

Underfloor Air Distribution System example

Zone

General | Lighting | Mechanical | Schedules

Standard Lighting

- Use Standard LPD Standard: 1.500 W/ft²
- Use Calculated Tailored LPD Tailored: 0.000 W/ft²
- Override with Tailored LPD Override: 1.800 W/ft²

Proposed Lighting

- Use Standard LPD (No Plans) Standard: 1.500 W/ft²
- Use Installed LPD Installed: 0.000 W/ft²
- Override with Modeled LPD Override: 1.690 W/ft²

Portable Lighting for Offices > 250 sqft

- Use Standard LPD (No Plans) Standard: 0.200 W/ft²
- Use Installed LPD Installed: 0.000 W/ft²
- Override with Portable LPD Override: 0.000 W/ft²
- Non-office function, or Area is <= 250 sqft
- Documentation is provided showing Adequate Light Levels

Lighting Type: Rec Fluor Return Vent Heat to Zone: 10 %

OK Cancel

Lighting Type set to Recessed Fluorescent Return Vent

Set Heat to Zone between 0 and 10%

Central System

Heating | Cooling | Economizer | Fans | Evaporative Cooling

Cooling Coil:

Coil Control: Warmest Zone

Total Output: 234000 Btu/hr

Sensible Output: 200055 Btu/hr

Supply Temp: 63 °F

Efficiency: 9.70 SEER

Performance at ARI Conditions

- Energy Efficiency Ratio: 12.00 EER
- Compressor/Condenser Power: 0.0 kW

Fan Heat Included in Output Ratings

Condenser:

Condenser Type: Air Cooled

Evap PCC Eff: 0.80

Pump Motor

Design Power: 0.000 hp

Drive Efficiency: 97.0 %

Motor Efficiency: Standard

Room A/C & Room Heat Pump

Side Louvers

OK Cancel

Coil control set to Warmest Zone

Supply temperature set to 63° to possibly 65°F

Central System

Heating | Cooling | Economizer | Fans | Evaporative Cooling

Air Economizer Characteristics

Economizer Type: Diff. Enth (Integrated)

Limit Temperature: 75 °F

Water Side Economizer

OK

Economizer should be either differential enthalpy or differential temperature integrated

Central System

Heating | Cooling | Economizer | Fans | Evaporative Cooling

Fan Operation

- Continuous during occupied hours
- Cycle on with load

Supply Fan

Fan Control: Variable Speed

Fan Type: Draw-Through

Airflow: 6610 cfm

Design Power: 6.410 hp

Drive Efficiency: 97.0 %

Motor Efficiency: Premium Eff

Return Fan

Airflow: 0 cfm

Design Power: 0.000 hp

Drive Efficiency: 97.0 %

Motor Efficiency: Premium Eff

OK Cancel

These systems typically operate at lower static pressures between 1.5 to 2.0 in. w.c.. This translates into lower fan bhp