



Quieting Temporary Chillers

Temporary chillers are frequently used to provide make-up or additional cooling capacity during building expansions or remodeling. Often, these chillers must be placed outside the existing building, which can result in community noise concerns.

A recent large building project required the use of temporary HVAC ventilation equipment during the renovation of the building's mechanical equipment. Repairs to this equipment had to be conducted during a period of time when the building's cooling requirements were high.

In order to fill the short-term cooling and ventilation needs of the building, a massive installation of temporary air conditioning equipment with 22,000 tons (77,000 kJ / sec.) total refrigeration capacity [including a large water chiller of 7,000 tons (24,600 kJ / sec.) capacity] was organized. This three-month contract with the equipment suppliers was reportedly the world's largest short-term rental of such machinery.

Since the temporary chillers were to be placed at street level adjacent to the building, the project's acoustical consultant recommended that the chillers be wrapped with Kinetics Model KBC-100 BQQ quilted barrier / absorber composite noise control material in order to lower the airborne noise levels of these large machines.

Kinetics supplied this composite material in roll form. The local installing contractor used field-installed grommets and custom fit the composite material using Kinetics trim kits.

In total, ninety-eight (98) rolls, each roll sized 48 in x 25 ft long (1.2 m x 7.6 m), of Kinetics Model KBC-100 BQQ were supplied through our New York Kinetics sales agency, Vibration Products Company of West Nyack. According to Richard Paris of Vibration Products, a significant reduction in radiated noise was achieved.

