

# ICEMAN SC SERIES

**Dual Circuit Portable Chiller System**  
20°F to 65°F (-7°C to 18°C)



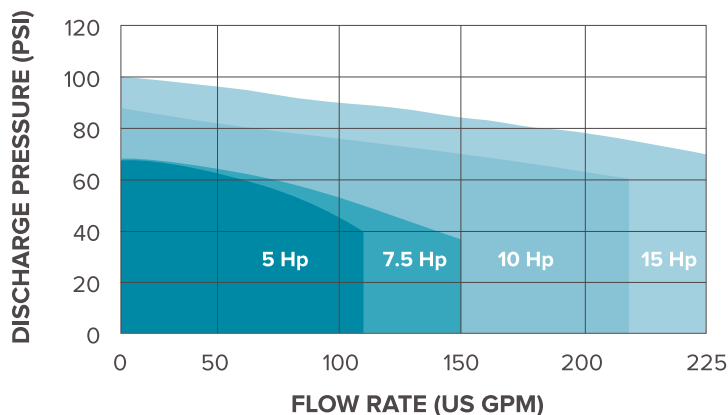
Mokon's Iceman Dual Circuit SC Series portable chiller maximizes performance with process cooling from 20°F to 65°F (-7°C to 18°C). The Iceman Dual Circuit system features a tandem compressor arrangement for dual circuit capacity control to provide a flexible and energy-efficient design solution to your ever-changing process cooling requirements.

Air-Cooled		Water-Cooled		Process Pump			Connections		Tank Size (Gallons)	Approximate Dimensions <sup>4</sup> (L x W x H)
Model	Cooling Capacity <sup>1</sup> (BTU/Hr) @ 50°F (10°C)	Model	Cooling Capacity <sup>1</sup> (BTU/Hr) @ 50°F (10°C)	Pump (Hp)	Min/Max Flow Rate (GPM)	Nominal Pressure (PSI)	Process (FNPT)	Condenser Water-Cooled <sup>2</sup> (FNPT)		
AD-10	105,000	WD-10	109,000	5	24/40	Up to 45	1 1/2"	1 1/2"	20	80" x 52" x 65"
AD-15	171,200	WD-15	176,800	5	36/50	Up to 45	1 1/2"	1 1/2"	68	80" x 52" x 65"
AD-20	231,000	WD-20	238,000	5	48/60	Up to 45	2"	1 1/2"	68	80" x 52" x 65"
AD-30	336,000	WD-30	347,000	7 1/2	72/115	Up to 55	2"	1 1/2"	100	142" x 52" x 80"
AD-40	441,000	WD-40	455,000	7 1/2	96/100	Up to 50	2"	1 1/2"	100	190" x 52" x 85"
AD-50	537,000	WD-50	554,000	10	120/140	Up to 70	3"	3"	150	200" x 52" x 85"
AD-60 <sup>3</sup>	692,000	WD-60	715,000	15	144/180	Up to 80	3"	3"	150	200" x 52" x 52"

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. 60 Ton Air-Cooled system is provided with remote air-cooled condenser.  
4. Water-Cooled chiller dimensions are the same or smaller than Air-Cooled models.

## Pump Curve



## Controls

A microprocessor-based controller designed specifically for chiller applications is supplied. The controller provides capacity control of compressors with anti-recycle, automatic compressor lead/lag and running hour meter that logs compressor run time.



## Standard Features

- Air-cooled or water-cooled condensing
- Tandem scroll compressor arrangement
- 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
- 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
- CPR valve (up to 30 Tons)
- Emergency stop
- Flow meters
- Low ambient kit
- Low water level indication
- Low/High refrigerant gauges
- 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.



**Designed to Perform. Built to Last.**

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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.



SCDC 7/21 MOK8174