**被动式超低能耗建筑**

**节能设计报告书**

居住建筑

|  |  |
| --- | --- |
| 工程名称 | 园岭新村 |
| 工程地点 | 广东-深圳 |
| 设计编号 |  |
| 建设单位 |  |
| 设计单位 |  |
| 设 计 人 |  |
| 校 对 人 |  |
| 审 核 人 |  |
| 计算日期 | 2022年1月3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 | T13726671523 |

# 建筑概况

|  |  |
| --- | --- |
| 工程名称 | 园岭新村 |
| 工程地点 | 广东-深圳 |
| 气候子区 | 夏热冬暖南区 |
| 建筑面积(Ao) | 地上2011㎡ 地下0㎡ |
| 建筑层数 | 地上9 地下0 |
| 建筑高度 | 地上27.0m 地下0.0m |
| 北向角度 | 90° |
| 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）

# 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》GB50176-2016 |
| 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》GB50176-2016 |
| 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》GB50176-2016 |
| 聚苯乙烯泡沫塑料 | 0.042 | 0.356 | 30.0 | 1380.0 | 0.0000 |  |
| 粉刷石膏抹灰压入网格布 | 0.230 | 3.748 | 800.0 | 1050.0 | 0.0000 |  |
| 粘土砖渣砌体 | 0.650 | 8.548 | 1300.0 | 1189.0 | 0.0000 | 蒸汽渗透系数没有给出 |
| 石灰水泥砂浆（混合砂浆） | 0.870 | 10.627 | 1700.0 | 1050.0 | 0.0000 |  |
| 沥青油毡、油毡纸 | 0.170 | 3.330 | 600.0 | 1470.0 | 0.0000 | 深圳市《居住建筑节能设计规范》SJG 45-2018 附表H.0.1 |
| 实木地板 | 0.170 | 4.661 | 700.0 | 2510.0 | 0.0000 |  |
| 细木工板 | 0.093 | 1.958 | 300.0 | 1890.0 | 0.0000 |  |
| 30x40杉木搁栅 | 0.140 | 3.850 | 500.0 | 2912.0 | 0.0000 |  |
| 玻璃棉(ρ=100) | 0.050 | 0.553 | 100.0 | 840.0 | 0.0000 | 建筑材料手册（第四版） |
| 浮石、凝灰岩 | 0.230 | 3.039 | 600.0 | 920.0 | 0.0000 |  |
| 粘土陶粒混凝土(ρ=1200) | 0.530 | 6.969 | 1200.0 | 1050.0 | 0.0000 |  |
| 挤塑聚苯板 | 0.033 | 0.347 | 28.0 | 1790.0 | 0.0000 |  |
| 玻化微珠保温砂浆 | 0.080 | 0.950 | 350.0 | 443.2 | 0.0000 | 蓄热系数附录H没有给出 |
| 抗裂砂浆（网格布） | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0000 |  |

# 屋顶

## 屋顶构造二（种植屋面）

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 浮石、凝灰岩 | 100 | 0.230 | 3.039 | 1.00 | 0.435 | 1.321 |
| 钢筋混凝土 | 50 | 1.740 | 17.200 | 1.00 | 0.029 | 0.494 |
| 沥青油毡、油毡纸 | 5 | 0.170 | 3.330 | 1.00 | 0.029 | 0.098 |
| 水泥砂浆 | 10 | 0.930 | 11.370 | 1.00 | 0.011 | 0.122 |
| 水泥砂浆 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 粘土陶粒混凝土(ρ=1200) | 30 | 0.530 | 6.969 | 1.00 | 0.057 | 0.394 |
| 挤塑聚苯板 | 40 | 0.033 | 0.347 | 1.00 | 1.212 | 0.421 |
| 钢筋混凝土 | 100 | 1.740 | 17.200 | 1.00 | 0.057 | 0.989 |
| 各层之和∑ | 355 | － | － | － | 1.851 | 4.084 |
| 传热系数K=1/(0.15+∑R) | 0.50 |

# 外墙

## 外墙构造（外保温改造）

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 粉刷石膏抹灰压入网格布 | 4 | 0.230 | 3.748 | 1.00 | 0.017 | 0.065 |
| 聚苯乙烯泡沫塑料 | 30 | 0.042 | 0.356 | 1.20 | 0.595 | 0.254 |
| 水泥砂浆 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 粘土砖渣砌体 | 180 | 0.650 | 8.548 | 1.00 | 0.277 | 2.367 |
| 石灰水泥砂浆（混合砂浆） | 20 | 0.870 | 10.627 | 1.00 | 0.023 | 0.244 |
| 各层之和∑ | 254 | － | － | － | 0.934 | 3.175 |
| 传热系数K=1/(0.15+∑R) | 0.92 |

# 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 | PVC塑料窗框+中透光Low-E中空玻璃 | 159 | 2.50 | 0.38 | 1.000 | 深圳市《居住建筑节能设计规范》SJG 45-2018 附表J.0.2 |

## 外遮阳类型

### 百叶遮阳



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 序号 | 编号 | 外挑A (m) | 百叶间距B (m) | 遮阳板透射比 |
| 1 | 百叶遮阳0 | 0.282 | 0.400 | 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 | 204.12 | 2.50 | 0.33 | 0.33 | 0.35 | K≤2.50, SHGCSum≤0.15, SHGCWin(不要求) | 不需要 |
| 北向 | 173.28 | 2.50 | 0.33 | 0.33 | 0.28 | K≤2.50, SHGCSum≤0.15, SHGCWin(不要求) | 不需要 |
| 东向 | 67.55 | 2.50 | 0.12 | 0.12 | 0.15 | K≤2.50, SHGCSum≤0.15, SHGCWin(不要求) | 不需要 |
| 西向 | 67.55 | 2.50 | 0.13 | 0.13 | 0.15 | K≤2.50, SHGCSum≤0.15, SHGCWin(不要求) | 不需要 |
| 综合平均 | 512.49 | 2.50 | 0.28 | 0.28 | 0.24 |  |  |
| 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 | 6级 C0615 | 6级 C0615 | 6级 C0615 |
| 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 | 不适宜 | 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 | 不适宜 |

# 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/㎡) |

## 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 |
| 2.5 | 2.0 | 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 | 70 | 693 | 4552 |
| 卫生间 | 6.57 | 34 | 96 | 629 |
| 厨房 | 6.57 | 20 | 87 | 572 |
| 楼梯间 | 0.00 | 8 | 106 | 0 |
| 空房间 | 0.00 | 23 | 62 | 0 |
| 起居室 | 6.57 | 28 | 682 | 4478 |
| 总计 | 10231 |

# 生活热水

热水温差(℃)：45, 日照辐照量(kJ/㎡.天)：16340，年运行天数：256

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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) |
| 住宅 | 40 | 250 | 365 | 64081.5 | 250 | 0.45 | 0.15 | 37917 |
| 总计 | 64081 |  | 37917 |

# 电梯

## 直梯

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 名称 | 额定功率(kWh) | 待机功率(W) | 运行时长(h/天) | 年运行天数 | 同时使用系数 | 数量 | 全年电耗(kWh) |
| 直梯1 | 26 | 200 | 1.5 | 365 | 0.4 | 1 | 5803.5 |
| 总计 | 5804 |

# 光伏发电

日照辐照量(kJ/㎡.天)：16340，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) |
| 250 | 0.4 | 0.8 | 0.9 | 119 |
| 总计 | 119 |

# 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 | 26.67 | -- |
| 透明围护结构太阳辐射热 | 18.14 | -- |
| 新风(含渗透)得热 | 11.82 | -- |
| 室内得热 | 11.57 | -- |
|  |
| 显热能耗 | 55.61 | -- |
| 潜热能耗 | 12.59 | -- |
| 供冷需求合计 | 68.20 | 61.18 |
| 供暖需求(kWh/㎡) | 围护结构传热 | -10.40 | -- |
| 透明围护结构太阳辐射热 | 3.91 | -- |
| 新风(含渗透)得热 | -0.77 | -- |
| 室内得热 | 2.57 | -- |
| 供暖需求合计 | 4.69 | 5.00 |
| 热回收(kWh/㎡) | 供冷 | 17.00 | -- |
| 供暖 | 1.18 | -- |
|  |
| 电耗(kWh/㎡) | 供冷电耗 | 27.28 | -- |
| 供暖电耗 | 2.34 | -- |
| 照明电耗 | 6.57 | -- |
| 风机电耗 | 2.71 | -- |
| 生活热水电耗 | 41.15 | -- |
| 电梯电耗 | 3.73 | -- |
| 可再生能源(kWh/㎡) | 太阳能 | 24.35 | -- |
| 光伏发电 | 76.60 | -- |
|  |
| 峰值负荷(W/㎡) | 建筑最大冷负荷 | 35.10 | -- |
| 建筑最大热负荷 | 17.90 | -- |
|  |
| 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 | 68.20 |  |  |
| 耗热量Qh | 4.69 | 地源\空气源EPh |  |
| 生活热水耗热量Qw | 120.59 | 太阳能供热EPw,sol | 71.36 |
| 照明能耗Ql | 17.08 | 光伏发电Er | 199.16 |
| 电梯能耗Qe | 9.70 |  |  |
| 合计 | 220.26 |  | 270.52 |
| 可再生利用率 | 123% |
| 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 |

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 |

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 |

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 | 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 |

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 | 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 |

注：上行：工作日；下行：节假日