

AIRSYS FREECOOL-AD

Free Cooling Solution with integrated Adiabatic Cooling: 1.01-1.02 PUE

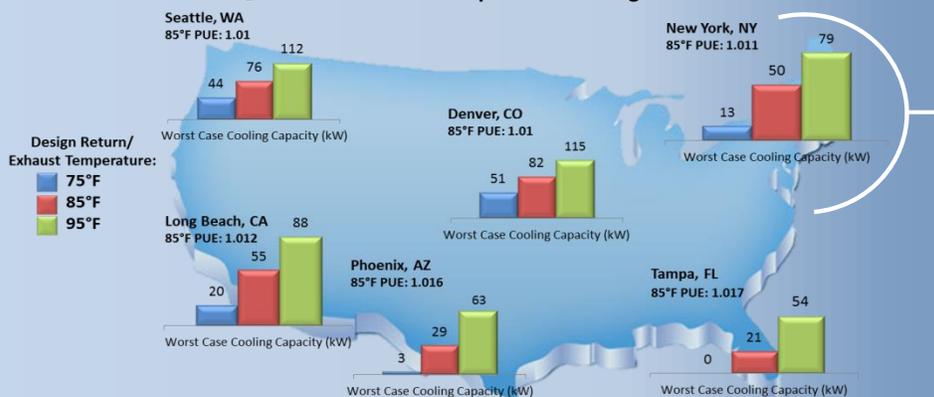
Product Overview

- Large capacity free cooling solution with automatic changeover to adiabatic (evaporative) cooling when outdoor temperature is high
- Requires only power and water inlet, eliminating the need to maintain a water tank, compressor, or refrigerant circuit
- Offers up to 90% annual energy reduction over standard DX systems, with PUE in the range of 1.01 to 1.02



Adiabatic Cooling Capacity

@ Different Return Temperature Settings



*Based on worst case scenario outdoor environment and 60% indoor humidity settings

PUE Comparison for New York



Feature Highlights

Customizable Operation

Built-in user interface with customizable operating and alarming parameters, self-diagnostics with alarm reporting and alarm history.

Remote Monitor/Control Options

Customizable dry contacts available for alarms. Complete remote monitoring available through HTML, SNMP, BACNET, and MODBUS protocols.

EC Variable Speed Supply Fan

Large capacity EC supply fan with variable speed control optimizes efficiency by continuously matching the exact indoor heat load.

High Efficiency Cooling Pad

Cooling pad built for minimal pressure drop at high air speeds. Pad construction is optimized for local climates.

24/7 Technical Support

Technical Support available 24/7 to ensure maximum availability. Other support available includes configuration planning, load modelling, and training for technicians and users.

Technical Data

Model Number	FCA.10A1	FCA.20A2
Supply air direction	Up-flow or Down-flow	
Performance		
Adiabatic Cooling Capacity (1)	15.4kW	30.1kW
Free Cooling Capacity	@ $\Delta T=5^{\circ}C/9^{\circ}F$	15.4KW
	@ $\Delta T=10^{\circ}C/18^{\circ}F$	30.8kW
Max Air Flow	5,400 CFM / 9,200 m ³ /h	10,600 CFM / 18,000 m ³ /h
Nominal Power Consumption	1.3 kW	2.6 kW
Water Consumption (1)	12 gal/h / 45.4 L/h	24 gal/h / 90.9 L/h
Heater	As Required	As Required
Electrical Data		
Nominal Power Supply	460V/3/60Hz	460V/3/60Hz
Max Current (Heater Additional)	5A	9.2A
Construction		
Exterior	Epoxy Resin Coated Steel	
All internal water interface	Stainless Steel	
Design Life	>10 Years	
Dimensions		
Width	74.8 in / 1900 mm	74.8 in / 1900 mm
Depth	31.5 in / 800 mm	41.3 in / 1050 mm
Height	85.0 in / 2160 mm	96.9 in / 2460 mm
Weight	882 lbs / 400 kg	1257 lbs / 570 kg

(1) Nominal Cooling Conditions, room temperature setting 25°C/77°F, outdoor air dry bulb temperature 30°C/86°F, RH30%

Typical Configuration

