



**BROAD USA INC**

*ENERGY  
CONSERVATION  
IS A PRIORITY OF  
HVAC*

*WE PRESERVE  
LIFE*

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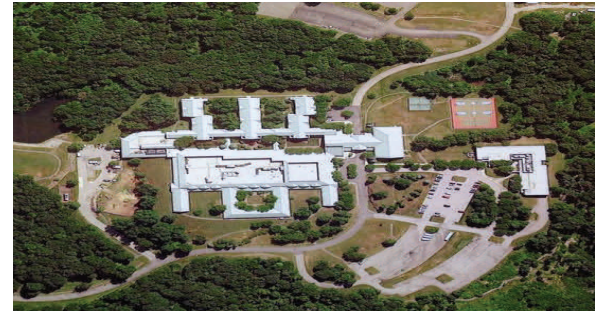


# EF ACADEMY— CAMPUS COOLING AND HEATING WITH NATURAL GAS

Volume 3, Issue 6

March 2015

**BROAD DIRECT FIRED  
ABSORPTION CHILLER-  
HEATERS DELIVER  
RELIABLE COMFORT IN  
A SIMPLE EASY TO  
OPERATE PACKAGE.**



*THIS PROJECT UTILIZED GAS FIRED ABSORPTION BASED ON SIMPLE ECONOMICS.*

*NATURAL GAS COOLING WAS MORE AFFORDABLE THEN USING GRID SUPPLIED ELECTRICITY TO MEET THE CAMPUS CHILLED WATER REQUIREMENTS.*

*THE LOCAL CON EDISON RATE STRUCTURE FOR THE COST OF ELECTRICITY IS WELL ABOVE 9 CENTS A KWH. THIS IS A TYPICAL BREAKPOINT WHERE NATURAL GAS COOLING IN A BROAD ABSORBER BECOMES MORE AFFORDABLE THEN USING AN ELECTRIC CHILLER.*

*CON EDISON ALSO PROVIDED AN INCENTIVE TO OF \$430/TON TO OFFSET THE HIGHER CAPITAL COST OF AN ABSORBER VS AN ELECTRIC CHILLER. TO LEARN MORE ABOUT THE LOCAL INCENTIVE THAT IS AVAILABLE TO ALL ELECTRIC SERVICE CON ED CUSTOMER OR THIS INTERNATIONAL PRIVATE BOARDING SCHOOL SEE BELOW LINKS.*

<http://www.ef.edu/academy/why-ef-academy/>

<http://www.coned.com/energyefficiency/steamac.asp>

## **EF ACADEMY ( NEW YORK STATE ) SYSTEM SUMMARY:**

*ABSORPTION UNITS WITH A 1.36 COOLING COP / .93 HEATING COP.*

*AN INDUSTRY BEST IN CLASS IN HEATING AND COOLING EFFICIENCY*

*1000 TONS 9600 MBH - 2 UNITS AT 500 TONS EACH*

*SIMULTANEOUS CHILLED, HEATING & DOMESTIC HOT WATER PRODUCTION*

*SIMPLE OPERATION WITH LITTLE OPERATOR INVOLVEMENT*

*VACUUM PUMPS ARE NO LONGER REQUIRED TO BE OPERATED ON A DAILY OR WEEKLY BASIS BY THE END USER.— OPERATOR*

*R-718 = H2O "THE NATURAL REFRIGERANT" NO PHASE OUT DATE*

*\*REMOTE MONITORING FOR LIFE FOR FREE —BROAD USA SERVICE*

*\*QUALIFIES FOR A 10 YEAR CON ED MAINTENANCE INCENTIVE BONUS*

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<b>BROAD CHILLER FEATURES</b>	<b>BROAD CHILLER BENEFITS</b>
OXYGEN-FREE COPPER TUBES	LONG UNIT LIFE
THICKEST TUBES & SHELL CONSTRUCTION	LONG UNIT LIFE
HIGHEST VACUUM STANDARD IN THE INDUSTRY	LONG UNIT LIFE
HIGHEST COP AND NPLV	LOWEST OPERATING COST
UNLOADING DOWN TO 5%	BEST-IN-CLASS LOAD MATCHING
WIDEST APPLICATION RANGE UP TO 3300 TONS	FLEXIBLE PRODUCT LINE FOR BEST
SIMULTANEOUS COOLING AND HEATING	OPTIMIZES SYSTEM EFFICIENCY
PLC CONTROLS WITH 24/7 MONITORING	SIMPLE AND EASY TO OPERATE
ZERO MAINTENANCE PUMPS	LOWERS MAINTENANCE COST
MARINE WATER BOXES WITH HINGES	LOWERS COST TO CLEAN TUBES
PLC PID CONTROL WITH DIAGNOSTICS	LOWERS OPERATING COST
FACTORY ACCEPTANCE TEST (FAT)	ENSURES JOB SITE PERFORMANCE
FACTORY-DIRECT SERVICE FROM COAST TO	24/7 MONITORING

**LOW CO<sub>2</sub>E / LOWER YOUR CARBON FOOTPRINT**

BY DIRECTLY BURNING NATURAL GAS AS OPPOSED TO ONLY UTILIZING GRID POWER FOR HVAC APPLICATIONS MOST FACILITIES CAN DRAMATICALLY LOWER THEIR CARBON FOOTPRINT WHILE REDUCING THE COST TO OPERATE BUILDINGS. ASHRAE HAS BEEN PROVIDING BUILDING DESIGNERS AND OWNERS A METHODOLOGY TO CALCULATE CO<sub>2</sub> CONTRIBUTION FROM VARIOUS FORMS OF ENERGY. (CO<sub>2</sub>E)

**ABOUT BROAD U.S.A.**

BROAD U.S.A. IS A PRIVATELY HELD COMPANY HEADQUARTER IN NEW JERSEY SUPPORTING THE SALES AND SERVICE TO OUR CUSTOMERS IN NORTH AMERICA. BROAD ABSORBERS ARE CURRENTLY OPERATING SUCCESSFULLY IN OVER 80 COUNTRIES WITH OVER 35,000 INSTALLATIONS WORLDWIDE. BROAD IS THE WORLD LARGEST MANUFACTURER OF ABSORPTION CHILLERS RANGING IN SIZE UP TO 3300 TONS.

