

Ventilation Sizing Summary for Packaged Rooftop AHU

Project Name: HAP44 Example Problem
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09/02/2008
 09:44AM

1. Summary

Ventilation Sizing Method **ASHRAE Std 62.1-2004**
 Design Condition **Minimum flow (heating)**
 Occupant Diversity **1.000**
 Uncorrected Ventilation Airflow Rate **2922** CFM
 System Ventilation Efficiency **0.805**
 Design Ventilation Airflow Rate **3630** CFM

2. Space Ventilation Analysis Table

Zone Name / Space Name	Mult.	Minimum Supply Air (CFM)	Floor Area (ft ²)	Required Outdoor Air (CFM/ft ²)	Time Averaged Occupancy	Required Outdoor Air (CFM/person)	Air Distribution Effectiveness	Required Outdoor Air (CFM)	Uncorrected Outdoor Air (CFM)	Space Ventilation Efficiency
D101 - Classroom										
D101 - Typical Classroom	1	449	907.5	0.12	25.0	10.00	0.80	449	359	0.805
D102 - Classroom										
D101 - Typical Classroom	1	449	907.5	0.12	25.0	10.00	0.80	449	359	0.805
D103 - Classroom										
D101 - Typical Classroom	1	449	907.5	0.12	25.0	10.00	0.80	449	359	0.805
D104 - Classroom										
D104 - Classroom	1	449	907.5	0.12	25.0	10.00	0.80	449	359	0.881
D106 - Classroom										
D106 - Classroom	1	449	907.5	0.12	25.0	10.00	0.80	449	359	0.902
D107 - Classroom										
D107 - Classroom	1	449	907.5	0.12	25.0	10.00	0.80	449	359	0.805
D108-111 Music Room										
D108 - Music Room	1	759	1781.0	0.06	50.0	10.00	0.80	759	607	0.817
D109 - Practice Room	1	17	65.0	0.06	1.0	10.00	0.80	17	14	0.817
D110 - Storage Room	1	18	120.0	0.12	0.0	0.00	0.80	18	14	0.817
D111 - Office	1	19	174.0	0.06	1.0	5.00	0.80	19	15	0.817
D113 - West Corridor										
D113 - West Corridor	1	79	1054.0	0.06	0.0	0.00	0.80	79	63	1.086
D114 - South Corridor										
D114 - South Corridor	1	69	920.0	0.06	0.0	0.00	0.80	69	55	1.086
Totals (incl. Space Multipliers)		3653							2922	0.805