

Mechanical Technical Report 1
ASHRAE Standard 62.1 Ventilation Compliance Evaluation

October 5, 2006

Executive Summary

This report analyzes the amount of ventilation air supplied to the Straumann USA facility for compliance with ASHRAE Standard 62.1-2004. Straumann USA is a two story combination office/manufacturing building located in Andover, MA

Nine variable volume rooftop air handling units condition the air supplied to all but one of the spaces located in Straumann USA and range from 24,000 cfm - 33000 cfm. The auditorium for the facility is served by a constant volume 6,400 cfm air handling unit. The four air-handling units which serve the manufacturing space are not considered in this report since they may require additional ventilation requirements depending on processes that occur within that space.

The ventilation rate procedure was applied to the remaining six units of the facility. If a space did not directly fall into an occupancy category, it was assigned ventilation values of spaces with similar characteristics. Each of the units analyzed met and exceeded the required amount of ventilation air by at least 53%. Therefore, rooftop air handling units 1-6 all comply with ASHRAE Standard 62.1-2004.