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## HUSHCORE™ NOISE REDUCTION SYSTEMS FOR AIR COOLED CHILLERS

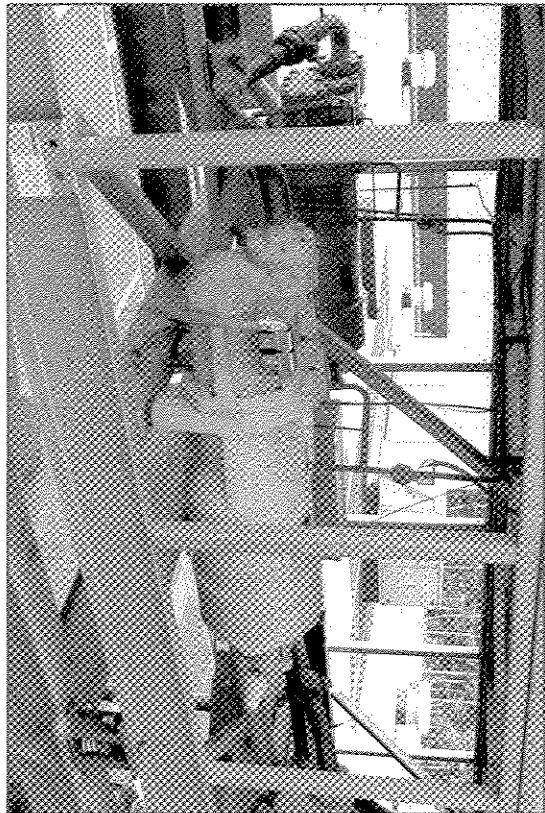
| HUSHCORE™ System         | Treatment Strategy |  | Typical Noise Reductions         | Application Guidelines        |                           |             |                                       |
|--------------------------|--------------------|--|----------------------------------|-------------------------------|---------------------------|-------------|---------------------------------------|
|                          | Source Control     | Direct Path Control                              |                                  |                               |                           |             |                                       |
| Economy (HC-450-1 1/2")  | X                  | HUSH COVERS™ for piping and connected components | HUSH GUARD™ condenser fan panels | HUSH FLEX™ perimeter curtains | HUSH GUARD™ barrier walls | 3 – 5 dBA   | Non Critical                          |
| Standard (HC-450-1 1/2") | X                  | (HG-450-1 1/2")                                  |                                  |                               |                           | 6 – 8 dBA   | Best Value dBA Reduction/\$ Spent     |
| Unitary                  |                    | (HG-200)   |                                  |                               |                           | 4 – 6 dBA   | Condenser Fan Treatment               |
| Premium                  |                    |  | X                                | (EBAC-110R-S)                 |                           | 10 – 12 dBA | Treats Compressors and Condenser Fans |
| Supreme                  |                    |  |                                  |                               | X                         | (HG-400)    | 12 – 15 dBA Noise Sensitive Projects  |
| Ultimate                 |                    |  |                                  |                               | X                         | (HG-400)    | 15 – 20 dBA Critical Projects         |

NOTE: For Critical/Custom applications where greater than 18 dBA reductions are necessary or where boundaries are close to equipment, please consult BRD for assistance.

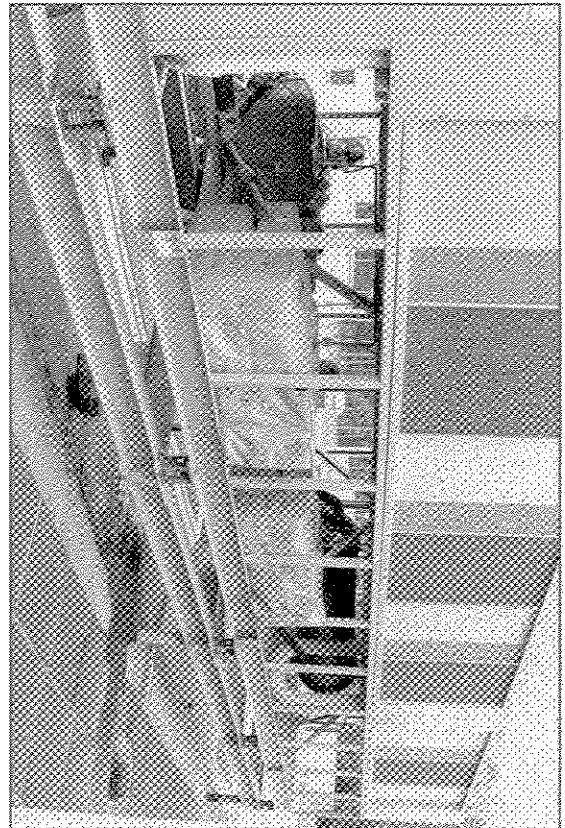
# HUSHCORE™ ECONOMY SYSTEM

## Air Cooled Chillers

- Source Control
- HUSH COVER™ removable sound blankets
- Compressor only treated
- RTAA chiller model shown
- 3 to 5 dBA typical reduction
- HC-450-1 ½" blanket construction
- Wire tie or "D" ring fastening bands
- Non critical attenuation projects



Untreated Chiller Compressors

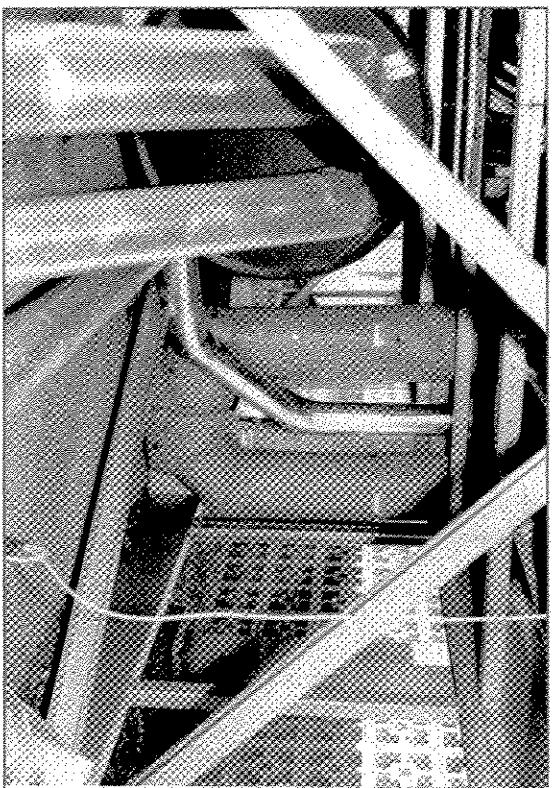


Chiller with HUSH COVER™ Blankets

# **HUSHCORE™ STANDARD SYSTEM**

## Air Cooled Chillers

- Source control
- HUSH COVER™ Removable Sound Blankets
- Compressor, discharge pipes, oil and vapor separators treated
- RTAA and RTAC chiller models shown
- 6 to 8 dBA typical reduction
- HC-450-1 ½" blanket construction
- Wire tie or D ring fastening bands
- Applications for moderate level of noise reduction

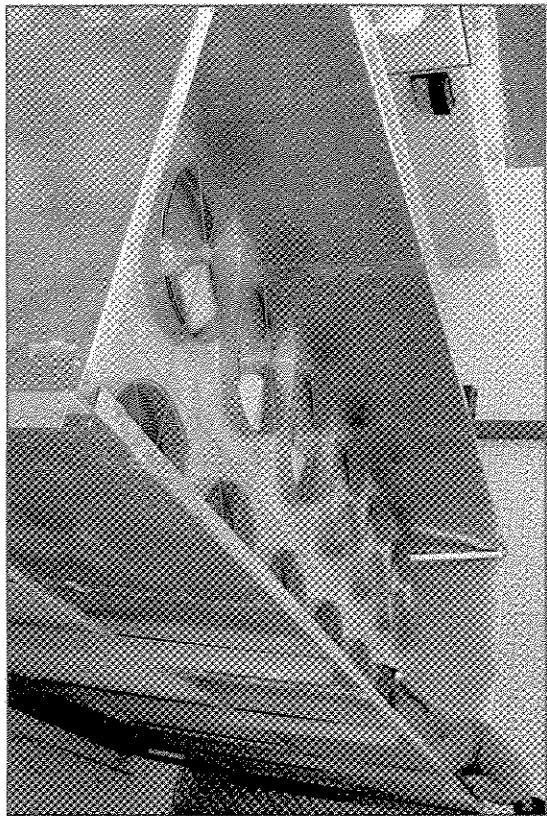


RTAA Oil Separator HUSH COVERS™

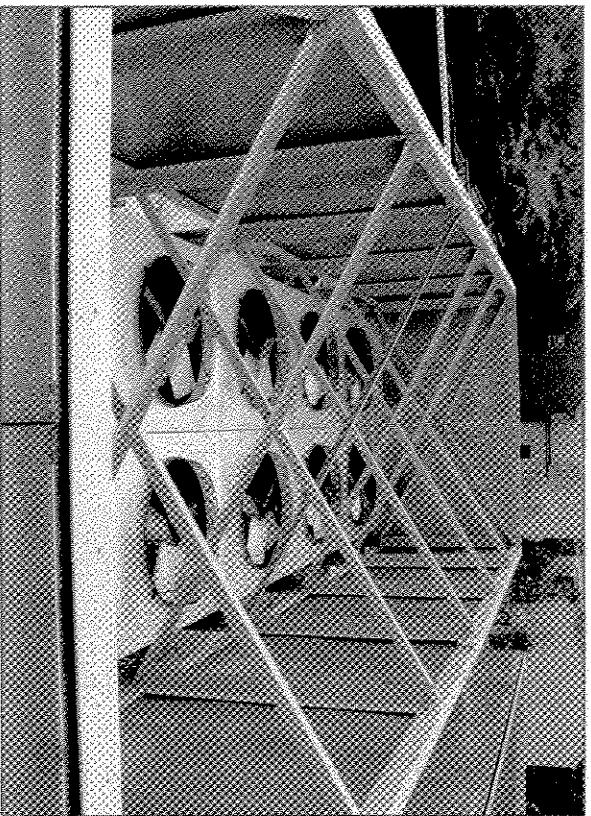
# HUSHCORE™ UNITARY SYSTEM

## Air Cooled Chillers

- Path Control at the source
- HUSH GUARD™ modular acoustical panels
- Attenuates condenser fan noise
- RTAA chiller shown (top)
- 4 to 6 dBA typical reduction
- HG-200 panel construction
  - Outperforms Low Noise Fans
  - Minimal pressure loss impact



Unitary Panels supported by RTAA unit



Unitary Panels Independently Supported

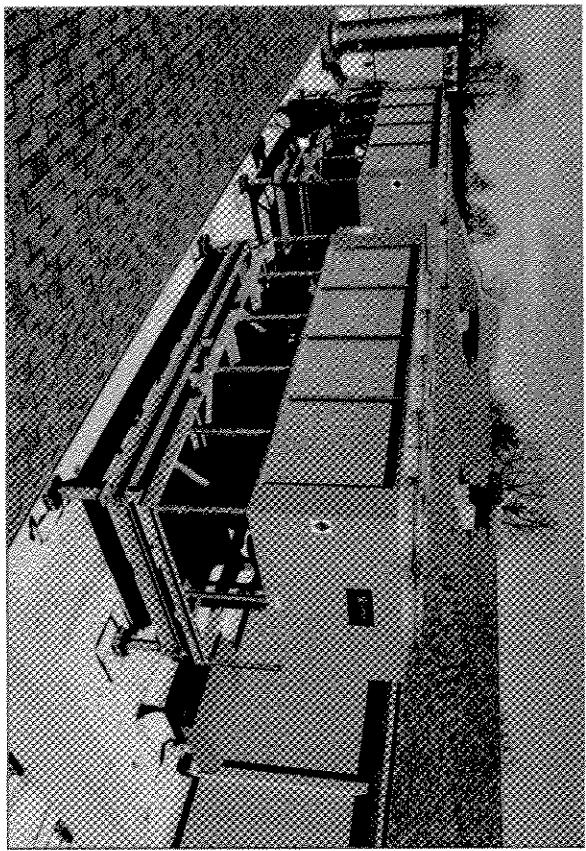
# HUSHCORE™

## PREMIUM

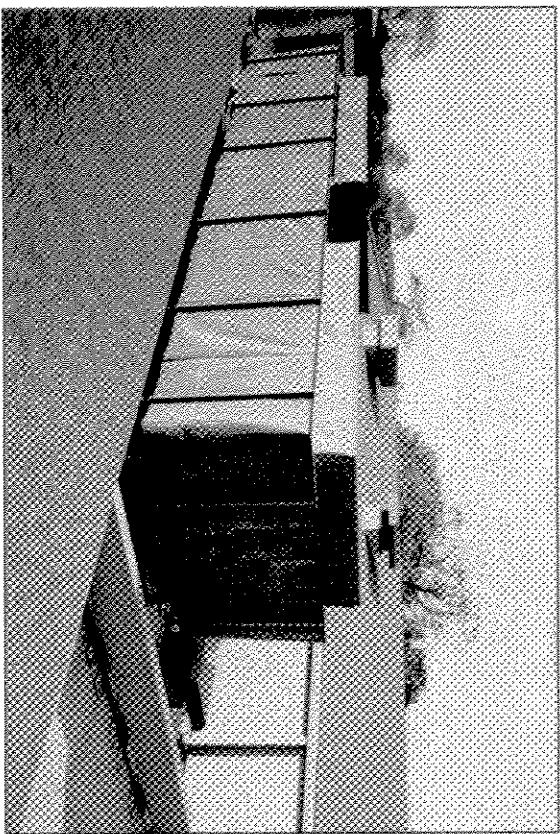
## SYSTEM

### Air Cooled Chillers

- Direct path control
- HUSH FLEX™ acoustical curtain system
- Structural steel support framework or attachment to chain link or other structures
- RTAA chiller model shown
- 10 to 12 dBA typical reduction
- Exterior grade EBAC-110R-S curtain construction
- Applications to attenuate compressor and condenser fan noise



### Untreated Chillers



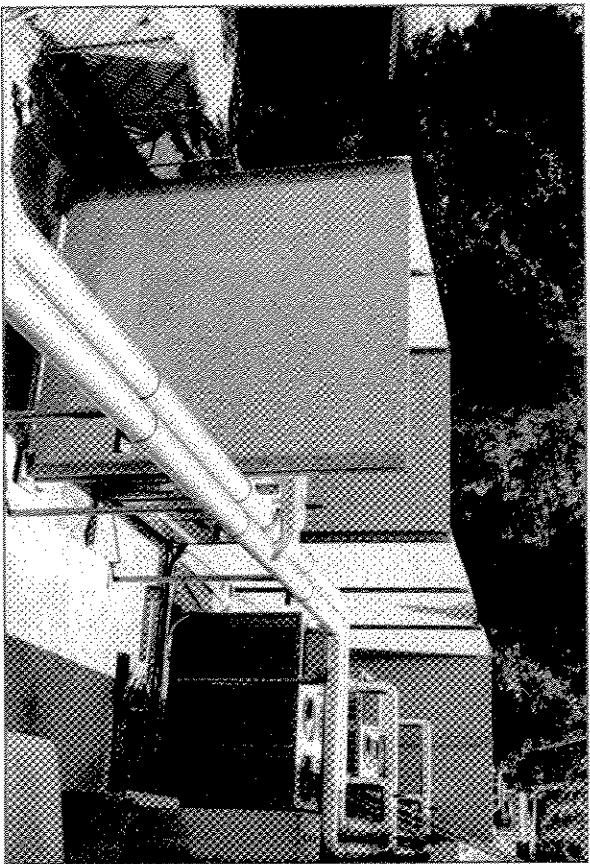
Chillers with HUSH FLEX™ Curtains

# HUSHCORE™

## SUPREME

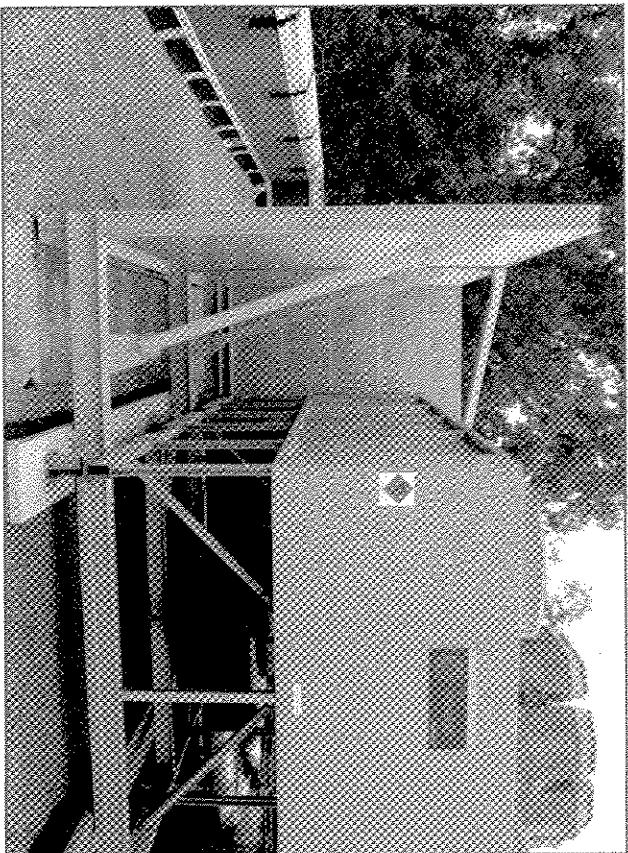
## SYSTEM

### Air Cooled Chillers



Three 60-ton chillers attain 55 dBA at 10'

- Direct path control
- HUSH GUARD™ modular acoustical barrier wall
- Acoustical panels stacked between structural steel support columns
- 12 to 15 dBA typical reduction
- HG-400 panel construction
- Noise Sensitive Installations
  - Height of barrier wall depends on operating clearance around equipment and desired noise reduction.

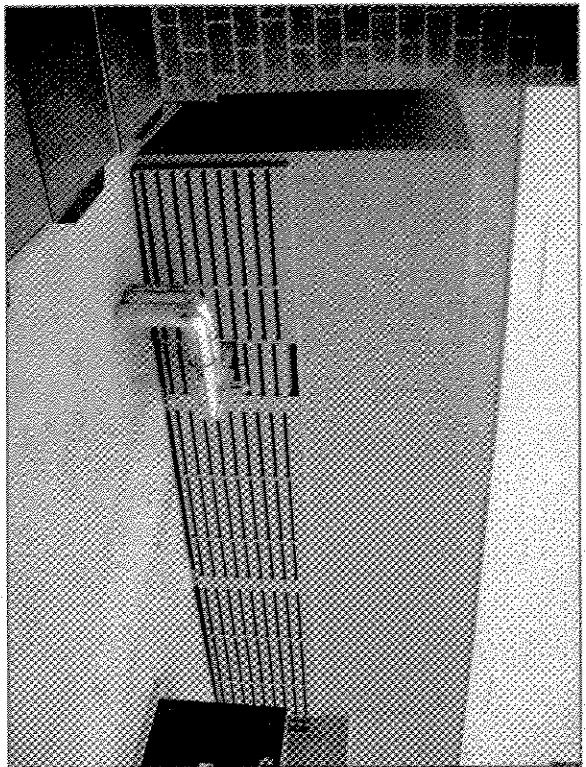


RTAA rooftop unit with HUSH GUARD™  
barrier wall

# HUSHCORE™ ULTIMATE SYSTEM

## Air Cooled Chillers

- Direct Path Control
- HUSH GUARD™ modular acoustical barrier wall
- Acoustical panels stacked between structural steel support columns
- Integrated acoustical air intake and parallel baffle exhaust plenum
- 15 to 20 dBA typical reduction
- HG-400 panel construction
- Critical attenuation projects



Overhead exhaust parallel baffles  
shown from inside looking up