

AIR-COOLED OUTDOOR PACKAGED WATER CHILLERS

ICE AM Series Outdoor-Air-Cooled Chiller Modules provide an excellent source of chilled water for industrial cooling applications where a separate source of condenser supply water does not exist or plant floor space is at a premium. AM Series Chillers can be conveniently located on an outside ground level pad or a plant roof for efficient space utilization.

The **ICE AM Series Air-Cooled Chiller Module** is shipped completely wired, piped, tested and ready to install and contains a scroll or screw Copeland compressor with features as:

- Energy efficient for reduced energy consumption
- Compressor service valves for easy maintenance
- Internal compressor overload protection to prevent motor damage
- Compressor fusing and contactors provide worker safety
- Time-delay compressor start (on dual and multiple compressor units to prevent current “spikes” at unit start-up
- Compressor isolator pads dampen vibrations

The **Air-Cooled Outdoor Package Water Chillers** contain a refrigerant circuit with:

- Pressure Relief valves to prevent damage to the “high Side” of the refrigeration circuit
- Low pressure operating control and freeze/low charge control with the time delay circuit to monitor and safely control the “low side” of the refrigeration circuit
- Fill refrigerant operating charge saves money, time and provides a “ready to run” unit
- “MOP” type thermostatic expansion valve provides accurate metering of the refrigerant

Budzar Industries also designs and manufactures specialized equipment for non-standard applications. Our engineers have extensive experience in process chilling and heating applications for such industries as: chemical, defense, energy, extraction, food, medical, pharmaceutical, plastics, rubber, tire and, semiconductor. We take the time to understand your current and future needs and design solutions targeting high quality and fast payback.

- Designed to operate in a leaving water temperature (LWT) ranging from 42°F to 55°F
- Refrigerant vessels are constructed in accordance with ANSI B9.1
- All electrical components are UL approved and wiring is performed in accordance with the National Electrical Code
- Low-profile, base rail configuration
- Shipped completely wired, piped, tested, and ready to install
- High, Low Pressure Transducers
- RTD sensors for measuring temperatures
- Scroll Compressor or Screw Compressor for larger sizes
 - Energy efficient Copeland compressors
 - Compressor service valves offer easy maintenance
 - Internal compressor overload protection to prevent motor damage
- Refrigerant Circuit
 - Pressure relief valves to prevent damage to the “High-Side” of the refrigeration circuit
 - “MOP” type thermostatic expansion valve provides accurate metering of the refrigerant



PROGRAMMABLE LOGIC CONTROLLER PROVIDES:

PROGRAMMABILITY

- Software may be customized, transferred from a personal computer and updated via programming key

DISPLAYED INSTRUMENTATION INFORMATION

- Pump discharge pressure and flow
- Compressor suction pressure, temperature and superheat
- Liquid refrigerant temperature and sub-cooling
- Evaporator inlet and outlet temperature
- Compressor pump status

CONTROLLER FUNCTIONS

- Selectable controlled parameter (supply or return temperature)
- Head pressure control via fan motor cyclone (air-cooled units)

HIGH TECHNOLOGY

- All alarm situation, values of the monitored parameters and the status of the controlled devices are saved for service/maintenance review
- Troubleshooting information is displayed when circumstances require assistance
- The controller identifies marginal operating conditions and adjusts chiller operation



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OPTIONS AVAILABLE

- Remote Alarm
- Disconnect Switch
- -20°F Low Ambient Package
- Side Screens
- Tank by Number of Gallons
- Packaged Systems with integrated tank and pump(s) for a complete chiller plant
- Different Refrigerant Options

SCROLL COMPRESSOR

Model	HP	TONS	# COMP	# EVAP	#CIRCUIT IN EVAPORATOR	FLA # 460	MCA # 460	L x W x H (inches)	Shipping Weight (lbs)
AM-005-S1S1-FCB	5	5.0	1	1	1	18.8	20.0	44 X 50 X 70	750
AM-010-S1S1-FCB	10	10.4	1	1	1	23.0	27.8	68 X 50 X 70	845
AM-020-S1S1-FCB	20	20.5	1	1	1	49.7	49.7	122 X 50 X 70	1,722
AM-030-S1S1-FCB	30	31.2	2	1	1	69.1	76.3	176 X 50 X 70	2,321
AM-040-S2S1-FCB	40	39.6	2	1	1	82.3	90.7	176 X 50 X 70	3,092
AM-050-S2S1-FCB	50	48.2	2	1	1	107.9	118.6	176 X 96 X 70	3,837
AM-060-S4D1-FCB	60	60.0	4	2	2	131.4	138.2	176 X 96 X 70	4,195
AM-080-S4S1-FCB	80	80.0	4	2	2	164.0	172.4	230 X 96 X 70	5,072
AM-100-S4S2-FCB	100	100.0	4	2	2	208.8	219.5	230 X 96 X 70	6,710

SCREW COMPRESSOR

Model	HP	TONS	# COMP	# EVAP	#CIRCUIT IN EVAPORATOR	FLA # 460	L x W x H (inches)	Shipping Weight (lbs)
AM-050-C1S1-FCB	50	43.0	1	1	1	110.2	260 x 50 x 70	6,250
AM-060-C1S1-FCB	60	54.2	1	1	1	124.0	308 x 50 x 70	6,500
AM-070-C1S1-FCB	70	63.0	1	1	1	142.0	308 x 50 x 72	7,000
AM-080-C1S1-FCB	80	73.0	1	1	1	155.0	212 x 98 x 70	7,300
AM-090-C1S1-FCB	90	84.0	1	1	1	175.0	212 x 98 x 70	8,200
AM-110-C1S1-FCB	110	103.6	1	1	1	214.0	260 x 98 x 70	11,000
AM-125-C1S2-FCB	125	118.6	1	1	1	259.0	308 x 98 x 70	11,420
AM-140-C2S2-FCB	140	137.6	1	1	1	289.0	308 x 98 x 70	13,500

All information based on 50°F leaving water temperature. For higher hoser power, consult factory.

UNITS AVAILABLE FROM BUDZAR INDUSTRIES



Low Temperature Process Chillers to -85°C



Clean Steam Sampling Cart



Standard and Custom Temperature Control Modules



Cold Storage Room



CIP Systems



Reactor Temperature Control Systems from -85°C to +200°C