

ICEMAN SC SERIES

Single Circuit Portable Chiller System
5°F to 65°F (-15°C to 18°C)



Mokon's Iceman SC Series portable chiller maximizes performance with process cooling from 5°F to 65°F (-15°C to 18°C). The Iceman SC Series features a scroll compressor (reciprocating in some models) providing superior efficiency, enhanced reliability and quieter operation.

Fluid Temperature Range: 5°F to 30°F (-15°C to -1°C)

Air-Cooled		Water-Cooled		Process Pump			Connections		Tank Size (Gallons)	Approximate Dimensions ⁴ (L x W x H)
Model	Cooling Capacity ¹ (BTU/Hr) @ 10°F (-12°C)	Model	Cooling Capacity ¹ (BTU/Hr) @ 10°F (-12°C)	Pump (Hp)	Min/Max Flow Rate (GPM)	Nominal Pressure (PSI)	Process (FNPT)	Condenser Water-Cooled ² (FNPT)		
ASL-1.5	10,830	WSL-1.5	11,590	1 1/2	4/25	Up to 45	1"	1"	15	48" x 28" x 39"
ASL-2	17,100	WSL-2	18,145	1 1/2	5/25	Up to 45	1"	1"	15	48" x 28" x 39"
ASL-3	25,650	WSL-3	27,170	2	7/40	Up to 42	1 1/2"	1"	20	56" x 37" x 45"
ASL-5	37,620	WSL-5	39,805	3	12/40	Up to 53	1 1/2"	1 1/2"	20	56" x 37" x 45"
ASL-7.5	55,860	WSL-7.5	58,710	3	18/50	Up to 50	1 1/2"	1 1/2"	20	56" x 37" x 45"

Note: Capacities based on the use of 35% ethylene glycol.

Fluid Temperature Range: 20°F to 65°F (-7°C to 18°C)

Air-Cooled		Water-Cooled		Process Pump			Connections		Tank Size (Gallons)	Approximate Dimensions ⁴ (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)		
AC-.5 ³	5,330	WC-.5 ³	5,620	3/4	1.2/10	Up to 32	1"	1/2"	10	36" x 25" x 38"
AC-1 ³	15,800	WC-1 ³	16,700	3/4	2.4/15	Up to 32	1"	1/2"	10	36" x 25" x 38"
AC-1.5 ³	20,700	WC-1.5 ³	21,800	3/4	3.6/15	Up to 31	1"	1/2"	15	48" x 28" x 39"
AS-2	24,800	WS-2	25,700	3/4	4.8/20	Up to 30	1"	1/2"	15	48" x 28" x 39"
AS-3	34,100	WS-3	35,300	3/4	7.2/25	Up to 30	1"	1/2"	15	48" x 28" x 39"
AS-5	56,100	WS-5	58,100	1	12/30	Up to 37	1 1/2"	1"	20	56" x 37" x 45"
AS-7.5	96,872	WS-7.5	100,236	1	18/30	Up to 34	1 1/2"	1 1/2"	20	56" x 37" x 45"
AS-10	112,354	WS-10	116,516	1 1/2	24/35	Up to 37	1 1/2"	1 1/2"	20	56" x 37" x 45"
AS-12	134,344	WS-12	139,339	2	28/40	Up to 40	1 1/2"	1 1/2"	68	78" x 40" x 65"
AS-15	165,122	WS-15	170,972	3	36/50	Up to 55	1 1/2"	1 1/2"	68	78" x 40" x 65"
AS-20	226,800	WS-20	234,800	3	48/50	Up to 48	1 1/2"	1 1/2"	68	78" x 40" x 65"
AS-25	271,000	WS-25	280,000	5	60/70	Up to 60	2"	2"	100	142" x 50" x 80"
AS-30	350,000	WS-30	362,000	7 1/2	72/90	Up to 50	2"	2"	100	142" x 50" x 80"
AS-40	441,000	WS-40	455,000	7 1/2	96/100	Up to 50	2"	2"	100	200" x 52" x 85"
AS-50	542,000	WS-50	560,000	10	120/140	Up to 65	3"	3"	150	200" x 52" x 85"

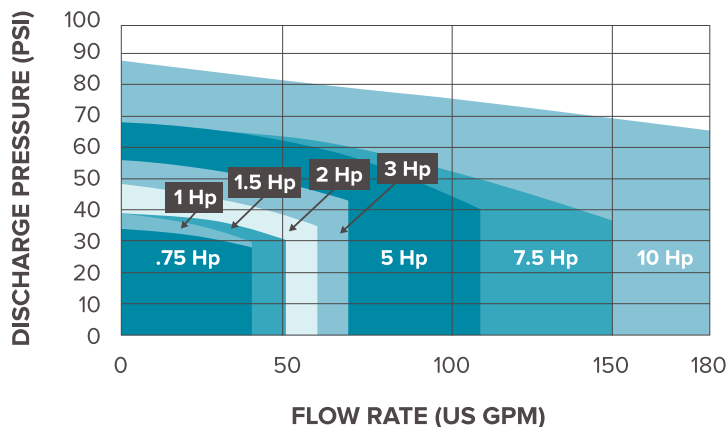
1. All chillers are based on chilled water at 2.4 GPM/Ton and 90°F (32°C) ambient air.
2. Water-Cooled chillers based on 85°F (29°C) condensing water at 3 GPM/Ton.
3. Scroll compressors except .5 to 1.5 Ton are reciprocating.
4. Water-Cooled chiller dimensions are the same or smaller than Air-Cooled 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
- 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

Pump Curve



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 (up to 30 Tons)
- Emergency stop
- Flow meters
- Fluid temperature ranges up to 75°F, for higher temperatures see Full Range product line
- 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.

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.



Designed to Perform. Built to Last.

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