



# DAC EARTH DAY NEWS



Volume I, Issue 0407 April 22nd is Earth Day - Think "Green"! April 2007

**"HVAC  
Products for a  
Sustainable  
Future"**

## CALL US - WE CAN HELP

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## DAC SEMINAR:

DAC will host an  
Energy Efficient  
Lab Design  
seminar on May 22  
at the Forefront Center  
in Waltham. You can  
pre-register for this  
seminar by calling Teri  
Shannon, or e-mail her  
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*Sustainability is the concept of maximizing the effective use of our resources while minimizing the impact of those resources on the earth and its environment.*

**ENGINEERS IMPACT A GREATER % OF A BUILDING'S ENERGY USE AND CARBON FOOTPRINT THAN ANY OTHER PROFESSION. IT IS OUR RESPONSIBILITY TO ADDRESS THIS ON EVERY PROJECT**

## DAC'S GREEN PROJECTS

*-30+ PROJECTS, OVER 1 MILLION CFM, SHIPPED IN 2006-2007 WITH ENERGY RECOVERY SYSTEMS USING GLYCOL LOOPS, HEAT PIPES, PLATE EXCHANGERS AND ENTHALPY WHEELS*

*-U MASS INTEGRATED SCIENCES BUILDING WILL HAVE OVER 150 AIR SENTRY FUME HOODS WHICH USE LESS THAN 1/2 THE AIR OF CONVENTIONAL FUME HOODS*

*-10 PROJECTS USING OUR FRESH-AIR AIR-TO-AIR ENERGY RECOVERY POOL DEHUMIDIFIERS WHICH USE 1/3 THE ENERGY OF MECHANICAL REFRIGERATION BASED SYSTEMS*

## DAC'S GREEN PRODUCTS

### THERMOTECH ENTHALPY ENERGY RECOVERY WHEELS

*-IN A 100% OUTSIDE AIR SYSTEM THERMOTECH 'S ENTHALPY ENERGY RECOVERY WHEELS CAN REDUCE COOLING TONNAGE AND BOILER HP BY UP TO 50% WITH UP TO A 10 YEAR WARRANTY AND A 20+ YEAR ZERO PRODUCT FAILURE RECORD*

### ACUTHERM THERMAFUSER INDIVIDUAL ROOM CONTROL

*-USES 15-20% LESS ENERGY THAN A TYPICAL MULTI ROOM VAV BOX SYSTEM, AND IS PROVIDED WITH A 10 YEAR REPLACEMENT WARRANTY*

### HEAT PIPE TECHNOLOGY WRAP AROUND DEHUMIDIFIERS

*-A TYPICAL 2 ROW HEAT PIPE PRECOOLS THE AIR GOING INTO THE COOLING COIL BY 9 DEG F AND REHEATS THE LEAVING AIR BY 9 DEG F, THE ONLY HEAT PIPES WITH CONTROLLABLE SOLENOID VALVE STAGING FOR DISCHARGE TEMPERATURE CONTROL*

## OTHER RESOURCES

*-ASHRAE: [WWW.ENGINEERINGFORSUSTAINABILITY.ORG](http://WWW.ENGINEERINGFORSUSTAINABILITY.ORG)*

*-THE NATURAL STEP: [WWW.NATURALSTEP.ORG](http://WWW.NATURALSTEP.ORG)*

*"We already know everything we need to know to effectively address the problem", Al Gore, An Inconvenient Truth*