**被动式超低能耗建筑**

**节能设计报告书**

居住建筑

|  |  |
| --- | --- |
| 工程名称 | 青·舍——青峰岭村田园社区设计 |
| 工程地点 | 安徽-合肥 |
| 设计编号 |  |
| 建设单位 | 安徽建筑大学 |
| 设计单位 | 安徽建筑大学 |
| 设 计 人 |  |
| 校 对 人 |  |
| 审 核 人 |  |
| 计算日期 | 2021年12月28日 |



|  |  |
| --- | --- |
| 采用软件 | 超低能耗PHES2020 |
| 软件版本 | 20191010 |
| 研发单位 | 北京绿建软件有限公司 |
| 正版授权码 | T18018994802 |

# 建筑概况

|  |  |
| --- | --- |
| 工程名称 | 青·舍——青峰岭村田园社区设计 |
| 工程地点 | 安徽-合肥 |
| 气候子区 | 夏热冬冷 |
| 建筑面积(Ao) | 地上302㎡ 地下0㎡ |
| 建筑层数 | 地上2 地下0 |
| 建筑高度 | 地上9.6m 地下0.0m |
| 北向角度 | 150° |
| 结构类型 |  |
| 控温期 | 供冷期:5.2-9.24,供暖期:11.13-3.14 |

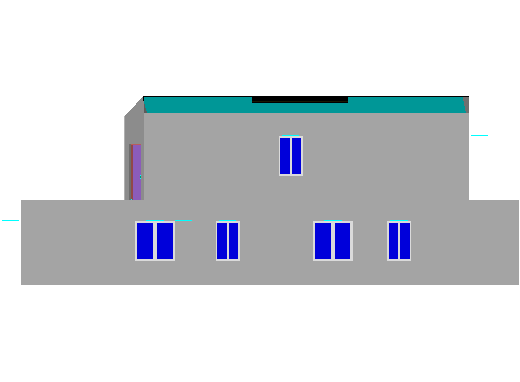
# 设计依据

1. 《近零能耗建筑技术标准》(GB/T 51350-2019)

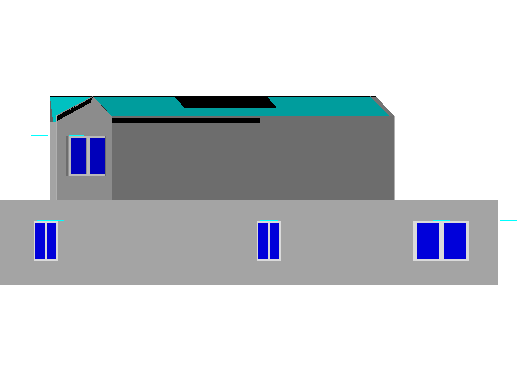
2. 《民用建筑热工设计规范》(GB50176)

3. 《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008）

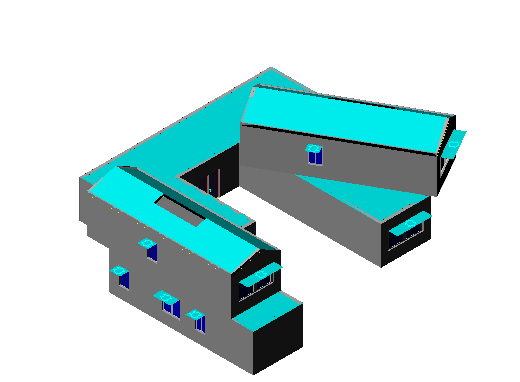
# 建筑大样



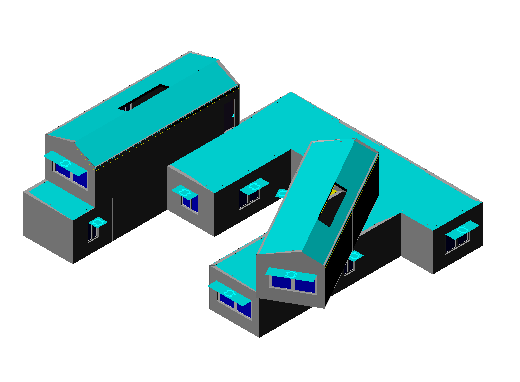
左视图



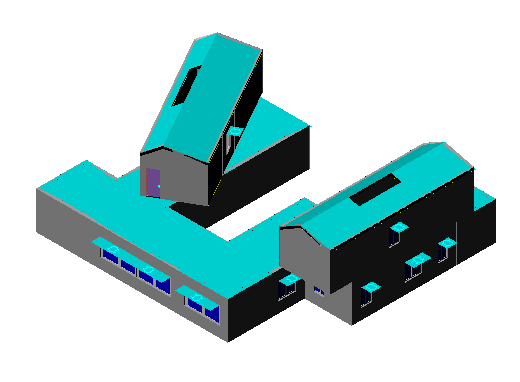
右视图



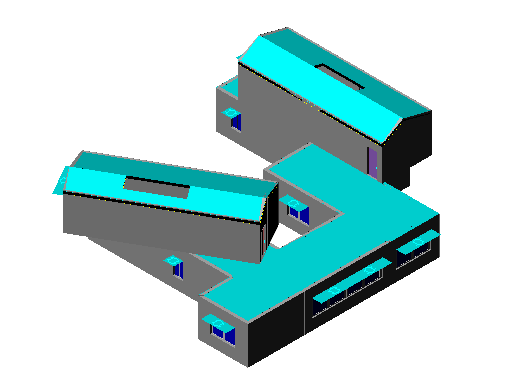
西南轴侧图



东南轴侧图



西北轴侧图



东北轴侧图

# 工程材料

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 | 备注 |
| W/(m.K) | W/(㎡.K) | kg/m3 | J/(kg.K) | g/(m.h.kPa) |
| 水泥砂浆 | 0.930 | 11.370 | 1800.0 | 1050.0 | 0.0210 | 来源：《民用建筑热工设计规范（GB50176-93）》 |
| 石灰砂浆 | 0.810 | 10.070 | 1600.0 | 1050.0 | 0.0443 | 来源：《民用建筑热工设计规范（GB50176-93）》 |
| 钢筋混凝土 | 1.740 | 17.200 | 2500.0 | 920.0 | 0.0158 | 来源：《民用建筑热工设计规范（GB50176-93）》 |
| 混凝土多孔砖(190六孔砖） | 0.750 | 7.490 | 1450.0 | 709.4 | 0.0000 |  |
| 石灰水泥砂浆（混合砂浆） | 0.870 | 10.750 | 1700.0 | 1050.0 | 0.0975 | 蒸汽渗透系数为测定值 |
| 挤塑聚苯板 | 0.033 | 0.347 | 28.0 | 1790.0 | 0.0000 |  |
| 抗裂砂浆（网格布） | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0000 |  |
| 膨胀珍珠岩(ρ=80) | 0.058 | 0.628 | 80.0 | 1170.0 | 0.0000 |  |
| 聚合物保温砂浆 | 0.110 | 3.500 | 650.0 | 2356.0 | 0.0000 |  |
| 水泥膨胀蛭石 | 0.140 | 1.990 | 350.0 | 1050.0 | 0.0000 |  |
| 普通混凝土多孔砖墙 | 0.740 | 7.250 | 1450.0 | 673.6 | 0.0000 |  |
| B1级 EPS保温板 | 0.039 | 0.360 | 18.0 | 2538.6 | 0.0000 | DB22/T496-2012 |

# 屋顶

## 屋顶构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 水泥膨胀蛭石 | 250 | 0.140 | 1.990 | 1.00 | 1.786 | 3.554 |
| 水泥砂浆 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 钢筋混凝土 | 100 | 1.740 | 17.200 | 1.25 | 0.046 | 0.989 |
| 各层之和∑ | 390 | － | － | － | 1.875 | 5.031 |
| 传热系数K=1/(0.15+∑R) | 0.49 | | | | | |
| 数据来源 | 安徽省公建DB34/T753-2007第122页 | | | | | |

# 外墙

## 外墙构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 石灰水泥砂浆（混合砂浆） | 20 | 0.870 | 10.750 | 1.00 | 0.023 | 0.247 |
| 普通混凝土多孔砖墙 | 240 | 0.740 | 7.250 | 1.20 | 0.270 | 2.351 |
| 挤塑聚苯板 | 40 | 0.033 | 0.347 | 1.10 | 1.102 | 0.421 |
| 抗裂砂浆（网格布） | 5 | 0.930 | 11.306 | 1.00 | 0.005 | 0.061 |
| 各层之和∑ | 305 | － | － | － | 1.401 | 3.080 |
| 传热系数K=1/(0.15+∑R) | 0.65 | | | | | |
| 修正后K, D | K = 0.59, D = 3.09 | | | | | |
| 修正原因 |  | | | | | |
| 数据来源 | 安徽省公建DB34/T753-2007第104页 | | | | | |

# 外窗热工

## 外窗构造

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 构造名称 | 构造编号 | 传热系数 | 自遮阳系数 | 可见光透射比 | 备注 |
| 1 | 6mm空气中空玻璃PA断热铝合金窗（下限） | 18 | 3.18 | 0.80 | 0.800 | 安徽省公建DB34/T753-2007第61页 |

## 外遮阳类型

### 自定义遮阳

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 序号 | 编号 | 夏季遮阳系数 | 冬季遮阳系数 | 平均遮阳系数 | 备注 |
| 1 | 活动遮阳0 | 1.000 | 1.000 | 1.000 |  |

## 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 | 13.05 | 3.18 | 0.70 | 0.70 | 0.09 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 北向 | 8.55 | 3.18 | 0.70 | 0.70 | 0.07 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 东向 | 14.85 | 3.18 | 0.70 | 0.70 | 0.13 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 西向 | 12.60 | 3.18 | 0.70 | 0.70 | 0.14 | K≤2.00, SHGCSum≤0.30, SHGCWin≥0.40 | 不需要 |
| 综合平均 | 49.05 | 3.18 | 0.70 | 0.70 | 0.10 |  |  |
| 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。

# 外门窗气密性

|  |  |  |  |
| --- | --- | --- | --- |
| 层数 | 外窗气密性 | 外门气密性 | 户门气密性 |
| 最不利气密性等级 | 8级 C0915 | 8级 C0915 | 8级 C0915 |
| 外门窗气密性措施 |  |  |  |
| 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《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008） | 《近零能耗建筑技术标准》第6.1.4条，分级与检测方法《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008） | 《近零能耗建筑技术标准》第6.1.4条，分级与检测方法《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008） |
| 标准要求 | 外窗及外门户门气密性不宜低于《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008）的8级 | 外窗及外门户门气密性不宜低于《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008）的6级 | 外窗及外门户门气密性不宜低于《建筑外门窗气密，水密，抗风压性能分级及检测方法》（GB/T 7106-2008）的6级 |
| 结论 | 适宜 | 适宜 | 适宜 |

# 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 | 外门窗气密性 | 适宜 |

# 房间类型

## 房间表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 空调温度 ℃ | 供暖温度 ℃ | 新风量 | 人员密度 | 照明功率 密度 | 电器设备 功率 |
| 卧室 | 26 | 20 | 30(m3/h.人) | 32(㎡/人) | 6(W/㎡) | 6(W/㎡) |
| 卫生间 | 26 | 20 | 30(m3/h.人) | 32(㎡/人) | 6(W/㎡) | 0(W/㎡) |
| 厨房 | 26 | 20 | 30(m3/h.人) | 32(㎡/人) | 6(W/㎡) | 24(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 0(㎡/人) | 0(W/㎡) | 0(W/㎡) |
| 空房间 | － | － | 0(m3/h.人) | 0(㎡/人) | 0(W/㎡) | 0(W/㎡) |
| 起居室 | 26 | 20 | 30(m3/h.人) | 32(㎡/人) | 6(W/㎡) | 5(W/㎡) |
| 餐厅 | 26 | 20 | 30(m3/h.人) | 32(㎡/人) | 6(W/㎡) | 5(W/㎡) |

## 作息时间表

详见附录

# 系统参数

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 制冷能效比 | 制热能效比 | 单位风量耗功率W/(m3/h) | 全热回收效率 | 排风比例 |
| 2.6 | 2.3 | 0.45 | 0.65 | 0.90 |

# 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) |
| 卧室 | 6.57 | 7 | 101 | 665 |
| 卫生间 | 6.57 | 4 | 28 | 185 |
| 厨房 | 6.57 | 2 | 22 | 147 |
| 楼梯间 | 0.00 | 2 | 13 | 0 |
| 空房间 | 0.00 | 4 | 21 | 0 |
| 起居室 | 6.57 | 2 | 42 | 273 |
| 餐厅 | 6.57 | 1 | 24 | 161 |
| 总计 | | | | 1430 |

# 生活热水

热水温差(℃)：30, 日照辐照量(kJ/㎡.天)：18340，年运行天数：365

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 分区 | 用水 定额 (L·人/d) | 供应 人数 | 年使用 天数 | 所需 能耗 (kWh) | 集热器 面积 (㎡) | 集热器 效率 | 热损失 系数 | 太阳能 供热 (kWh) |
| 办公 | 10 | 100 | 365 | 4272.1 | 100 | 0.45 | 0.15 | 4272.1 |
| 总计 | | | | 4272 |  | | | 4272 |

# 电梯

无

# 光伏发电

日照辐照量(kJ/㎡.天)：18340，年运行天数：365

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 光伏板面积 (㎡) | 单位面积 发电参数 | 光伏系统效率 | 光伏电池性能衰减修正系数 | 全年电耗 (kWh) |
| 75 | 0.4 | 0.8 | 0.9 | 40 |
| 总计 | | | | 40 |

# 能耗需求指标

|  |  |  |  |
| --- | --- | --- | --- |
| 能耗分类 | | 设计建筑 | 限值 |
| 供冷需求  (kWh/㎡) | 围护结构传热 | 23.67 | -- |
| 透明围护结构太阳辐射热 | 37.14 | -- |
| 新风(含渗透)得热 | 18.29 | -- |
| 室内得热 | 9.93 | -- |
|  | | |
| 显热能耗 | 68.70 | -- |
| 潜热能耗 | 20.35 | -- |
| 供冷需求合计 | 89.04 | 34.18 |
| 供暖需求  (kWh/㎡) | 围护结构传热 | -74.09 | -- |
| 透明围护结构太阳辐射热 | 21.81 | -- |
| 新风(含渗透)得热 | -4.88 | -- |
| 室内得热 | 7.70 | -- |
| 供暖需求合计 | 49.46 | 10.00 |
| 热回收  (kWh/㎡) | 供冷 | 1.20 | -- |
| 供暖 | 6.92 | -- |
|  | | | |
| 电耗  (kWh/㎡) | 供冷电耗 | 34.25 | -- |
| 供暖电耗 | 21.50 | -- |
| 照明电耗 | 6.57 | -- |
| 风机电耗 | 2.71 | -- |
| 生活热水电耗 | 19.62 | -- |
| 电梯电耗 | 0.00 | -- |
| 可再生能源(kWh/㎡) | 太阳能 | 19.62 | -- |
| 光伏发电 | 184.47 | -- |
|  | | | |
| 峰值负荷  (W/㎡) | 建筑最大冷负荷 | 64.42 | -- |
| 建筑最大热负荷 | 50.60 | -- |
|  | | | |
| 一次能源需求(kWh/㎡) | | 0.00 | 65.00 |
| 标准依据 | | 《近零能耗建筑技术标准》第5.0.3条 | |
| 标准要求 | | 超低能耗居住建筑能效指标应符合表5.0.3的规定 | |
| 结论 | | 未知结论 | |

|  |  |  |  |
| --- | --- | --- | --- |
| 能耗分项 | 需求量(kWh/㎡) | 可再生能源利用 | 利用量(热量) (kWh/㎡) |
| 耗冷量Qc | 89.04 |  |  |
| 耗热量Qh | 49.46 | 地源\空气源EPh |  |
| 生活热水耗热量Qw | 57.49 | 太阳能供热EPw,sol | 57.49 |
| 照明能耗Ql | 17.08 | 光伏发电Er | 479.62 |
| 电梯能耗Qe | 0.00 |  |  |
| 合计 | 213.08 |  | 537.12 |
| 可再生利用率 | 252% | | |
| 计算依据 | 《近零能耗建筑技术标准》第A.1.7条 | | |

# 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 |
| 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 |
| 厨房 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 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 |
| 空房间 | 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 |
| 起居室 | 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 |
| 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 |
| 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 |
| 厨房 | 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 |
| 空房间 | 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 |
| 起居室 | 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 |
| 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 |
| 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 |
| 厨房 | 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 |
| 空房间 | 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 |
| 起居室 | 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 |
| 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 |
| Sys1 | 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 |
| Sys2 | 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 |

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 |
| Sys1 | 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 |
| Sys2 | 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 |

注：上行：工作日；下行：节假日