

ARES[®]

AIR REPLACEMENT ENGINEERED SYSTEMS
a division of Spec-Air Systems



HEATING

VENTILATION

COOLING



Packaged Make-Up Air Systems
Design Specific MODULAR COMPONENTS

800-288-0892 • www.specair.net

The Best of All Worlds...

Efficient Modular Design, Affordable Comfort



HEATING

VENTILATION

COOLING

ARES packaged Make-Up Air Systems are specifically designed to fit your facility and your unique objectives for a more comfortable and productive work environment. Through the modular component concept, you can order your own custom-like system for a fraction of custom prices. Whether your need is for ventilation and cooling properties in warmer climates, for heating in colder climates or whatever 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



A Make-Up Air System from ARES assures you of the most efficient and cost-effective way to cool or heat your facility. Our installations can be found in virtually all types of commercial and industrial environments. Their long history of hassle-free operation attests 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...without the normally high cost of custom work. 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.

ARES Advantages

- Quality products at competitive prices
- Highly trained customer service staff
- Loyal distributor base
- Convenient website with detailed product information
- Modular designs for flexible, custom-style performance
- Friendly, knowledgeable product team
- Excellent delivery turn-around
- Comprehensive spec sheets and CAD drawings

All indoor commercial facilities can benefit from clean, fresh Make-up Air...an outdoor air supply brought indoors to relieve air starvation...either to replenish exhausted air or to meet building code requirements. Make-up air systems help to improve comfort levels, save energy costs, prevent wall leaks, roof leaks and corrosion, as well as remove fumes, odors and even insects.

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.

What makes ARES Make-Up Air Systems so integral to your facility is not only the quality of the factory-tested equipment and the process, but also the modularity of the system to meet your specific workplace situation. By creating an environment that provides proper air flow, these modular components help to eliminate health hazards, enhance worker productivity and reduce your all-important heating and cooling costs.

In the following pages, you can review the various types of units provided by ARES. We would be happy to discuss the best possible solution for you, whether it involves one or a combination of air flow units. And remember, ARES Make-Up Air products include a 5-year heat exchanger and 12-year stainless steel evaporative cooler components warranty...the best guarantee in the industry!



Blower Modules

Lowering Humidity, Raising Productivity & Increasing Air Quality



Providing Ventilation

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

Lower your capital equipment costs, reduce employee absenteeism, improve indoor air quality and provide a more comfortable, productive working environment with ARES ventilation blowers. Durable, quality-built ARES ventilation units quietly and effectively work to prevent stagnant and stale air buildup. For long-lasting, dependable operation, select from a variety of ventilation solutions, including single blower units up to

10,000 CFM and dual blower configurations to 24,000 CFM. Should your replacement air requirements demand even more, we can reconfigure the dual blower to fully meet your additional needs.

The moisture-resistant ODP, TEFC, Super "E", 2-Speed and VFD suitable motors and adjustable motor mounts for proper belt tension help to keep the unit running at optimum performance. *And just how tough are the ARES heavy-duty cabinets?* Well, they're manufactured from 18 and 20 gauge galvanized G-90 steel that combines an attractive appearance and the strength of a reliable workhorse. We even offer optional custom painted or stainless steel cabinets. For true flexibility, the ARES ventilation system is designed as an integral component to your total replacement air system or as a stand-alone unit.

ARES Advantages

- Flexibility to meet wide range of requirements
- Blower performance to 24,000 CFM
- High-efficiency motor for longer lasting performance
- Lifetime pre-lubricated stainless steel ball bearings on blowers for extra reliability
- Adjustable drive sheaves
- Horizontal or vertical air discharge
- Attractive low-profile design
- ETL certified
- Large suspended blowers
- 1" disposable filters
- AMCA tested to Publication 211

Options

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

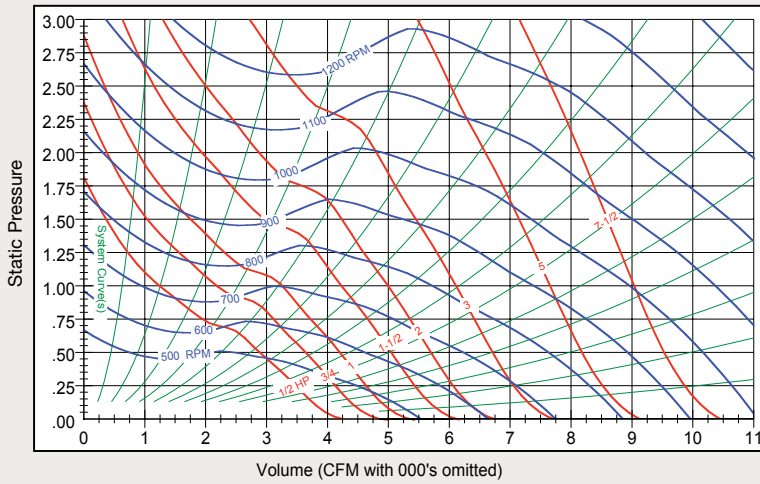


Dampers

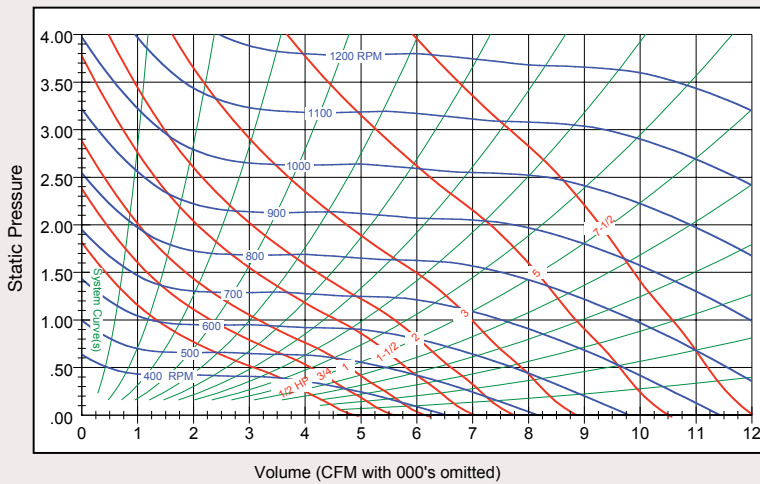


Air Flow Charts

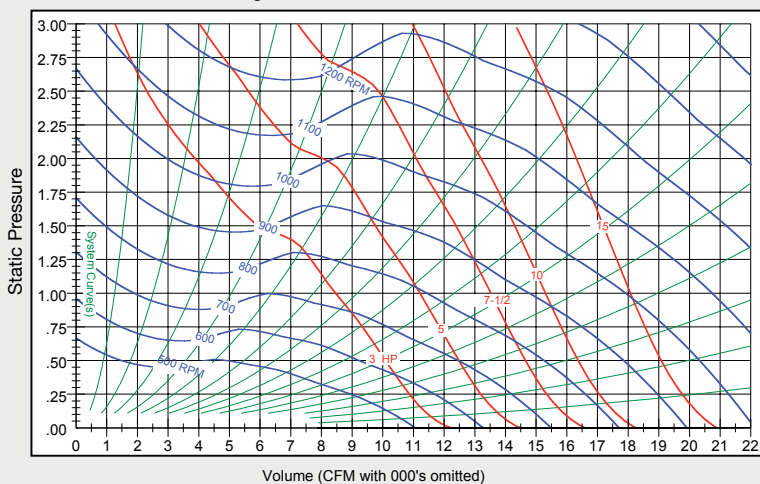
SC-1/SC-1 Blower Curve*



SC-2/SE-1 Blower Curve*



DLB-2 Blower Only Curve*/**



***Please add additional static for options if necessary**

- Flat Bank Filter = 0.15"
- Rain Hood = 0.25"
- CEV Evap Cooler = 0.25"
- Inlet Damper = 0.13"
- Return Air = 0.26"
- Discharge Damper = 0.15"
- Discharge Plenum = 0.25"

Curve is blower only; refer to furnace pressure drop curves for furnace static pressure:

****Motor must be 3 horsepower or larger (6000 CFM and up)**

Evaporative and DX Cooling

The Freshest Idea in Cooling



General Information

Our, “Modular Custom,” designs include heating, cooling and blower sections. ARES offers a complete line of make-up air cooling options that include evaporative cooling, DX, and chilled water coil modules. Common applications for these cooling sections are for any situation that would require large amounts of outside air to be cooled for comfort purposes. Some codes require up to 100% outside air, particularly in kitchens, hospitals and schools. Many

engineers design to the ASHRAE Standard 62-1989 “Ventilation for Acceptable Indoor Air Quality,” which requires large amounts of fresh, outside air.

Evaporative

Evaporative cooling is well suited for climates where the air is hot and humidity is low. The western mountain regions of the United States are locations where evaporative cooling is a necessity, and is very common in cities like Denver, Salt Lake City, Albuquerque, and Phoenix, where sufficient water is available. In dry climates, the installation and operating cost of an evaporative cooler can be much lower than DX or chilled water air conditioning, often up to 80%. Some evaporative coolers may also serve as humidifiers in the heating season.

In moderate humidity locations, there are also many uses for evaporative cooling. Applications include: industrial plants, commercial kitchens and food processing plants, laundry mats, large retail facilities, dry cleaners, and greenhouses. Also, these units can be used for spot cooling in kitchens, garages, loading docks, warehouses,

factories, construction sites, gyms, workshops, and kennels. In addition, confinement farming such as poultry, hog, and dairy ranches, often use evaporative cooling. Even in high humidity climates, evaporative cooling provides increased ventilation and air movement, although it may not drastically change thermal conditions.





ARES Commercial Evaporative Coolers are more efficient and use far less water than their “swamp cooler” predecessors. In hot, dry climates they provide significant energy savings over even the best compressor-based cooling systems. In addition, ARES Evaporative Coolers offer cost-competitive prices, do not use refrigerants, and lower peak demand on the electrical grid. Evaporative coolers use the latent heat of evaporation to cool air in areas of low-humidity. The difference between the “dry bulb” and the “wet bulb” temperature indicates how much cooling is possible (with 100% humidity, the dry- and wet-bulb temperatures are the same).

SE Standard Efficiency

- 2" Ridged cross fluted Media by Glacier-Cor®
- 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

CEV High Efficiency

- Stand alone duct cooler
- 12" Ridged cross fluted CELdek® Media by Munters®
- 1000 to 24,000 CFM range
- Up to 98% efficient
- Large single inlet louver
- 2" Inlet T/A Pre filters
- 304 stainless steel cabinet
- 12 year warranty on the stainless steel cabinet

- Easy access doors with recessed handles on both sides of the unit

Optional

- Blower cabinets that can 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



Mechanical Cooling Coils

When evaporative cooling is not an option, ARES is able to provide mechanical cooling coil sections (DX and Chilled Water). Mechanical cooling is used in air handling systems to cool and dehumidify an air stream for comfort purposes. To reduce the cooling load on buildings, most applications require recirculation of a large amount of the building space. Usually recirculation air is 70 to 80%. The rest comes as fresh outside air. Some codes

may require up to 100% fresh outside air; this is common in schools and hospitals. The outside air requirement is to meet the ASHRAE Standard 62-1989 “Ventilation for Acceptable Indoor Air Quality.”

- DX and Chilled water coils
- Up to 6,000 CFM or 15 Tons of cooling
- Stainless steel drain pan
- 12 year warranty on stainless steel pan
- Copper tube, aluminum fin coils
- ARI certified coils
- Custom designed for every application

Optional

- Dual circuited
- Insulated coil cabinet

Indirect Gas-Fired Units

A Complete Heat Solution



ARES Indirect Gas-Fired Heating Units assure you of comfortable temperatures in any kind of weather, with dependability that can only come from a company known for its quality-built, tested and proven equipment. The modularity of these heating units, combined with their many airflow and temperature options, provide a heating and ventilation solution for every office, factory or other workplace environment.

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

controls. Only premium grade components have been selected for the unit's control center, and the fan and motor assembly is specially mounted to minimize vibration and noise.

Every unit can utilize natural or LP gas, creating a heating system that is not only a consistent performer, but also one that is easy to run and flexible enough to handle a variety of environmental conditions.

Providing Indirect Heated Air

- Clean, tempered and filtered air for all seasons
- Minimum energy consumption, maximum cost savings

ARES Advantages

- Durable stainless steel heat exchanger construction
- 1,200 to 14,800 CFM performance
- Two-Stage temperature control
- Reliable hot surface ignition
- Use for Natural or LP gas
- A 5 Year Warranty...the best in the industry
- 18 & 20 gage G-90 galvanized cabinet
- Heavy gage unit support rails for easy mounting on slab or curb rails.



Options

- Modulating gas controls
- Painted or stainless steel cabinets
- Inlet on/off and freeze protection duct-stat



ARES[®]
AIR REPLACEMENT ENGINEERED SYSTEMS

ARES Indirect Fired Systems

Unit Model

| Unit Model | Horsepower | | | | | | | | | | | |
|--|--------------------------|------|-----|------|------|------|-----|------|-----|------|-----|-----|
| | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 |
| 175 MBTUH INPUT / 140 MBTUH OUTPUT SC-1 | External Static Pressure | | | | | | | | | | | |
| Delta T | Input/Output MBTUHs | | | | | | | | | | | |
| 20.AT | 5 | 5 | 5 | 5 | 5 | 5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 30.AT | 1.5 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40.AT | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50.AT | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 60.AT | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 70.AT | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 80.AT | 0.5 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 90.AT | 0.5 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 100.AT | 0.5 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |

| 200 MBTUH INPUT / 160 MBTUH OUTPUT SC-1 | | | | | | | | | | | | |
|--|-------|-------|-----|-----|------|---|-----|-----|-----|-----|-----|-----|
| Delta T | 5 | 5 | 5 | 5 | 5 | 5 | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 7.73 | 4.915 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 30.AT | 4.915 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 40.AT | 3.696 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50.AT | 2.949 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 60.AT | 2.457 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 70.AT | 2.105 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 80.AT | 1.843 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 90.AT | 1.637 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 100.AT | 1.474 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |

| 225 MBTUH INPUT / 180 MBTUH OUTPUT SC-1 | | | | | | | | | | | | |
|--|-------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| Delta T | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 5.529 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 30.AT | 4.147 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 40.AT | 3.317 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50.AT | 2.754 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 60.AT | 2.269 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 70.AT | 2.072 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 80.AT | 1.843 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 90.AT | 1.637 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |
| 100.AT | 1.474 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 2 |

| 300 MBTUH INPUT / 240 MBTUH OUTPUT SC-2 DLB-2 | | | | | | | | | | | | |
|--|--------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | 11.059 | 7.5 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20.AT | 7.373 | 5 | 5 | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30.AT | 5.529 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40.AT | 4.423 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50.AT | 3.696 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 60.AT | 3.119 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 70.AT | 2.784 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 80.AT | 2.457 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 90.AT | 2.111 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 100.AT | 1.843 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |

| 350 MBTUH INPUT / 280 MBTUH OUTPUT SC-2 350-DLB2 | | | | | | | | | | | | |
|---|--------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | 12.903 | 10 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20.AT | 8.601 | 5 | 5 | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30.AT | 6.451 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40.AT | 5.161 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50.AT | 4.000 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 60.AT | 3.696 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 70.AT | 3.225 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 80.AT | 2.867 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 90.AT | 2.590 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 100.AT | 2.323 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |

| 400 MBTUH INPUT / 320 MBTUH OUTPUT SC-2 400-DLB2 | | | | | | | | | | | | |
|---|--------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | 14.746 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20.AT | 9.830 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30.AT | 7.373 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 40.AT | 5.888 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50.AT | 4.915 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 60.AT | 4.212 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 70.AT | 3.696 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 80.AT | 3.276 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 90.AT | 2.949 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 100.AT | 2.622 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |

Unit Model

| Unit Model | Horsepower | | | | | | | | | | |
|------------|------------|------|-----|------|---|------|-----|------|---|------|-----|
| | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 |

| 600 MBTUH INPUT / 480 MBTUH OUTPUT SC-2 600-DLB2 | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 7.5 | 7.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 30.AT | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 40.AT | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 50.AT | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 60.AT | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 70.AT | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80.AT | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90.AT | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100.AT | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

| 700 MBTUH INPUT / 560 MBTUH OUTPUT SC-2 700-DLB2 | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 30.AT | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 40.AT | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 50.AT | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 60.AT | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 70.AT | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 80.AT | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 90.AT | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 100.AT | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |

| 800 MBTUH INPUT / 640 MBTUH OUTPUT SC-2 800-DLB2 | | | | | | | | | | | | |
|---|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 11.937 | 7.5 | 7.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 30.AT | 8.425 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 40.AT | 6.553 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 50.AT | 5.588 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| 900 MBTUH INPUT / 720 MBTUH OUTPUT SC-2 900-DLB2 | | | | | | | | | | | | |
|---|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 13.271 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 30.AT | 9.479 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 40.AT | 7.373 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 50.AT | 6.284 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 60.AT | 5.588 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 70.AT | 5.588 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 80.AT | 5.588 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 90.AT | 5.588 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 100.AT | 5.588 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| 1050 MBTUH INPUT / 840 MBTUH OUTPUT SC-2 1050-DLB2 | | | | | | | | | | | | |
|---|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Delta T | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20.AT | 14.746 | 10 | 10 | 10 | 10 | 1 | | | | | | |

Electric Heated Units

Moving with the Current



ARES offers electric heating equipment that reflects our commitment to quality and our adherence to all UL and other industry standards. We provide flexible modular designs with a choice of blowers and control options that ensure well-dispersed heat and cost-efficient operation. ARES electric heating components deliver dependable performance that tempers make-up air for installations in need of constant air change. They are also effective for space heating, door heating, ventilation, and cooling. These versatile systems can be used in either indoor or outdoor applications. Prime candidates include commercial kitchens, factories and a variety of similar commercial and industrial sites.

Providing Electrical Heating

ARES Advantages

- UL Listed parts and assembly
- Thermostatic duct controls from 1 – 5 stages
- 80% Nickel 20% Chromium wire elements
- 18 & 20 gage G-90 galvanized cabinet
- Heavy gage unit support rails for easy mounting on slab or curb rails.
- High temperature limit virtually eliminates overheating

Options

- SCR controls
- Painted or stainless steel cabinets
- Inlet on-off and freeze protection duct-stat
- Override
- Duct-stat/room-stat control for SCR



ARES[®]
AIR REPLACEMENT ENGINEERED SYSTEMS

ARES Electric Systems

| Unit Model | | Horsepower | | External Static Pressure | | Horsepower | | External Static Pressure | |
|--|-------|------------|------|--------------------------|------|------------|-----|--------------------------|-----|
| 10 kW SC-1 | | | | | | | | | |
| Delta T | CFM | 0.5 | 0.5 | 0.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 20 ΔT | 1573 | 0.5 | 0.5 | 0.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 30 ΔT | 1048 | 0.5 | 0.5 | 0.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 40 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 50 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 60 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 70 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 80 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 90 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 100 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20 kW SC-1 | | | | | | | | | |
| Delta T | CFM | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 5 |
| 20 ΔT | 3147 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 5 |
| 30 ΔT | 2097 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 5 |
| 40 ΔT | 1573 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 50 ΔT | 1258 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 60 ΔT | 1048 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 70 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 80 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 90 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 100 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 30 kW SC-1 | | | | | | | | | |
| Delta T | CFM | 1 | 1.5 | 1.5 | 2 | 3 | 3 | 5 | 5 |
| 20 ΔT | 4720 | 1 | 1.5 | 1.5 | 2 | 3 | 3 | 5 | 5 |
| 30 ΔT | 3147 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 5 |
| 40 ΔT | 2360 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 50 ΔT | 1888 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 60 ΔT | 1573 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 70 ΔT | 1348 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 80 ΔT | 1179 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 90 ΔT | 1048 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 100 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 40 kW SC-1 | | | | | | | | | |
| Delta T | CFM | 1 | 1.5 | 1.5 | 2 | 3 | 5 | 5 | 5 |
| 20 ΔT | 4720 | 1 | 1.5 | 1.5 | 2 | 3 | 5 | 5 | 5 |
| 30 ΔT | 3147 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 3 |
| 40 ΔT | 2360 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 50 ΔT | 1888 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 60 ΔT | 1573 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 70 ΔT | 1348 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 80 ΔT | 1179 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 90 ΔT | 1048 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 100 ΔT | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 50 kW SC-1 | | | | | | | | | |
| Delta T | CFM | 3 | 3 | 3 | 5 | 5 | 5 | 7.5 | 7.5 |
| 20 ΔT | 6294 | 3 | 3 | 3 | 5 | 5 | 5 | 7.5 | 7.5 |
| 30 ΔT | 4196 | 1 | 1.5 | 1.5 | 2 | 3 | 3 | 3 | 3 |
| 40 ΔT | 3147 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 3 |
| 50 ΔT | 2517 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 60 ΔT | 2097 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 70 ΔT | 1798 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 80 ΔT | 1573 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 90 ΔT | 1398 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 100 ΔT | 1258 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 60 kW SC-1 | | | | | | | | | |
| Delta T | CFM | 5 | 5 | 5 | 5 | 5 | 5 | 7.5 | 7.5 |
| 20 ΔT | 7868 | 5 | 5 | 5 | 5 | 5 | 5 | 7.5 | 7.5 |
| 30 ΔT | 5245 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 ΔT | 3933 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 3 |
| 50 ΔT | 3147 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 3 | 3 |
| 60 ΔT | 2622 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 70 ΔT | 2247 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 80 ΔT | 1966 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 90 ΔT | 1748 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 100 ΔT | 1573 | 0.5 | 0.5 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 2 |
| 70 kW SC-2 DLB2 | | | | | | | | | |
| Delta T | CFM | 7.5 | 7.5 | 10 | 10 | 10 | 10 | 15 | 15 |
| 20 ΔT | 11016 | 5 | 5 | 5 | 5 | 5 | 5 | 7.5 | 7.5 |
| 30 ΔT | 7343 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 ΔT | 5307 | 1 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50 ΔT | 4406 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 60 ΔT | 3671 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70 ΔT | 3047 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80 ΔT | 2745 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90 ΔT | 2433 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100 ΔT | 2202 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85 kW SC-2 DLB2 | | | | | | | | | |
| Delta T | CFM | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 20 ΔT | 13376 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30 ΔT | 8917 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 ΔT | 6688 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50 ΔT | 5350 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 60 ΔT | 4458 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70 ΔT | 3823 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80 ΔT | 3343 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90 ΔT | 2972 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100 ΔT | 2674 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 99 kW SC-2 DLB2 | | | | | | | | | |
| Delta T | CFM | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20 ΔT | N/A | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30 ΔT | 10387 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 ΔT | 7789 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50 ΔT | 6232 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 60 ΔT | 5193 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70 ΔT | 4451 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80 ΔT | 3894 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90 ΔT | 3461 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100 ΔT | 3116 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 110 kW SC-2 DLB2 | | | | | | | | | |
| Delta T | CFM | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20 ΔT | N/A | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30 ΔT | 11541 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 ΔT | 8655 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50 ΔT | 6924 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 60 ΔT | 5770 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70 ΔT | 4945 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80 ΔT | 4327 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90 ΔT | 3847 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100 ΔT | 3461 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 120 kW SC-2 DLB2 | | | | | | | | | |
| Delta T | CFM | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 20 ΔT | N/A | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 30 ΔT | 12589 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 40 ΔT | 9442 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 50 ΔT | 7553 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 60 ΔT | 6294 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70 ΔT | 5395 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80 ΔT | 4720 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 90 ΔT | 4196 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100 ΔT | 3778 | 0.5 | 0.75 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Conversion formula | | | | | | | | | |
| 1 kW (1000 Watts) equals 3413 Btu | | | | | | | | | |

Hydronics/Steam Heating

Tapping into Water and Steam



Hot water unit

The ARES Steam & Hot Water units feature the modular custom design for all your hydronic heating needs. Either steam or hot water coils are incorporated into a factory assembled, wired and tested heating system. Our coils are ARI certified and fabricated of heavy gage seamless copper tubing, and the coil casings of double-flanged (for strength) galvanized steel. All coils are tested leak free at 300 PSIG air pressure under water. The steam coils systems are furnished with steam distributing type coils, have free floating cores and are pitched in casings to ensure condensate drainage.

ARES Advantages

- ARI certified coils for hot water and steam applications
- Air delivery from 1,000 – 14,000 CFM's
- Coils sized for your system specific job
- .020 copper 5/8" tube with .0060 aluminum fin
- 18 & 20 gage G-90 galvanized cabinet
- Heavy gage unit support rails for easy mounting on slab or curb rails

Options

- Painted or stainless steel cabinets
- Inlet on/off and freeze protection duct-stat
- Specialty coils available, call factory for availability



Steam unit

Electrical 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.
- **Air Filter Gauge** – Indicates when filters become dirty. An indicator light is provided with remote control panel (Required with all Air Filter Gauges).
- **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.
- **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).
- **Override Thermostat** – Will force the unit to high fire until the override stat mounted in the space is satisfied, then it will return to operating as a normal make-up air unit.
- **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.
- **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. Set point can be readjusted from the space with the adjustment knob located in its own box shipped loose for field mounting.
- **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.
- **2-Speed Motor** – A 1/3 or 1/2 reduction 2-speed motor is available, provided that the temperature rise at maximum output is within acceptable limits for both speeds.



Freeze Stat

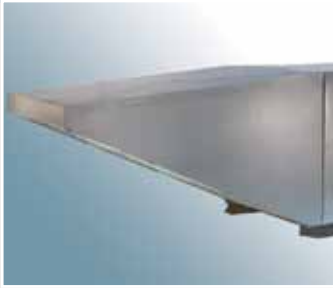


Interface Control Panel



Remote Control Panel

Accessories



Rainhood



Down Discharge Plenum

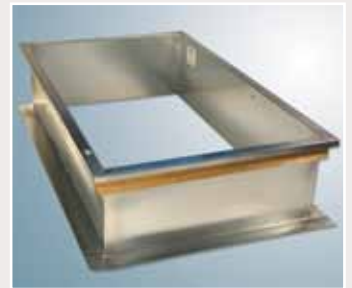


Flat Bank Filter



F/A and Filtered
R/A Damper

- **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. matt-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** – Motorized intake, motorized discharge and backdraft dampers are available to prevent indoor or outdoor air from entering when the fan is not in operation. Intake dampers are factory mounted and wired.
- **Mixing Dampers** – Fresh air and return air dampers allow unit to vary from 100% outside air to 100% indoor air, or any combination thereof.
- **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.
- **Special Coatings** – Enamel beige paint is available if the G-90 galvanized is not acceptable.
- **Foil-faced Insulation** – Insulation is used to line the housing to prevent the formation of condensation and to form an acoustical barrier.
- **Ceiling Outlet Box** – Polished stainless steel 2' x 2' ceiling outlet box is ideal for use in a grid ceiling system. The perforated diffuser design provides gentle, low velocity make-up air to the space, is easily cleaned, corrosion resistant and NSF approved. Maximum recommended outlet air flow per box is 2750 CFM.



Roof Curb



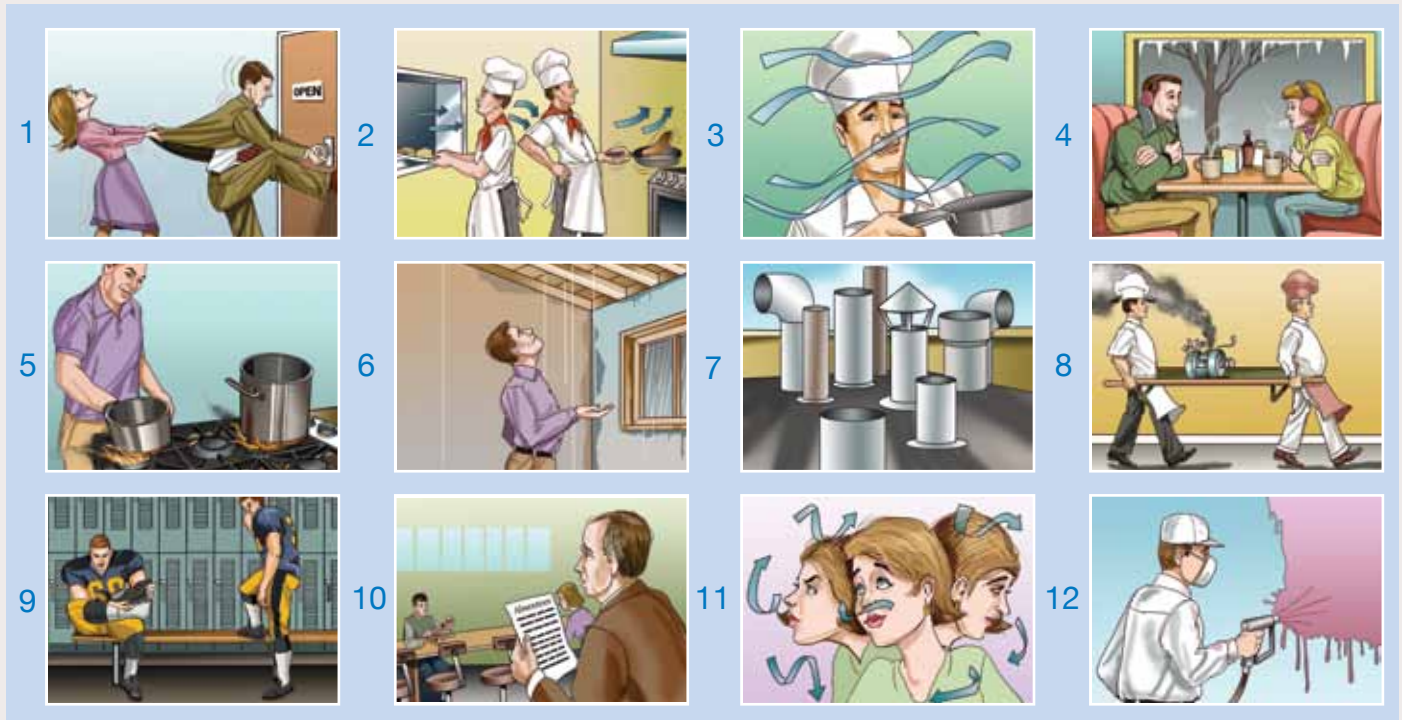
Ceiling Outlet Box



Foil-faced Insulation

ARES Make-up Air...Do You Need It?

12 Important Reasons Why You Might



1. **Unmanageable Doors** – If your doors are difficult to open, tough to close or they slam shut, then get a handle on the problem with make-up air.
2. **Air Drafts** – Cold air that flows in and rushes toward the exhaust can create annoying draft problems...a sign that make-up air is the right direction for your business.
3. **Kitchen Smoke** – If smoke, food odors and grease-laden air linger, it's time to give your exhaust a big helping of make-up air.
4. **Ice-Cold Walls and Windows** – What good is an exhaust system that draws icy outdoor air through wall and window cracks? Make-up air improves exhaust performance with ease.
5. **Erratic Equipment Flames** – Downdrafts affect gas appliances, unless your appliance exhaust gets a steady air flow.
6. **Leaky Walls and Roofs** – Don't put up with drips and water stains when you can solve this negative pressure problem with the proper air flow.
7. **Chimney Congestion** – If you have a maze of chimneys, they're no doubt suffocating from having to share their make-up air. Give all of them a chance to breathe.
8. **Overheated Exhaust Motors** – Do your exhaust motors pass the 10-year test or have they become burnt out after a much shorter time? Now reduce your replacement rate with an air of confidence.
9. **Less-Than Fresh Locker Rooms** – If your locker rooms retain their smell long after the All-Stars are gone, there's no substitute for proper ventilation with make-up air.
10. **Employee Absenteeism** – Stagnant air makes it difficult for your employees to work and stay healthy. Bring in fresh tempered air and control indoor air quality.
11. **Odors and Fumes** – A healthy exhaust system keeps annoying smells to a minimum...with a proper air supply, of course!
12. **Unsightly Paint Jobs** – Uniform paint coverage is dependent upon a steady flow of clean air...quality suffers from back drafts and air fluctuations. With make-up air, everyone's an artist!

There's Professionalism In The Air



For 40 years, ARES has been a premier manufacturer of high-quality, packaged air systems. Just as important as the products we make, however, are the people who make them. We have earned a reputation for conscientious workmanship and exemplary service. Our manufacturing facility reflects the personality of our company...solid, innovative and highly proactive.

Our most enduring trait continues to be that of instilling confidence in our customers. The kind of confidence that comes with extensive product knowledge, proven performance and one of the industry's best warranties. As experienced professionals, we wouldn't have it any other way.

Getting Results, Making Friends

Call ARES packaged air systems and you'll notice a welcome difference. Whether you're contacting us about a project estimate, shipping, specific product needs, a special concern or just to ask about some general information, our people are always courteous, friendly and eager to help. Because all of our customer service personnel have been highly trained and most have many years in the industry, you can be sure that they will act responsively and responsibly.

Please do not hesitate to contact our customer service department whenever you have a question or a request. We consider every customer to be a loyal friend.

ARES Duct Furnaces meet the requirements for ANSI Z83.8b-2004 / CSA2.6b-2004



***ARES offers a complete line of
Direct Fired, Gas Heated
Make-Up Air Systems
Call to order a FREE brochure.***

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