MECHANICAL SYSTEMS
TRUST THE ARIZON ADVANTAGE

ARIZON®
BUILDING SYSTEMS

MECHANICALS

ARIZON'S MECHANICAL SYSTEMS

SPECIFICALLY DESIGNED FOR AIR STRUCTURES

Arizon is the only company in the industry that designs and builds its own inflation equipment, which is manufactured specifically for use in air supported structures. Our above-ground, direct-to-fabric system eliminates the need for underground ductwork, which significantly reduces construction and installation costs.

ENERGY EFFICIENCY OFFSETS OPERATING COSTS

Arizon's equipment uses lower horsepower motors, making it the most energy efficient inflation equipment in the industry - this translates into significant operating cost savings.

WARRANTY

Our systems carry a 1-year warranty, which is the industry standard warranty on mechanical systems.

AIR-ROTATION® TECHNOLOGY

Our UL® - listed systems incorporate Arizon's patented Air-Rotation® technology, which reduces energy costs and evenly heats and cools the structure from top to bottom.

BACK UP GENERATOR

Each Arizon system is supplied with self-testing back-up generators that are designed to automatically kick in if there is any interruption of service that causes a power failure to the primary and auxiliary inflation equipment.

PROGRAMMABLE LOGIC CONTROLS

Our systems feature electronic programmable controllers with a built-in 7 day schedule for night setback of temperature. Optional wind and snow sensors are available upon request for additional control, safety, and functionality.

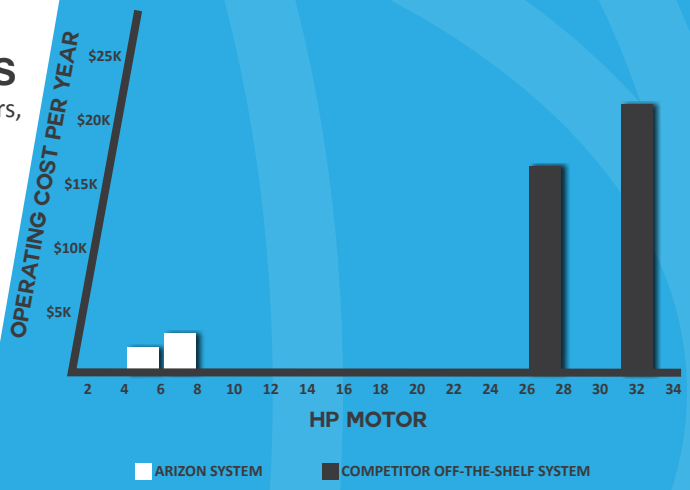
GREEN FRIENDLY

Arizon's equipment uses 5-7 hp motors, as opposed to off-the-shelf equipment that uses up to 50 hp motors. This results in a 40-70% reduction in energy usage.

Our company's proven & patented Air-Rotation® technology evenly distributes heat in the space - corner to corner - and top-to-bottom reducing the heat loss through the dome by pulling heat down from the roof before it is lost. This also helps to reduce operating costs and provides a better, more comfortable environment in the dome.

ARIZON VS. THE COMPETITION

COST PER YEAR TO OPERATE INFLATION SYSTEM YEAR ROUND



FEATURE	BENEFIT
Air-Rotation® Effect	Even temperatures throughout, lower operating costs
Programmable Logic Controller	Reliable functionality
7-Day Night Setback Schedule	Lower operating costs & less hassle
Available Wind & Snow Sensors	Automatic weather response; peace of mind
Variable Frequency Drive Motor Control	Lowest possible electric costs
Total Stainless Steel Heat Exchange	Longest life, lowest maintenance
Direct Drive Fans	No belts; Much less maintenance
Optional Heavy-Duty Double Wall Construction	Strongest, longest life units available
Start-Up, Adjusting, & Training Included	Delivered completely
Service, Maintenance, & Repairs by Arizon	One call, no hassles
Reliable Generator Tests Itself Weekly	Maintenance man can take a vacation Day

ARIZON® BUILDING SYSTEMS

(800) 325-1303
11880 Dorsett Road,
St. Louis, MO 63043
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MECHANICALS

ENERGY EFFICIENCY & YOUR BOTTOM LINE

AIR-ROTATION® TECHNOLOGY

Arizon's Air Rotation technology produces an even distribution of air throughout the building – not only from corner to corner, but floor to ceiling. This is a considerable advantage over systems that do not use this technology, considering the air structure design is not the most well-insulated type of construction and is susceptible to heat loss through the building envelope. By using our Air-Rotation technology, the temperature of the air near the top of the dome is within 1-2 degrees of the temperature at the floor level. Without Air-Rotation, the temperature at the peak of a dome of this height would be as much as 30 degrees warmer. This means that on a cold 30°F day outside, the temperature at the top of the dome would be 67°F with our dome, and 95°F otherwise. The differential temperature between inside and outside at the roof is then 37°F in our dome and 65°F without Air-Rotation. The heat loss is significantly reduced.*

LOW HORSEPOWER MOTOR

Arizon's low horsepower design changes the method of heating and inflation to reduce the motor size required to operate the dome. A typical example heating & pressurization unit for another's building would be 25 hp.

The operating costs for a 6-month installation for a single 25 hp motor is: 25 hp x 0.746 watts/hp x 0.7 power factor ÷ 90% efficient motor x 0.8 full load x 180 days, all this to just run the motor. Our system would use a 3 hp motor for pressurization – always on, and a 10 hp motor for heating, which operates about 25% of the time. The total operation for these two motors has a total savings of 76% versus a 25 hp motor.

**While these examples are provided to illustrate the values and benefits of these features, true values will vary from project to project, based on the building design, climate, insulation values and a number of other factors. Speak to your sales professional for estimates for your building.*

- 5-7 horsepower motors
- 40-70% reduction in energy usage when compared to 'off-the-shelf' mechanical equipment
- LEED certifiable
- Incorporates Air-Rotation® technology, which uses less energy and distributes temperature evenly throughout dome, reducing fuel costs
- Manufactured exclusively for air supported structures by Arizon

OTHER ENERGY EFFICIENT FEATURES

SKYLIGHT

BRING IN EXTRA LIGHT WITHOUT PAYING MORE IN ENERGY

PREMIUM INSULATION

DOUBLE THE INSULATION WITH MINIMAL ADDITIONAL COST

LED LIGHTING

USE A THIRD OF THE ENERGY OF METAL HALIDE BULBS

ADVANCED CONTROLS

SCHEDULE SETBACKS FOR HIGH EFFICIENCY OPERATIONS

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