

# Hushcore®

UNITARY(IM-SB)™ SYSTEM



## CHILLER APPLICATION HISTORIC BOSTON NEIGHBORHOOD A SOURCE APPLIED SOUND SOLUTION

### PG. 1 – Source Applied System

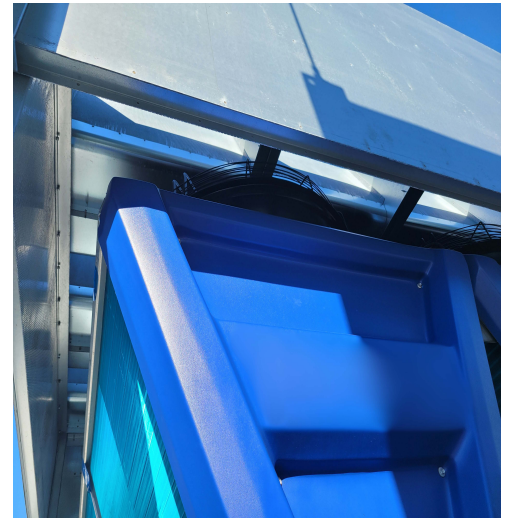
Explore Hushcore® noise control and the source-treatment solution BRD designed and delivered!

### PG. 2: Independently Supported

Discover BRD’s in-house PE capabilities and how we provided a wind load rated sound system independent from the unit structure through upfront planning and construction coordination!

### PG. 3: Installation Supervision

Whether it’s BRD installation, onsite foreman supervision, or simply remote assistance we have the right level of support you and your project needs!



“You can use an eraser on the drafting table or a sledgehammer on the construction site”  
- Frank Lloyd Wright

### CHILLER SOUND CONTROL IN SENSITIVE SETTINGS

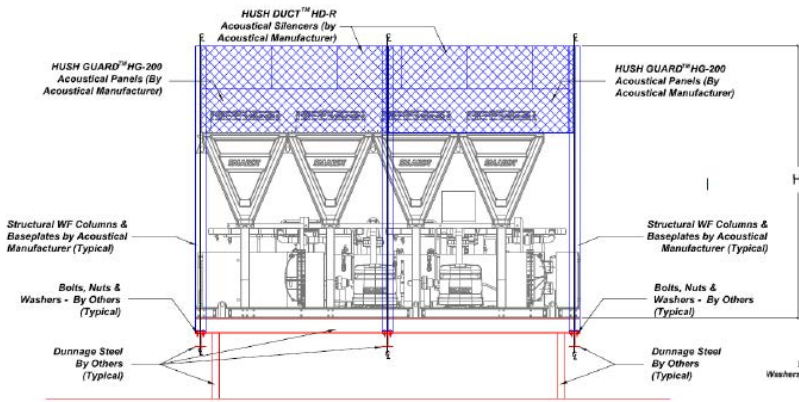
Planned in the heart of Boston’s historic Back Bay neighborhood for a 160+ year old mill building were (3) new chillers expected to exceed local noise codes upon start up. BRD Noise & Vibration Control was brought on by the project acoustician during the planning stage, and tasked with providing a free-standing solution to meet the target dB(A) goals along with minimal pressure drop impact.



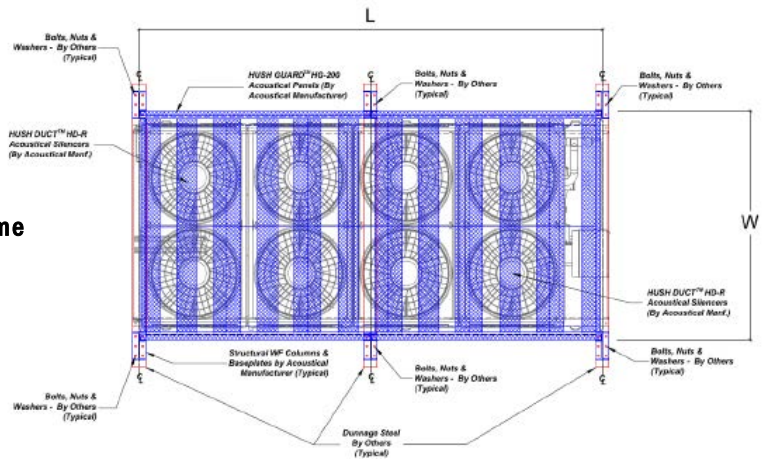
Upon completion of an engineering site visit, BRD designed, built and delivered a PE-rated Unitary-IM-SB System™ Independently Mounted to the chiller platform, with a Silencer Bank suspended above the chiller deck to address the condenser fan exhaust and noise output at the source.

Pictured to the left is a close-up image of the PE-rated baseplate connection used to facilitate the independent system frame.

# No Need for Equipment Integration



- 4' H Source Control System
- 2" Thick Acoustic Panels Supported By Structural Steel Frame
- 2' W Modular Acoustic Silencers
- Anti Air-Recirculation Byproduct.



## HUSHCORE® PANELS & SILENCERS SUPPORTED BY STRUCTURAL STEEL FRAME

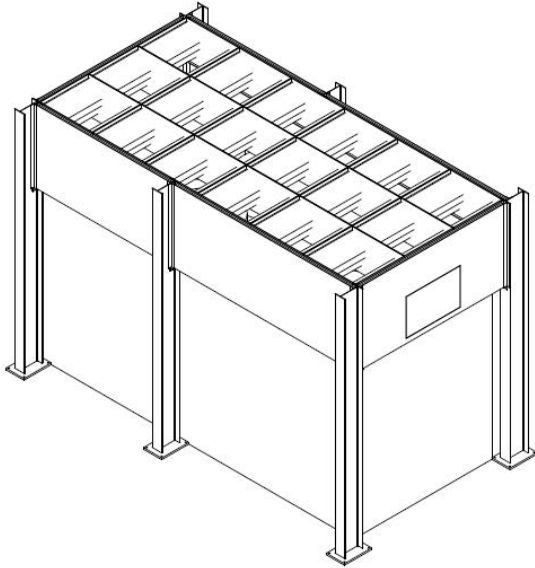
BRD silencers provided additional attenuation and limited fan discharge pressure drop to no more than 0.08" W.G., while exceeding target dB levels. Our Hushcore® Unitary-IM-SB System™ achieved 11 dB(A) reduction on average across the octave bands, performing particularly well at the high frequencies with up to 17 dB(A) reduction in the 1000hz band:

	UNITARY™ IM-SB (Insertion Loss)							
	63hz	125hz	250hz	500hz	1khz	2khz	4khz	8khz
CH-1, CH-2, CH-3								
Baseline Sound Power	50.6	59.8	69.1	76.6	85.5	82.4	75.4	75.8
HUSHCORE® Reductions	-3	-5	-9	-15	-17	-16	-13	-10
New Sound Power	47.6	54.8	66.1	61.6	68.5	66.4	62.4	65.8

BRD's design met wind load requirements, and was PE stamped and approved – providing peace of mind and assurance behind the solution and its performance.



## BRD FOREMAN SUPERVISION



In addition to install documents BRD provided onsite presence and a supervising foreman responsible for direction and oversight of a successful completion of the installation.

Whether your team is looking for a turnkey finished solution, install support, or simply have a question over the phone our project management and fulfillment teams are dedicated to ensuring a successful completion of the project, for all parties!

How can we best serve YOU? Contact us today to start a dialogue or learn more!

Visit [Hushcore.net](http://Hushcore.net) or call us at 610-863-6300!



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