

Monthly Simulation Results for HVAC

Project Name: 64_freeze02
Prepared by: Mega Marketplace

06/03/2024
09:40PM

Air System Simulation Results (Table 1) :

Month	Central Cooling Coil Load (kBTU)	Central Cooling Eqpt Load (kBTU)	Central Unit Clg Input (kWh)	Central Heating Coil Load (kBTU)	Central Heating Coil Input (kWh)	Supply Fan (kWh)	Lighting (kWh)
January	5055	3450	166	19734	5784	0	5442
February	6632	5880	292	15393	4511	0	4916
March	11931	10545	537	12332	3614	0	5442
April	20082	20082	1124	2847	834	0	5267
May	29358	29358	1798	455	133	0	5442
June	37899	37701	2487	0	0	0	5267
July	52742	51690	3561	0	0	0	5442
August	45198	44445	3034	47	14	0	5442
September	28589	28368	1773	511	150	0	5267
October	20421	20421	1141	1981	581	0	5442
November	10643	10352	532	11086	3249	0	5267
December	6535	5884	285	16921	4959	0	5442
Total	275086	268176	16730	81308	23829	0	64079

Air System Simulation Results (Table 2) :

Month	Electric Equipment (kWh)
January	2232
February	2016
March	2232
April	2160
May	2232
June	2160
July	2232
August	2232
September	2160
October	2232
November	2160
December	2232
Total	26280

Unmet Load Report for HVAC

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Note: Data shown in this report is for diagnostic purposes only. Values represent total unmet hours for each cooling and/or heating unit. No deductions are made when unmet hours for one unit coincide with those in another unit.

1. Unmet Load Statistics - Central Cooling Unit - Air-Cooled DX

Month	Equipment Capacity is Sufficient (hrs)	Capacity Insufficient by 0%-5% (hrs)	Capacity Insufficient by 5%-10% (hrs)	Capacity Insufficient by >10% (hrs)	Total Hours with Unmet Loads	Total Hours with Equipment Loads
January	133	0	0	90	90	223
February	186	0	0	39	39	225
March	296	0	0	53	53	349
April	471	0	0	0	0	471
May	631	0	0	0	0	631
June	668	2	4	9	15	683
July	687	14	12	26	52	739
August	676	9	10	27	46	722
September	572	1	3	10	14	586
October	527	0	0	0	0	527
November	300	0	0	18	18	318
December	220	0	0	36	36	256
Total	5367	26	29	308	363	5730

Zone Temperature Report for HVAC

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1. Zone Temperature Statistics

	Occ	Occ	Occ	Occ	Occ	Occ	Occ	Occ	Occ	Unocc	Unocc	Unocc	Unocc
	Max Zone Temp (°F)	Hours More Than 5.0 °F Above Throt. Range	Hours 1.0 to 5.0 °F Above Throt. Range	Cooling Setpoint plus Throt. Range (°F)	Hours Within Throt. Range or Dead- band	Heating Setpoint minus Throt. Range (°F)	Hours 1.0 to 5.0 °F Below Throt. Range	Hours More Than 5.0 °F Below Throt. Range	Min Zone Temp (°F)	Max Zone Temp (°F)	Cooling Setpoint plus Throt. Range (°F)	Heating Setpoint minus Throt. Range (°F)	Min Zone Temp (°F)
Zone Name													
Zone 1	78.2	0	106	76.5	4217	68.5	0	0	74.7	80.9	81.5	63.5	76.1

Note: For any occupied hours in which cooling is unavailable or scheduled off, zone temperature out of range statistics are not reported.

Note: For any occupied hours in which heating is unavailable or scheduled off, zone temperature out of range statistics are not reported.

Engineer's Team