ARES
AIR REPLACEMENT ENGINEERED SYSTEMS

PACKAGED MAKE-UP AIR SYSTEMS

Modular Configurations

COOLING HEATING VENTILATION

THE ARES
ADVANTAGE

ARES has been providing high-quality packaged air systems for over 45 years. Our dedicated team works hard to uphold the ARES name through conscientious workmanship and responsive service; and our manufacturing facility allows us to remain solid, innovative and highly proactive for our customers.

It's our aim to provide a product that our customers have confidence in. The kind of confidence that's backed by decades of extensive knowledge, proven performance, and one of the best warranties in the industry. We wouldn't have it any other way.

WHAT WE OFFER

- Modular designs for flexible configurations
- Experienced customer service team
- Comprehensive support literature
- Detailed product information
- Knowledgeable product team

COMMON USES

- INDOOR GYMS/RECREATION AREAS
- FACTORIES/WAREHOUSES
- DRY CLEANERS/LAUNDROMAT
- COMMERCIAL KITCHENS

ARES ENGINEERED SYSTEMS

AIR REPLACEMENT

EFFICIENT.
MODULAR.
COMFORTABLE.

ARES packaged Make-Up Air Systems are specifically designed to fit your facility to condition the air lost due to production or uses in your space. Our make-up air systems provide for your unique objectives to make for a more comfortable and productive work environment. Through the modular component concept, a system can be configured to meet your need for ventilation and cooling properties in warmer climates, for heating in colder climates or as needed for your workplace environment requires. ARES offers proven solutions in a variety of performance and capability ranges.

How does ARES combine the best of both worlds? We do it through strategic modular combinations that provide optimum results. For instance, some geographic locations may require mechanical cooling, which can be operationally expensive. Through ARES' modular packaged system, we can provide the combination of an evaporative cooling unit with a mechanical cooling coil, offering worker comfort and saving you money. With this system, you can take advantage of evaporative cooling when the climate is mild. As the temperature climbs, DX cooling will provide more comfort on hot, humid days. ARES offers many different combinations to address your unique requests.

We invite you to review our environmental workplace products and discover how they can be adapted in modular form for greater flexibility, performance and maximum economy.

QUALITY YOU
CAN TRUST

ARES Make-Up Air System gives you of the most efficient and cost-effective way to cool or heat your facility. Our systems are installed across all types of commercial and industrial environments, and their long history of hassle-free operation is a testament to the highly detailed nature of our quality control process.

As modular systems, these advanced products provide a custom-like solution designed specifically to your needs. Famous for our personal attention, we sit down with you to discuss your unique requirements, then create a system that provides years of efficient, low-maintenance service.

ARES is proud to have a long list of loyal, satisfied customers and we look forward to demonstrating the quality of our work to you.

Many indoor commercial facilities can benefit from clean, fresh Make-up Air to relieve air starvation. Whether to replenish exhausted air or to meet ventilation code requirements, Make-up air systems help to improve comfort levels, save energy, reduce infiltration and assist remove unwanted air.

Even in the best of situations clean, fresh Make-Up Air can provide an advantage as in the case of providing a fresh air source when outside temperatures are favorable or to spot cool or heat temperature-sensitive areas, even though no air is being exhausted.

COOLING
EFFICIENTLY

- Ensures comfortable working environment
- Improves employee morale
- Lowers operational costs

IMPROVING
AIR QUALITY

Improve employee comfort, indoor air quality and equipment conditions with efficient ARES ventilation blowers. Durable, quality-built ARES ventilation units quietly and effectively move cool air to ventilate buildings. For long-lasting, dependable operation, select from a variety of ventilation solutions, including blower units up to 24,000 CFM .

Efficient motors are suitable for evaporative cooling and VFD compatible motors with adjustable motor mounts for proper belt tensioning. The cabinets are manufactured from 18 and 20 gauge galvanized G-90 steel which combines an attractive appearance and the strength of a reliable unit. Stainless steel option is available to offer custom quality features for replacement or applications which need the protection, such as coastal environments.

SE STANDARD EFFICIENCY

- 2" Ridged cross fluted Media
- Blower able to supply 1,000 to 8,000 CFM at up to 3" ESP
- Up to 75% efficient
- 3 sided Inlet Louvers
- 12 year warranty on stainless steel sump
- ETL certified

OPTIONAL

- SS Cabinet with 12 year warranty
- Auto or Manual fill and drain kits for freeze protection
- Roof curb

ARES ADVANTAGES

- Blower performance to 24,000 CFM
- High-efficiency motors
- Maintenance free blowers bearings
- Adjustable drive sheaves
- Horizontal or vertical air discharge
- ETL certified
- Large suspended blowers
- 1" disposable filters
- AMCA tested to Publication 211
- ETL certified

OPTIONAL

- Starter control panels
- Low-leak dampers
- 20 or 30% filters
- Permanent cleanable filters

EVAPORATIVE **COOLING**

Evaporative coolers use the latent heat of evaporation to cool air as the temperature differs between “dry bulb” and “wet bulb”; meaning the greater the difference, the greater cooling opportunity. Our commercial evaporative coolers offer more efficiency than refrigerant and compressor-based cooling systems, and use little water because of the media we use. They can also be used as a cost-saving investment in facilities that don’t use refrigerants by lowering peak demand and reducing utility use. What’s more, evaporative coolers are suited for a range of conditions from hot and humid, to cold and dry.

DRY CLIMATES

Installing and operating an evaporative cooler in dry climates may create cost savings up to 80% when compared to direct expansion (DX) or chilled water air conditioning, and some evaporative cooling models can also be used to humidify the air during heating season.

MODERATELY HUMID CLIMATES

Uses for evaporative coolers where humidity is moderate range from industrial plants, commercial kitchens, food processing plants, laundry mats, large retail facilities, dry cleaners, and greenhouses. These units can also be used for spot cooling in kitchens, garages, loading docks, warehouses, factories, construction sites, gyms, workshops, and kennels. Confinement farming such as poultry, hog, and dairy ranches often use evaporative cooling, as well.

HIGHLY HUMID CLIMATES

While it likely won’t create a drastic to change thermal conditions, evaporative cooling in high humidity climates can provide increased ventilation and air movement in the right environment.

CEV HIGH EFFICIENCY

- 12” Ridged cross fluted CELdek® Media by Munters®
- 1000 to 24,000 CFM range
- Up to 84% efficient
- Standalone duct cooler
- Large single inlet louver
- 2” Inlet T/A Pre filters
- 304 stainless steel cabinet
- 12 year warranty for stainless steel cabinet
- Easy access doors with recessed handles on both sides of the unit

OPTIONAL

- Blower cabinets deliver up to 24,000 CFM
- Auto or manual fill and drain kits for freeze protection
- GLASdek® media by Munters® – Fire Rated UL 900, Class II

INDIRECT **GAS-FIRED UNITS**

ARES Indirect Gas-Fired Heating Units offer comfortable temperatures in a wide range of weather, with the dependability of quality-built, equipment. The modularity of these heating units, combined with an array of airflow and temperature options, provide a heating and ventilation solution for many building types and workplace environments.

Made of insulated double wall, stainless steel heat exchanger construction with a 5-year warranty and a dependable hot surface ignition system. ARES indirect gas-fired units also provide you with easy access to burner controls.

ARES ADVANTAGES

- Stainless steel heat exchanger construction
- 1,200 to 14,800 CFM performance
- Two-Stage temperature control
- Reliable hot surface ignition
- 5 Year Warranty
- 18 & 20 gage G-90 galvanized cabinet
- Heavy gage unit support rails for easy mounting on slab or curb rails

OPTIONAL

- Modulating gas controls
- Stainless steel cabinets
- Inlet on/off and freeze protection duct-stat

OPTIONS & ACCESSORIES

- Remote Control Panel — A remote control panel with off-cool-vent-heat switch and indicating lights, also available with return air switch or potentiometer, motor speed switch and modulating gas valve control.
- Electronic Modulating Valve — This gas valve option contains a proportional discharge temperature control with a sensing bulb mounted in the discharge of the unit for duct sensing or a space stat for space sensing. The purpose of this modulating valve is to allow from 40% to 100% of full rated gas input.
- Interface Control Panel — Use with one or two units, and one or more exhaust fans. All units will stop and start simultaneously from one remote control panel, providing interlock of the MUA units and the exhaust fans to comply with codes or special system engineered needs. Interface control panels also contain starters and circuit protection for all motors as required by the NEC. (Furnish motor HP, voltage and phase.) Suitable for indoor and outdoor use (NEMA 4x box).
- Mild Weather Lockout — An on/off type duct stat automatically de-energizes the gas system and interrupts the flow of gas to the burners when the inlet air temperature is above the desired setting.
- 115 Volt Service Receptacle — A 115 volt GFCI outlet is mounted externally in a NEMA 3x box for the convenience of field service personnel. A separate 115 volt power source is required.
- Freeze Stat — Discharge duct stat (with a timer) prevents the unit from discharging potential freezing air into the building when the furnace(s) is not providing adequate heating.
- Fill and Drain Kit (Manual or Auto) — Manual kit provides filling and draining of the evaporative cooling sump by switching the remote switch from cooling to heating or vent. Auto kit provides auto filling and draining of the evaporative cooling sump by monitoring the outdoor temperature and selecting cooling on the remote control. This is freeze protection for the evaporative cooling section.
- Exhaust Fan Interlock and Starter(s) — Relay to energize an exhaust fan system up to 4 exhaust fan starters may be added to the control center, and up to 3 relays per unit.
- Rainhood — With 1" throw away filters or optional permanent cleanable filters. Is required when there is a single inlet (example inlet or mixing dampers with no evaporative cooling).
- Down Discharge Plenum — When requiring down discharge on the unit, it is insulated with 1", 1 1/2 lbs. matte-faced insulation.
- Flat Bank Filter Section — This is the filter section when the unit is installed indoors and a need for filtered air is required. 2" permanent cleanable aluminum mesh as standard, 2" throwaway filters are available as an option.
- Dampers — Fresh air and return air dampers allow unit to vary from 100% outside air to 100% indoor air, or any combination thereof. Also motorized intake, or discharge and backdraft dampers are available. Intake dampers are factory mounted and wired.
- Roof Curbs — Factory roof curbs are available to ensure harmonious fit between make-up air unit and roof curb. Standard construction is G-90 galvanized steel.

ARES DUCT FURNACES MEET THE REQUIREMENTS FOR ANSI Z83.8B-2004 / CSA2.6B-2004

YOUR ARES REPRESENTATIVE

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