**近零能耗**

**建筑能效报告书**

居住建筑

|  |  |
| --- | --- |
| 工程名称 | 新建项目 |
| 工程地点 | 云南-保山 |
| 设计编号 |  |
| 建设单位 | 保山学院 |
| 设计单位 | 保山学院 |
| 设 计 人 |  |
| 校 对 人 |  |
| 审 核 人 |  |
| 计算日期 | 2024年12月26日 |



|  |  |
| --- | --- |
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# 建筑概况

|  |  |  |
| --- | --- | --- |
| 工程名称 | 新建项目 | |
| 工程地点 | 云南-保山 | |
| 地理位置 | 北纬：25.00° | 东经：98.48° |
| 建筑面积(m2) | 地上975 地下0 | |
| 建筑层数 | 地上6 地下0 | |
| 建筑高度（m） | 地上18.2 地下0.0 | |
| 建筑体积(m3) | 3163.61 | |
| 建筑外表面积(m2) | 1946.36 | |
| 建筑气密性（换气次数N50） | 0.60 | |
| 北向角度 | 90 | |
| 结构类型 |  | |
| 外墙太阳辐射吸收系数 | 0.50 | |
| 屋顶太阳辐射吸收系数 | 0.50 | |
| 控温期 | 供冷期:4.1-10.30 | |

# 设计依据

1. 《近零能耗建筑技术标准》(GB/T 51350-2019)

2. 《民用建筑热工设计规范》(GB50176-2016)

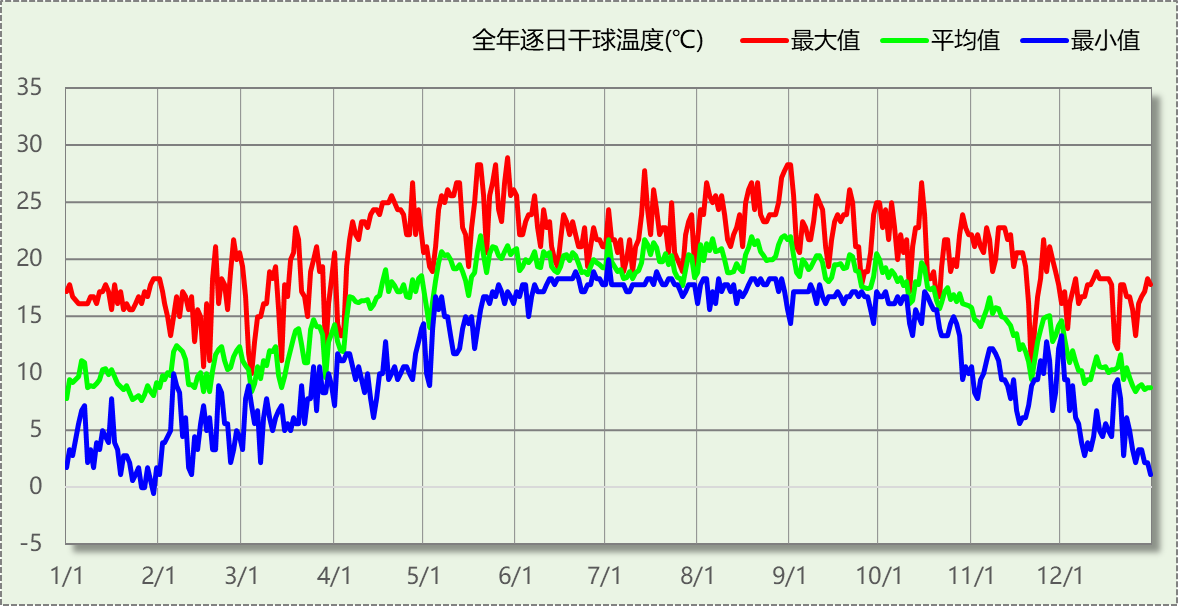
3. 《建筑幕墙、门窗通用技术条件》(GB/T31433-2015)

# 气象数据

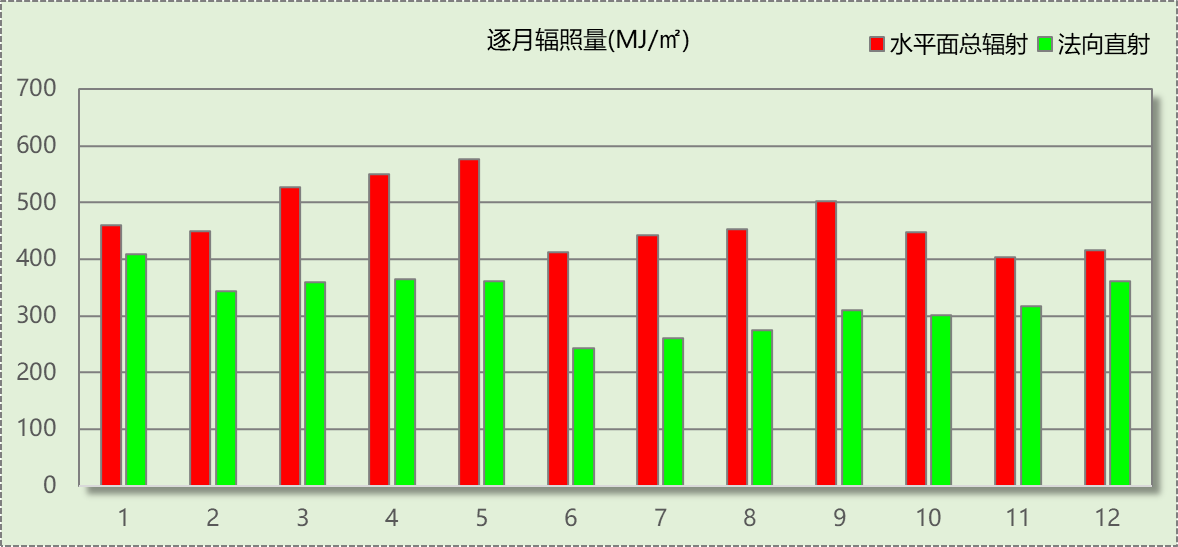
## 气象地点

云南-保山, 《建筑节能气象参数标准》

## 逐日干球温度表



## 逐月辐照量表



## 峰值工况

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 气象数据 | 时刻 | 干球温度(℃) | 湿球温度(℃) | 含湿量(g/kg) | 焓值(kj/kg) |
| 最热 | 05月28日20时 | 28.9 | 19.4 | 13.8 | 64.3 |
| 最冷 | 01月29日07时 | -0.6 | -2.8 | 2.6 | 5.9 |

# 工程材料

## 普通材料

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称 | 导热系数λ | 蓄热系数S | 密度ρ | 比热容Cp | 蒸汽渗透 系数u | 数据来源 |
| W/(m.K) | W/(㎡.K) | kg/m3 | J/(kg.K) | g/(m.h.kPa) |
| 石灰砂浆 | 0.810 | 9.948 | 1600.0 | 1050.0 | 0.0443 | 民用建筑热工设计规范 GB50176-2016 |
| 钢筋混凝土 | 1.740 | 17.200 | 2500.0 | 920.0 | 0.0158 | 民用建筑热工设计规范 GB50176-2016 |
| 石灰水泥砂浆 | 0.870 | 10.750 | 1700.0 | 1074.4 | 0.0443 | 民用建筑热工设计规范 GB50176-2016 |
| 耐碱玻纤网布抗裂砂浆 | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0140 | 广东居住建筑节能设计标准 DB45-221-2005 |
| c20细石混凝土(ρ=2300) | 1.510 | 15.243 | 2300.0 | 920.0 | 0.0158 | 安徽公共建筑节能设计标准 DB34 T753-2007 |
| 挤塑聚苯板 | 0.030 | 0.340 | 35.0 | 1380.0 | 0.0140 | 民用建筑热工设计规范 GB50176-2016 |
| 聚苯颗粒保温砂浆 | 0.060 | 0.950 | 230.0 | 900.0 | 0.0210 | DB34-T753-2007 |
| 蒸压加气混凝土砌块（525-625） | 0.160 | 2.750 | 600.0 | 1050.0 | 0.0000 | 云南省民用建筑节能设计标准 DBJ53/T-39-2020 |
| 轻骨料混凝土(找坡层) | 0.300 | 5.000 | 1050.0 | 1091.3 | 0.0140 | 工程详细做法图集 05J909 |
| 玻化微珠保温隔热砂浆 | 0.070 | 1.500 | 300.0 | 1473.3 | 0.0100 | JC/T 2164-2013 |
| sbs改性沥青防水卷材 | 0.230 | 9.370 | 900.0 | 1620.0 | 0.0014 | 云南省民用建筑节能设计标准 DBJ53/T-39-2020 |
| C20细石混凝土 | 1.510 | 15.243 | 2300.0 | 920.0 | 0.0173 |  |
| 界面砂浆 | － | － | － | － | － |  |
| 胶粘剂 | － | － | － | － | － |  |

## 其他材料

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 材料名称 | 厚度 | 热阻R | 太阳辐射吸收系数 | 备注 |
| mm | (㎡K)/W |
| 水泥砂浆 | － | － | － |  |
| 合成高分子防水涂料 | － | － | － |  |

# 屋顶

## 屋顶相关构造

### 上人屋面

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称 （由上到下） | 厚度δ | 导热系数λ | 蓄热系数S | 修正 系数 | 热阻R | 热惰性 指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| C20细石混凝土 | 40 | 1.510 | 15.243 | 1.00 | 0.026 | 0.404 |
| sbs改性沥青防水卷材 | 3 | 0.230 | 9.370 | 1.00 | 0.013 | 0.122 |
| 合成高分子防水涂料 | 1 | － | － | － | － | － |
| 水泥砂浆 | 1 | － | － | － | － | － |
| 挤塑聚苯板 | 70 | 0.030 | 0.340 | 1.05 | 2.222 | 0.793 |
| 水泥砂浆 | 1 | － | － | － | － | － |
| 轻骨料混凝土(找坡层) | 30 | 0.300 | 5.000 | 1.50 | 0.067 | 0.500 |
| 钢筋混凝土 | 100 | 1.740 | 17.200 | 1.00 | 0.057 | 0.989 |
| 各层之和∑ | 246 | － | － | － | 2.386 | 2.808 |
| 外表面太阳辐射吸收系数 | 0.50 | | | | | |
| 传热系数K=1/(0.15+∑R) | 0.39 | | | | | |

### 屋顶防火隔离带构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称 （由上到下） | 厚度δ | 导热系数λ | 蓄热系数S | 修正 系数 | 热阻R | 热惰性 指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 水泥砂浆 | 1 | － | － | － | － | － |
| 聚苯颗粒保温砂浆 | 20 | 0.060 | 0.950 | 1.20 | 0.278 | 0.317 |
| 水泥砂浆 | 1 | － | － | － | － | － |
| 钢筋混凝土 | 200 | 1.740 | 17.200 | 1.00 | 0.115 | 1.977 |
| 石灰砂浆 | 1 | 0.810 | 9.948 | 1.00 | 0.001 | 0.012 |
| 各层之和∑ | 223 | － | － | － | 0.394 | 2.306 |
| 外表面太阳辐射吸收系数 | 0.50 | | | | | |
| 传热系数K=1/(0.15+∑R) | 1.84 | | | | | |

## 屋顶平均热工特性

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 构造名称 | 面积(㎡) | 面积所占比例 | 传热系数K W / (㎡K) | 热惰性 指标D | 太阳辐射 吸收系数 |
| 上人屋面 | 397.67 | 0.801 | 0.39 | 2.81 | 0.50 |
| 屋顶防火隔离带构造一 | 98.96 | 0.199 | 1.84 | 2.31 | 0.50 |
| 合计 | 496.63 | 1.000 | 0.68 | 2.71 | 0.50 |

# 外墙

## 外墙（填充墙）构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称 （由外到内） | 厚度δ | 导热系数λ | 蓄热系数S | 修正 系数 | 热阻R | 热惰性 指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 耐碱玻纤网布抗裂砂浆 | 5 | 0.930 | 11.306 | 1.00 | 0.005 | 0.061 |
| 玻化微珠保温隔热砂浆 | 30 | 0.070 | 1.500 | 1.20 | 0.357 | 0.643 |
| 界面砂浆 | 1 | － | － | － | 0.000 | － |
| 蒸压加气混凝土砌块（525-625） | 200 | 0.160 | 2.750 | 1.25 | 1.000 | 3.438 |
| 界面砂浆 | 1 | － | － | － | 0.000 | － |
| 玻化微珠保温隔热砂浆 | 30 | 0.070 | 1.500 | 1.10 | 0.390 | 0.643 |
| 耐碱玻纤网布抗裂砂浆 | 5 | 0.930 | 11.306 | 1.00 | 0.005 | 0.061 |
| 各层之和∑ | 272 | － | － | － | 1.758 | 4.845 |
| 外表面太阳辐射吸收系数 | 0.50 | | | | | |
| 传热系数K=1/(0.15+∑R) | 0.52 | | | | | |

# 外窗热工

## 外窗

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 构造名称 | 构造 编号 | 传热 系数 | 窗遮阳 系数 | 可见光 透射比 | 数据来源 |
| 1 | 6中透光Low-E+12空气+6透明-铝合金窗框[Kf=6.21W/(㎡·K),框面积20%] | 18 | 3.50 | 0.43 | 0.550 |  |
| 窗编号 | | | | |
| ，透光门- | | | | |

## 外遮阳类型

### 平板遮阳



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 编号 | 水平挑出Ah (m) | 距离上沿Eh (m) | 垂直挑出Av (m) | 距离边沿Ev (m) | 挡板高Dh (m) | 挡板透射η\* |
| 1 | 平板遮阳0 | 1.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

## 总体热工性能

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 朝向 | 面积 | 传热系数 | 夏季综合 太阳得热系数 | 冬季综合 太阳得热系数 | 窗墙比 | 标准要求 | 结论 |
| 南向 | 98.04 | 3.50 | 0.27 | 0.27 | 0.34 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 北向 | 137.61 | 3.50 | 0.32 | 0.32 | 0.55 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 东向 | 52.37 | 3.50 | 0.31 | 0.31 | 0.20 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 西向 | 73.47 | 3.50 | 0.25 | 0.25 | 0.25 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 综合平均 | 361.49 | 3.50 | 0.29 | 0.29 | 0.33 |  |  |
| 标准依据 | 《近零能耗建筑技术标准》第6.1.5条 | | | | | | |
| 标准要求 | K和SHGC值应当符合表6.1.5-1的要求 | | | | | | |
| 结论 | 不需要 | | | | | | |

注：本表所统计的外窗包含凸窗。

# 外窗气密性

|  |  |
| --- | --- |
| 最不利气密性等级 | 8级（窗编号：） |
| 外窗气密性措施 |  |
| 标准依据 | 《近零能耗建筑技术标准》第6.1.4条，分级与检测方法《建筑幕墙、门窗通用技术条件》(GB/T31433-2015) |
| 标准要求 | 外窗及外门户门气密性不宜低于《建筑幕墙、门窗通用技术条件》(GB/T31433-2015)的8级 |
| 结论 | 适宜 |

# 外门气密性

|  |  |
| --- | --- |
| 最不利气密性等级 | 8级（窗编号：） |
| 外门气密性措施 |  |
| 标准依据 | 《近零能耗建筑技术标准》第6.1.4条，分级与检测方法《建筑幕墙、门窗通用技术条件》(GB/T31433-2015) |
| 标准要求 | 外窗及外门户门气密性不宜低于《建筑幕墙、门窗通用技术条件》(GB/T31433-2015)的6级 |
| 结论 | 适宜 |

# 户门气密性

|  |  |
| --- | --- |
| 最不利气密性等级 | － |
| 户门气密性措施 |  |
| 标准依据 | 《近零能耗建筑技术标准》第6.1.4条，分级与检测方法《建筑幕墙、门窗通用技术条件》(GB/T31433-2015) |
| 标准要求 | 外窗及外门户门气密性不宜低于《建筑幕墙、门窗通用技术条件》(GB/T31433-2015)的6级 |
| 结论 | － |

# 围护结构检查结论

|  |  |  |
| --- | --- | --- |
| 序号 | 检查项 | 结论 |
| 1 | 屋顶 | 不需要 |
| 2 | 外墙 | 不需要 |
| 3 | 外窗热工 | 不需要 |
| 4 | 外窗气密性 | 适宜 |
| 5 | 外门气密性 | 适宜 |
| 6 | 户门气密性 | 适宜 |

# 房间类型

## 房间参数表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 空调 温度℃ | 供暖 温度℃ | 新风量 | 渗透风 换气次数 | 人员密度 | 照明功率 密度 | 电器设备 功率 |
| 休息室 | 26 | 16 | 5(m3/h.人) | 0.5(次/h) | 6(人) | 5(W/㎡) | 3(W/㎡) |
| 卧室 | 26 | 20 | 30(m3/h.人) | 0.5(次/h) | 6(㎡/人) | 15(W/㎡) | 6(W/㎡) |
| 卫生间 | 26 | 20 | 10(m3/h.人) | 0.2(次/h) | 2(㎡/人) | 4(W/㎡) | 0(W/㎡) |
| 楼梯间 | － | － | 1(m3/h.人) | 0.3(次/h) | 2(人) | 2(W/㎡) | 0(W/㎡) |
| 设备间 | － | － | 1(m3/h.人) | 0.1(次/h) | 2(人) | 3(W/㎡) | 2(W/㎡) |
| 车库 | － | － | 0(m3/h.人) | 0.5(次/h) | 2(人) | 2(W/㎡) | 0(W/㎡) |
| 酒吧、茶座 | 26 | 16 | 5(m3/h.人) | 0.5(次/h) | 6(人) | 5(W/㎡) | 3(W/㎡) |
| 餐厅 | 26 | 20 | 10(m3/h.人) | 0.4(次/h) | 6(㎡/人) | 5(W/㎡) | 5(W/㎡) |

## 作息时间表

详见附录

# 系统类型

## 系统分区

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 系统类型 | 制冷 SEER | 制热 HSPF | 面积(㎡) | 包含的房间 |
| 默认 | 双管制风机盘管 | － | － | 0.00 |  |
| Sys | 双管制风机盘管 | － | － | 349.95 | 2018(2),2017(2),2016(2),2015(2),2014(2),2013(2),2012(2),2011(2),2010(2),2009(2) |
| Sys0 | 双管制风机盘管 | － | － | 220.72 | 3022(3),3021(3),3020(3),4024(4) |
| Sys1 | 双管制风机盘管 | － | － | 0.00 |  |

## 热回收参数

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 热回收 | 供冷 | | 供暖 | |
| 回收效率 | 启动温(焓)差 | 回收效率 | 启动温(焓)差 |
| 默认 | 无 | － | － | － | － |
| Sys | 无 | － | － | － | － |
| Sys0 | 无 | － | － | － | － |
| Sys1 | 无 | － | － | － | － |

# 制冷系统

## 默认冷源

### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | Sys, Sys0 |

### 冷水机组

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | 类型 | 额定耗电量 (kW) | 额定制冷量 (kW) | 额定性能系数 (COP) | 台数 |
| 机组1 | 水冷-螺杆式冷水机组 | 65 | 651 | 10.00 | 2 |

### 水泵系统

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 类型 | 调节 | 流量 (m3/h) | 扬程 (m) | 设计工作效率(%) | 输入功率 (kW) | 冷却塔耗电比 (kWh/m3) | 台数 |
| 冷却水泵 | 单速 | 320 | 25 | 80 | 31.3 | 0.03 | 1 |
| 冷冻水泵 | 单速 | 320 | 30 | 80 | 37.6 | － | 1 |

### 运行工况

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 负载率 (%) | 机组制冷量 (kW) | 机组功率 (kW) | 性能系数 (COP) | 冷却水泵功率 (kW) | 冷冻水泵功率 (kW) | 冷却塔功率 (kW) |
| 20 | 260.4 | 20 | 13.02 | 31.3 | 37.6 | 9.6 |
| 40 | 520.8 | 40 | 13.02 | 31.3 | 37.6 | 9.6 |
| 60 | 781.2 | 70 | 11.16 | 62.6 | 75.1 | 19.2 |
| 80 | 1041.6 | 90 | 11.57 | 62.6 | 75.1 | 19.2 |
| 100 | 1302 | 100 | 13.02 | 62.6 | 75.1 | 19.2 |

### 制冷能耗

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 负荷区间 (%) | 区间负荷 (kWh) | 运行时长(h) | 制冷机组 (kWh) | 平均性能系数(COP) | 冷却水泵 (kWh) | 冷冻水泵 (kWh) | 冷却塔 (kWh) |
| 0~20 | 933 | 263 | 72 | 13.02 | 8232 | 9889 | 2525 |
| 20~40 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 40~60 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 60~80 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 80~100 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| >100 | 0 | 0 | 0 | － | 0 | 0 | 0 |
| 合计 | 933 | 263 | 72 |  | 8232 | 9889 | 2525 |

# 空调风机

## 独立新排风

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 新风量 (m3/h) | 单位风量耗功率 W/(m3/h) | 风机功率(W) | 运行时长(h) | 新风电耗(kWh) |
| Sys | 610 | 0.24 | 146 | 3504 | 513 |
| Sys0 | 451 | 0.24 | 108 | 5112 | 554 |
| 合计 | | | | | 1067 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 排风量 (m3/h) | 排风比 | 单位风量耗功率W/(m3/h) | 风机功率(W) | 运行时长(h) | 排风电耗 (kWh) |
| Sys | 488 | 0.8 | 0.24 | 117 | 3504 | 411 |
| Sys0 | 361 | 0.8 | 0.24 | 87 | 5112 | 443 |
| 合计 | | | | | | 854 |

# 照明

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 房间类型 | 单位面积电耗 (kWh/㎡) | 房间个数 | 房间合计面积 (㎡) | 合计电耗 (kWh) |
| 休息室 | 5.48 | 1 | 44 | 242 |
| 卧室 | 16.43 | 6 | 159 | 2606 |
| 卫生间 | 4.38 | 3 | 11 | 46 |
| 楼梯间 | 0.00 | 5 | 80 | 0 |
| 设备间 | 0.00 | 5 | 100 | 0 |
| 车库 | 2.92 | 1 | 136 | 397 |
| 酒吧、茶座 | 5.48 | 3 | 300 | 1642 |
| 餐厅 | 5.48 | 1 | 57 | 313 |
| 总计 | | | | 5247 |

# 生活热水

## 热水需求

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 分区 | 用水定额 (L/人·d) | 热水温差(℃) | 用水人数 | 年使用天数 | 所需热量 (kWh/a) |
| 卧室 | 8 | 45 | 2 | 365 | 300 |
| 酒吧、茶座 | 8 | 45 | 10 | 365 | 1502 |
| 卫生间 | 10 | 45 | 2 | 365 | 376 |
| 厨房 | 12 | 45 | 3 | 365 | 676 |
| 总计 | | | | | 2854 |

## 太阳能集热

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 太阳能板 分组名称 | 集热器面积(㎡) | 日均辐照量(kj/(㎡·d) | 年利用天数 | 年均集 热效率 | 热量 损失率 | 太阳能供热(kWh/a) |
| 1 | 100 | 15333 | 256 | 0.42 | 0.25 | 34346 |
| 总计 | | | | | | 34346 |

## 热水设备

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 热水设备 | 供热比例 | 供热量(kWh/a) | 能源 | 效率 | 耗电量(kWh/a) |
| 电加热 | 0.5 | 0 | 电 | 0.9 | 0 |
| 备注 |  | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 热水设备 | 供热比例 | 供热量(kWh/a) | 能源 | 效率 | 耗气量(m3/a) |
| 锅炉 | 0.2 | 0 | 天然气 | 0.9 | 0 |
| 备注 |  | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 热水设备 | 供热比例 | 供热量(kWh/a) | 性能系数 | 联供比例 | 耗电量(kWh/a) | 一次能源(kWh) |
| 热泵 | 0.3 | 0 | 3.5 | 0 | 0 | 0 |
| 备注 |  | | | | | |

注：

1.设计建筑热水设备承担的热水全年累计负荷=需求热量－太阳能供热量。

2.使用天然气锅炉时，按照《公共建筑节能设计标准》GB50189-2015附录B.0.6中有关数据折算标煤和折电。

# 光伏发电

日照辐照量(kJ/㎡.天)：15333，年运行天数：365

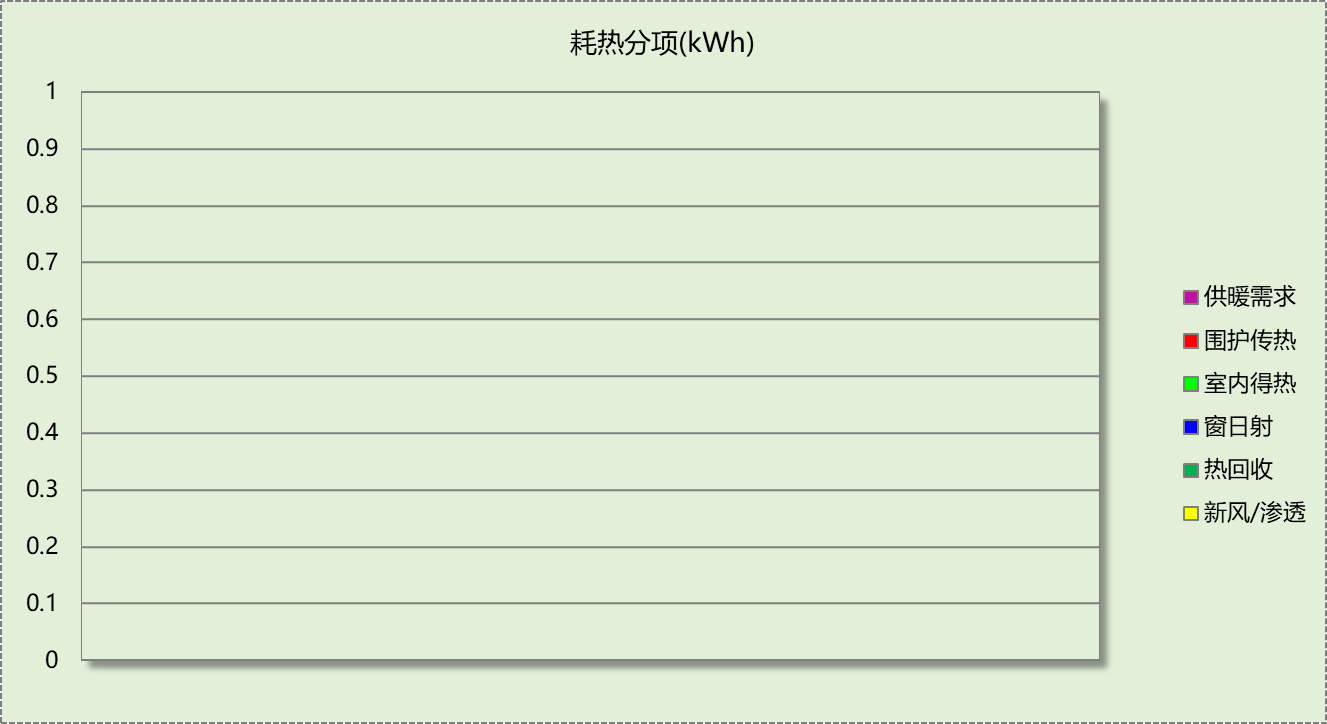
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 光伏板面积 (㎡) | 光电转换 效率(%) | 光伏系统效率 | 光伏电池性能衰减修正系数 | 全年供电 (kWh) |
| 250 | 20 | 0.75 | 0.85 | 49553 |
| 总计 | | | | 49553 |

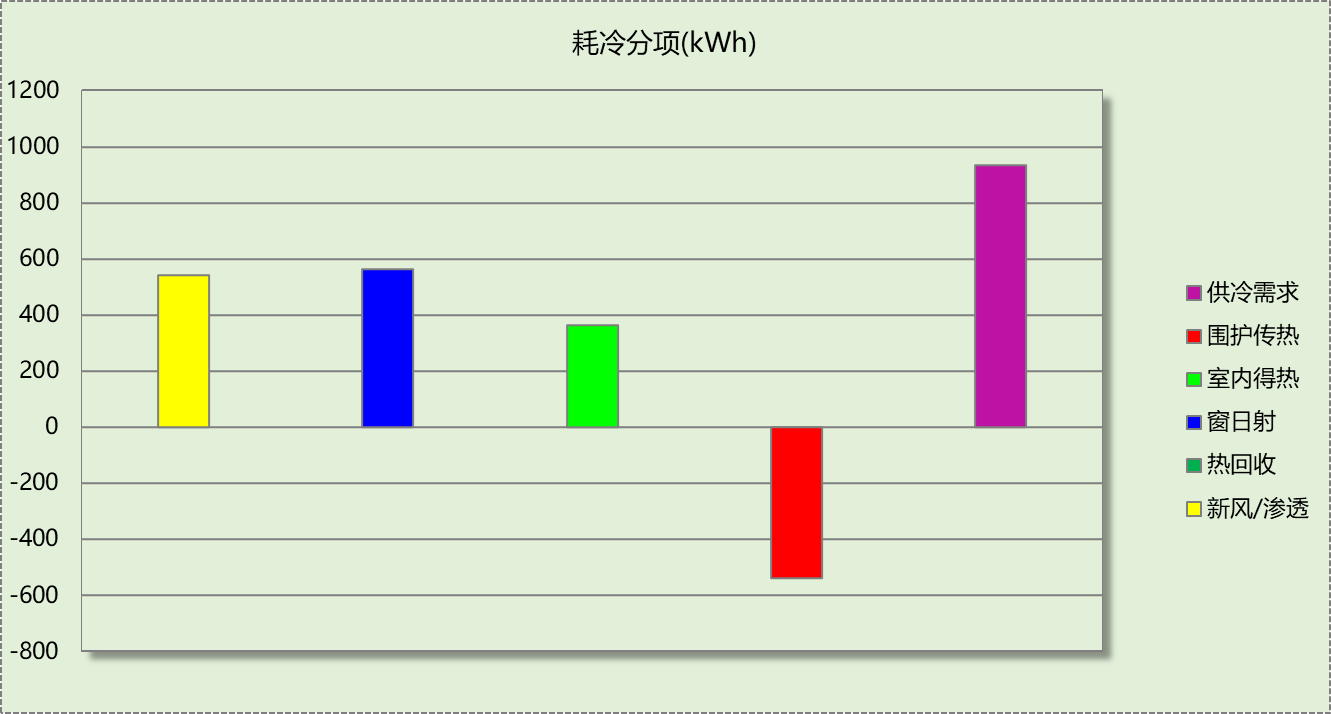
# 能效结果

## 建筑负荷

### 负荷分项统计

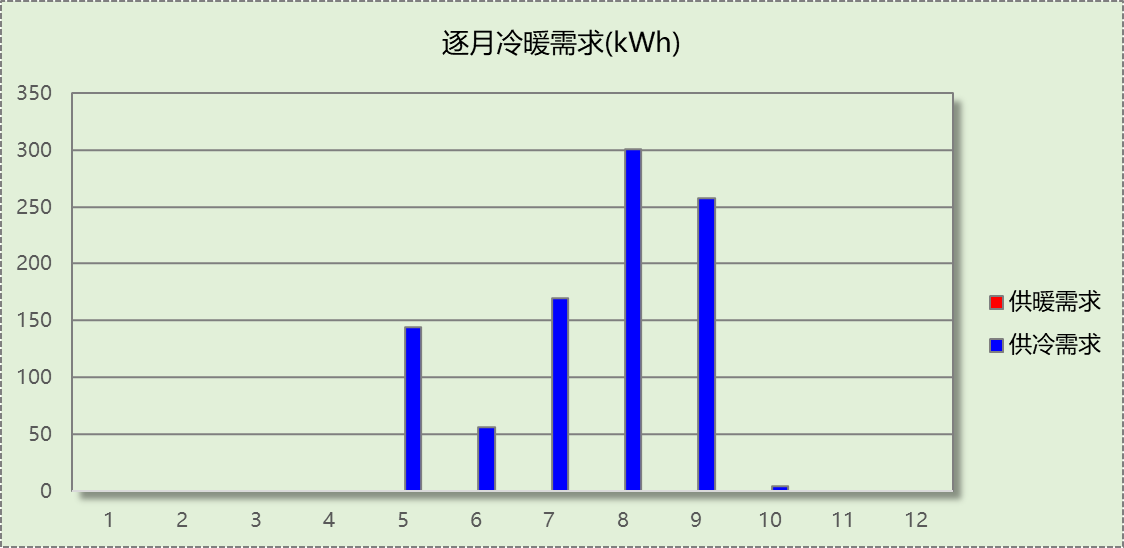
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 分类 | 围护传热 | 室内得热 | 窗日射 | 新风/渗透 | 热回收 | 合计 |
| 供暖(kWh) | 0 | 0 | 0 | 0 | 0 | 0 |
| 供冷(kWh) | -538 | 365 | 563 | 542 | 0 | 933 |

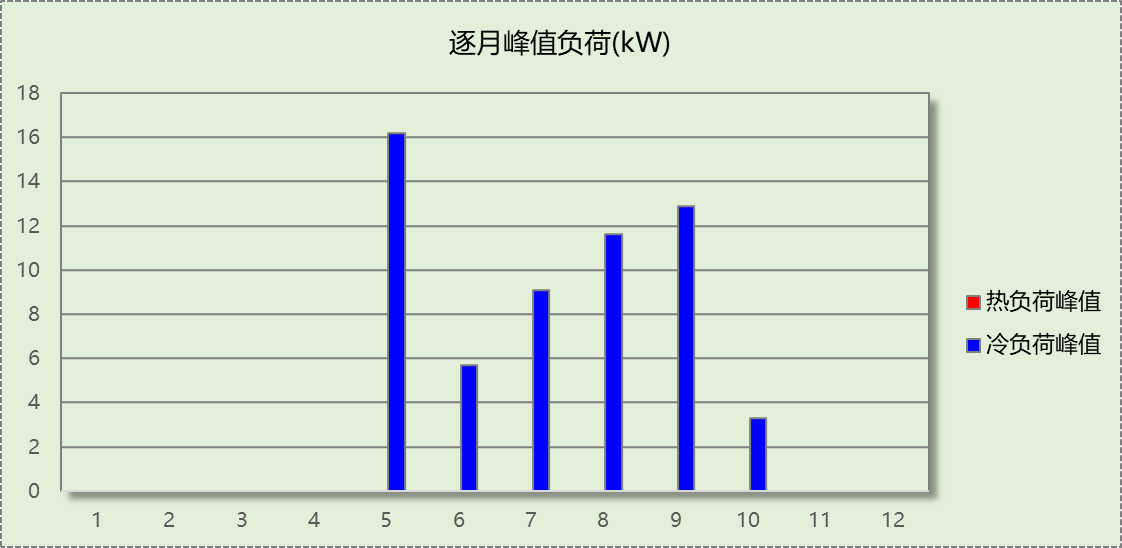




### 逐月负荷表

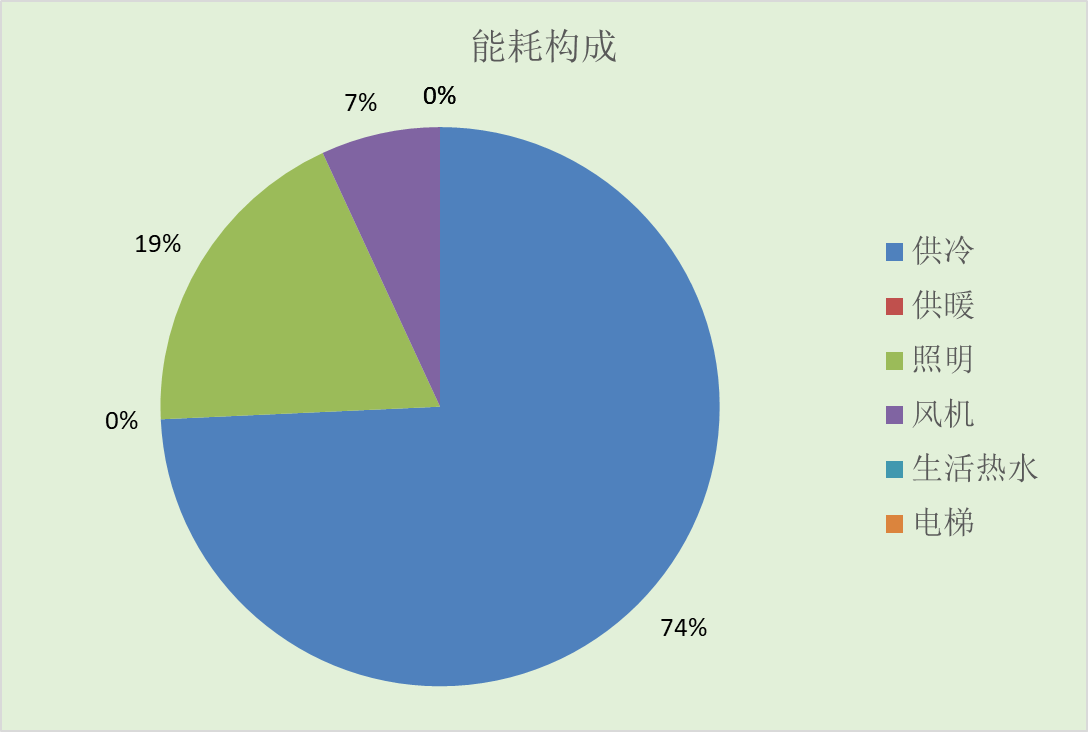
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 月份 | 供暖(kWh) | 供冷(kWh) | 热负荷 峰值(kW) | 热负荷 峰值时刻 | 冷负荷 峰值(kW) | 冷负荷 峰值时刻 |
| 1月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 2月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 3月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 4月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 5月 | 0 | 144 | 0.000 | -- | 16.245 | 5月28日21时 |
| 6月 | 0 | 56 | 0.000 | -- | 5.740 | 6月11日17时 |
| 7月 | 0 | 169 | 0.000 | -- | 9.098 | 7月16日21时 |
| 8月 | 0 | 301 | 0.000 | -- | 11.587 | 8月29日22时 |
| 9月 | 0 | 257 | 0.000 | -- | 12.904 | 9月11日18时 |
| 10月 | 0 | 5 | 0.000 | -- | 3.259 | 10月1日18时 |
| 11月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 12月 | 0 | 0 | 0.000 | -- | 0.000 | -- |





## 建筑能耗

|  |  |  |  |
| --- | --- | --- | --- |
| 用能分类 | | 能耗值 | 一次能源(kWh/㎡) |
| 电力(kWh/㎡) | 供冷 | 36.30 | 94.38 |
| 供暖 | 0.00 | 0.00 |
| 照明 | 9.20 | 23.92 |
| 新排风机 | 3.37 | 8.76 |
| 生活热水 | 0.00 | 0.00 |
| 电梯 | 0.00 | 0.00 |
| 标准煤(kgce/㎡) | 供暖锅炉 | 0.00 | 0.00 |
| 天然气(m³/㎡) | 供暖锅炉 | 0.00 | 0.00 |
| 生活热水 | 0.00 | 0.00 |
| 市政热力(kWh/㎡) | 市政热力 | 0.00 | 0.00 |
| 可再生发电(kWh/㎡) | 光伏发电 | 86.83 | 225.76 |
| 风力发电 | 0.00 | 0.00 |
| 一次能源需求(kWh/㎡) | | | 0.00 |



## 可再生能源利用

|  |  |  |
| --- | --- | --- |
| 能耗分项 | 需求量（电）(kWh/㎡) | 需求量（热）(kWh/㎡) |
| 耗冷量 | ­- | 1.64 |
| 耗热量 | - | 0.00 |
| 照明 | 9.20 | 23.92 |
| 空调风机 | 3.37 | 8.76 |
| 电梯 | 0.00 | 0.00 |
| 生活热水 | - | 5.00 |
| 合计 | | 39.31 |
| 可再生分项 | 可再生发电 (kWh/㎡) | 可再生利用（热）(kWh/㎡) |
| 地源\空气源供热 | - | 0.00 |
| 单体空调\多联机供热 | - | 0.00 |
| 太阳能热水 | - | 5.00 |
| 热泵热水 | - | 0.00 |
| 光伏发电 | 86.83 | 225.76 |
| 风力发电 | 0.00 | 0.00 |
| 合计 | | 230.76 |
| 可再生能源利用率(%) | 587 | |

## 结论

|  |  |  |
| --- | --- | --- |
| 检查项 | 值 | 限值 |
| 供冷年耗冷量(kWh/㎡) | 1.64 | 3.02 |
| 供暖年耗热量(kWh/㎡) | 0.00 | 8.00 |
| 建筑综合能耗(一次能源)值(kWh/㎡) | 0.00 | 55.00 |
| 可再生能源利用率(%) | 587 | 10 |
| 标准依据 | 《近零能耗建筑技术标准》第5.0.1条 | |
| 标准要求 | 近零能耗居住建筑的能效指标应符合表5.0.1的规定 | |
| 结论 | 满足 | |

# 附录

## 工作日/节假日人员逐时在室率(%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 休息室 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 卧室 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 卫生间 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 设备间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 车库 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 酒吧、茶座 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 餐厅 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

注：上行：工作日；下行：节假日

## 工作日/节假日照明开关时间表(%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 休息室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 卧室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 设备间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 车库 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 0 | 0 | 0 |
| 酒吧、茶座 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 餐厅 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 |

注：上行：工作日；下行：节假日

## 工作日/节假日设备逐时使用率(%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 休息室 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 卧室 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 设备间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 车库 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 酒吧、茶座 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 餐厅 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |

注：上行：工作日；下行：节假日

## 工作日/节假日空调系统运行时间表(1:开,0:关)

采暖期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

供冷期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sys1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

注：上行：工作日；下行：节假日

## 工作日/节假日新风运行时间表(%)

采暖期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

供冷期：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 系统编号 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 默认 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sys0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Sys1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

注：上行：工作日；下行：节假日