**超低能耗**

**建筑能效报告书**

公共建筑

|  |  |
| --- | --- |
| 工程名称 | 浙江美丽乡村学院  |
| 工程地点 | 浙江-衢州 |
| 设计编号 | 001 |
| 建设单位 |  |
| 设计单位 |  |
| 设 计 人 |  |
| 审 核 人 |  |
| 审 定 人 |  |
| 设计日期 | 2024年12月6日 |



|  |  |
| --- | --- |
| 采用软件 | 超低能耗PHES2024 |
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# 建筑概况

|  |  |
| --- | --- |
| 工程名称 | 浙江美丽乡村学院 |
| 工程地点 | 浙江-衢州 |
| 地理位置 | 北纬：29.00° | 东经：118.90° |
| 建筑面积(m2) | 地上1480 地下0 |
| 建筑层数 | 地上3 地下0 |
| 建筑高度（m） | 地上14.2 地下0.0 |
| 建筑体积(m3) | 6549.05 |
| 建筑外表面积(m2) | 2027.20 |
| 建筑气密性（换气次数N50） | 0.60 |
| 建筑类型细化 | 学校建筑 |
| 北向角度 | 90 |
| 结构类型 |  |
| 外墙太阳辐射吸收系数 | 0.75 |
| 屋顶太阳辐射吸收系数 | 0.75 |
| 控温期 | 供冷期:7.1-8.31 |

# 评估依据

1. 《近零能耗建筑技术标准》(GB/T51350-2019)

2. 《公共建筑节能设计标准》(GB50189-2015)

3. 《民用建筑热工设计规范》(GB50176-2016-2016)

4. 《建筑幕墙、门窗通用技术条件》(GB/T31433-2015)

# 气象数据

## 气象地点

浙江-衢州, 《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 | 08月01日14时 | 40.0 | 26.7 | 17.1 | 84.2 |
| 最冷 | 12月20日05时 | -3.3 | -4.4 | 2.2 | 2.1 |

# 围护结构

## 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) |
| 水泥砂浆 | 0.930 | 11.370 | 1800.0 | 1050.0 | 0.0210 | 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 | 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 |
| 烧结普通砖砌块 | 0.810 | 10.630 | 1800.0 | 1060.0 | 0.0000 | 浙江居住建筑节能设计标准 DB33/1015-2021 |
| 防水卷材(沥青油毡、油毡纸) | 0.170 | 3.302 | 600.0 | 1470.0 | 0.0014 | 安徽公共建筑节能设计标准 DB34 T753-2007 |
| 纸面石膏板 | 0.330 | 5.280 | 1050.0 | 1100.0 | 0.0000 | 浙江省居住建筑楼板构造(2018浙J76) |
| 钢丝网架聚苯板 | 0.039 | 0.313 | 25.0 | 1380.0 | 0.0162 | 内蒙古公共建筑节能标准 DBJ03-27-2017 |
| 天然花岗岩板材 | 3.490 | 25.569 | 2800.0 | 920.0 | 0.0113 | 民用建筑热工设计规范 GB50176-2016 |
| 聚合物水泥砂浆 | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0100 | DB23-T120-2001 |
| 挤塑聚苯板（XPS）(屋面楼板) | 0.030 | 0.320 | 35.0 | 1340.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 挤塑聚苯板（XPS）(墙体) | 0.030 | 0.340 | 35.0 | 1510.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 水泥砂浆挂瓦 | 0.930 | 11.306 | 1800.0 | 1050.0 | 0.0080 |  |
| 沥青混凝土 | 1.050 | 16.390 | 2100.0 | 1680.0 | 0.0075 | 安徽省居住建筑节能设计标准 DB34/1466-2019 |
| 铝塑复合板 | 0.450 | 6.886 | 1380.0 | 1050.0 | 0.0000 | 四川省居住建筑节能设计标准 GB51/5027-2019 |

### 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 |
| 胶黏剂 | － | － | － |  |
| 涂料饰面(忽略保温性能) | 0.0 | 0.000 | － |  |

## 屋顶

### 坡屋顶

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 水泥砂浆挂瓦 | 20 | 0.930 | 11.306 | 1.00 | 0.022 | 0.243 |
| 水泥砂浆 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 钢丝网架聚苯板 | 50 | 0.039 | 0.313 | 1.55 | 0.827 | 0.401 |
| 防水卷材(沥青油毡、油毡纸) | 2 | 0.170 | 3.302 | 1.00 | 0.012 | 0.039 |
| 沥青混凝土 | 20 | 1.050 | 16.390 | 1.00 | 0.019 | 0.312 |
| 挤塑聚苯板（XPS）(屋面楼板) | 130 | 0.030 | 0.320 | 1.20 | 3.611 | 1.387 |
| 防水卷材(沥青油毡、油毡纸) | 20 | 0.170 | 3.302 | 1.00 | 0.118 | 0.388 |
| 钢筋混凝土 | 120 | 1.740 | 17.200 | 1.00 | 0.069 | 1.186 |
| 石灰砂浆 | 20 | 0.810 | 10.070 | 1.00 | 0.025 | 0.249 |
| 各层之和∑ | 402 | － | － | － | 4.723 | 4.450 |
| 外表面太阳辐射吸收系数 | 0.75 |
| 传热系数K=1/(0.15+∑R) | 0.21 |

## 天窗类型

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 序号 | 构造名称 | 构造编号 | 传热系数 | 夏季综合太阳得热系数 | 冬季综合太阳得热系数 | 备注 |
| 1 | 65系列平开隔热铝合金窗(5+12Ar+5Low\_E)(高透光) | 98 | 2.10 | 0.39 | 0.39 |  |
| 平均 |  | 2.10 | 0.11 | 0.10 |  |

## 外墙

### 外墙相关构造

#### 砌体墙

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 水泥砂浆 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 挤塑聚苯板（XPS）(墙体) | 80 | 0.030 | 0.340 | 1.10 | 2.424 | 0.907 |
| 水泥砂浆 | 20 | 0.930 | 11.370 | 1.00 | 0.022 | 0.245 |
| 钢筋混凝土 | 200 | 1.740 | 17.200 | 1.00 | 0.115 | 1.977 |
| 石灰砂浆 | 15 | 0.810 | 10.070 | 1.00 | 0.019 | 0.186 |
| 各层之和∑ | 335 | － | － | － | 2.601 | 3.559 |
| 外表面太阳辐射吸收系数 | 0.75 |
| 传热系数K=1/(0.15+∑R) | 0.36 |
| 考虑线性热桥后K | 0.36 + 92.23/1029.71 = 0.45 |

### 外墙线性热桥

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 朝向 | 热桥部位 | 索引号 | 线传热系数Ψ[W/(m.K)] | 热桥长度L(m) | L\*Ψ(W/K) |
| 南 | 外墙－屋顶 | WR-1 | 0.192 | 58.90 | 11.31 |
| 门窗左右口 | WS-1 | 0.083 | 94.80 | 7.87 |
| 门窗上口 | WU-1 | 0.083 | 31.50 | 2.61 |
| 窗下口 | WD-1 | 0.121 | 30.00 | 3.63 |
| 外墙－外墙 | WO-1 | 0.071/2=0.0355 | 45.80 | 1.63 |
| 外墙－楼板 | WF-1 | 0.008 | 53.75 | 0.43 |
| 外墙－内墙 | WI-1 | 0.001 | 24.81 | 0.02 |
| 合计 |  | 27.50 |
| 北 | 外墙－屋顶 | WR-1 | 0.192 | 24.15 | 4.64 |
| 门窗左右口 | WS-1 | 0.083 | 140.20 | 11.64 |
| 门窗上口 | WU-1 | 0.083 | 58.90 | 4.89 |
| 窗下口 | WD-1 | 0.121 | 54.60 | 6.61 |
| 外墙－外墙 | WO-1 | 0.071/2=0.0355 | 177.32 | 6.29 |
| 外墙－楼板 | WF-1 | 0.008 | 74.28 | 0.59 |
| 外墙－内墙 | WI-1 | 0.001 | 33.61 | 0.03 |
| 合计 |  | 34.69 |
| 东 | 外墙－屋顶 | WR-1 | 0.192 | 23.61 | 4.53 |
| 门窗左右口 | WS-1 | 0.083 | 50.00 | 4.15 |
| 门窗上口 | WU-1 | 0.083 | 14.70 | 1.22 |
| 窗下口 | WD-1 | 0.121 | 11.40 | 1.38 |
| 外墙－外墙 | WO-1 | 0.071/2=0.0355 | 39.69 | 1.41 |
| 外墙－楼板 | WF-1 | 0.008 | 38.60 | 0.31 |
| 外墙－内墙 | WI-1 | 0.001 | 23.25 | 0.02 |
| 合计 |  | 13.02 |
| 西 | 外墙－屋顶 | WR-1 | 0.192 | 25.64 | 4.92 |
| 门窗左右口 | WS-1 | 0.083 | 25.20 | 2.09 |
| 门窗上口 | WU-1 | 0.083 | 18.50 | 1.54 |
| 窗下口 | WD-1 | 0.121 | 18.50 | 2.24 |
| 外墙－外墙 | WO-1 | 0.071/2=0.0355 | 162.79 | 5.78 |
| 外墙－楼板 | WF-1 | 0.008 | 50.44 | 0.40 |
| 外墙－内墙 | WI-1 | 0.001 | 43.36 | 0.04 |
| 合计 |  | 17.01 |
| 总计 |  | 92.23 |

#### 热桥节点图

|  |  |
| --- | --- |
| 外墙－屋顶：WR-1 | 门窗左右口：WS-1 |
|  |  |

|  |  |
| --- | --- |
| 门窗上口：WU-1 | 窗下口：WD-1 |
|  |  |

|  |  |
| --- | --- |
| 外墙－外墙：WO-1 | 外墙－楼板：WF-1 |
|  |  |

|  |  |
| --- | --- |
| 外墙－内墙：WI-1 |  |
|  |  |

### 外墙平均热工特性

1.　南向

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 构造名称 | 构件类型 | 面积(㎡) | 面积所占比例 | 传热系数KW / (㎡K) | 热惰性指标D | 太阳辐射吸收系数 |
| 砌体墙 | 主墙体 | 315.59 | 1.000 | 0.36 | 3.56 | 0.75 |
| 考虑线性热桥后K | 0.36 + 27.50/315.59 = 0.45 |

2.　北向

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 构造名称 | 构件类型 | 面积(㎡) | 面积所占比例 | 传热系数KW / (㎡K) | 热惰性指标D | 太阳辐射吸收系数 |
| 砌体墙 | 主墙体 | 295.55 | 1.000 | 0.36 | 3.56 | 0.75 |
| 考虑线性热桥后K | 0.36 + 34.69/295.55 = 0.48 |

3.　东向

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 构造名称 | 构件类型 | 面积(㎡) | 面积所占比例 | 传热系数KW / (㎡K) | 热惰性指标D | 太阳辐射吸收系数 |
| 砌体墙 | 主墙体 | 150.86 | 1.000 | 0.36 | 3.56 | 0.75 |
| 考虑线性热桥后K | 0.36 + 13.02/150.86 = 0.45 |

4.　西向

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 构造名称 | 构件类型 | 面积(㎡) | 面积所占比例 | 传热系数KW / (㎡K) | 热惰性指标D | 太阳辐射吸收系数 |
| 砌体墙 | 主墙体 | 267.71 | 1.000 | 0.36 | 3.56 | 0.75 |
| 考虑线性热桥后K | 0.36 + 17.01/267.71 = 0.42 |

5.　总体

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 构造名称 | 构件类型 | 面积(㎡) | 面积所占比例 | 传热系数KW / (㎡K) | 热惰性指标D | 太阳辐射吸收系数 |
| 砌体墙 | 主墙体 | 1029.71 | 1.000 | 0.36 | 3.56 | 0.75 |
| 考虑线性热桥后K | 0.36 + 92.23/1029.71 = 0.45 |

## 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 | 铝合金平开窗(5中透Low\_E+12A+5)(双银)(34mm隔热条) | 182 | 2.00 | 0.43 | 0.620 | 浙江居住建筑节能设计标准 DB33/1015-2021 |
| 窗编号 |
| 幕墙 |
| 2 | 铝合金平开窗(5中透Low\_E+12A+5)(双银)(34mm隔热条) | 18 | 2.00 | 0.43 | 0.620 | 浙江居住建筑节能设计标准 DB33/1015-2021 |
| 窗编号 |
| C1521，C2121，C1213，C1221，C1510，C5911，C1206，C1818，C1419，C1621，C1621a，C1821 |

### 外遮阳类型

已启用环境遮阳.

#### 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 | 无外遮阳 | 0.100 | 0.000 | 0.100 | 0.000 | 0.000 | 0.000 |

#### 百叶遮阳



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 序号 | 编号 | 挑出A (m) | 百叶间距D (m) | 下垂C (m) |
| 1 | 百叶遮阳0 | 0.080 | 0.150 | 0.100 |

### 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 | 98.28 | 2.00 | 0.24 | 0.24 | 0.24 | K≤2.20, SHGCSum≤0.15, SHGCWin≥0.40 | 不需要 |
| 北向 | 116.38 | 2.00 | 0.30 | 0.32 | 0.28 | K≤2.20, SHGCSum≤0.15, SHGCWin≥0.40 | 不需要 |
| 东向 | 59.80 | 2.00 | 0.23 | 0.29 | 0.27 | K≤2.20, SHGCSum≤0.15, SHGCWin≥0.40 | 不需要 |
| 西向 | 22.09 | 2.00 | 0.21 | 0.21 | 0.08 | K≤2.20, SHGCSum≤0.15, SHGCWin≥0.40 | 不需要 |
| 综合平均 | 296.55 | 2.00 | 0.26 | 0.28 | 0.22 |  |  |
| 标准依据 | 《近零能耗建筑技术标准》(GB/T51350-2019)第6.1.5条 |
| 标准要求 | K和SHGC值可按表6.1.5-2选取 |
| 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：C1206） |
| 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 | 7级（窗编号：M1521） |
| 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 | － |

## 规定项检查

|  |  |  |
| --- | --- | --- |
| 序号 | 检查项 | 结论 |
| 1 | 屋顶 | 不需要 |
| 2 | 天窗类型 | 不需要 |
| 3 | 外墙 | 不需要 |
| 4 | 外窗热工 | 不需要 |
| 5 | 外窗气密性 | 适宜 |
| 6 | 外门气密性 | 适宜 |
| 7 | 户门气密性 | 适宜 |

# 围护结构概况

|  |  |  |
| --- | --- | --- |
|  | 设计建筑 | 基准建筑 |
| 屋顶传热系数K和热惰性指标 D | 0.214.45 | 0.503.35 |
| 外墙传热系数K和热惰性指标 D | 0.453.56 | 0.803.00 |
| 挑空(或架空)楼板传热系数K和热惰性指标 D | －－ | －－ |
| 天窗传热系数K和太阳得热系数 SHGC | 2.100.11 | 2.600.30 |
| 外窗（包括透明幕墙） | 朝向 | 窗墙比 | 传热系数 | 太阳得热系数 | 窗墙比 | 传热系数 | 太阳得热系数 |
| 南向 | 0.24 | 2.00 | 0.23 | 0.24 | 3.00 | 0.44 |
| 北向 | 0.28 | 2.00 | 0.31 | 0.25 | 3.00 | 0.48 |
| 东向 | 0.27 | 2.00 | 0.26 | 0.25 | 3.00 | 0.44 |
| 西向 | 0.08 | 2.00 | 0.21 | 0.08 | 3.50 | －－ |

备注：

1. 传热系数的单位W/(m2.k)，其他参数无量纲.

2. 屋顶和外墙的传热系数K和热情性指标D指平均值.

3. 设计建筑：“—”代表本工程无对应项.

4. 参照建筑：“— —”代表参照建筑不要求，取值同设计建筑.

# 设计建筑

## 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 |
| 卫生间 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 10(㎡/人) | 0(W/㎡) | 13(W/㎡) |
| 多媒体教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 1.12(㎡/人) | 2(W/㎡) | 5(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 10(㎡/人) | 0(W/㎡) | 13(W/㎡) |
| 普通教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 1.12(㎡/人) | 0(W/㎡) | 5(W/㎡) |
| 楼梯间 | － | － | 20(m3/h.人) | 0(次/h) | 50(㎡/人) | 0(W/㎡) | 0(W/㎡) |
| 空房间 | － | － | 20(m3/h.人) | 0(次/h) | 50(㎡/人) | 0(W/㎡) | 0(W/㎡) |
| 舞蹈教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 1.12(㎡/人) | 2(W/㎡) | 5(W/㎡) |
| 设备间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 0(W/㎡) |
| 走廊 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 20(㎡/人) | 0(W/㎡) | 0(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 | － | － | 1059.24 | 所有房间 |

### 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 | 全热回收 | 0.75 | 1kJ/kg | 0.75 | 1(kJ/kg) |

## 制冷系统

### 默认冷源

#### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | 默认 |

#### 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-离心式冷水机组 | 352 | 2000 | 5.68 | 1 |

#### 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 |
| 冷冻水泵 | 变频 | 270 | 30 | 80 | 31.7 | － | 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 | 400 | 158.6 | 2.52 | － | 75.1 | 19.2 |
| 40 | 800 | 317.1 | 2.52 | － | 112.7 | 28.8 |
| 60 | 1200 | 475.7 | 2.52 | － | 112.7 | 28.8 |
| 80 | 1600 | 634.3 | 2.52 | － | 112.7 | 63.4 |
| 100 | 2000 | 849.1 | 2.36 | － | 112.7 | 86.4 |

#### 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 | 14971 | 120 | 5936 | 2.52 | － | 9012 | 2304 |
| 20~40 | 0 | 0 | 0 | 0.00 | － | 0 | 0 |
| 40~60 | 0 | 0 | 0 | 0.00 | － | 0 | 0 |
| 60~80 | 0 | 0 | 0 | 0.00 | － | 0 | 0 |
| 80~100 | 0 | 0 | 0 | 0.00 | － | 0 | 0 |
| >100 | 0 | 0 | 0 | － | － | 0 | 0 |
| 合计 | 14971 | 120 | 5936 |  | － | 9012 | 2304 |

## 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) |
| 卫生间 | 0.00 | 6 | 43 | 0 |
| 多媒体教室 | 3.95 | 1 | 130 | 512 |
| 普通办公室 | 0.00 | 2 | 62 | 0 |
| 普通教室 | 0.00 | 4 | 563 | 0 |
| 楼梯间 | 0.00 | 6 | 136 | 0 |
| 空房间 | 0.00 | 1 | 25 | 0 |
| 舞蹈教室 | 3.95 | 1 | 74 | 293 |
| 设备间 | 0.00 | 1 | 128 | 0 |
| 走廊 | 0.00 | 4 | 264 | 0 |
| 总计 | 805 |

## 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) |
| 办公 | 10 | 45 | 5 | 365 | 939 |
| 总计 | 939 |

### 太阳能集热

|  |  |  |  |
| --- | --- | --- | --- |
| 年集热量(MJ) | 年均集热效率 | 热量损失率 | 太阳能提供热量(kWh/a) |
| 20376.7 | 0.4 | 0.25 | 1698.06 |

### 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 | 1 | 0 | 电 | 0.9 | 0 |
| 备注 |  |

## 光伏发电

|  |  |
| --- | --- |
| 月 | 发电量(kWh) |
| 1 | 5070 |
| 2 | 5090 |
| 3 | 7310 |
| 4 | 8460 |
| 5 | 9410 |
| 6 | 8840 |
| 7 | 11100 |
| 8 | 9990 |
| 9 | 9280 |
| 10 | 7190 |
| 11 | 6030 |
| 12 | 4360 |
| 总计 | 92130 |

## 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/㎡) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 供冷(kWh/㎡) | 1.30 | 1.57 | 0.49 | 16.88 | -10.13 | 10.11 |





## 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 | 0 | 0.000 | -- | 0.000 | -- |
| 6月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 7月 | 0 | 9371 | 0.000 | -- | 156.186 | 7月8日14时 |
| 8月 | 0 | 5600 | 0.000 | -- | 187.700 | 8月26日8时 |
| 9月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 10月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 11月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 12月 | 0 | 0 | 0.000 | -- | 0.000 | -- |





# 基准建筑

## 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 |
| 卫生间 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 10(㎡/人) | 8(W/㎡) | 13(W/㎡) |
| 多媒体教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 1.12(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 10(㎡/人) | 8(W/㎡) | 13(W/㎡) |
| 普通教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 1.12(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 楼梯间 | － | － | 20(m3/h.人) | 0(次/h) | 50(㎡/人) | 0(W/㎡) | 0(W/㎡) |
| 空房间 | － | － | 20(m3/h.人) | 0(次/h) | 50(㎡/人) | 0(W/㎡) | 0(W/㎡) |
| 舞蹈教室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 1.12(㎡/人) | 9(W/㎡) | 5(W/㎡) |
| 设备间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 5(W/㎡) | 0(W/㎡) |
| 走廊 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 20(㎡/人) | 10(W/㎡) | 0(W/㎡) |

### 作息时间表

同设计建筑

## 系统类型

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 系统类型 | 制冷SEER | 制热HSPF | 面积(㎡) | 包含的房间 |
| 默认 | 单元式房间空调器 | 3.50[全年能源消耗效率(APF)] | 同设计建筑 | 同设计建筑 |

## 制冷系统

### 多联机/单元式空调能耗

|  |  |  |  |
| --- | --- | --- | --- |
| 系统编号 | 制冷SEER | 耗冷量(kWh) | 耗电量(kWh) |
| 默认 | 3.50[全年能源消耗效率(APF)] | 33053 | 9444 |

## 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) |
| 卫生间 | 22.78 | 6 | 43 | 981 |
| 多媒体教室 | 17.78 | 1 | 130 | 2302 |
| 普通办公室 | 22.78 | 2 | 62 | 1401 |
| 普通教室 | 17.78 | 4 | 563 | 10014 |
| 楼梯间 | 0.00 | 6 | 136 | 0 |
| 空房间 | 0.00 | 1 | 25 | 0 |
| 舞蹈教室 | 17.78 | 1 | 74 | 1321 |
| 设备间 | 0.00 | 1 | 128 | 0 |
| 走廊 | 2.85 | 4 | 264 | 751 |
| 总计 | 16770 |

## 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) |
| 办公 | 10 | 45 | 5 | 365 | 939 |
| 总计 | 939 |

### 热水设备

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 热水设备 | 供热比例 | 供热量(kWh/a) | 能源 | 效率 | 耗气量(m3/a) |
| 锅炉 | 1 | 939 | 天然气 | 0.9 | 105.913 |
| 备注 |  |

## 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/㎡) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 供冷(kWh/㎡) | 2.37 | 2.12 | 0.73 | 17.12 | 0.00 | 22.33 |





## 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 | 0 | 0.000 | -- | 0.000 | -- |
| 6月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 7月 | 0 | 21611 | 0.000 | -- | 355.028 | 7月8日14时 |
| 8月 | 0 | 11442 | 0.000 | -- | 342.397 | 8月30日14时 |
| 9月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 10月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 11月 | 0 | 0 | 0.000 | -- | 0.000 | -- |
| 12月 | 0 | 0 | 0.000 | -- | 0.000 | -- |





# 能效结果

## 建筑能耗

|  |
| --- |
| **设计建筑** |
| 用能分类 | 能耗值 | 一次能源(kWh/㎡) |
| 电力(kWh/㎡) | 供冷 | 中央冷源 | 4.01 | 10.43 |
| 冷却水泵 | 0.00 | 0.00 |
| 冷冻水泵 | 6.09 | 15.83 |
| 冷却塔 | 1.56 | 4.06 |
| 多联机/单元式空调 | 0.00 | 0.00 |
| 供暖 | 中央热源 | 0.00 | 0.00 |
| 供暖水泵 | 0.00 | 0.00 |
| 多联机/单元式热泵 | 0.00 | 0.00 |
| 热源侧水泵 | 0.00 | 0.00 |
| 照明 | 0.54 | 1.40 |
| 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 | 62.24 | 161.82 |
| 风力发电 | 0.00 | 0.00 |
| 建筑本体能耗(一次能源) (kWh/㎡) | 31.71 |
| 建筑综合能耗(一次能源) (kWh/㎡) | 0.00 |

|  |
| --- |
| **基准建筑** |
| 用能分类 | 能耗值 | 一次能源(kWh/㎡) |
| 电力(kWh/㎡) | 供冷 | 中央冷源 | 0.00 | 0.00 |
| 冷却水泵 | 0.00 | 0.00 |
| 冷冻水泵 | 0.00 | 0.00 |
| 冷却塔 | 0.00 | 0.00 |
| 多联机/单元式空调 | 6.38 | 16.59 |
| 供暖 | 中央热源 | 0.00 | 0.00 |
| 供暖水泵 | 0.00 | 0.00 |
| 多联机/单元式热泵 | 0.00 | 0.00 |
| 照明 | 11.33 | 29.46 |
| 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 | 0.07 | 0.69 |
| 市政热力(kWh/㎡) | 市政热力 | 0.00 | 0.00 |
| 建筑本体能耗(一次能源) (kWh/㎡) | 46.75 |
| 建筑综合能耗(一次能源) (kWh/㎡) | 46.75 |







## 结论

|  |  |  |
| --- | --- | --- |
|  | 设计建筑 | 基准建筑 |
| 建筑本体能耗(一次能源) (kWh/㎡) | 31.71 | 46.75 |
| 建筑综合能耗(一次能源) (kWh/㎡) | 0.00 | 46.75 |
|  | 值 | 限值 |
| 建筑本体能耗节能率(%) | 32.16 | 20.00 |
| 建筑综合能耗节能率(%) | 100.00 | 50.00 |
| 标准依据 | 《近零能耗建筑技术标准》(GB/T51350-2019)表5.0.4 |
| 标准要求 | 建筑综合节能率应≥50%; 建筑本体节能率应符合表5.0.4的要求 |
| 结论 | 满足 |

# 附录

暑假:7.15~8.25; 寒假：1.15~3.1

## 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 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 多媒体教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 20 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 20 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 舞蹈教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 走廊 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假

## 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 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 多媒体教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 50 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 90 | 100 | 100 | 100 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 50 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 80 | 90 | 100 | 100 | 100 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 舞蹈教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 走廊 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假

## 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 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 多媒体教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 30 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 30 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 70 | 50 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 舞蹈教室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 走廊 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假

## 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 1 | 1 | 1 | 1 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假

## 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 100 | 100 | 100 | 100 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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：第一行：工作日；第二行：节假日；第三行：寒假；第四行：暑假