

# Ecogreen®

## Air Handlers

Air Handling ECCAM0 & ECCAMI

UK export sales 0044 (162) 856-7015



The Highest Efficiency Reliable  
Systems Cooling Solutions



[www.ecochillers.net](http://www.ecochillers.net)



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### Names you know and trust

Ecogreen air Movement units (AM) from Ecochillers

– the only names you need to know for an AM line that has no limits, ranging from basic indoor units up to penthouse mechanical equipment rooms. And whatever the air handling challenge – IAQ, acoustics, energy, controls, you name it – Ecochillers has the experience to build a ECCAM0 and ECCAMI that will meet your needs.

In the air handling business, the reputation and experience of the manufacturer is as important as the product. Ecogreen has been manufacturing airhandling equipment since the 1990s. Then, in the 2008s, we acquired two of the most well known and respected AM companies in the business. Their 20 plus years of experience have now been joined with the worldwide engineering, manufacturing, service, and support of Ecochillers. The result is a company dedicated to providing uncompromising solutions for your air handling needs.

For commercial and institutional facilities, for industrial manufacturing and process operations, and for critical hygienic applications in hospitals and cleanrooms, Solution AM can be built to handle any requirement – no limits.

### Design it your way, every time, every way

#### DIMENSIONAL FLEXIBILITY:

Space constraints are a reality on most construction projects. Why be constrained by fixed AM sizes? Solution offer variable aspect-ratio, so you can design the unit to fit the application and the space. And if rectangular-shaped units can't fit the space, units can be configured to fit within just about any existing space or around any obstacle.

L-shaped and T-shaped units, stacked units, notched units – we can do it.

#### MATERIAL FLEXIBILITY:

We offer a complete line of construction materials, including G-90 galvanized steel, pre-painted steel, stainless steel, and aluminum.

#### COMPONENT FLEXIBILITY:

To enable you to meet any AHU requirement, Solution units offer every available air handling component. And as technology creates new capabilities, Ecochillers will apply these to our Solution line.

### EXPERIENCE WE'VE BUILT AM FOR ALL THESE

- **Commercial space:**  
office buildings, theaters, performance halls
- **Institutional space:**  
schools, universities, churches
- **Industrial manufacturing:**  
automotive, aerospace, chemical, petrochemical
- **Hygienic systems:**  
hospitals, life sciences, R&D facilities, food, processing, cleanrooms
- **Process manufacturing:**  
pharmaceutical, electronics, semiconductor

\*restrictions may apply

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## PUT YOUR AM ON Anenergy diet.

### Designed to save energy

Our industry has taken a leadership role by creating energy performance guidelines, such as ASHRAE90.1. Ecogreen AM are designed with ASHRAE 90.1 in mind and can help you curb your energy intake.

### Stretch your dollars with energy recovery

The exhaust airstream represents an energy saving opportunity. An energy recovery wheel can economically transfer heat and moisture between the exhaust-air and fresh-air paths, reducing the cost of conditioning the fresh air.

Take advantage of "free" cooling with an economizer section. During spring and fall operation, cool/dry outside air cools and dehumidifies the facility, reducing the need for mechanical refrigeration.

### Keep heat where it belongs

Superior casing performance affects more than just indoor air quality. In extreme ambient conditions, heat transfer through the casing must be controlled. All Solution casings offer a minimum of R-7 to R-14 insulation in the floors, walls and roof. Higher R-value insulations are also available. To prevent energy-robbing air leaks, units are designed for a maximum casing leakage of 1%, or even 0.5%.

### Energy-saving fans

In an AHU, the fan is the largest energy consumer. Solution fans offer a range of energy saving options. High or premium-efficiency motors can be specified. Direct-drive plenum fans eliminate belt-and-pulley energy losses.

If the air system is designed for variable air volume (VAV), Ecogreen AM offer the most efficient method of VAV fan control. Factory-mounting a Ecochillers variable frequency drive reduces jobsite labor costs and provides single source responsibility



### FEATURES THAT SAVE DOLLARS AND MAKE SENSE

- Variable speed drives
- Heat wheels
- Fixed plate heat exchangers
- Heat pipes
- High R-value insulation
- High efficiency motors

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## REDUCE Noise and Complaints.

### When noise matters

Applications such as theaters, performance halls and churches consider acoustics to be as critical as occupant comfort. That's why Ecogreen AM ensure your success with a wide range of noise-reducing technologies that will quiet any complaint.



### Fans that whisper

Since the fan is the primary moving part in an air-handling system, it's the first place to look when reducing noise. AM are available with a nearly endless array of low noise fans, including the exclusive P-91 plenum fan – one of the quietest available. Its extruded aluminum blades are precisely positioned within the wheel, ensuring quiet and predictable performance.

### Attenuate remaining sounds

What little noise is left can be further reduced with direct methods of sound attenuation. Using sound absorbing walls, and sound traps in the fan and discharge-plenum sections, Ecochillers sales engineers can design a Ecogreen Am to meet your critical sound requirements.

### Tested sound levels

Being able to reliably predict the sound performance of an AM is an engineering challenge. Our acousticians have created ARI-260-compliant, acoustical calculation tools based on thousands of hours of real world testing on hundreds of units.



### SOUND TECHNIQUES TO IMPROVE ACOUSTICS

- Standard low noise fans
- Direct-drive plenum fans
- Vane-axial fans
- Sound attenuators
- Sound-absorptive panels
- Inertia bases
- Special balancing and vibration isolation options

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## TAKE CONTROL Of your application.

### Factory-mounted controls increase reliability

When AHU controls are installed at the jobsite, costs can go up and reliability can go down. To eliminate these problems, Ecogreen AM can be equipped with Metasys controls which are engineered, installed, and commissioned in the factory



### Factory-installation improves quality, saves time

While a Ecogreen Am is being manufactured, Ecochillers technicians can easily access all its segments. So, there are no accessibility problems to cramp the quality of the controls installation, which can occur on the jobsite. Also, all sensing probes have been pre-engineered to determine their best mounting location, ensuring accurate and reliable readings.

### Factory-commissioning ensures accurate operation

Factory-mounted Metasys controls undergo a detailed commissioning process at the factory. As part of this process, a report is generated and shipped with the unit. The testing ensures that all end devices work appropriately before the AM is shipped. It also means that Ecogreen AM can be up and running faster when they arrive on-site.

### Factory-engineering speeds field connections

Ecogreen Am are factory engineered to simplify field connection of the controls. For example, coil valves are shipped uninstalled, but pre-wired with a flexible conduit with quick-connects.

In some instances, the AM is too large to ship in one piece, and must be split. To ensure fast and easy jobsite assembly of the Metasys controls, labeled quick-connects come standard on all shipping splits.

### YOU ARE IN COMMAND WITH METASYS CONTROLS

- Field equipment controllers
- Input/Output modules
- Damper actuators
- Differential pressure sensors
- Temperature sensors
- Valves and actuators
- Static pressure transducers
- Differential pressure switches
- Fan start/stop relays
- Humidity sensors

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## SUPPORT When you need it.

Ecochillers has the experience and support you demand

To unburden specifiers from the time consuming task of system layout, we employ powerful design tools. The System Selection Tool is available to all qualified systems designers to assist in the development of plans and specifications for standard HV AC equipment and controls. Systems contained in the tool provide the user with flow diagrams, points lists and sequence of operations.

## Support after the sale

As assurance that your Ecogreen AM will meet your performance expectations, Ecochillers offers validation and witness testing at our factory for a variety of parameters: airflow, sound, vibration, and air-leakage, to name a few. Ecochillers can provide certified technicians for job-site installation and commissioning, drawing on a force of more than 3,000 technicians in over 300 locations worldwide. Project management services are also available.



### Ecogreen AM ARE AN EASY CHOICE

- Worldwide support and resources
- Powerful design tools
- Backed by factory engineering team
- Factory validation and witness testing
- Service available from Johnson Controls
- Availability of project management services
- Unique dimensions and applications

\*restrictions may apply