



Designed to Perform. Built to Last.

ICEMAN SM SERIES

Modulating Portable Chiller System
20°F to 65°F (-7°C to 18°C)

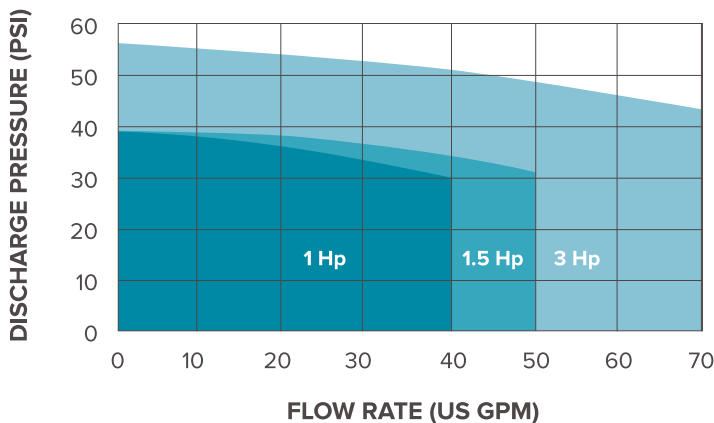


Mokon's IceMan SM Series portable chiller maximizes performance with process cooling from 20°F to 65°F (-7°C to 18°C). The IceMan SM Series features a digital scroll compressor capable of providing variable capacity output from 10% to 100%.

Air-Cooled		Water-Cooled		Process Pump			Connections		Tank Size (Gallons)	Approximate Dimensions ³ (L x W x H)
Model	Cooling Capacity ¹ (BTU/Hr) @ 50°F (10°C)	Model	Cooling Capacity ¹ (BTU/Hr) @ 50°F (10°C)	Pump (Hp)	Min/Max Flow Rate (GPM)	Nominal Pressure (PSI)	Process (FNPT)	Condenser Water-Cooled ² (FNPT)		
ASM-5	58,300	WSM-5	60,300	1	12/30	Up to 37	1 1/2"	1"	20	58" x 37" x 45"
ASM-10	115,400	WSM-10	118,400	1 1/2	24/35	Up to 37	1 1/2"	1 1/2"	20	58" x 37" x 45"
ASM-15	168,800	WSM-15	173,800	3	36/50	Up to 55	1 1/2"	1 1/2"	68	80" x 52" x 65"

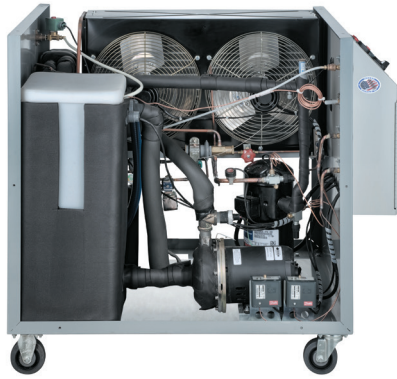
- All chillers are based on chilled water at 2.4 GPM/Ton and 90°F (32°C) ambient air.
- Water-Cooled chillers based on 85°F (29°C) condensing water at 3 GPM/Ton.
- Water-Cooled chiller dimensions are the same or smaller than Air-Cooled models.

Pump Curve



Controls

A non-proprietary microprocessor-based controller provides dual LCD indication of your process fluid setpoint and actual temperature to ensure process control accuracy. A variety of options and accessories to meet specific customer needs are available.



Standard Features

- Air-cooled or water-cooled condensing
- Compact, portable design
- Hermetically sealed digital scroll compressor
- Green friendly refrigerant
- Stainless steel centrifugal process pump
- Highly efficient brazed plate evaporator
- Electronic TX valve
- Pilot light indication
- Low/high refrigerant gauges
- Heavy-duty insulated plastic tank
- Fluid level visible from outside of cabinet
- Insulated nonferrous plumbing and components
- 1/8 DIN non-proprietary microprocessor-based controller in easily accessible panel
- High and low refrigerant pressure switches
- Freeze stat protection
- Flow switch
- Filter dryer
- Supply pump pressure gauge
- Main power door disconnect
- NEMA/Type 1 electrical enclosure
- Heavy-duty casters for portability
- Powder-coated cabinet
- cULus 508A labeled electrical subpanel

Compressor Function

The scroll compressor operates in one of two phases, depending on load demand requirements:

Loaded Phase: The bypass solenoid valve is closed and the compressor operates like a standard scroll and delivers full capacity.

Unloaded Phase: The bypass solenoid valve is opened, resulting in minimal or no capacity through the compressor. Reduced compression in the unloaded phase consumes significantly less energy when compared to traditional portable chillers that use hot gas bypass for capacity modulation.

Technical data shown is subject to change without notice. The company will endeavor to supply the equipment as illustrated but reserves the right to make dimensional and other design changes as required.

Common Options and Accessories

- Air duct flange (top)
- Air filters
- Alarms – audible and visual
- Automatic fill
- Blown fuse indication
- Control options – remote setpoint and re-transmission, communication ports
- CPR valve
- Emergency stop
- Flow meters
- Fluid temperature ranges up to 75°F
- Low ambient kit
- Low water level indication
- NEMA/Type 4, 4X, 7 and 12
- Other voltages, phases, frequencies
- Overhead piping kit
- Phase indicator
- Power cord
- Process fluid purge (manual and automatic)
- Pump modifications to increase flow capacity or elimination of supply pump
- Remote condenser
- Special paint
- Strainers (process return)
- Supply and return thermometers
- Tank upgrades and modifications
- TEFC pump motor
- Timers
- UL, CSA, CE and EAC certifications
- Valved process bypass
- Water filters

Product Testing and Warranty

All Mokon chillers are qualified for service by rigid, simulated field tests, and are 100% factory calibrated and run tested. Mokon offers a 1 year warranty on system and 5 years on standard microprocessor controller.



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