

FAN ARRAY FAN SECTION IN AIR-HANDLING SYSTEMS

ABSTRACT

A fan array fan section in an air-handling system includes a plurality of fan units arranged in a fan array. Each fan unit is positioned within a fan unit chamber/cell. Each fan unit chamber/cell has at least one acoustically absorptive insulation surface. The insulation surfaces of the fan unit chambers/cells together form a coplanar silencer. Sound waves from the fan units passing through the insulation surface at least partially dissipate as they pass therethrough. In one preferred embodiment the fan unit chamber/cell is a cell having a frame that supports the insulation surfaces.

[Fig. 18]