



Designed to Perform. Built to Last.

# ICEMAN SC SERIES

**Single Circuit Portable Chiller System**  
10°F to 65°F (-12°C to 18°C)



Mokon's Iceman SC Series portable chiller with low GWP refrigerant maximizes performance with process cooling from 10°F to 65°F (-12°C to 18°C). The Iceman SC Series features a scroll compressor (reciprocating in some models) providing superior efficiency, enhanced reliability and quieter operation.

Model		Cooling Capacity (BTU/Hr) 50°F (10°C)	Fluid Temperature Range	Refrigerant	Process Pump			Connections		Tank Size (Gallons)	Approximate Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
Air-Cooled	Water-Cooled				Pump (Hp)	Min/Max Flow Rate (GPM)	Nominal Pressure (PSI)	Process (FNPT)	Condenser Water-Cooled (FNPT)			
AC-1	WC-1	9,684	20°F to 60°F (-7°C to 16°C)	R-513A	1	2.4/15	Up to 32	1"	1/2"	10	36" x 25" x 42"	330
AS-2	WS-2	24,960	20°F to 65°F (-7°C to 18°C)	R-454B A2L	1	4.8/20	Up to 30	1"	1/2"	15	48" x 28" x 43"	450
AS-3	WS-3	33,720	20°F to 65°F (-7°C to 18°C)	R-454B A2L	1	7.2/25	Up to 30	1"	1/2"	15	48" x 28" x 43"	460
AS-5	WS-5	56,640	10°F to 65°F (-12°C to 18°C)	R-454B A2L	1	12/30	Up to 37	1 1/2"	1"	20	67" x 37" x 71"	565
AS-7.5	WS-7.5	56,640	10°F to 65°F (-12°C to 18°C)	R-454B A2L	1	18/30	Up to 34	1 1/2"	1 1/2"	20	67" x 37" x 71"	840
AS-10	WS-10	120,000	10°F to 65°F (-12°C to 18°C)	R-454B A2L	1 1/2	24/35	Up to 37	1 1/2"	1 1/2"	20	67" x 37" x 71"	860
AS-15	WS-15	100,236	10°F to 65°F (-12°C to 18°C)	R-454B A2L	3	36/50	Up to 55	1 1/2"	1 1/2"	60	142" x 53" x 80"	1,750
AS-20	WS-20	175,080	10°F to 65°F (-12°C to 18°C)	R-454B A2L	3	48/50	Up to 48	1 1/2"	1 1/2"	60	142" x 53" x 80"	1,850
AS-30	WS-30	360,840	10°F to 65°F (-12°C to 18°C)	R-454B A2L	7 1/2	72/90	Up to 50	2"	2"	100	Contact Mokon	3,860
AS-40	WS-40	470,880	10°F to 65°F (-12°C to 18°C)	R-454B A2L	7 1/2	96/100	Up to 50	2"	2"	100	Contact Mokon	4,995
AS-50	WS-50	575,760	10°F to 65°F (-12°C to 18°C)	R-454B A2L	7 1/2	120/140	Up to 65	3"	3"	150	Contact Mokon	5,495

1. All chillers are based on chilled water at 2.4 GPM/Ton and 90°F (32°C) ambient air.

2. Water-Cooled chillers based on 85°F (29°C) condensing water at 3 GPM/Ton.

3. Scroll compressors except 1 Ton are reciprocating.

4. Water-Cooled chiller dimensions are the same or smaller than Air-Cooled models.

## Standard Features

- Air-cooled or water-cooled condensing
- Compact, portable design
- Hermetically sealed reciprocating and scroll compressors, depending on tonnage
- Green friendly refrigerant
- Stainless steel centrifugal process pump
- TEFC pump motor
- Highly efficient brazed plate evaporator
- Highly accurate hot gas bypass circuit
- Low/high refrigerant gauges
- Heavy-duty insulated plastic tank
- Fluid level visible from outside of cabinet
- Insulated nonferrous plumbing and components
- 1/16 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

## Common Options and Accessories

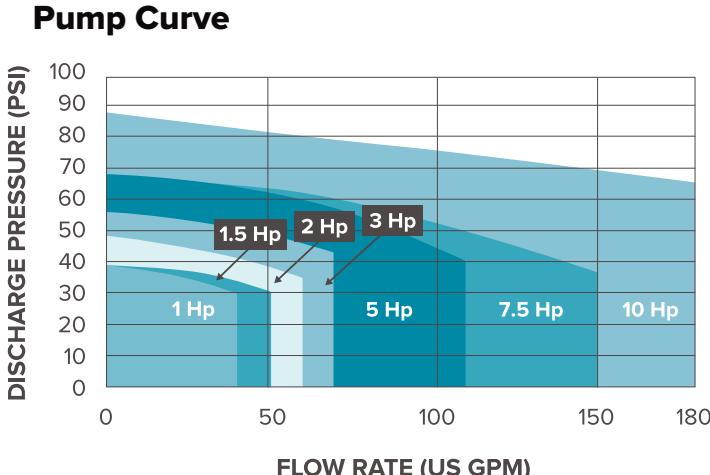
- Air duct flange (top)
- Air filters
- Alarms – audible and visual
- Automatic fill
- Blown fuse indication
- Control options – remote setpoint and re-transmission, communication ports
- Emergency stop
- Flow meters
- Low water level indication
- NEMA/Type 4, 4X, 7 and 12
- Other voltages, phases, frequencies
- Overhead piping kit
- Phase indicator (standard on 2 - 15 Ton)
- 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
- 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.

## 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.



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.



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SC 1/26 MOK8174