

FREEZE BLOCK TECHNOLOGY

TECHNOLOGY DESIGNED TO PREVENT FREEZE DAMAGE
TO HVAC COILS!

ROBERT COONEY

COONEY COIL & ENERGY

COONEY 
FREEZE BLOCK COIL

TEAM BIO

- **BOB COONEY – OWNER/PRESIDENT OF COONEY COIL & ENERGY**
- **RICK KOBYLINSKI – SALES ENGINEER AT COONEY COIL**
- **DR. JIAN YU – DIRECTOR OF PRODUCT DEVELOPMENT AT SUPER RADIATOR**
- **DR. BOB VANCE – DIRECTOR OF ENGINEERING AT COILMASTER**
- **BRAD CAUDILL – INDEPENDENT ENGINEER AT APPLIED TECHNICAL SERVICES**
- **SHAUN STEPHENS – SYSTEMS SALES ENGINEERING AT TOZOUR TRANE**

CURRENT INDUSTRY DILEMMA



FLOOD GATES OPEN



RESULTING DAMAGE: FLOODED LIBRARY



GLAXOSMITHKLINE BUILDING #38



REPLACEMENT PERCENTAGE DUE TO FREEZING



10%

20%

30%

CASE HISTORIES

- METHACTON SCHOOL DISTRICT  \$100,000
- HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA  \$500,000
- CITY COLLEGE OF NEW YORK (CLASSROOM BUILDING)  \$1,300,000
- JACKSON MADISON MEDICAL CENTER  \$9,000,000

INTENTIONAL PIPE FREEZING KIT – QUIK-FREEZE



FREEZE PREVENTION KIT

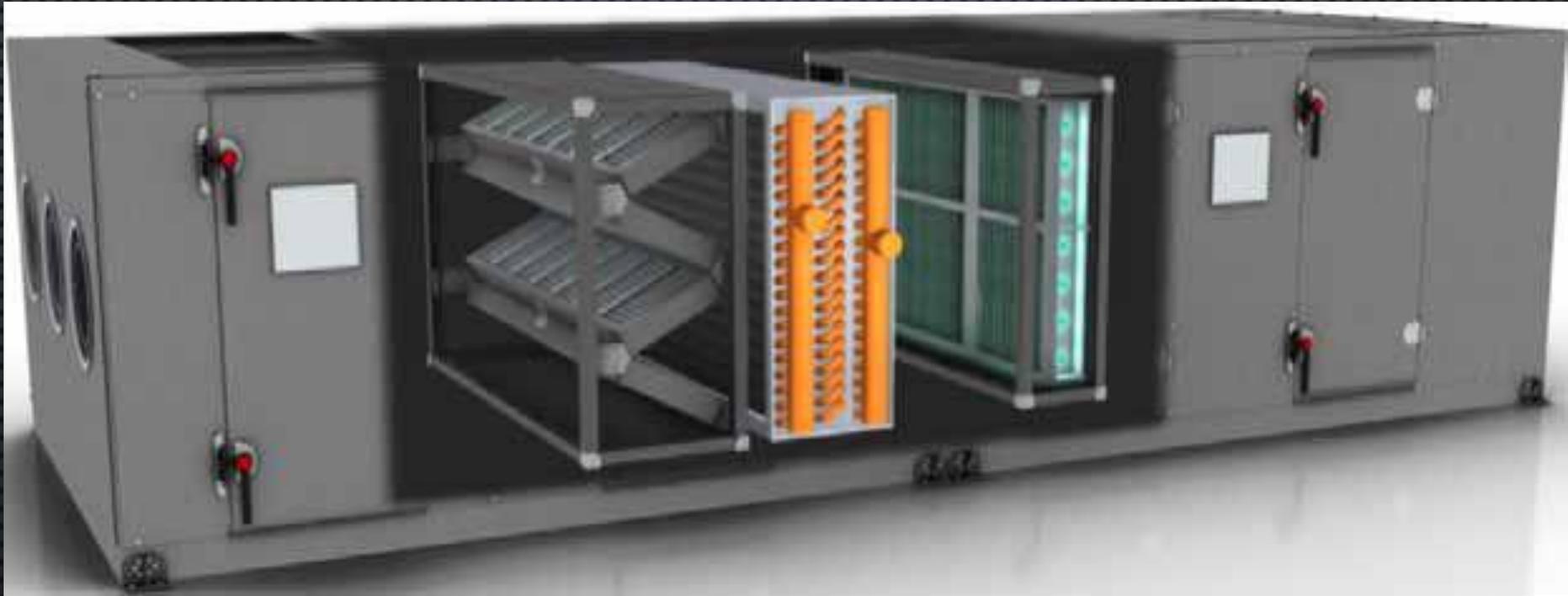


MECHANICAL EQUIPMENT PROTECTION

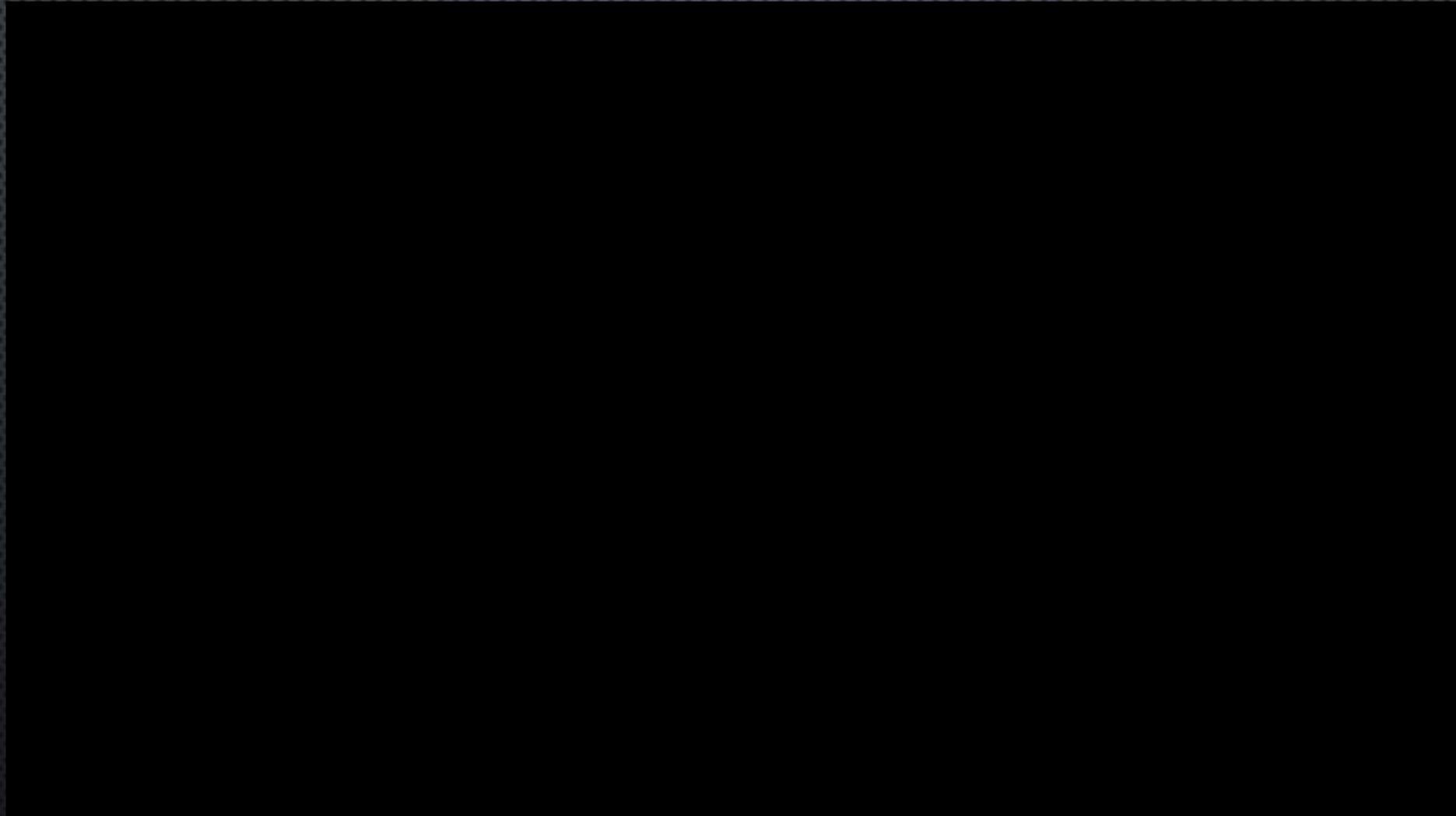


IN THE PAST, MECHANICAL EQUIPMENT HAS BEEN PROTECTED BY RELIEF VALVES

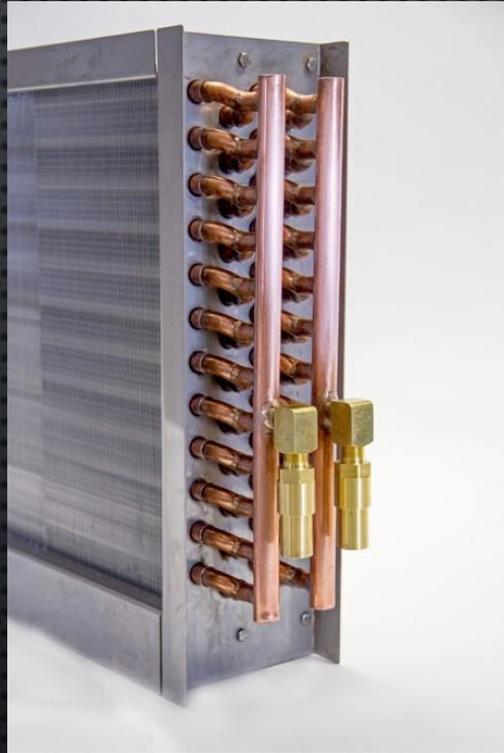
TYPICAL AIR HANDLER UNIT (AHU)



DISCHARGE VALVE



FREEZE BLOCK TECHNOLOGY AS INSTALLED ON HVAC COILS



FLUID



STEAM

SATISFIED END USERS WHO HAVE INSTALLED FREEZE BLOCK TECHNOLOGY

- MERCK PHARMACEUTICALS
- GLAXOSMITHKLINE PHARMACEUTICALS
- PRINCETON UNIVERSITY
- UNIVERSITY OF PENNSYLVANIA
- MUHLENBERG COLLEGE
- BUCKNELL UNIVERSITY
- NATIONAL INSTITUTE OF HEALTH
- UNIVERSITY OF KANSAS
- ST. LUKE'S HOSPITAL
- CAMPBELL'S SOUP
- PHILADELPHIA NAVY YARD
- MARRIOTT HOTELS
- THE WHITE HOUSE
- BORO PARK CENTER REHAB HOSPITAL
- VILLANOVA UNIVERSITY
- ST. JOSEPH'S UNIVERSITY

SATISFIED ENGINEERS WHO HAVE WORKED WITH FREEZE BLOCK TECHNOLOGY

- IRWIN & LEIGHTON (PRINCETON)
- VANDERWEIL (PRINCETON)
- CPN LLC (BOROUGH PARK)
- EMJAY ENGINEERING (JOHN HOPKINS)
- CRB ENGINEERING (GSK)
- WICK FISHER WHITE (L&L)
- RPA ASSOCIATE (GSK)(L&L)
- HEALTH SCIENCES (L&L)
- PRECIS ENGINEERING (MERCK)(L&L)



IT'S
NOT
EASY
BEING
GREEN



IN MANY INSTANCES, FREEZE BLOCK TECHNOLOGY CAN HELP FACILITIES REPLACE GLYCOL IN THEIR SYSTEMS WITH CHILLED OR HOT WATER IN THEIR COILS. THIS CAN HELP ALLEVIATE ENVIRONMENTAL CONCERNS RAISED BY THE POTENTIAL FOR GLYCOL SPILLS.

REPLACING GLYCOL WITH WATER IN HVAC COIL SYSTEMS CAN ALSO RESULT IN ENERGY SAVINGS WITH INCREASED HEAT TRANSFER PERFORMANCE, AS WELL AS ELECTRICAL SAVINGS IN CIRCULATING WATER INSTEAD OF GLYCOL.

THANK YOU!

