

Ray Begin

From: Chip Higbee [chigbee@imcconsultingengineers.com]
Sent: Friday, September 21, 2007 6:05 PM
To: Ray Begin
Subject: Church

Ray,

Just to follow up on your church project.

1. The air flow appears ok for the load, but be sure to adjust the capacity for outside air. At a 10% outside air flow your mixed air temp entering the coil will be about 77 deg DB / 64.6 deg WB. If you exceed 10% outside air for whatever reason you need to start looking at some sort of humidity control feature on those units exceeding 10%. You want to make sure you're leaving the coil at 55 deg DB max to get decent latent performance. I would even suggest going lower (maybe 53 deg F) in the sanctuary to deal with the increased latent from the occupants. At a minimum I would put a 1500 cfm positive pressure on the building. As you know negative air pressure is a very bad thing.
2. You need to be extra cautious with the large ceiling cavity above the office areas. I would shy away from a ventilated ceiling space above a suspended ceiling. You have two choices. Make sure the building is tight and insulate above the suspended ceiling making the ceiling space an unconditioned, but tight space. The other choice is to insulate at the roof and condition the ceiling space. Either works, but if the building is not tight and you have an unconditioned ceiling space over a suspended ceiling you're asking for trouble. Also don't forget the R8 duct insulation requirement in an unventilated attic space if you go with the first option.
3. I agree that locating the equipment on a mezzanine above the bathrooms will make for a more maintenance friendly installation. I wouldn't be overly concerned with insulation. We typically mount the units on a neoprene pad in the safety pan and use flex connections with no complaints.

I think that about covers it. thx

(cell) 501 908 1158

Floor Plan in .pdf
to Bryan

Dammon Engineering

From: Keith Schleusener [keiths@ceg-itl.com]
Sent: Tuesday, September 25, 2007 2:14 PM
To: 'Dammon Engineering'
Subject: Lakeshore Church.

The catalog number for the fixture in the sanctuary is Kramer #KL8-500QT-WD-CFF-P-120V-Black

You see that the lobby has changed significantly. I am going to layout the lighting for the lobby and the kid's lobby between the women's restroom and the nursery. I will get that to you soon. Also the dimming system I will spec for you.

Call me about the modifications on the plans after you have digested them.

Keith Schleusener L.C.

Lighting Consultant
Creative Engineering Group
Image Thru Lighting
Principal
985 249-5706

1. Foundation drawings with new carport.
2. Sanctuary roof gable on both ends.