3/14/11

Project: Hartnell College / Salinas, CA

Ed:

In response to Nick’s e-mail about correcting the sound and ventilation issues, here are a few ideas.

Ventilation (smoke escaping from the booths):

1. The slot velocity on the booths range from 330 to 680 FPM. Min is 300FPM. Meets design specifications.

Recommend to balance the air flow across all the slots.

Smoke is escaping due to “drafting”. The return air is blowing past the booths creating a draft. Velocity is around 200FPM.

Solution is to redirect the return air upward.

Sound levels in the lab (currently around 90 decibels):

1. What is the sound level required?

2. Add Silencer to each return airline. Will reduce about 10 to 12 decibels. Cost to Avani is $3080.00 for 2 silencers.

3. Add sound blankets. After the discharge of the return air, add sound blankets about 10 feet from the discharge to absorb some of the sound. Also this will redirect the air so it will not go straight down the aisles.

Bob