



## Dual Efficiency

The Iceman Dual Circuit SC Series portable chillers feature 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. The tandem design provides down to 10% of overall capacity for smaller applications. For larger applications requiring more capacity, both circuits work together to meet the need of the process.

The chillers feature scroll compressor technology with its inherent benefits of smooth, quiet operation and the ability to tolerate liquid slugging during shut down of the compressor. Coupled with a stainless steel brazed plate evaporator and nonferrous materials of construction on both the refrigerant and process fluid loops, the Mokon Dual Circuit Scroll Series Chillers will provide years of trouble-free flexible service.

Iceman Dual Circuit Chillers are ideal for a variety of applications with varying cooling load requirements or when future growth is planned and only a portion of the chilling is needed today.



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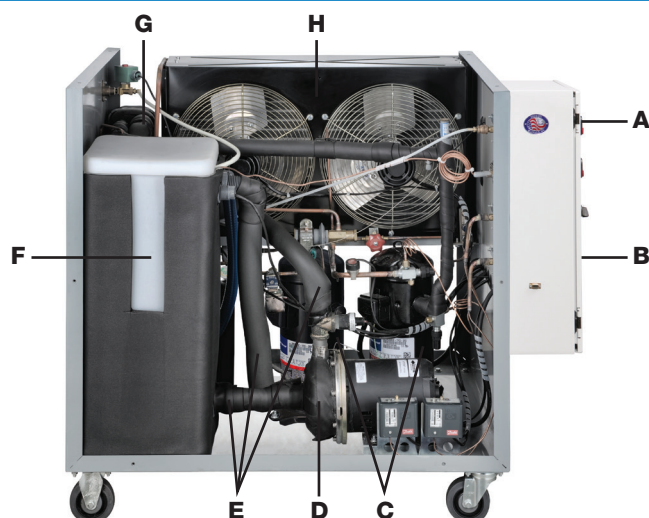
## ICEMAN Dual Circuit SC Series

*Air-Cooled Portable Chiller  
Water-Cooled Portable Chiller  
20°F to 65°F (-7°C to 18°C)*

- **10 to 60 Ton chilling capacities**
- **Better efficiency for partial load applications**
- **Practical answer to future expansion plans**
- **Nonferrous components**
- **Microprocessor-based controller**
- **UL 508A labeled electrical sub-panel**
- **Meets NFPA 79 electrical safety standards**



# Smooth, Continuous Temperature Control



## Standard Features

- A** Microprocessor-based controller mounted in operator-friendly orientation
- B** NEMA rated electrical enclosure with safety door disconnect switch
- C** Tandem scroll compressor arrangement
- D** Stainless steel centrifugal supply pump
- E** Insulated nonferrous plumbing and components
- F** Heavy-duty insulated plastic tank
- G** Highly efficient brazed plate evaporator
- H** Air-cooled condenser (shown) or water-cooled condenser
- I** Hot gas bypass circuit (not shown – behind tank)

System standard with NFPA 79 and UL 508A labeled electrical sub-panel

## Specifications - Air-Cooled

Model	Cooling Capacity (Tons) <sup>1</sup>	Compressor (Hp)	Pump (Hp)	Nominal Flow Rate (GPM)	Nominal Pressure (PSI)	Process Connection (FNPT)	Condenser Water Connection (FNPT)	Tank Size (Gallons)	Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
AD-10	5/5	5/5	5	24	up to 45	1 1/2"	N/A	20	80" x 52" x 65"	1,390
AD-15	7.5/7.5	7.5/7.5	5	36	up to 45	1 1/2"	N/A	68	80" x 52" x 65"	1,665
AD-20	10/10	10/10	5	48	up to 45	2"	N/A	68	80" x 52" x 65"	1,685
AD-30	15/15	15/15	7 1/2	72	up to 50	2"	N/A	100	142" x 52" x 80"	3,775
AD-40	20/20	20/20	7 1/2	96	up to 50	2"	N/A	100	190" x 52" x 85"	3,995
AD-50	25/25	25/25	10	120	up to 65	3"	N/A	150	200" x 52" x 85"	5,395
AD-60*	30/30	30/30	15	144	up to 65	3"	N/A	150	200" x 52" x 52"	5,295

## Specifications - Water-Cooled

Model	Cooling Capacity (Tons) <sup>2</sup>	Compressor (Hp)	Pump (Hp)	Nominal Flow Rate (GPM)	Nominal Pressure (PSI)	Process Connection (FNPT)	Condenser Water Connection (FNPT)	Tank Size (Gallons)	Dimensions (L x W x H)	Shipping Weight (Approx. lbs.)
WD-10	5/5	5/5	5	24	up to 45	1 1/2"	1 1/2"	20	80" x 52" x 65"	1,360
WD-15	7.5/7.5	7.5/7.5	5	36	up to 45	1 1/2"	1 1/2"	68	80" x 52" x 65"	1,615
WD-20	10/10	10/10	5	48	up to 45	2"	1 1/2"	68	80" x 52" x 65"	1,635
WD-30	15/15	15/15	7 1/2	72	up to 50	2"	1 1/2"	100	142" x 52" x 50"	3,105
WD-40	20/20	20/20	7 1/2	96	up to 50	2"	1 1/2"	100	190" x 52" x 55"	3,330
WD-50	25/25	25/25	10	120	up to 65	3"	3"	150	200" x 52" x 52"	4,730
WD-60	30/30	30/30	15	144	up to 65	3"	3"	150	200" x 52" x 52"	6,130

<sup>1</sup> Air-Cooled based on 50°F chilled water at 2.4 GPM/Ton and 90°F ambient air.

<sup>2</sup> Water-Cooled based on 50°F chilled water at 3 GPM/Ton and 85°F condensing water.

\* 60 Ton Air-Cooled system is provided with remote air-cooled condenser.

Fluid temperature range is 20°F to 65°F (-7°C to 18°C)

Iceman Chillers are available in a variety of voltages, capacities and process fluid temperatures.

For more information, please contact Mokon.

## 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.

## Options

Mokon offers a variety of options and accessories to meet specific customer needs. Please contact Mokon for more information.

## Product Testing & Warranty

All Mokon chillers are qualified for service by rigid, simulated field tests, and are factory calibrated. Mokon offers a one-year warranty as standard.

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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IcemanDualChiller 2/18 MOK7633