

System Component Selection Summary

By Spectrum Engineers

Alternative 1

System Description: RTU

System Type: Single Zone

Number of Zones: 1

Number of Rooms: 1

| Component | Sizing Method | Location | Quantity |
|----------------------|----------------|----------|----------|
| Cooling | | | |
| Main Clg Coil | Peak | Zone | 1 |
| Primary Clg Fan | Peak | Zone | 1 |
| Heating | | | |
| Main Htg Coil | Peak | Zone | 1 |
| Miscellaneous | | | |
| System Exhaust Fan | Vent+Inf-RmExh | System | 1 |
| Return Fan | Return Airflow | System | 1 |

| Coil Location | | | Cooling Coil Selection | | | | | | | | | | | |
|---------------|------|-------------------|------------------------|---------|----------------|-------|----------|------------|------------------|------|-------|------------------|------|-------|
| System | Zone | Room | Component | Time | Total Capacity | | Sensible | Airflow At | Enter DB/ WB/ HR | | | Leave DB/ WB/ HR | | |
| | | | | Of Peak | ton | MBh | Capacity | Coil Peak | °F | °F | gr/lb | °F | °F | gr/lb |
| | | BLDG D Block Load | Main Clg Coil | 7/14 | 11.2 | 134.1 | 130.5 | 5,534 | 76.9 | 56.0 | 45.5 | 52.0 | 45.9 | 44.1 |

| Coil Location | | | Heating Coil Selection | | | | |
|---------------|------|-------------------|------------------------|--------------------|-------------|----------------------|---------------------|
| System | Zone | Room | Component | Total Capacity MBh | Airflow cfm | Entering Dry Bulb °F | Leaving Dry Bulb °F |
| | | BLDG D Block Load | Main Htg Coil | -180.1 | 5,534 | 65.6 | 100.0 |

| Component Location | | | Miscellaneous Component Selection | | | | | | | |
|--------------------|------|-------------------|-----------------------------------|---------------------------|--|---------------|--------------------|------|---------------------|---------------------|
| System | Zone | Room | Component | Design Airflow cfm Ach/hr | | Outside Air % | SADB Clg Htg °F °F | | Clg VAV Minimum cfm | Htg VAV Maximum cfm |
| RTU | | | Return Fan | 5,750 | | | | | | |
| RTU | | | Optional Vent Fan | 458 | | 100 | | | | |
| RTU | | | System Exhaust Fan | 674 | | | | | | |
| | | BLDG D Block Load | Primary Fan | 5,534 | | 8.3 | 52.0 | | | |
| | | BLDG D Block Load | Diffuser | 5,534 | | 7.7 | 8.3 | 52.0 | 100.0 | |