

Packaged

MAKE-UP AIR SYSTEMS

Comfort In All Climates

Comfortable Work Environments Increase your:

Productivity • Profitability

Employee Moral • Quality



*Low Capital Equipment Cost
Reduces Operating Expense
Most Reliable Performance*

*Blowers
Cooling Components
Heating Components*



800-421-1266

Evaporative Cooling

The time has come... again!

Evaporative cooling is widely recognized as being effective in geographic areas with low relative humidity. There is a general misperception that evaporative cooling isn't effective in more humid regions of the country. In reality there are a variety of highly effective uses for evaporative cooling in high humidity markets.

ARES Evaporatively Cooled Makeup Air Units provide:

- **A low cost... highly effective and operationally efficient cooling solution.**

Low capital equipment cost, maintenance cost and associated operational expense, when compared with typical compressor driven air conditioning systems, assure that *production areas which weren't financially feasible to cool before now are!* ARES units present the ideal cooling solution for: factories, warehouses, transportation terminals, manufacturing facilities, commercial kitchens, schools, dry cleaning, laundries and office buildings, etc.

- **Improved indoor air quality.**

Filtering and washing the incoming air significantly helps to minimize dirt, dust, fumes, allergens and pollens which immensely improves quality control and productivity. In addition, worker health and safety, employee absenteeism and turnover are reduced.

- **Actually lowered relative indoor humidity levels.**

By continuously replacing stagnant work environment air with fresh filtered cool air, ARES units prevent the buildup of humidity and are ideal in areas where humidity is introduced into the work environment air either due to climactic conditions or production processes, such as dry-cleaning/laundry operations.

- **Provide effective spot location relief cooling.**

It's ideal for cooling difficult hot spot areas such as within foundries, extrusion and die casting plants or commercial kitchens where a specific worker location presents unique and crucial cooling challenges.

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Cooling Compartment

- High Efficiency Evaporative
- Standard Evaporative
- Mechanical Coil

Blower Compartment

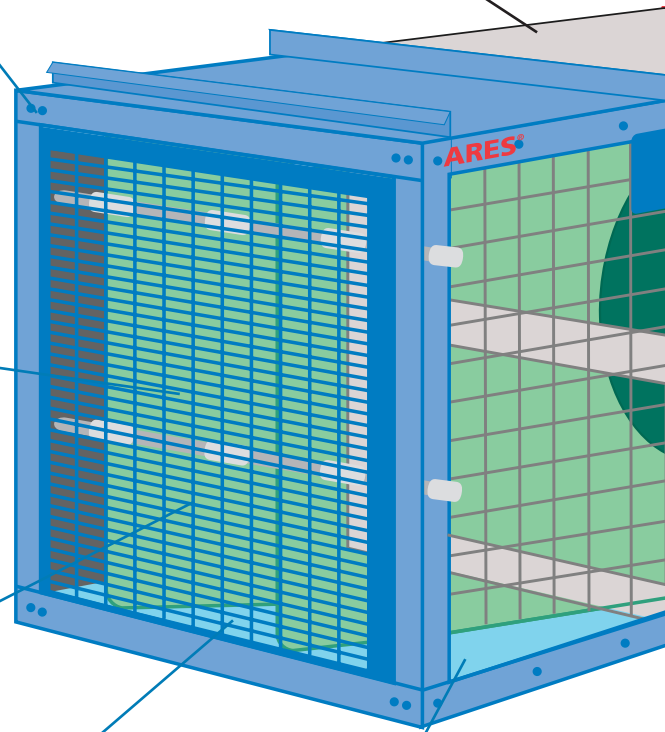
- Single or Dual Blowers

Simple, Fast and Easy to Replace Media

High Efficiency Media Effectively Absorbs and Dissipates Water

Stainless Steel Sump
12 Year Rust Through Warranty

No Pump or Float Valve Needed...
Less Maintenance



VENTILATION & COOLING COMPONENTS

BLOWERS



- Single blower performance to 10,000 CFM
- Dual blower performance to 16,000 CFM
- High Efficiency Motors
- Lifetime prelubricated stainless steel ball bearings
- Up to 3" static pressure
- Adjustable drive sheaves
- Low profile design
- 18 and 20 gauge galvanized cabinet
- Optional fresh air and return air
- Horizontal or vertical air discharge
- Two sizes in single blower cabinet
- 15" x 15" DWDI forward curve
- 18" x 18" DWDI forward curve
- One dual blower cabinet
- (2)15"x15" DWDI forward curve I Roof curb or platform mounted
- ETL certified

STANDARD EVAPORATIVE



- 2" Research Products "Cool Pad"
- 1,000 to 8,000 CFM
- Up to 80% efficient
- 3 - sided inlet louvers
- 12 year warranty on stainless steel sump
- Optional stainless steel cabinet with 12 year warranty
- ETL certified
- **OPTIONAL 12" MEDIA**
- Up to 82% efficient
- 1, 2 or 3 sided inlet openings
- 1,000 to 6,000 CFM (2,000/Panel)

HIGH EFFICIENCY EVAPORATIVE



- 1" poly media "Hobbs"
- Up to 90% efficient
- Up to 16,000 CFM
- No moving parts to wear out
- Efficient water consumption
- Uses 1/2 to 2/3 less water than competitive units
- Works off of line water pressure
- V-Bank configuration
- Solid state moisture control Patented system
- 12 year warranty on stainless steel sump
- Optional stainless steel cabinet with 12 year warranty
- ETL certified

MECHANICAL COILS

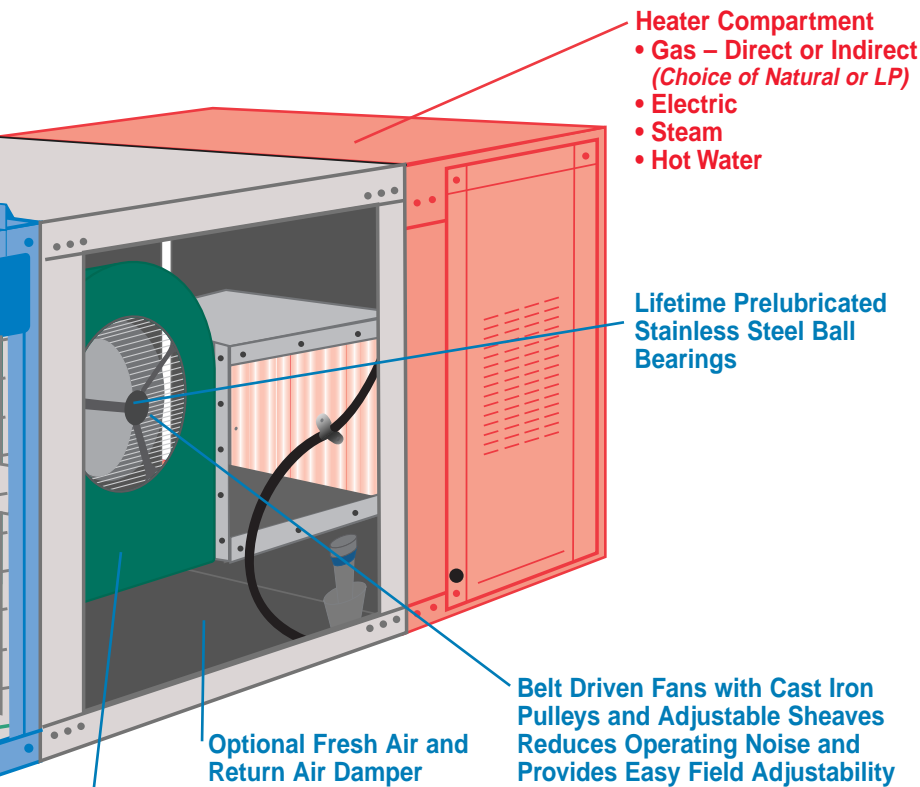


- DX and chilled water cooling
- Up to 6,000 CFM or 15 tons cooling
- Stainless steel pan
- Copper tube, aluminum fin coils
- ARI certified coils
- 12 year warranty on stainless steel pan

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ARES

AIR SYSTEMS



Suspended Blowers Reduces Vibration



...The best of all world's

When it comes to make-up air systems, **ARES** provides quality, cost-effective, energy efficient solutions for any work environment. They are perfect for a wide variety of applications such as: *warehouses and manufacturing plants, restaurants, commercial kitchens and office buildings.* Whether used as your primary cooling and heating system, to filter incoming air or to overcome a negative pressure condition, ARES is your best step toward creating a comfortable and productive work environment.

Ventilation, Cooling, Heating Units

ARES' comprehensive line of packaged make-up air products consists of *modular components* skillfully designed and crafted to work efficiently and effectively together. Consisting of three primary components, you now have the advantage of ordering each integral component to meet your specific building applications and geographic climate requirements. A combination of ARES components provide for year round employee comfort.

Design Specific Applications

Ares Packaged Make-Up Air Systems are designed as three integral component groups. They consist of Blower Units, Cooling Components and Heating Components. You simply select which ARES components your facility requires (Blowers, Cooling or Heating), then select the type and performance capacities required to meet your needs. Each of ARES component groups are available in a wide performance capability range.

In addition, you have many model configuration choices available to you:

- Blower Units are available in both single and dual configurations with up to 16,000 CFM
- *ARES Cooling Units include:* Standard Evaporative, High Efficiency Evaporative, Mechanical Coil and Chilled Water
- *ARES Heating Units include:* Indirect Gas, Direct Gas, Electronic, Hot Water and Steam
- ARES units are easily combined in multiple components for increased performance

Each ARES component is skillfully designed and manufactured to work perfectly with each other to create total year round comfort... economically! No matter what your specific requirements,

ARES manufactures a model that will meet your needs.

ARES®

AIR REPLACEMENT ENGINEERED SYSTEMS
A Division of Mars Air Products®

VENTILATION, COOLING AND HEATING SYSTEMS...

Fresh, Filtered Air – ARES Ventilation Blowers

Work environments where there is an efficient and effective source of clean, fresh air results in greater employee productivity, quality and ultimately profitability. Employee moral is improved and worker fatigue, safety and health issues are also improved significantly.

The first essential component utilized in providing effective make-up air is the Blower unit. ARES "Blowers" are designed to effectively, yet quietly move air, preventing the buildup of stagnant and stale air. They are ruggedly built for long lasting performance and are available in *single blower* configurations up to 10,000 CFM and *dual blower* configurations up to 16,000 CFM. Multiple blower units can be easily configured to achieve even greater replacement air performance should your needs require.

All ARES cabinets are manufactured from heavy duty 18 and 20 gauge galvanized G-90 steel to provide architectural appeal and years of trouble free service. *Optional custom painted cabinets are available.* Our blower units are designed as an integral component to your total replacement air system, or they can be a stand alone unit, affording you the greatest flexibility. The addition of an ARES Evaporative Cooling, Mechanical Cooling or Heating unit is the perfect compliment for providing relief from seasonal temperature changes and they measurably improve indoor air quality.

Why the ARES High Efficiency Evaporative Components are better!

There is a common misperception that *evaporative coolers* are "swamp" coolers... and in most cases, for good reason. Ordinary evaporative coolers function by flooding water over an evaporative media, then by blowing air through this media causing evaporation... which is a natural cooling process. All of the competing evaporative coolers need a sump with a bleed off, requiring pumps, float valves and excessive water consumption, thus maintenance becomes a frequent issue.

ARES has solved both of these problems. Our **High Efficiency Evaporative Cooling Units** utilize a patented process designed to minimize the amount of water used (*they typically use 1/2 to 2/3 less water than competitive models*)... The ARES system effectively sprays the air and media with an accurately controlled amount of water designed to optimize evaporation and use significantly less water consumption compared to any other unit on the market. In addition, the ARES unit eliminates any odor associated with stagnant water buildup within the sump as there is none!

Our patented design incorporates a special "*pre-misting*" chamber. Water is misted and therefore pre-cooled prior to entering the evaporative media. As the water is drawn through the media it is cooled further, lowering the effective temperature even more.

Sensors automatically control the *misted water* to assure it is evenly, accurately and consistently distributed over the evaporative media. It's always at the correct saturation level to assure the highest efficiency levels (*up to 90% efficient*). The ARES patented system adds the benefit of minimizing the amount of system water used... reducing operational costs.

14716 South Broadway • Gardena, CA 90248

800-421-1266

Phone: 310-532-1555 • Fax: 310-324-3030

Internet: www.marsair.com • Email: info@marsair.com

ARES®

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A Division of Mars Air Products®

**ARES
Units are
Better
because
they offer...**

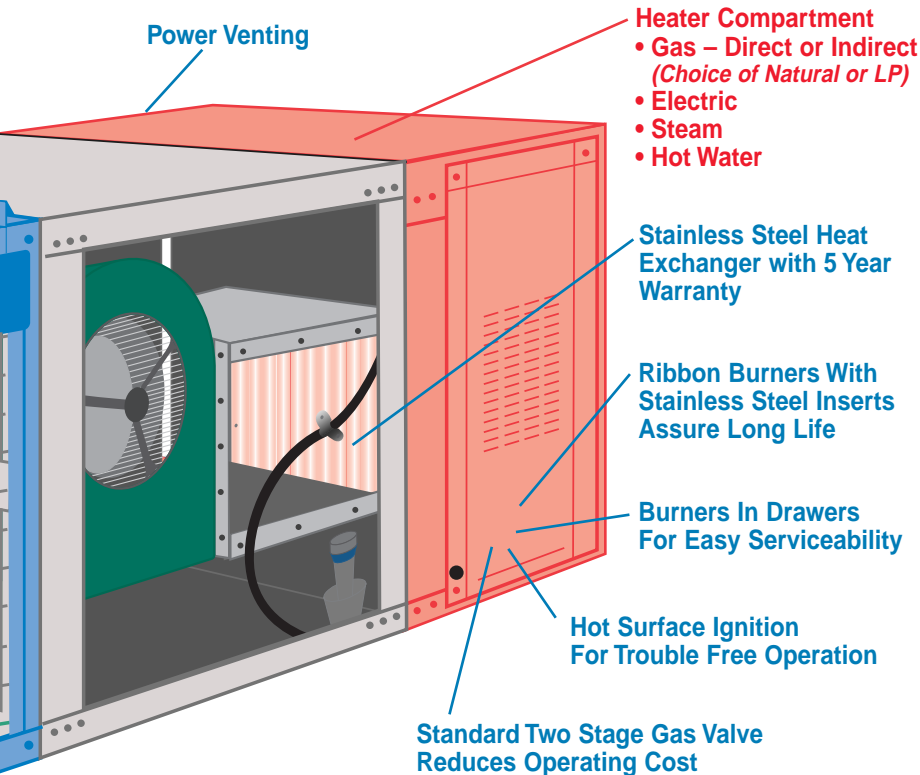
- **Standard 5 year warranty on stainless steel heat exchanger**
- **Standard two stage gas valves to lower operating costs**
- **Standard Power Venting**

**High
Efficiency
Evaporative
Cooling
Units Are...**

- **Up to 90% efficient**
- **Use 1/2 - 2/3 less water**
- **Offer standard 12 year warranty on stainless steel evaporative cooler sump**

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Heating Components

Most businesses and industrial operations that power exhaust air, face complex problems such as: loss of temperature control, negative pressure, excessive drafts and the infusion of dirt, allergens and insects. ARES heated make-up air systems replace exhaust air with clean, filtered, tempered air for all seasons. ARES system is designed to operate with minimum energy consumption, maximizing cost savings .

To provide truly year round comfort, ARES manufactures a comprehensive line of quality heating components, designed as an integral component of its total make-up air system.

Available are:

• Gas Heated Units

- Direct fired - (19,000 - 2,300,000 BTUs)
- Indirect fired - (175,000 through 1,200,000 BTUs)

ARES *indirect gas fired heat exchanger* units are manufactured from stainless steel and come with a 5 year guarantee... **the best guarantee in the industry.**

- **Hydronic Units** (Please consult factory for correct sizing)
Hot Water or Steam

- **Electrically Heated Units** - (from 10 to 120KW)

All ARES Heated Make-up Air Units are quality designed and ruggedly built using durable industrial duty components. The cabinets are manufactured from Galvanized G-90 steel, utilizing 18 and 20 gauge materials. To reduce vibration and noise, and to assure years of trouble free dependability, motors are suspension mounted and are designed with lifetime, prelubricated stainless steel ball bearings.

Depending on specific model chosen, heating capacities range from 19,000 BTUs to 2,300,000 BTUs.

HEATING COMPONENTS

INDIRECT GAS



- 175,000 through 1,200,000 BTUs
- 1,200 to 16,000 CFM
- 2 stage temperature control standard
- Optional single stage and full electronic modulation (up to 1,200,000 BTU)
- 0" bottom clearance to combustible
- 5-year heat exchanger warranty
- 400 series, 20 gauge stainless steel heat exchanger standard
- Power venting standard
- Natural or LP gas
- Hot surface ignition
- AGA and CGA approved combustible

DIRECT GAS



- 19,000 to 2,300,000 BTUs
- 900 to 22,000 CFM
- Maxon® burner
- Maxitrol® controls
- Draw through configuration
- FM and IRI controls available
- 30 to 1 turn down modulation
- Up to 90% efficient evaporative cooling capabilities
- UL and CUL listed unit

ELECTRIC



- 10-120KW
- 1,200 - 16,000 CFM
- Nickel/chromium elements
- 1-5 step controllers
- ETL certified

HYDRONIC



- 1,000 to 8,000 CFM
- Hot Water Units
- Steam Units
- Copper tube, aluminum fin coils standard
- Specialty coils optional
- ARI certified coils

ARES® "Your Environmental Workplace Comfort Expert"

Packaged Make-up Air Systems... designed to work effectively together!

ARES was established in 1967 as a premier manufacturer of high quality packaged make-up air systems. All ARES units are designed to provide the efficiency and flexibility of combining ventilation, cooling and heating equipment in a convenient indoor or outdoor unit assembly.

Whether your needs are for a standard model or require a custom design, you'll always receive precision, quality manufactured products, supported by responsive, knowledgeable customer service support and one of the industry's most extensive warranties. In 1997, ARES was acquired by Mars® Sales Company, manufacturers of internationally famed "Mars® Air Doors" brand of air curtains. The combination of the ARES make-up air systems blended with Mars Air Doors truly assures you will always have... "An Air of Quality".

Design Specific Applications - What Does It Mean?

ARES Packaged Make-up Air Units are designed to meet your unique facility needs. The three primary functions of the ARES Packaged Make-up Air Systems include: *ventilation, cooling and heating*. Regardless of application, ARES Packaged Systems are available in a wide performance and capability range.

They offer you the ability to *custom design* your system to match your specific building requirements... without paying for custom manufacturing!

Flexibility, Performance and Economy

You configure your system with exactly the components you require. For example: in warmer climates you may require ARES ventilation and/or cooling units. In cooler climates you may need to add an ARES heating unit. In cold climates you may only require a ventilation and a heating unit.

Evaporative Cooling and more

Evaporative cooling provides an effective and economical means for providing work place comfort. There are certain geographic locations where mechanical cooling may still be required during some peak cooling periods. The problem... mechanical cooling is operationally expensive. ARES Packaged Make-up Air Systems provide an effective solution... by utilizing a combination of an ARES evaporative cooling unit with an Ares mechanical cooling coil, you can now provide effective comfort while maintaining economical operational costs.

System flexibility to meet your needs

ARES Cooling Components are available in: **Standard Evaporative, High Efficiency Evaporative, Chilled Water and Mechanical Coils.**

Heating Units are available in: **Gas – Direct Fired and Indirect Fired, Electric, Hot Water and Steam.**

Multiple combinations of heating and cooling components allow for greater flexibility, performance and maximum economy. With ARES, you have the option to choose which component types best suit your requirements. They are all designed to work perfectly together.

HIGH EFFICIENCY EVAPORATIVE COOLING	BLOWER VENTILATION
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BLOWER VENTILATION	INDIRECT FIRED GAS HEAT
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HIGH EFFICIENCY EVAPORATIVE COOLING	BLOWER VENTILATION	MECHANICAL OR CHILLED WATER COIL COOLING
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HIGH EFFICIENCY EVAPORATIVE COOLING	DIRECT FIRED GAS HEAT	BLOWER VENTILATION
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HIGH EFFICIENCY EVAPORATIVE COOLING	BLOWER VENTILATION	ELECTRIC RESISTANCE HEAT
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HIGH EFFICIENCY EVAPORATIVE COOLING	BLOWER VENTILATION	HOT WATER OR STEAM COIL HEAT
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Warranty Information: All ARES products are made using the best materials and components available. They are crafted by highly skilled, experienced tradespeople using the most proven manufacturing techniques, equipment and facilities. Our products must pass stringent quality control standards before shipment. You'll find that ARES products are more durable, last longer, look and perform better. ARES products carry a 12 month warranty on all parts.

Association Approvals: ARES products meet the stringent listing or approval requirements of many organizations such as UL, CUL, AGA, CGA, ETL and ARI. The specifics vary depending on the model, options installed or application usage.



Since 1967

Phone: 310-532-1555
 Fax: 310-324-3030
 Internet: www.marsair.com
 Email: info@marsair.com

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 A Division of Mars Air Products®
 14716 South Broadway
 Gardena, CA 90248
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At ARES we are sensitive to the wants and needs of our customers. Therefore we reserve the right to make improvements and changes to specifications without notice.