

# TELECOOL

DC Cabinet Door Mounted  
Air Conditioning Unit, 1500-4000W

Cooling Solutions for the Information,  
Communication and Technology Industries



# ABOUT US

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AIRSYS Cooling Technologies Inc., is a global cooling solutions provider with products and engineering services designed to provide a wide variety of solutions for schools, data centers, mobile shelters and outdoor telecom cabinets. Whether the products are used for sensible cooling telecommunication environments, or for human comfort, the AIRSYS team of highly trained technicians can assist their client's through every step of the deployment process from design through maintenance.

## 25th ANNIVERSARY

AIRSYS has reached an exciting milestone in 2020 with the company's 25th anniversary as an award-winning supplier of the world's most energy efficient cooling solutions.



## RESEARCH AND DEVELOPMENT

As a global manufacturer of high-performance air-conditioning equipment, AIRSYS is committed to providing highly reliable and energy efficient cooling solutions for critical environments. At AIRSYS we are focused on progressive technologies for the HVAC industry. Through our large research and development division, we proudly develop new equipment that utilizes inverter driven technologies, coupled with precise controls to maximize the designed load calculations for a given space.

## MANUFACTURING FACILITY

Located in the manufacturing belt of the Carolinas in Spartanburg County, AIRSYS operates out of a 60,000 square foot manufacturing facility and corporate headquarters. Our teams of highly trained technical, sales and field services staff are veteran HVAC industry insiders who all work together to provide 24/7 customer assistance for our clients.

# GLOBAL FOOTPRINT

The AIRSYS Group has multiple subsidiaries located around the world. We currently have two primary manufacturing facilities, one located in China and the other in the United States. We have served more than 45 countries around the world and continue to provide global support for our trusted partners.



## APAC

China  
Korea  
India  
Singapore  
Malaysia  
Philippines  
Indonesia  
Australia  
Pakistan  
Bangladesh  
Kazakhstan  
Nepal  
Oman  
Cambodia

## Europe

UK  
Germany  
Italy  
Spain  
Romania  
Serbia  
France  
Poland  
Turkey  
Russia

## LATAM

Brazil  
Argentina  
Peru  
Ecuador  
Colombia

## Africa

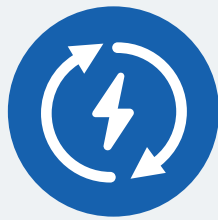
South  
Africa  
Kenya  
Nigeria

## NORAM

USA  
Canada

# CORE COMPETITIVENESS

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**Energy efficiency,  
Intelligent Control, High  
Reliability.**



**Best value in Capital Expenditures  
(CAPEX) and lowest in Operational  
Expenditures (OPEX)**



**Responsiveness**



**Strong R&D capability**



**Global Footprint providing  
turn-key service**



**Leading Edge  
Technologies**



**Lowest Total Cost of  
Ownership (TCO)**



**Best in class  
manufacturing facility**

AIRSYS

**BALANCE THE  
ENVIRONMENT.**

# SERVICE



Consultation



Design



Products



Engineering



Service

# TECHNOLOGIES

At AIRSYS we believe in the quality of the product throughout its entire life cycle, including research and development, pilot testing, manufacturing, sales, and service. Therefore, we feel it is necessary to ensure quality control at all points throughout the product's life cycle. We oversee the entire process and have full participation in total quality management, so that quality standards continue to be met (or exceeded) and that customer satisfaction with our product is always ensured.

We proudly engineer the following ten technologies into each of our products. To balance the environment and forge ahead as a leading manufacturer of high performance HVAC products, these ten technologies are necessary to give our clients the highest quality products that reduce overall energy consumption, and provide high reliability for years to come.

## 10 CUTTING EDGE TECHNOLOGIES USED IN AIRSYS PRODUCTS





# PRODUCT OVERVIEW

We designed the TELECOOL series product line for telecommunication base stations. Our goal was to create a small-capacity air-conditioning unit for telecommunication applications that could adapt to the trend of miniaturization to save energy. The Telecool line has a monolithic structure and all parts are integrated together. It can be installed on the user's equipment with only a few screws. The versatility and compact size of the Telecool unit is what distinguishes it above other solutions available for remote base stations.

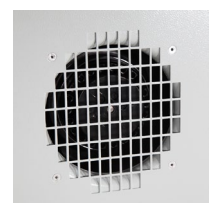
## FEATURES

- Variable Capacity door-mounted cooling solution designed for electronic cabinets
- 100% DC Powered with built-in thermostat, dry contact alarming, and remote monitoring through RS485
- Optional integrated economizer featuring seamless changeover



## MODEL

- ACA015ED





# ENGINEERED FEATURES

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Loading and unloading between stages of cooling introduces most of the mechanical stress on a compressor. The turn on of a fixed compressor wears down contactors and the resulting inrush current wears down other electronics. Even for properly sized units and properly set minimum compressor run/stop timer, the loading and unloading can reach one hundred times a day which would be > 30,000+ times per year.

Our TELECOOL units precisely match the heat load at all times through variable capacity compressor technology, which minimizes sudden loading and unloading of the compressor, vastly extending the life and reliability of the entire cooling system.

## 1 Soft Start Compressor

The Soft Start feature eliminates inrush current during compressor start up and reduces stress at every compressor turn on.

## 2 Remote Monitoring Control Options

Dry contact outputs available for:

- Power Loss
- Low/High Temperature
- Fan Alarm
- Heater Alarm
- Remote Monitoring available through RS485

## 3 Dual Layer Exterior Protection

Galvanized steel coated exterior panel with an additional layer of thermoset polymer provides two layers of protection against corrosion.

## 4 Extreme Temperature Range

Designed for operation between -40°C/-40°F and 55°C/131°F ambient temperature.



# ENGINEERED FEATURES

## 5 Customizable Operation

Built-in thermostat with customizable operating and alarming parameters. Automatic self test at power on allows efficient onsite maintenance.

## 6 Top Exhaust / Bottom Throw Design

Taking advantage of simple physics (hot air rising), the top exhaust, bottom throw design increases overall system efficiency by as much as 15% when compared to bottom exhaust systems.

## 7 Optimized Efficiency

Quieter, more efficient EC centrifugal fans offers highly favorable efficiency curves compared to conventional AC Fans. The Telecool's Variable speed compressor continuously adjusts to precisely track the internal heat load for lowest energy usage.

## 8 Exceptional Reliability

State of the art components chosen for their industry leading quality and long-term reliability. Decades of experience with design and manufacturing of the Telecool systems with tens of thousands of units shipped and installed globally.





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Product design and specification subject to change without prior notice.



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