

# 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
- "MOP" type thermostatic expansion valve provides accurate metering of the refrigerant
- 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

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

- 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

- 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 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 refrigerant

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## Scroll Compressor

Model	HP	Tons	# Comp	# Evap	# Circuit in Evaporator	FLA @ 460	L x W x H (inches)	Shipping Weight (lbs)
AM-010-S1S1-FCB	10	10.4	1	1	1	22.8	68 x 50 x 70	1,700
AM-020-S1S1-FCB	20	20.5	1	1	1	41.3	116 x 50 x 70	2,600
AM-030-S2S1-FCB	30	31.2	1	1	1	65.5	164 x 50x x70	3,400
AM-040-S2S1-FCB	40	39.6	2	1	1	83.0	212 x 50 x 70	4,200
AM-050-S2S1-FCB	50	48.2	2	1	1	110.0	260 x 50 x 70	6,400
AM-060-S4D1-FCB	60	61.4	2	1	1	131.0	308 x 50 x 70	6,550

## 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	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	1	1	1	142.0	308 x 50 x 72	7,000
AM-080-C1S1-FCB	80	73	1	1	1	155.0	212 x 98 x 70	7,300
AM-090-C1S1-FCB	90	84	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 98x 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 horse power, consult factory



### Options Available

- Remote Alarm
- Disconnect Switch
- 20°F Low Ambient Package
- Side Screens
- Tank by Number of Gallons
- Packaged System with Tank
- Different Refrigerant Options

### 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