![Compu-Aire Inc. logo] COMPU-AIRE INC.
Specialized Environmental Air Conditioning Systems

FLEXIBLE & INNOVATIVE Cooling Solutions

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Compu-Aire Inc offers a variety of high performance precision cooling systems that can adapt to your application needs.

With today's rapidly changing technology, spot heating and cooling, humidity control, and air filtration are just a few of the basic specifications required to maintain temperature critical facilities, no matter how big or small the spaces are.

Keeping these needs in mind, Compu-Aire Inc. specially designed units are manufactured to meet the customer's requirements, without sacrificing efficiency and quality. Compu-Aire Incs. attention to detail and customization are just a couple of the personalized features offered.

We work with you to design HVAC systems that can save you money while providing optimal overall system performance and occupant comfort. Our engineered flexibility allows you to fine tune your HVAC system to meet the specific requirements of your application, resulting in lower installed and operating costs, high energy efficiency, quiet operation, superior indoor air quality (IAQ) and low cost maintenance and service.

In Row Systems

The Compu-Aire Inc. Ayan IV and Ayan Nano are the latest additions to Compu-Aire Inc. product family. These new units are designed to create an efficient and modern cooling system, without sacrificing space and specifications. These units have been designed to be green friendly, by using a high efficiency scroll compressor with EC fans, making it the latest innovation for the ustomer's specific cooling needs.

The In Row Systems are designed as supplemental and to provide cooling in a horizontal direction, creating a new way to position the units. The In Row Systems can be positioned between the racks, creating a more even dissipation of extreme heat from the servers. The In Row Systems are the perfect choice for hot/cold aisle containment set up.

By creating a unit with horizontal cooling, this prevents the mixing of hot and cold air, creating a more efficient cooling unit. This allows the In Row Systems to run to its best capabilities, allowing for improved air conduction, since the cold air is transported through the side outlets, and throughout the entire facility.

Ayan IV

Product Features

- Split System
- EC Motors/Plug Fans
- Horizontal Air Flow
- Humidifier ◊
- Reheat ◊
- 2-8 Ton capabilities
- 24 inches wide
- Interfacing with the emerging protocols in the HVAC sector and based on industry standards supporting the following networks.

- Touch screen graphical display
- pCO web ◊
- LonWORK protocol ◊
- BACnet Ethernet, BACnet network over TCP/IP and MS/TP

Ayan Nano

Product Features

- Compact design
- EC Motors/Plug Fans
- Horizontal Air Flow
- 2-4 Ton capabalities
- 12 inches wide
- pGD1 advance microprocessor
- pCO web ◊
- LonWORK protocol ◊
- BACnet Ethernet, BACnet network over TCP/IP and MS/TP

The pDG1 with graphical display allows complete management and is flexible and easy to customize.

◊ optional feature

Floor Mounted Systems

High performance, sensitive electronic equipment requires precise, reliable control of room temperature, humidity, and air flow for optimum performance. Compu-Aire Inc. floor mount systems have been meeting this challenge to provide a stable environment since 1980. Compu-Aire Inc. floor mount systems product line is made up of optimal features, energy efficient premium products that are available in sizes and configurations to suit any application, even corrosive industrial process environments. It is available in capacities ranging from 2 to 60 tons in compressor systems or 2 to 70 tons in chilled water systems.

System 2100

Product Features

- Precise and smart advanced microprocessor with graphical touch screen display
- Air, water, and glycol cooled systems
- Downflow and Upflow configurations
- Capacity from 6-60 ton
- Free Cooling "EM" and Dual Cooling "C+" Systems available ◊
- Isolated compressor compartment
- On-demand dehumidification
- Electric reheat
- Steam generating humidifier-canister type

- Electric reheat
- Removable hinges
- Heavy gauge tubular steel frame
- Dual high efficiency scroll compressors
- Environmental friendly Refrigerants R-407C,R134A, R-410A ◊
- Factory pre-piped, wired, and tested
- Plug fans ◊
- Air side economizer ◊

System 2100 Kompact

Product Features

- Precise and smart advanced microprocessor with graphical touch screen display
- Air, water, and glycol cooled systems
- Downflow and Upflow configurations
- Capacity from 6-12 Ton
- On-demand dehumidification
- Electric reheat
- Steam generating modulating humidifier-canister type

- Design for higher sensible heat
- Removable front and side panels with lift-off hinges for easy service access
- Heavy gauge tubular steel frame
- High efficiency scroll compressors
- Environmental Friendly Refrigerants R-407C, R134A, R-410A ◊
- Factory pre-piped, wired, and tested
- Plug fans ◊

System 2000 Chilled Water

Product Features

- Precise and smart advanced microprocessor with graphical touch screen display
- Upflow and Downflow models available
- Capacity from 6-70 tons
- Steam Generating Humidifier-canister type
- Electric Reheat
- On-demand dehumidification

- Designed for higher sensible heat ratio
- Removable front and side panels for easy service access
- Reliable components featuring three way modulating valves
- A-frame chilled water coils
- Tubular-steel frame
- Factory pre-piped, wired, and tested
- Plug fans ◊
- Air side economizer ◊

◊ optional feature

Floor Mounted Systems

Compu-Kool III

Product Features

- More cooling with smaller foot print
- Precise and smart advanced microprocessor with graphical touch screen display
- Air, water, glycol cooled and chilled water systems
- Free Cooling "EM" and Dual Cooling "C+" Systems available ◊
- Downflow and Upflow configurations
- Capacity from 2-6 tons
- On-demand dehumidification
- Electric Reheat

- Choice of outdoor or indoor roof or ceiling mounted condensing unit
- Steam generating modulating humidifier canister type
- Design for higher sensible heat ratio
- Removable front and side panels for easy service access
- Heavy gauge tubular steel frame
- High efficiency scroll compressor
- Environmental friendly Refrigerant R-407C,R134A, R-410A ◊
- Factory pre-piped, wired, and tested

Ceiling Mounted Systems

Recognizing the emerging trends toward smaller, more powerful hardware with increased cooling requirements, Compu-Aire Inc. designed ceiling/roof mount cooling systems with features specifically aimed at providing increased reliability, serviceability, and energy efficiency.

Available in capacities from 1.5 to 20 tons, Compu-Aire Inc. ceiling/roof mount systems can be configured in either free air discharge or ducted applications. With many possible configurations, there is a system available to fit the temperature and humidity control needs of any room. Installation is fast, operation is quiet, and maintenance is simple.

The cooling system is installed above a dropped ceiling or roof, saving floor space for your protected equipment. Ceiling/roof mount systems also offer the flexibility of configuration options such as ducting, various reheat options, free-cooling, and other features to allow the system to be tailored to the needs of your application.

Mini-Temp

Product Features

- Self-contained package ceiling mount systems
- Available on air cooled, water/glycol cooled or chilled water systems
- Capacity from 1.5 and 2 tons
- Installation: 2ft x 4ft ceiling tile
- Rugged cabinet construction, thermally and acoustically insulated cabinet

- Cabinet is suspended on rubber isolators to minimize the sound level
- Side access is made easy for servicing
- Single point electrical connection
- Air cooled models have a copper-tube, aluminum fin type condenser coil

Mini-Temp Plus

Product Features

- Ceiling mounted split system
- Available on air cooled, water/glycol cooled or Chilled water systems
- Choice of outdoor or indoor roof or ceiling mounted condensing unit
- Available as ducted on non-ducted system

- Capacity from 1.5, 2, 3 and 5 tons
- Available in air, water, glycol, or Chilled water configuration
- High sensible cooling capacity

◊ optional feature

Maxi-Kool/Heat Pump /100% OSA Systems
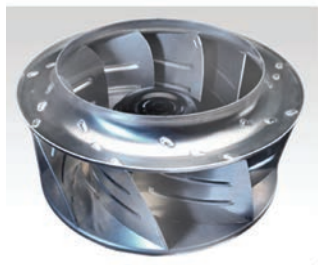
Product Features

- Self-contained/split ducted ceiling/roof mounted system
- Available air, water, glycol cooled and chilled water systems
- Capacity from 1.5-20 tons
- Air cooled-heat pump
- Ducted system
- High energy efficiency
- High efficiency coil provided maximum coil to air heat transfer
- Electric reheat
- Steam generating humidifier modulating canister type

- Fully insulated cabinet
- High efficiency scroll compressors
- Side access panel
- Single point electrical connection
- Multi-stage operation
- Remote Advanced Microprocessor Controls
- Free cooling "EM" and dual cooling "C+" systems available ◊
- Air side economizer ◊

Roof Top Mounted Systems

Product Features

- Self-contained package with ceiling/roof mounted system
- Air cooled-heat pump
- Ducted system
- Capacity from 1.5-20 tons
- High efficiency coil provided maximum coil to air heat transfer
- High efficiency scroll compressors
- Fully insulated cabinet
- Single point electrical connection
- Remote advanced microprocessor controls

- Free Cooling "EM" and Dual Cooling "C+" Systems available ◊
- Electric Reheat
- Steam Generating modulating humidifier-canister Type
- Air side economizer
- Plug fans ◊

Optional EC Fan Technology available in selected Compu-Aire Inc. systems. The evaporator sections are configured for draw-thru air pattern to provide uniform air flow over the coil face area. Each fan is a cassette type complete with a variable speed high efficiency EC motor directly driven by the controller with 0-10 VDC output for precise air flow volume control.

◊ **optional feature**

Exterior Wall Mount Systems

Whether you need to cool a shelter, school, cabinet, or container, Compu-Aire Inc. builds a unit for your requirements. Compu-Aire Inc. has developed innovative air conditioners, specifically for the emerging telecommunications market since it has expanded and redesigned to meet the requirements of commercial modular and classroom markets.

Compu-Aire Inc. exterior wall mounted air conditioners are one of the most economical ways to provide heating, cooling, and ventilation. These exterior mounted units are built in a variety of styles and configurations.

Cellu-Kool

Product Features

- Self-contained
- Space Saving Design
- Units available in 1.5, 2, 3, 4,and 5 Ton Capacities
- Full length mounting brackets on sides and top
- 1"/1.5 lbs. insulation
- Manual adjustable fresh air intake damper
- Modulating economizer ◊
- High efficiency scroll compressor
- Thermal expansion valve control
- Stainless steel drain pan
- Electric Heat ◊
- Hot gas bypass ◊
- Low ambient fan cycling control to 0°F ambient
- Dry contacts for remote alarm
- Plug fan ◊

Console Systems

Specifically designed to provide precise temperature and humidity control for small to mid-size computer rooms or spot cooling in larger rooms, capacity can be matched to your sensitive electronics. Ideal for applications where people and sensitive electronics must occupy the same space, the Compu-Aire Inc. console system provides 1.5 to 5 tons of cooling capacity. It is designed to be installed against a wall inside the room. Some features of the console system include:

Compu-Mate

Product Features

- Compact design, requires minimal service access
- Self-contained or split system
- High sensible cooling capacity
- Two speed fan motor
- Capacity from 1.5, 2, 3, 4 to 5 tons
- DX – air, water, glycol cooled, and chilled water systems
- Floor mounted or wall mounted
- Choice of outdoor or indoor roof or ceiling mounted condensing unit
- 100% Front service access
- Advanced microprocessor control
- Single DX circuit design with high efficiency scroll compressor

◊ optional feature

Compu-Aire Inc. 2200 + Series Control

Keeping the control in your hands

Compu-Aire Inc. has always focused special attention on simplicity of use, while at the same time fully exploiting the potential for flexibility and power offered by microprocessor technology.

Compu-Aire Inc. offers a diverse range of programmable controls, with state of the art user interfaces, including touch screen displays.

Compu-Aire Inc. 2200+ Series control provides a versatile approach to monitor the precise cooling and heating needs of your critical applications. With the latest technology available to the customer, we are able to provide reliable and flexible features to allow the customer to manage even the most intricate application.

Compu-Aire Inc. user friendly controllers support a variety of communications and protocols, including BacNet, LonWORKS, FTP, HTML, and Modbus.

Graphical Touch Screen Display

Included are various animated icons and non-proportional fonts in Unicode format and trend graphs. The touch screen display functions simplify setting the control parameters, allowing the customer easy access to the System 2200+ series controller.

Graphical status update with a touch of a button

Fan On

Demand for Heat

Demand for Cooling

Demand for Humidification

Demand for Dehumidification

H_2O *Excess Humidity Draining*

H_2O *Humidifier Active*

BMS Interface

Interact and monitor remotely with the pCO web card.

Compu-Aire Inc. advanced microprocessing control system provides access to our equipment through building management system (BMS) supporting industrial standard protocols including Modbus, BACnet, and LonWorks. This ensures easy access to the remote management of the unit via modem and internet.

Available Communications Options
Interfacing with the emerging protocols in the HVAC sector and based on industry standards supporting the following networks:
BACnet Over Ethernet
BACnet Over TCP/IP
BACnet MSTP
SNMP v1, v2, v3 networks with trap
Modbus
RS-485
LonWorks

BMS Communication protocols

Stand Alone Supervision Over pCO web

BMS Interface:
Our controllers are capable to receive necessary sensor inputs from BMS and utilize it to control the equipment. The controls can monitor the BMS status and if BMS became offline, controller can seamlessly switchover to local sensors and set points to maintain your data center cooling demand.

pLAN Stand alone network

Stand alone supervision over web browser

pCO Web card interface provides:
- Unit status with virtual information
- Room temperature/humidity
- Current set points for temp/humidity
- Mode of operation
- Current status for vital components such as compressors humidfiers, fan and reheat
- current active alarms
- Setpoint control for alarms

The pCO web card configuration interface provides limited access to control room temp/humidity a log with the ability to reset alarms

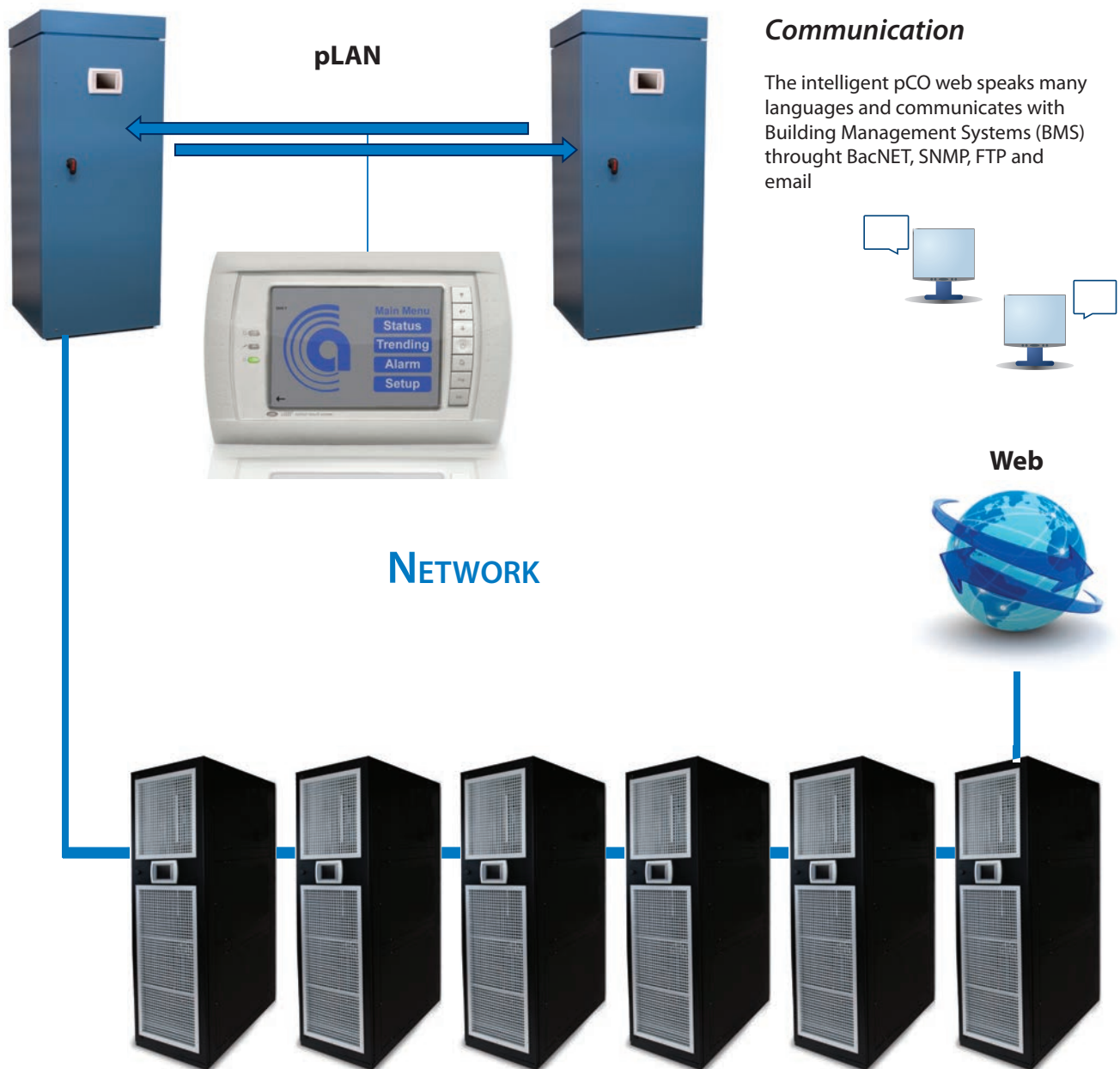NOTE: Critical alarms will require manual reset at the unit level.

pLAN Stand Alone Network

Programmable Local Area Network
Local and remote monitoring can be achieved with our advanced microcontroller. Based systems are used to provide standalone supervision and control over a pLAN network giving the flexibility of a BMS system at the fraction of the cost.

The p-LAN communication option allows two or more systems to talk to each other, p-LAN can be programmed for system rotation and for system failure over redundancy.

- Supports up to 16 units
- Lead/lag with multiple active & standby
- Unit rotation and auto changeover
- Alarm switchover to standby
- Assisted cooling
- Assisted heating
- Assisted humidification
- Dehumidification

pLAN

Communication

The intelligent pCO web speaks many languages and communicates with Building Management Systems (BMS) throught BacNET, SNMP, FTP and email

Web

NETWORK

System 2000 Chilled Water (CW)
Custom 70 ton chilled water system with free cooling
Outside air economizer with evaporator media
Motorized outside air dampers
Seismic structural frame and cabinet
Custom controls

"Compu-Aire Inc. offering flexible and reliable Air Conditioning Systems"

Compu-Aire Inc. is a specialty air conditioning design and manufacture company located in the greater Los Angeles area.

We have been providing quality equipment since 1980. We proudly offer products, which employ the latest "State of the Art" control and energy management technology, regardless of the size of your operation.

ISO 9001:2008 Certified Company

- Compu-Aire Inc. has a complete range of environmental products and systems to keep your computer or other appliances running at their best.
- Compu-Aire Inc. has expanded into a complete line of energy efficient, reliable air conditioners for use in virtually all applications.
- Compu-Aire Inc. products are designed specifically for precision applications and feature high reliability, efficient energy utilization and minimum maintenance.
- Compu-Aire Inc. family of air conditioners ranges from 1.5 to 70 tons, and includes a variety of types and styles.

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COMPU-AIRE INC.
Specialized Environmental Air Conditioning Systems

8167 Byron Rd. Whittier, CA 90606 Ph 562.945.8971 | Fax 562.696.0724

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