



CHILLER NOISE REDUCTION SYSTEM

HUSHCORE® *UNITARY™ IM* Chiller Noise Reduction System:

- a. Shall consist of HUSH GUARD™ Acoustical Panels.
 - 1. HUSH GUARD™ Acoustical Panels shall consist of a sandwich construction of galvanized outside and inside steel barriers with acoustical insulation fill. The acoustical panels shall surround the condenser fans in a barrier wall configuration and shall be supported by structural steel columns independent of the chiller.
 - 2. The complete system shall be designed & stamped by a licensed professional engineer to meet all gravity, wind and seismic codes for the state of _____.
- b. The complete system shall meet chiller manufacturers published data pertaining to heat loss of compressors, condenser fan airflow, and ensure minimal “de-rating” of chiller performance. Total System Effect Pressure Drop shall not exceed 0.10 in.wg.
- c. The complete system shall meet all environmental conditions such as temperature, wind, shrinkage, UV-rays, and moisture.
- d. OEM Factory Acoustical Packages by the Chiller Manufacturer are not acceptable.
- e. The complete system is designed for a "elevated" receiver position.
- f. Products and Systems shall be by BRD Noise and Vibration Control, Inc., Wind Gap, PA - (610) 863-6300, www.HUSHCORE.net.

ACOUSTICAL PERFORMANCE

- a. To assure optimized aerodynamic and acoustic performance as well as proper integration and coordination of the final installation, the HUSHCORE® System shall be supplied by the chiller unit manufacturer as part of a complete package.
- b. All Noise Control Materials Manufacturer's shall deliver a complete submittal of the HUSHCORE® System in compliance with the acoustical performance as listed in this specification. Please contact BRD Noise and Vibration Control, Inc. (610) 863-6300 for acoustical compliance and noise reductions as listed below for the applicable project.
 - 1. When operating at worst case noise conditions, the chiller with prescribed noise treatments shall not exceed [] dBA at a distance of [].
 - 2. Chiller Sound Power (Lw), including the specified HUSHCORE® System, shall not exceed the following octave band sound levels:

Freq. (Hz)	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	<u>8000</u>
Sound Power (Lw)	[]	[]	[]	[]	[]	[]	[]	[]