

PASSIVE NOISE CONTROL (PNC)

For Sound-Sensitive Applications

Nortek Air Solutions offers a Passive Noise Control (PNC) cone for added sound reduction in sound-sensitive applications. Nortek Air Solutions' proprietary PNC cone is installed at the inlet of each fan cube to absorb a portion of the fan inlet sound. It can help achieve up to 12dB in sound reduction. In the 63Hz, 125Hz, and 250Hz octave bands, it can achieve up to 5dB in sound reduction. Because the human ear can perceive a change in decibels of 3dB or more, this technology can make an appreciable difference for building occupants' comfort.

PNC is available for 16", 18", 20", and 22" fans and comes factory-installed. For knockdown units that will be field-assembled or retrofit projects, PNC is easy to install: each cone can simply be bolted to the fan and then sealed with caulk to prevent air bypass.

PNC is also compatible with Nortek Air Solutions' backdraft damper, which not only helps idled fans achieve near-zero system effect impact but can also improve acoustical performance.

PNC makes a great option when the budget won't support a commercial sound attenuator upstream of the FANWALL® System. It's also ideal for applications with significant space constraints, as it adds only 22.5" to the fan inlet, compared to a commercial sound attenuator that would require an additional four to eight feet for the attenuator itself and the upstream access section.

Key Benefits

- **Reduced sound levels** up to 5dB in the 63Hz, 125Hz, and 250Hz octave bands and up to 12dB overall
- **Space and cost savings** compared to a commercial sound attenuator

Applications

- Music halls
- Museums
- Universities
- Libraries
- Offices
- Any sound-sensitive application

