

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.

Budzar 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: rubber, paper, plastics, chemical, food, pharmaceutical and metal working. We take the time to understand your current and future needs and design solutions targeted at high quality and fast payback.

The ICE AM Series Air-Cooled Chiller Module is shipped completely wired, pipe tested, 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 excessive "spikes" at unit start-up
- Compressor isolator pads dampen vibrations

The Air-Cooled Outdoor Packages Water Chillers also contain a refrigerant circuit with:

- Pressure Relief valves prevent damage to the "high side" of the refrigeration circuit
- "MOP" type thermostatic expansion valve provides accurate metering of the Freon (R-22)
- 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 R-22 refrigerant operating charge saves money, time and provides a "ready-to-run" unit



engineering PRECISION

COMPARE THESE FEATURES

- 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 cycling (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*

- Designed to operate in a leaving water temperature (LWT) ranging from 35°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 for reduced energy consumption
 - 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 freon (R-22)

process
TEMPERATURE
CONTROL

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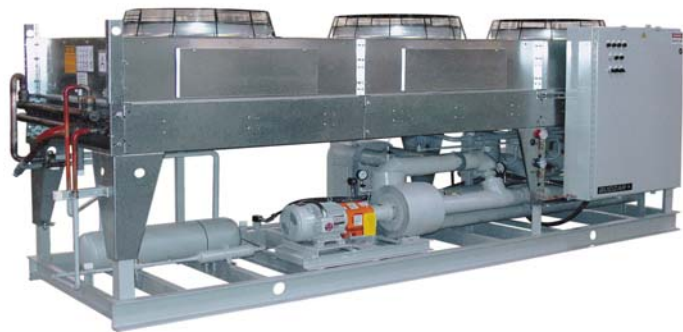
Scroll Compressor								
Model	HP	# Comp	# Evap	# Circuit in Evaporator	FLA @ 460	MCA @ 460	L x W x H	Shipping Weight
AM-010-S1S1-FCB	10	1	1	1	23.0	27.8	68 x 46 x 70	845
AM-020-S1S1-FCB	20	1	1	1	49.7	49.7	122 x 46 x 70	1722
AM-030-S2S1-FCB	30	2	1	1	69.1	76.3	122 x 46 x 70	2321
AM-040-S2S1-FCB	40	2	1	1	82.3	90.7	122 x 46 x 70	3092
AM-050-S2S1-FCB	50	2	1	1	107.9	118.6	176 x 91 x 70	3738
AM-060-S4D1-FCB	60	4	2	2	131.4	138.2	176 x 91 x 70	4195
AM-080-S4D1-FCB	80	4	2	2	164.0	172.4	230 x 91 x 70	5072
AM-100-S4S2-FCB	100	4	1	2	208.8	219.5	230 x 91 x 70	6710

Screw Compressor								
Model	HP	# Comp	# Evap	# Circuit in Evaporator	FLA @ 460	MCA @ 460	L x W x H	Shipping Weight
AM-050-C1S1-FCB	60	1	1	1	110.0	140.0	176 x 91 x 70	3738
AM-060-C1S1-FCB	60	1	1	1	135.0	140.0	176 x 91 x 70	4195
AM-070-C1S1-FCB	70	1	1	1	142.0	172.6	176 x 91 x 70	4547
AM-090-C1S1-FCB	90	1	1	1	176.2	212.7	230 x 91 x 70	6710
AM-110-C1S1-FCB	110	1	1	1	214.6	259.1	284 x 91 x 70	8248
AM-120-C2S2-FCB	120	2	1	2	241.2	266.6	284 x 91 x 70	8673
AM-125-C1S1-FCB	125	1	1	1	234.6	284.1	284 x 91 x 70	9345
AM-140-C2S2-FCB	140	2	1	2	284.2	314.2	338 x 91 x 70	9471
AM-160-C2S2-FCB	160	2	1	2	296.2	327.7	338 x 91 x 70	9686

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

Options Available

- Remote Alarm
- Disconnect Switch
- -20°F Low Ambient Package
- Side Screens
- Tank by Number of Gallons
- 230 Volt
- Packaged system with tank
- Different refrigerant options



Budzar Industries reserves the right to discontinue or change specifications without notice, consistent with sound engineering practice and current industrial standards.



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