

Program Version: **EnergyPlus 6.0.0.023, 07/01/2011 00:14**

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Tabular Output Report in Format: **HTML**

Building: **Murbo**

Environment: **KARLSTAD - SWE IWEC Data WMO#=024180**

Simulation Timestamp: **2011-01-07 00:14:42**

Report: **AnnualBuildingUtilityPerformanceSummary**

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For: **Entire Facility**

Timestamp: **2011-01-07 00:14:42**

Values gathered over 8760.00 hours

Site and Source Energy

	Total Energy [kWh]	Energy Per Total Building Area [kWh/m2]	Energy Per Conditioned Building Area [kWh/m2]
Total Site Energy	8882.07	24.48	48.95
Net Site Energy	8882.07	24.48	48.95
Total Source Energy	28403.19	78.27	156.54
Net Source Energy	28403.19	78.27	156.54

Site to Source Energy Conversion Factors

	Site=>Source Conversion Factor
Electricity	3.167
Natural Gas	1.084
District Cooling	1.056
District Heating	3.613
Steam	0.300
Gasoline	1.050
Diesel	1.050
Coal	1.050
Fuel Oil #1	1.050
Fuel Oil #2	1.050
Propane	1.050

Building Area

	Area [m2]
Total Building Area	362.88
Net Conditioned Building Area	181.44
Unconditioned Building Area	181.44

End Uses

	Electricity [kWh]	Natural Gas [kWh]	Other Fuel [kWh]	District Cooling [kWh]	District Heating [kWh]	Water [m3]
Heating	3894.97	0.00	0.00	0.00	0.00	0.00
Cooling	0.00	0.00	0.00	0.00	0.00	0.00
Interior Lighting	109.50	0.00	0.00	0.00	0.00	0.00
Exterior Lighting	0.00	0.00	0.00	0.00	0.00	0.00
Interior Equipment	3987.00	0.00	0.00	0.00	613.20	0.00
Exterior Equipment	0.00	0.00	0.00	0.00	0.00	0.00
Fans	102.20	0.00	0.00	0.00	0.00	0.00
Pumps	0.00	0.00	0.00	0.00	0.00	0.00
Heat Rejection	0.00	0.00	0.00	0.00	0.00	0.00
Humidification	0.00	0.00	0.00	0.00	0.00	0.00
Heat Recovery	175.20	0.00	0.00	0.00	0.00	0.00
Water Systems	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration	0.00	0.00	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00	0.00
Total End Uses	8268.87	0.00	0.00	0.00	613.20	0.00

Note: Electricity appears to be the principal heating source based on energy usage.

End Uses By Subcategory

	Subcategory	Electricity [kWh]	Natural Gas [kWh]	Other Fuel [kWh]	District Cooling [kWh]	District Heating [kWh]	Water [m3]
Heating	General	3894.97	0.00	0.00	0.00	0.00	0.00
Cooling	General	0.00	0.00	0.00	0.00	0.00	0.00
Interior Lighting	General	109.50	0.00	0.00	0.00	0.00	0.00

Exterior Lighting	General	0.00	0.00	0.00	0.00	0.00	0.00
Interior Equipment	General	3987.00	0.00	0.00	0.00	613.20	0.00
Exterior Equipment	General	0.00	0.00	0.00	0.00	0.00	0.00
Fans	Ventilation (simple)	0.00	0.00	0.00	0.00	0.00	0.00
	VMC Rdc	51.10	0.00	0.00	0.00	0.00	0.00
	VMC Etage	51.10	0.00	0.00	0.00	0.00	0.00
Pumps	General	0.00	0.00	0.00	0.00	0.00	0.00
Heat Rejection	General	0.00	0.00	0.00	0.00	0.00	0.00
Humidification	General	0.00	0.00	0.00	0.00	0.00	0.00
Heat Recovery	General	175.20	0.00	0.00	0.00	0.00	0.00
Water Systems	General	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration	General	0.00	0.00	0.00	0.00	0.00	0.00
Generators	General	0.00	0.00	0.00	0.00	0.00	0.00

Normalized Metrics

Utility Use Per Conditioned Floor Area

	Electricity Intensity [kWh/m ²]	Natural Gas Intensity [kWh/m ²]	Other Fuel Intensity [kWh/m ²]	District Cooling Intensity [kWh/m ²]	District Heating Intensity [kWh/m ²]	Water Intensity [m ³ /m ²]
Lighting	0.60	0.00	0.00	0.00	0.00	0.00
HVAC	22.03	0.00	0.00	0.00	0.00	0.00
Other	22.94	0.00	0.00	0.00	3.38	0.00
Total	45.57	0.00	0.00	0.00	3.38	0.00

Utility Use Per Total Floor Area

	Electricity Intensity [kWh/m ²]	Natural Gas Intensity [kWh/m ²]	Other Fuel Intensity [kWh/m ²]	District Cooling Intensity [kWh/m ²]	District Heating Intensity [kWh/m ²]	Water Intensity [m ³ /m ²]
Lighting	0.30	0.00	0.00	0.00	0.00	0.00
HVAC	11.02	0.00	0.00	0.00	0.00	0.00
Other	11.47	0.00	0.00	0.00	1.69	0.00
Total	22.79	0.00	0.00	0.00	1.69	0.00

Electric Loads Satisfied

	Electricity [kWh]	Percent Electricity [%]
Fuel-Fired Power Generation	0.00	0.00
High Temperature Geothermal*	0.00	0.00
Photovoltaic Power	0.00	0.00
Wind Power*	0.00	0.00
Net Decrease in On-Site Storage	0.00	0.00
Total On-Site Electric Sources	0.00	0.00
Electricity Coming From Utility	8268.87	100.00
Surplus Electricity Going To Utility	0.00	0.00
Net Electricity From Utility	8268.87	100.00
Total On-Site and Utility Electric Sources	8268.87	100.00
Total Electricity End Uses	8268.87	100.00

On-Site Thermal Sources

	Heat [kWh]	Percent Heat [%]
Water-Side Heat Recovery	0.00	0.00
Air to Air Heat Recovery for Cooling	0.28	0.00
Air to Air Heat Recovery for Heating	6130.31	100.00
High-Temperature Geothermal*	0.00	0.00
Solar Water Thermal	0.00	0.00
Solar Air Thermal	0.00	0.00
Total On-Site Thermal Sources	6130.59	100.00

Water Source Summary

	Water [m3]	Percent Water [%]
Rainwater Collection	0.00	-
Condensate Collection	0.00	-
Groundwater Well	0.00	-
Total On Site Water Sources	0.00	-
-	-	-
Initial Storage	0.00	-
Final Storage	0.00	-
Change in Storage	0.00	-
-	-	-

Water Supplied by Utility	0.00	-
-	-	-
Total On Site, Change in Storage, and Utility Water Sources	0.00	-
Total Water End Uses	0.00	-

Comfort and Setpoint Not Met Summary

	Degrees [deltaC]
Tolerance for Time Heating Setpoint Not Met	0.20
Tolerance for Time Cooling Setpoint Not Met	0.20

	Facility [Hours]
Time Set Point Not Met During Occupied Heating	700.83
Time Set Point Not Met During Occupied Cooling	0.00
Time Not Comfortable Based on Simple ASHRAE 55-2004	3872.17

Note 1: An asterisk (*) indicates that the feature is not yet implemented.

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	Value
Program Version and Build	EnergyPlus 6.0.0.023, 07/01/2011 00:14
Weather	KARLSTAD - SWE IWEC Data WMO#=-024180
Latitude [deg]	59.37
Longitude [deg]	13.47
Elevation [m]	55.00
Time Zone	1.00
North Axis Angle [deg]	12.00
Rotation for Appendix G [deg]	0.00
Hours Simulated [hrs]	8760.00

ENVELOPE**Window-Wall Ratio**

	Total	North (315 to 45 deg)	East (45 to 135 deg)	South (135 to 225 deg)	West (225 to 315 deg)
Gross Wall Area [m2]	277.16	75.60	62.98	75.60	62.98
Window Opening Area [m2]	13.47	0.40	2.00	9.87	1.20
Window-Wall Ratio [%]	4.86	0.53	3.18	13.06	1.91

Skylight-Roof Ratio

	Total
Gross Roof Area [m2]	101.68
Skylight Area [m2]	0.00
Skylight-Roof Ratio [%]	0.00

PERFORMANCE

Zone Summary

	Area [m2]	Conditioned (Y/N)	Volume [m3]	Multipliers	Gross Wall Area [m2]	Window Glass Area [m2]	Lighting [W/m2]	People [m2] per person	Plug and Process [W/m2]
HYPOCAUSTE	90.72	No	0.01	1.00	30.88	0.00	0.0000		0.0000
RDC	90.72	Yes	180.00	1.00	108.08	4.32	0.5511	90.72	53.1305
ETAGE	90.72	Yes	180.00	1.00	121.59	3.98	0.5511	90.72	3.3069
TOIT	90.72	No	90.00	1.00	16.61	0.00	0.0000		0.0000
Total	362.88		450.01		277.16	8.30	0.2756	181.44	14.1093
Conditioned Total	181.44		360.00		229.67	8.30	0.5511	90.72	28.2187
Unconditioned Total	181.44		90.01		47.49	0.00	0.0000		0.0000

Report: **DemandEndUseComponentsSummary**

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For: **Entire Facility**

Timestamp: **2011-01-07 00:14:42**

End Uses

	Electricity [W]	Natural Gas [W]	Propane [W]	District Cooling [W]	District Heating [W]	Water [m3/s]
Time of Peak	14-DEC-17:10	-	-	-	01-JAN-00:10	-
Heating	1784.63	0.00	0.00	0.00	0.00	0.00
Cooling	0.00	0.00	0.00	0.00	0.00	0.00
Interior Lighting	0.00	0.00	0.00	0.00	0.00	0.00
Exterior Lighting	0.00	0.00	0.00	0.00	0.00	0.00
Interior Equipment	2750.00	0.00	0.00	0.00	70.00	0.00
Exterior Equipment	0.00	0.00	0.00	0.00	0.00	0.00

Fans	11.67	0.00	0.00	0.00	0.00	0.00	0.00
Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heat Rejection	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Humidification	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Heat Recovery	20.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Systems	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generators	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total End Uses	4566.29	0.00	0.00	0.00	0.00	70.00	0.00

End Uses By Subcategory

	Subcategory	Electricity [W]	Natural Gas [W]	Propane [W]	District Cooling [W]	District Heating [W]	Water [m3/s]
Heating	General	1784.63	0.00	0.00	0.00	0.00	0.00
Cooling	General	0.00	0.00	0.00	0.00	0.00	0.00
Interior Lighting	General	0.00	0.00	0.00	0.00	0.00	0.00
Exterior Lighting	General	0.00	0.00	0.00	0.00	0.00	0.00
Interior Equipment	General	2750.00	0.00	0.00	0.00	70.00	0.00
Exterior Equipment	General	0.00	0.00	0.00	0.00	0.00	0.00
Fans	Ventilation (simple)	0.00	0.00	0.00	0.00	0.00	0.00
	VMC Rdc	5.83	0.00	0.00	0.00	0.00	0.00
	VMC Etage	5.83	0.00	0.00	0.00	0.00	0.00
Pumps	General	0.00	0.00	0.00	0.00	0.00	0.00
Heat Rejection	General	0.00	0.00	0.00	0.00	0.00	0.00
Humidification	General	0.00	0.00	0.00	0.00	0.00	0.00
Heat Recovery	General	20.00	0.00	0.00	0.00	0.00	0.00
Water Systems	General	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration	General	0.00	0.00	0.00	0.00	0.00	0.00
Generators	General	0.00	0.00	0.00	0.00	0.00	0.00

For: **Entire Facility**Timestamp: **2011-01-07 00:14:42****SizingPeriod:DesignDay**

	Maximum Dry Bulb [C]	Daily Temperature Range [deltaC]	Humidity Value	Humidity Type	Wind Speed [m/s]	Wind Direction
None						

Weather Statistics File

	Value
Reference	SWE_Karlstad.024180_IWEC
Site:Location	KARLSTAD - SWE
Latitude	N 59° 22'
Longitude	E 13° 28'
Time Zone	GMT +1.0 Hours
Elevation (m) above sea level	55
Standard Pressure at Elevation	100666Pa
Data Source	IWEC Data
WMO Station	024180
Weather File Design Conditions	Climate Design Data 2009 ASHRAE Handbook
Heating Design Temperature 99.6% (C)	-19.2°
Heating Design Temperature 99% (C)	-15.9°
Cooling Design Temperature 0.4% (C)	25.7°
Cooling Design Temperature 1% (C)	24°
Cooling Design Temperature 2% (C)	22.2°
Maximum Dry Bulb Temperature (C)	26.3°
Maximum Dry Bulb Occurs on	Jul 21
Minimum Dry Bulb Temperature (C)	-19.5°
Minimum Dry Bulb Occurs on	Dec 14
Maximum Dew Point Temperature (C)	18.9°
Maximum Dew Point Occurs on	Jul 21
Minimum Dew Point Temperature (C)	-21.8°
Minimum Dew Point Occurs on	Jan 30

Heating Degree-Days (base 10°C)	2075
Cooling Degree-Days (base 18°C)	17
Köppen Classification	Dfb
Köppen Description	Moist continental (warm summer, cold winter, no dry season, lat. 30-60°N)
Köppen Recommendation	
ASHRAE Climate Zone	6A
ASHRAE Description	Cold-Humid

Report: **EnvelopeSummary**

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For: **Entire Facility**

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Opaque Exterior

	Construction	Reflectance	U-Factor with Film [W/m2-K]	U-Factor no Film [W/m2-K]	Gross Area [m2]	Azimuth [deg]	Tilt [deg]	Cardinal Direction
C5BE61	MUR EXT HYPOCAUSTE	0.30	0.144	0.147	8.96	0.00	90.00	N
29E0F6	MUR EXT HYPOCAUSTE	0.30	0.144	0.147	8.96	180.00	90.00	S
4CFF89	MUR EXT HYPOCAUSTE	0.30	0.144	0.147	6.48	270.00	90.00	W
4DD1B4	MUR EXT HYPOCAUSTE	0.30	0.144	0.147	6.48	90.00	90.00	E
F3648A	MUR EXT BLANC	0.25	0.208	0.215	31.36	0.00	90.00	N
4D03BE	MUR EXT BLANC	0.25	0.208	0.215	31.36	180.00	90.00	S
A2C20C	MUR EXT BLANC	0.25	0.208	0.215	22.68	270.00	90.00	W
F227EB	MUR EXT BLANC	0.25	0.208	0.215	22.68	90.00	90.00	E
11A6EF	MUR EXT BLANC	0.25	0.208	0.215	25.52	270.00	90.00	W
10A64E	MUR EXT BLANC	0.25	0.208	0.215	25.52	90.00	90.00	E
17ECC4	MUR EXT BLANC	0.25	0.208	0.215	35.28	180.00	90.00	S
CF1CB6	MUR EXT BLANC	0.25	0.208	0.215	35.28	0.00	90.00	N

53387C	MURS PIGNONS TOIT	0.25	2.584	4.215	8.30	270.00	90.00	W
31196F	MURS PIGNONS TOIT	0.25	2.584	4.215	8.30	90.00	90.00	E
67F4BD	PLAFOND TOIT	0.10	2.232	3.851	50.84	180.00	26.85	
F8DF83	PLAFOND TOIT	0.10	2.232	3.851	50.84	0.00	26.85	

Fenestration

	Construction	Area of One Opening [m2]	Area of Openings [m2]	U-Factor [W/m2-K]	SHGC	Visible Transmittance	Shade Control	Parent Surface	Azimuth [deg]
850F8E	FENETRE TV	0.40	0.40	0.510	0.500	0.711	No	F3648A	0.00
30958E	FENETRE TV	1.80	1.80	0.510	0.500	0.711	No	4D03BE	180.00
84FA47	FENETRE TV	1.80	1.80	0.510	0.500	0.711	No	4D03BE	180.00
2B0D59	FENETRE TV	2.31	2.31	0.510	0.500	0.711	No	4D03BE	180.00
500DE5	FENETRE TV	0.40	0.40	0.510	0.500	0.711	No	F227EB	90.00
193720	FENETRE TV	0.40	0.40	0.510	0.500	0.711	No	F227EB	90.00
E81F7F	FENETRE TV	1.20	1.20	0.510	0.500	0.711	No	11A6EF	270.00
22787E	FENETRE TV	1.20	1.20	0.510	0.500	0.711	No	10A64E	90.00
CEAA4B	FENETRE TV	1.80	1.80	0.510	0.500	0.711	No	17ECC4	180.00
777FB8	FENETRE TV	1.80	1.80	0.510	0.500	0.711	No	17ECC4	180.00
B50296	FENETRE TV	0.36	0.36	0.510	0.500	0.711	No	17ECC4	180.00
Total or Average			13.47	0.51	0.500	0.711			
North Total or Average			0.40	0.51	0.500	0.711			
Non-North Total or Average			13.07	0.51	0.500	0.711			

Report: **ShadingSummary**

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Sunlit Fraction

	March 21 9am	March 21 noon	March 21 3pm	June 21 9am	June 21 noon	June 21 3pm	December 21 9am	December 21 noon	December 21 3pm
850F8E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30958E	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
84FA47	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
2B0D59	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
500DE5	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
193720	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
E81F7F	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00
22787E	1.00	1.00	0.00	1.00	0.98	0.00	0.00	1.00	0.00
CEAA4B	1.00	1.00	1.00	0.84	1.00	0.97	0.00	1.00	1.00
777FB8	1.00	1.00	1.00	0.84	1.00	0.97	0.00	1.00	1.00
B50296	1.00	1.00	1.00	0.12	1.00	0.72	0.00	1.00	1.00

Window Control

	Name	Type	Shaded Construction	Control	Glare Control
None					

Report: **LightingSummary**

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Interior Lighting

	Zone	Lighting Power Density [W/m2]	Zone Area [m2]	Total Power [W]	End Use Subcategory	Schedule Name	Average Hours/Week [hr]	Return Air Fraction	Conditione (Y/N)
RDC	RDC	0.5511	90.72	50.00	General	ECLAIRAGE RDC	28.00	0.0000	

ETAGE	ETAGE	0.5511	90.72	50.00	General	ECLAIRAGE ETAGE	14.00	0.0000	
Interior Lighting Total		0.5511	181.44	100.00					

Daylighting

	Zone	Daylighting Type	Control Type	Fraction Controlled	Lighting Installed in Zone [W]	Lighting Controlled [W]
None						

Exterior Lighting

	Total Watts	Astronomical Clock/Schedule	Schedule Name	Average Annual Hours/Week
Exterior Lighting Total	0.00			

Report: **EquipmentSummary**

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Central Plant

	Type	Nominal Capacity [W]	Nominal Efficiency [W/W]
None			

Cooling Coils

	Type	Nominal Total Capacity [W]	Nominal Sensible Capacity [W]	Nominal Latent Capacity [W]	Nominal Sensible Heat Ratio	Nominal Efficiency [W/W]	Nominal Coil UA Value [W/C]	Nominal Coil Surface Area [m2]
None								

DX Cooling Coils

	DX Cooling Coil Type	Standard Rating (Net) Cooling Capacity [W]	SEER in SI Units [W/W]	SEER in IP Units [Btu/W-h]	EER in SI Units [W/W]	EER in IP Units [Btu/W-h]	IEER in SI Units [W/W]	IEER in IP Units [Btu/W-h]

None								
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Heating Coils

	Type	Nominal Total Capacity [W]	Nominal Efficiency [W/W]
None			

Fans

	Type	Total Efficiency [W/W]	Delta Pressure [pa]	Max Flow Rate [m3/s]	Rated Power [W]	Motor Heat In Air Fraction	End Use
FANSOUFERVRDC	Fan:OnOff	0.60	70.00	0.05	5.83	1.00	VMC Rdc
FANASPERVRDC	Fan:OnOff	0.60	70.00	0.05	5.83	1.00	VMC Rdc
FANSOUFERVETAGE	Fan:OnOff	0.60	70.00	0.05	5.83	1.00	VMC Etage
FANASPERVETAGE	Fan:OnOff	0.60	70.00	0.05	5.83	1.00	VMC Etage

Pumps

	Type	Control	Head [pa]	Power [W]	Motor Efficiency [W/W]
None					

Service Water Heating

	Type	Storage Volume [m3]	Input [W]	Thermal Efficiency [W/W]	Recovery Efficiency [W/W]	Energy Factor
None						

Report: **HVACSizingSummary**

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Zone Cooling

	Calculated Design	User Design	Calculated Design Air	User Design	Design Day	Date/Time Of Peak	Temperature at Peak [C]	Humidity Ratio at Peak

	Load [W]	Load [W]	Flow [m3/s]	Air Flow [m3/s]	Name			[kgWater/kgAir]
None								

Zone Heating

	Calculated Design Load [W]	User Design Load [W]	Calculated Design Air Flow [m3/s]	User Design Air Flow [m3/s]	Design Day Name	Date/Time Of Peak	Temperature at Peak [C]	Humidity Ratio at Peak [kgWater/kgAir]
None								

System Design Air Flow Rates

	Calculated cooling [m3/s]	User cooling [m3/s]	Calculated heating [m3/s]	User heating [m3/s]
None				

Report: **SystemSummary**

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For: **Entire Facility**

Timestamp: **2011-01-07 00:14:42**

Economizer

	High Limit Shutoff Control	Minimum Outdoor Air [m3/s]	Maximum Outdoor Air [m3/s]	Return Air Temp Limit	Return Air Enthalpy Limit	Outdoor Air Temperature Limit [C]	Outdoor Air Enthalpy Limit [C]
None							

Demand Controlled Ventilation using Controller:MechanicalVentilation

	Controller:MechanicalVentilation Name	Outdoor Air Per Person [m3/s-person]	Outdoor Air Per Area [m3/s-m2]	Air Distribution Effectiveness in Cooling Mode	Air Distribution Effectiveness in Heating Mode	Air Distribution Effectiveness Schedule
None						

Time Not Comfortable Based on Simple ASHRAE 55-2004

	Winter Clothes [hr]	Summer Clothes [hr]	Summer or Winter Clothes [hr]

RDC	1670.67	2449.67	1331.00
ETAGE	3227.00	3455.67	2717.33
HYPOCAUSTE	0.00	0.00	0.00
TOIT	0.00	0.00	0.00
Facility	4622.17	5378.83	3872.17

Aggregated over the RunPeriods for Weather

Time Setpoint Not Met

	During Heating [hr]	During Cooling [hr]	During Occupied Heating [hr]	During Occupied Cooling [hr]
RDC	909.50	0.00	252.50	0.00
ETAGE	1197.50	0.00	487.67	0.00
HYPOCAUSTE	0.00	0.00	0.00	0.00
TOIT	0.00	0.00	0.00	0.00
Facility	1394.67	0.00	700.83	0.00

Aggregated over the RunPeriods for Weather

Report: **OutdoorAirSummary**

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For: **Entire Facility**

Timestamp: **2011-01-07 00:14:42**

Average Outdoor Air During Occupied Hours

	Average Number of Occupants	Nominal Number of Occupants	Zone Volume [m3]	Mechanical Ventilation [ach]	Infiltration [ach]	Simple Ventilation [ach]
RDC	4.00	1.00	180.00	0.512	0.181	0.000
ETAGE	4.00	1.00	180.00	0.508	0.180	0.000

Minimum Outdoor Air During Occupied Hours

	Average Number of Occupants	Nominal Number of Occupants	Zone Volume [m3]	Mechanical Ventilation [ach]	Infiltration [ach]	Simple Ventilation [ach]
RDC	4.00	1.00	180.00	0.008	0.003	0.000
ETAGE	4.00	1.00	180.00	0.008	0.003	0.000

Report: **ObjectCountSummary**

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For: **Entire Facility**

Timestamp: 2011-01-07 00:14:42

Surfaces by Class

	Total	Outdoors
Wall	14	14
Floor	4	0
Roof	5	2
Internal Mass	0	0
Building Detached Shading	14	14
Fixed Detached Shading	0	0
Window	11	11
Door	0	0
Glass Door	0	0
Shading	0	0
Overhang	0	0
Fin	0	0
Tubular Daylighting Device Dome	0	0
Tubular Daylighting Device Diffuser	0	0

HVAC

	Count
HVAC Air Loops	0
Conditioned Zones	2
Unconditioned Zones	2
Supply Plenums	0
Return Plenums	0

Input Fields

	Count
IDF Objects	183
Defaulted Fields	64
Fields with Defaults	493
Autosized Fields	0
Autosizable Fields	11
Autocalculated Fields	31
Autocalculatable Fields	87

Report: **ComponentSizingSummary**[Table of Contents](#)For: **Entire Facility**Timestamp: **2011-01-07 00:14:42**Report: **SurfaceShadowingSummary**[Table of Contents](#)For: **Entire Facility**Timestamp: **2011-01-07 00:14:42****Surfaces (Walls, Roofs, etc) that may be Shadowed by Other Surfaces**

	Possible Shadow Receivers
Mir-F0F8DA	Mir-3D0105 Mir-B1B7ED 2B3ADC Mir-2B3ADC 27DE0D Mir-27DE0D B47F57 Mir-B47F57 Mir-60BBCA C5BE61 F3648A CF1CB6 F8DF83
Mir-3D0105	Mir-2B3ADC Mir-27DE0D Mir-B47F57 17ECC4
Mir-B1B7ED	Mir-2B3ADC Mir-27DE0D Mir-B47F57 11A6EF 17ECC4 53387C
Mir-2B3ADC	Mir-3D0105 Mir-B1B7ED Mir-60BBCA CF1CB6
Mir-27DE0D	Mir-3D0105 Mir-B1B7ED Mir-60BBCA 11A6EF CF1CB6 53387C
Mir-B47F57	Mir-3D0105 Mir-B1B7ED Mir-60BBCA 10A64E CF1CB6 31196F
Mir-60BBCA	Mir-2B3ADC Mir-27DE0D Mir-B47F57 10A64E 17ECC4 31196F
C5BE61	Mir-F0F8DA Mir-2B3ADC Mir-27DE0D Mir-B47F57
29E0F6	Mir-3D0105 Mir-B1B7ED Mir-60BBCA
4CFF89	Mir-B1B7ED Mir-27DE0D
4DD1B4	Mir-B47F57 Mir-60BBCA
F3648A	Mir-F0F8DA Mir-2B3ADC Mir-27DE0D Mir-B47F57
4D03BE	Mir-3D0105 Mir-B1B7ED Mir-60BBCA
A2C20C	Mir-B1B7ED Mir-27DE0D
F227EB	Mir-B47F57 Mir-60BBCA
11A6EF	Mir-B1B7ED Mir-27DE0D
10A64E	Mir-B47F57 Mir-60BBCA
17ECC4	Mir-3D0105 Mir-B1B7ED Mir-60BBCA
CF1CB6	Mir-F0F8DA Mir-2B3ADC Mir-27DE0D Mir-B47F57
53387C	Mir-B1B7ED Mir-27DE0D
31196F	Mir-B47F57 Mir-60BBCA

Subsurfaces (Windows and Doors) that may be Shadowed by Surfaces

	Possible Shadow Receivers
--	---------------------------

F3648A	850F8E
4D03BE	30958E 84FA47 2B0D59
F227EB	500DE5 193720
11A6EF	E81F7F
10A64E	22787E
17ECC4	CEAA4B 777FB8 B50296

Report: **TEMPERATURES**

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For: **HYPOCAUSTE**

Timestamp: **2011-01-07 00:14:42**

	ZONE MEAN AIR TEMPERATURE [C]	ZONE MEAN AIR TEMPERATURE {MINIMUM}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}	ZONE MEAN AIR TEMPERATURE {Maximum}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}
January	18.69	17.96	31-JAN-23:10	19.87	01-JAN-00:10
February	18.26	17.91	01-FEB-18:19	19.06	28-FEB-08:09
March	19.37	18.66	05-MAR-21:19	19.85	31-MAR-23:00
April	20.67	19.85	01-APR-00:10	21.39	24-APR-15:30
May	22.50	20.95	01-MAY-00:10	23.08	26-MAY-06:49
June	25.30	23.05	01-JUN-00:10	26.41	23-JUN-08:30
July	27.72	26.00	01-JUL-00:10	29.01	31-JUL-23:00
August	29.04	28.29	30-AUG-14:50	29.46	06-AUG-05:30
September	26.06	23.81	30-SEP-15:09	28.41	01-SEP-01:39
October	22.52	21.34	31-OCT-23:00	23.84	01-OCT-01:49
November	20.03	19.05	30-NOV-21:19	21.34	01-NOV-00:10
December	18.51	18.08	29-DEC-21:10	19.06	01-DEC-02:09
Annual Sum or Average	22.42				
Minimum of Months	18.26	17.91		19.06	
Maximum of Months	29.04	28.29		29.46	

Report: **TEMPERATURES**

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For: **RDC**Timestamp: **2011-01-07 00:14:42**

	ZONE MEAN AIR TEMPERATURE [C]	ZONE MEAN AIR TEMPERATURE {MINIMUM}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}	ZONE MEAN AIR TEMPERATURE {Maximum}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}
January	20.15	16.62	30-JAN-05:00	24.20	01-JAN-18:00
February	20.03	16.68	15-FEB-05:00	24.54	25-FEB-18:00
March	20.67	17.05	02-MAR-05:00	25.23	30-MAR-18:00
April	21.57	18.57	05-APR-05:00	27.03	23-APR-18:00
May	23.13	20.21	01-MAY-05:00	26.56	07-MAY-20:00
June	25.99	23.05	01-JUN-00:30	30.09	20-JUN-20:30
July	28.32	25.24	02-JUL-06:00	32.28	26-JUL-20:30
August	29.16	27.10	27-AUG-05:30	32.80	03-AUG-20:30
September	25.75	22.10	27-SEP-05:00	30.60	01-SEP-20:30
October	22.83	20.57	31-OCT-05:00	28.26	01-OCT-18:00
November	20.90	17.41	30-NOV-05:00	25.62	01-NOV-18:00
December	20.14	16.64	14-DEC-03:00	24.39	07-DEC-18:00
Annual Sum or Average	23.24				
Minimum of Months	20.03	16.62		24.20	
Maximum of Months	29.16	27.10		32.80	

Report: **TEMPERATURES**[Table of Contents](#)For: **ETAGE**Timestamp: **2011-01-07 00:14:42**

	ZONE MEAN AIR TEMPERATURE [C]	ZONE MEAN AIR TEMPERATURE {MINIMUM}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}	ZONE MEAN AIR TEMPERATURE {Maximum}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}
January	19.66	16.60	30-JAN-03:30	20.95	16-JAN-19:10
February	19.65	16.65	15-FEB-04:00	20.96	25-FEB-17:10
March	19.87	16.65	01-MAR-05:00	20.97	29-MAR-17:10
April	20.19	16.78	05-APR-05:00	21.44	23-APR-16:49

May	21.05	18.41	01-MAY-05:00	23.90	07-MAY-16:40
June	23.53	20.93	01-JUN-19:00	27.29	07-JUN-16:40
July	25.65	22.00	02-JUL-07:40	28.73	25-JUL-16:40
August	25.20	22.42	27-AUG-07:40	28.68	03-AUG-16:40
September	21.16	18.06	27-SEP-05:00	24.86	01-SEP-00:10
October	20.32	17.10	19-OCT-05:00	21.48	14-OCT-06:19
November	19.90	16.73	30-NOV-05:00	20.97	06-NOV-17:10
December	19.68	16.59	14-DEC-03:49	20.96	07-DEC-17:10
Annual Sum or Average	21.34				
Minimum of Months	19.65	16.59		20.95	
Maximum of Months	25.65	22.42		28.73	

Report: **TEMPERATURES**[Table of Contents](#)For: **TOIT**Timestamp: **2011-01-07 00:14:42**

	ZONE MEAN AIR TEMPERATURE [C]	ZONE MEAN AIR TEMPERATURE {MINIMUM}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}	ZONE MEAN AIR TEMPERATURE {Maximum}[C]	ZONE MEAN AIR TEMPERATURE {TIMESTAMP}
January	-3.9	-22.2	30-JAN-07:10	5.19	14-JAN-21:00
February	-3.6	-17.6	15-FEB-07:40	12.17	25-FEB-15:00
March	0.66	-14.1	01-MAR-07:00	11.79	25-MAR-14:00
April	5.22	-8.4	05-APR-05:30	25.68	22-APR-15:30
May	11.99	1.02	03-MAY-03:00	27.93	03-MAY-17:49
June	16.76	5.59	11-JUN-03:00	31.60	05-JUN-16:19
July	18.85	7.15	17-JUL-04:10	33.26	25-JUL-15:00
August	17.47	4.00	27-AUG-05:10	29.59	01-AUG-14:00
September	10.82	-5.9	27-SEP-06:49	21.81	11-SEP-13:09
October	6.04	-7.7	19-OCT-05:19	16.45	14-OCT-13:00
November	0.80	-11.7	30-NOV-22:30	9.04	06-NOV-14:39
December	-2.4	-21.8	14-DEC-04:10	6.90	19-DEC-18:00

Annual Sum or Average	6.63				
Minimum of Months	-3.9	-22.2		5.19	
Maximum of Months	18.85	7.15		33.26	

Report: **BILAN FENETRES**

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For: **HYPOCAUSTE**

Timestamp: **2011-01-07 00:14:42**

	ZONE WINDOW HEAT GAIN ENERGY [kWh]	ZONE WINDOW HEAT LOSS ENERGY [kWh]
January	0.00	0.00
February	0.00	0.00
March	0.00	0.00
April	0.00	0.00
May	0.00	0.00
June	0.00	0.00
July	0.00	0.00
August	0.00	0.00
September	0.00	0.00
October	0.00	0.00
November	0.00	0.00
December	0.00	0.00
Annual Sum or Average	0.00	0.00
Minimum of Months	0.00	0.00
Maximum of Months	0.00	0.00

Report: **BILAN FENETRES**

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For: **RDC**

Timestamp: **2011-01-07 00:14:42**

	ZONE WINDOW HEAT GAIN	ZONE WINDOW HEAT LOSS
--	-----------------------	-----------------------

	ENERGY [kWh]	ENERGY [kWh]
January	33.06	57.34
February	75.74	45.48
March	112.70	38.16
April	132.88	27.52
May	148.24	17.81
June	135.37	13.34
July	153.74	14.63
August	146.43	19.26
September	114.93	25.87
October	92.76	34.36
November	45.26	44.72
December	14.77	57.84
Annual Sum or Average	1205.89	396.32
Minimum of Months	14.77	13.34
Maximum of Months	153.74	57.84

Report: **BILAN FENETRES**

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For: **ETAGE**

Timestamp: **2011-01-07 00:14:42**

	ZONE WINDOW HEAT GAIN ENERGY [kWh]	ZONE WINDOW HEAT LOSS ENERGY [kWh]
January	21.34	56.83
February	53.09	45.10
March	85.07	36.35
April	110.87	24.38
May	135.30	15.03
June	129.01	10.88
July	142.59	11.76
August	133.28	14.31
September	96.13	18.94
October	69.17	29.37
November	31.12	43.03
December	9.22	57.24

Annual Sum or Average	1016.19	363.24
Minimum of Months	9.22	10.88
Maximum of Months	142.59	57.24

Report: **BILAN FENETRES**

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For: **TOIT**

Timestamp: **2011-01-07 00:14:42**

	ZONE WINDOW HEAT GAIN ENERGY [kWh]	ZONE WINDOW HEAT LOSS ENERGY [kWh]
January	0.00	0.00
February	0.00	0.00
March	0.00	0.00
April	0.00	0.00
May	0.00	0.00
June	0.00	0.00
July	0.00	0.00
August	0.00	0.00
September	0.00	0.00
October	0.00	0.00
November	0.00	0.00
December	0.00	0.00
Annual Sum or Average	0.00	0.00
Minimum of Months	0.00	0.00
Maximum of Months	0.00	0.00

Report: **CHAUFFAGE**

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For: **HYPOCAUSTE**

Timestamp: **2011-01-07 00:14:42**

	ZONE/SYS SENSIBLE HEATING	ZONE PEOPLE TOTAL HEAT GAIN	ZONE ELECTRIC EQUIPMENT TOTAL HEAT	ZONE LIGHTS TOTAL HEAT GAIN	ZONE HOT WATER EQUIPMENT

	ENERGY [kWh]	[Invalid/Undefined]	GAIN [Invalid/Undefined]	[Invalid/Undefined]	TOTAL HEAT GAIN [Invalid/Undefined]
January	0.00	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00	0.00
Annual Sum or Average	0.00	0.00	0.00	0.00	0.00
Minimum of Months	0.00	0.00	0.00	0.00	0.00
Maximum of Months	0.00	0.00	0.00	0.00	0.00

Report: **CHAUFFAGE**

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For: **RDC**

Timestamp: **2011-01-07 00:14:42**

	ZONE/SYS SENSIBLE HEATING ENERGY [kWh]	ZONE PEOPLE TOTAL HEAT GAIN [kWh]	ZONE ELECTRIC EQUIPMENT TOTAL HEAT GAIN [kWh]	ZONE LIGHTS TOTAL HEAT GAIN [kWh]	ZONE HOT WATER EQUIPMENT TOTAL HEAT GAIN [kWh]
January	227.48	138.88	348.44	6.20	52.08
February	224.06	125.44	314.72	5.60	47.04
March	108.59	138.88	348.44	6.20	52.08
April	15.18	134.40	337.20	6.00	50.40
May	0.15	138.88	224.44	6.20	52.08
June	0.00	134.40	217.20	6.00	50.40

July	0.00	138.88	224.44	6.20	52.08
August	0.00	138.88	224.44	6.20	52.08
September	0.00	134.40	217.20	6.00	50.40
October	0.21	138.88	348.44	6.20	52.08
November	78.51	134.40	337.20	6.00	50.40
December	236.98	138.88	348.44	6.20	52.08
Annual Sum or Average	891.17	1635.20	3490.60	73.00	613.20
Minimum of Months	0.00	125.44	217.20	5.60	47.04
Maximum of Months	236.98	138.88	348.44	6.20	52.08

Report: **CHAUFFAGE**[Table of Contents](#)For: **ETAGE**Timestamp: **2011-01-07 00:14:42**

	ZONE/SYS SENSIBLE HEATING ENERGY [kWh]	ZONE PEOPLE TOTAL HEAT GAIN [kWh]	ZONE ELECTRIC EQUIPMENT TOTAL HEAT GAIN [kWh]	ZONE LIGHTS TOTAL HEAT GAIN [kWh]	ZONE HOT WATER EQUIPMENT TOTAL HEAT GAIN [Invalid/Undefined]
January	608.04	112.84	27.90	3.10	0.00
February	516.78	101.92	25.20	2.80	0.00
March	407.04	112.84	27.90	3.10	0.00
April	220.41	109.20	27.00	3.00	0.00
May	40.65	112.84	27.90	3.10	0.00
June	0.09	109.20	27.00	3.00	0.00
July	0.00	112.84	27.90	3.10	0.00
August	0.00	112.84	27.90	3.10	0.00
September	52.02	109.20	27.00	3.00	0.00
October	224.76	112.84	27.90	3.10	0.00
November	427.50	109.20	27.00	3.00	0.00
December	591.77	112.84	27.90	3.10	0.00
Annual Sum or	3089.05	1328.60	328.50	36.50	0.00

Average					
Minimum of Months	0.00	101.92	25.20	2.80	0.00
Maximum of Months	608.04	112.84	27.90	3.10	0.00

Report: **CHAUFFAGE**

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For: **TOIT**

Timestamp: **2011-01-07 00:14:42**

	ZONE/SYS SENSIBLE HEATING ENERGY [kWh]	ZONE PEOPLE TOTAL HEAT GAIN [Invalid/Undefined]	ZONE ELECTRIC EQUIPMENT TOTAL HEAT GAIN [Invalid/Undefined]	ZONE LIGHTS TOTAL HEAT GAIN [Invalid/Undefined]	ZONE HOT WATER EQUIPMENT TOTAL HEAT GAIN [Invalid/Undefined]
January	0.00	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00	0.00
March	0.00	0.00	0.00	0.00	0.00
April	0.00	0.00	0.00	0.00	0.00
May	0.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00	0.00
October	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00	0.00
Annual Sum or Average	0.00	0.00	0.00	0.00	0.00
Minimum of Months	0.00	0.00	0.00	0.00	0.00
Maximum of Months	0.00	0.00	0.00	0.00	0.00

Report: **INFILTRATIONS**

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For: **RDC**

Timestamp: 2011-01-07 00:14:42

	ZONE INFILTRATION AIR CHANGE RATE [ach]	ZONE INFILTRATION TOTAL HEAT GAIN [kWh]	ZONE INFILTRATION TOTAL HEAT LOSS [kWh]
January	0.18	0.00	211.87
February	0.18	0.00	193.74
March	0.18	0.00	182.73
April	0.18	0.00	156.78
May	0.18	0.00	121.11
June	0.18	0.02	110.69
July	0.18	0.00	117.66
August	0.18	0.00	134.31
September	0.18	0.00	142.60
October	0.18	0.00	155.50
November	0.18	0.00	173.06
December	0.18	0.00	195.99
Annual Sum or Average	0.18	0.02	1896.06
Minimum of Months	0.18	0.00	110.69
Maximum of Months	0.18	0.02	211.87

Report: **INFILTRATIONS**

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For: **ETAGE**

Timestamp: 2011-01-07 00:14:42

	ZONE INFILTRATION AIR CHANGE RATE [ach]	ZONE INFILTRATION TOTAL HEAT GAIN [kWh]	ZONE INFILTRATION TOTAL HEAT LOSS [kWh]
January	0.18	0.00	195.87
February	0.18	0.00	180.06
March	0.18	0.00	163.78
April	0.18	0.00	132.76
May	0.18	0.00	89.93
June	0.18	0.15	76.44
July	0.18	0.00	80.09
August	0.18	0.00	84.54
September	0.18	0.00	89.96

October	0.18	0.00	120.17
November	0.18	0.00	152.78
December	0.18	0.00	180.35
Annual Sum or Average	0.18	0.15	1546.74
Minimum of Months	0.18	0.00	76.44
Maximum of Months	0.18	0.15	195.87

Report: **BILAN**

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For: **ZONES CHAUFFEES**

Timestamp: **2011-01-07 00:14:42**

	ZONE LIST SENSIBLE HEATING ENERGY [kWh]
January	835.53
February	740.84
March	515.63
April	235.59
May	40.80
June	0.10
July	0.00
August	0.00
September	52.02
October	224.97
November	506.01
December	828.74
Annual Sum or Average	3980.22
Minimum of Months	0.00
Maximum of Months	835.53

Report: **VMC**

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For: **ERV RDC**

Timestamp: **2011-01-07 00:14:42**

	STAND ALONE ERV ELECTRIC CONSUMPTION [kWh]
January	11.78
February	10.64
March	11.78
April	11.40
May	11.78
June	11.40
July	11.78
August	11.78
September	11.40
October	11.78
November	11.40
December	11.78
Annual Sum or Average	138.70
Minimum of Months	10.64
Maximum of Months	11.78

Report: **VMC**

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For: **ERV ETAGE**

Timestamp: **2011-01-07 00:14:42**

	STAND ALONE ERV ELECTRIC CONSUMPTION [kWh]
January	11.78
February	10.64
March	11.78
April	11.40
May	11.78
June	11.40
July	11.78
August	11.78
September	11.40
October	11.78
November	11.40
December	11.78

Annual Sum or Average	138.70
Minimum of Months	10.64
Maximum of Months	11.78

Report: **VENTILATION**

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For: **RDC**

Timestamp: **2011-01-07 00:14:42**

	ZONE MECHANICAL VENTILATION AIR CHANGE RATE [ach]	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {MINIMUM}[ach]	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {TIMESTAMP}	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {Maximum}[ach]	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {TIMESTAMP}
January	0.51	0.49	04-JAN-05:00	0.53	23-JAN-18:00
February	0.50	0.48	04-FEB-04:00	0.52	23-FEB-18:00
March	0.51	0.49	01-MAR-05:00	0.53	13-MAR-18:00
April	0.50	0.49	05-APR-06:10	0.52	28-APR-18:00
May	0.51	0.50	01-MAY-06:10	0.52	21-MAY-20:00
June	0.52	0.50	03-JUN-09:00	0.54	23-JUN-20:00
July	0.52	0.51	05-JUL-06:00	0.54	21-JUL-20:00
August	0.52	0.51	27-AUG-07:19	0.54	04-AUG-20:00
September	0.52	0.50	27-SEP-06:10	0.54	19-SEP-20:30
October	0.51	0.49	20-OCT-06:10	0.53	31-OCT-18:00
November	0.51	0.49	04-NOV-06:10	0.53	12-NOV-18:00
December	0.51	0.49	01-DEC-00:20	0.54	19-DEC-18:00
Annual Sum or Average	0.51				
Minimum of Months	0.50	0.48		0.52	
Maximum of Months	0.52	0.51		0.54	

Report: **VENTILATION**

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For: **ETAGE**

Timestamp: **2011-01-07 00:14:42**

	ZONE MECHANICAL VENTILATION AIR CHANGE RATE [ach]	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {MINIMUM}[ach]	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {TIMESTAMP}	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {Maximum}[ach]	ZONE MECHANICAL VENTILATION AIR CHANGE RATE {TIMESTAMP}
January	0.51	0.49	04-JAN-01:00	0.53	01-JAN-06:19
February	0.50	0.48	04-FEB-04:00	0.51	23-FEB-21:00
March	0.51	0.49	01-MAR-05:00	0.53	13-MAR-17:18
April	0.50	0.49	05-APR-06:10	0.51	28-APR-21:00
May	0.51	0.49	01-MAY-06:10	0.51	16-MAY-15:27
June	0.51	0.50	03-JUN-09:20	0.53	21-JUN-21:00
July	0.52	0.50	03-JUL-08:09	0.53	21-JUL-22:15
August	0.52	0.50	27-AUG-08:09	0.53	04-AUG-21:00
September	0.51	0.50	27-SEP-06:10	0.52	19-SEP-16:30
October	0.50	0.49	20-OCT-06:10	0.52	31-OCT-21:16
November	0.50	0.49	04-NOV-06:10	0.53	12-NOV-21:00
December	0.51	0.49	01-DEC-00:20	0.53	19-DEC-21:00
Annual Sum or Average	0.51				
Minimum of Months	0.50	0.48		0.51	
Maximum of Months	0.52	0.50		0.53	