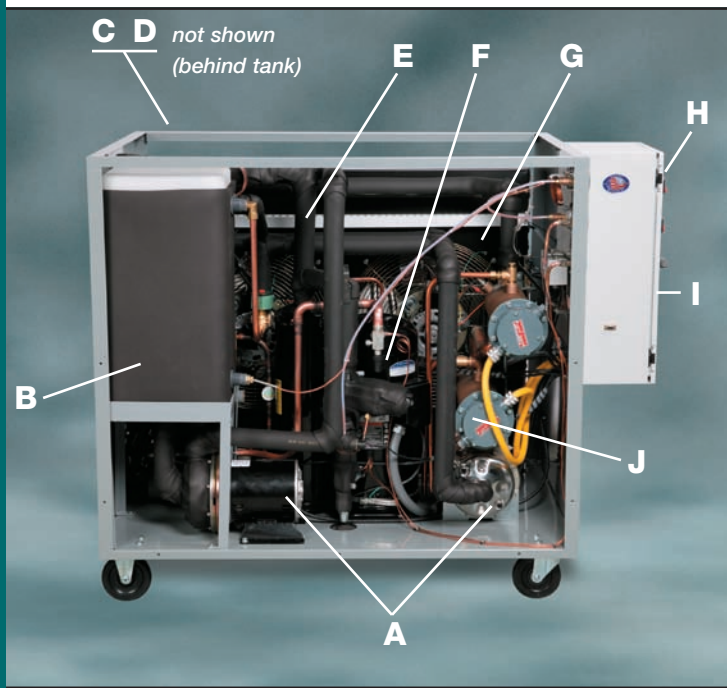
Features:

- **Combination heating and cooling system**
- **Noncorrosive construction**
- **Heating capacities up to 96 kw**
- **Pumping capacities up to 120 GPM**
- **2 to 35 ton chilling capacities**
- **UL labeled electrical sub-panel**
- **Meets NFPA 79 electrical safety standards**

Applications:

- **Processes requiring both heating and chilling**
- **Multi-zone processes**
- **Installations where neither supply water nor drains are accessible**
- **Ideal for laboratories and pilot plants**

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Standard Features

The Full Range Temperature Control Unit offers many features as standard to provide accurate temperature control while chilling and/or heating your process.

- A** Stainless steel centrifugal pumps — supply and process
- B** Heavy-duty insulated plastic tank
- C** Highly efficient brazed plate evaporator
- D** Hot gas bypass (cylinder unloading for 15 and 20 ton standard)
- E** Insulated nonferrous plumbing and components
- F** Hermetically sealed compressors (small models)
Semi-hermetically sealed compressors (larger models)
- G** Air-cooled condenser (shown)
or water-cooled condenser (not shown)
- H** Microprocessor-based controller mounted in operator-friendly orientation
- I** NEMA rated electrical enclosure with disconnect switch
- J** Heater canister with stainless steel diverter

Cooling Capacity (Tons)	Compressor Horsepower (HP)	# of Heating Units*	Tank Size (gallons)	Approx. Cabinet Dimensions L x W x H (inches)**	Shipping Weight (approx. lbs.)***
Specifications – Air Cooled					
2	2	Up to 2	15	50 x 28 x 39	600
3	3	Up to 2	15	50 x 28 x 39	630
5	5	Up to 2	20	58 x 37 x 45	700
7.5	7.5	Up to 2	20	58 x 37 x 45	1275
10	10	Up to 2	20	58 x 37 x 45	1485
15	15	Up to 3	65	80 x 40 x 65	1650
20	20	Up to 3	65	80 x 40 x 65	1850
30	30	Up to 3	65	140 x 50 x 80	3860
35	35	Up to 3	65	140 x 50 x 80	4200
Specifications – Water Cooled					
2	2	Up to 2	15	50 x 28 x 39	500
3	3	Up to 2	15	50 x 28 x 39	550
5	5	Up to 2	20	58 x 37 x 45	610
7.5	7.5	Up to 2	20	58 x 37 x 45	1200
10	10	Up to 2	20	58 x 37 x 45	1465
15	15	Up to 3	65	80 x 40 x 65	1575
20	20	Up to 3	65	80 x 40 x 65	1850
30	30	Up to 3	65	140 x 50 x 50	3760
35	35	Up to 3	65	140 x 50 x 50	4100

*Available in a variety of heating and pumping capacities.

Temperature range is 20° F to 250° F for standard systems. Consult factory for other ranges.

** Cabinet size may change depending on kw capacity of heating units.

*** Weight of Chiller only. (Weight of heating units to be added.)

Options

Mokon offers a variety of standard options and accessories to meet specific customer needs. Typical requests include: autofill, low water level (reservoir) indication, safety alarms, larger pumping capacities, without tank or supply pump. Control options include microprocessor-based with serial communication, SPI protocol, brand name control or host interface capabilities.

Product Testing and Warranty

All Mokon temperature control systems are qualified for service by rigid, simulated field tests, and they are factory calibrated before shipping. With durable materials of construction and reliable components, Mokon offers a one-year warranty as standard.

For more information on Mokon's Full Range Process Temperature Controller or other products, call our sales department today.



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