**建筑碳排放报告书**

公共建筑

|  |  |
| --- | --- |
| 工程名称 | 培智学校设计 |
| 工程地点 | 福建-福州 |
| 设计编号 |  |
| 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26日 |



|  |  |
| --- | --- |
| 采用软件 | 建筑碳排放CEEB2024 |
| 软件版本 | 20240430(SP1) |
| 研发单位 | 北京绿建软件股份有限公司 |
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# 建筑概况

|  |  |  |
| --- | --- | --- |
| 工程名称 | 培智学校设计 | |
| 工程地点 | 福建-福州 | |
| 地理位置 | 北纬：26.00° | 东经：119.28° |
| 建筑寿命(年) | 50 | |
| 建筑面积(m2) | 地上14684 地下4179 | |
| 建筑层数 | 地上4 地下1 | |
| 建筑高度（m） | 地上16.0 地下5.0 | |
| 建筑体积(m3) | 58736.56 | |
| 建筑外表面积(m2) | 11176.26 | |
| 北向角度 | 100 | |
| 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:6.14-8.31,供暖期:11.30-2.28 | |

# 标准依据

1. 《建筑节能与可再生能源利用通用规范》GB 55015-2021

2. 《建筑碳排放计算标准》GB/T 51366-2019

3. 《绿色建筑评价标准》GB/T50378-2019

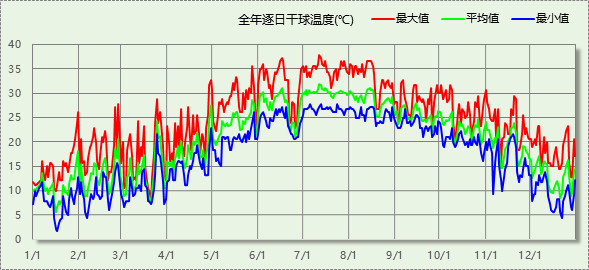
4. 《民用建筑绿色性能计算标准》JGJ/T 449-2018

# 软件介绍

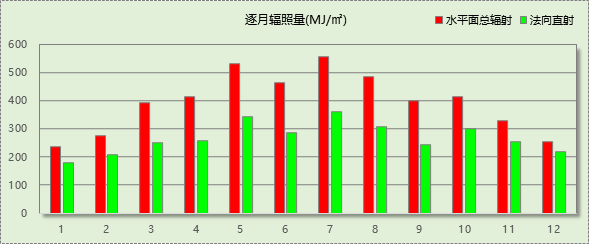
本报告内容由建筑碳排放CEEB2024计算并输出，建筑碳排放CEEB以CAD为平台，可与建筑节能模型无缝对接，以国家标准《建筑碳排放计算标准》为主要依据，完整支持建筑全生命周期的碳排放计算，包括建材生产运输、建造拆除、建筑运行和碳汇的计算，以及详细的结果数据分析。

# 气象数据

## 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 | 07月11日14时 | 37.8 | 26.1 | 17.1 | 81.9 |
| 最冷 | 01月16日06时 | 1.7 | 1.1 | 3.8 | 11.2 |

# 围护结构

## 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 | 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 |
| 轻集料混凝土2%找坡层 | 0.450 | 7.500 | 1600.0 | 1074.3 | 0.0158 | 民用建筑热工设计规范 GB50176-2016 |
| C20细石混凝土 | 1.740 | 17.200 | 2300.0 | 1016.5 | 0.0173 | 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 |
| 挤塑聚苯乙烯泡沫塑料板 | 0.030 | 0.340 | 35.0 | 1380.0 | 0.0162 | 民用建筑热工设计规范 GB50176-2016 |
| 岩棉板(ρ=60-160) | 0.041 | 0.615 | 110.0 | 1220.0 | 0.4880 | 民用建筑热工设计规范 GB50176-2016 |
| 蒸压加气混凝土砌块(ρ=600) | 0.160 | 3.200 | 600.0 | 1466.8 | 0.1110 | 闽 2015-J-39 |

## 围护结构作法简要说明

**1. 屋顶：**屋顶构造一 (K=0.389,D=3.355)：（由上到下）

C20细石混凝土 40mm＋水泥砂浆 10mm＋挤塑聚苯乙烯泡沫塑料板 80mm＋水泥砂浆 20mm＋轻集料混凝土2%找坡层 30mm＋钢筋混凝土 120mm

**2. 外墙（填充墙）：**外墙（填充墙）构造一 (K=0.829,D=4.493)：（由外到内）

水泥砂浆 20mm＋蒸压加气混凝土砌块(ρ=600) 200mm＋石灰砂浆 20mm

**3. 外墙（剪力墙）：**外墙（剪力墙）构造一 (K=3.114,D=2.470)：（由外到内）

水泥砂浆 20mm＋钢筋混凝土 200mm＋石灰砂浆 20mm

**4. 外窗：**铝合金窗--6高透光单银Low+12空气+6透明玻璃 (K=2.730)：

传热系数2.730W/㎡.K，窗太阳得热系数0.461

# 围护结构概况

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | 设计建筑 | | |
| 体形系数S | | | 0.19 | | |
| 屋顶传热系数K  和热惰性指标 D | | | 0.39  3.36 | | |
| 外墙传热系数K  和热惰性指标 D | | | 0.89  4.44 | | |
| 挑空(或架空)楼板传热系数K  和热惰性指标 D | | | 1.50  2.22 | | |
| 天窗传热系数K  和太阳得热系数 SHGC | | | －  － | | |
| 外窗（包括透明幕墙） | 朝向 | 立面 | 窗墙比 | 传热  系数 | 太阳得热系数 |
| 南向 | 南-默认立面 | 0.18 | 2.73 | 0.46 |
| 北向 | 北-默认立面 | 0.16 | 2.73 | 0.46 |
| 东向 | 东-默认立面 | 0.06 | 2.73 | 0.46 |
| 西向 | 西-默认立面 | 0.08 | 2.73 | 0.46 |

# 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 | 18 | 24(m3/h.人) | 0(次/h) | 1.39(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 会议室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 3.3(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 体育场 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 8(㎡/人) | 9(W/㎡) | 15(W/㎡) |
| 办公-普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 8(㎡/人) | 8(W/㎡) | 15(W/㎡) |
| 厨房 | 27 | 18 | 28(次/h) | 0(次/h) | 5(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 实验教室 | 26 | 18 | 20(m3/h.人) | 0(次/h) | 4(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 6(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 普通办公室 | 26 | 20 | 30(m3/h.人) | 0(次/h) | 8(㎡/人) | 8(W/㎡) | 15(W/㎡) |
| 普通教室 | 26 | 18 | 24(m3/h.人) | 0(次/h) | 1.39(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 5(W/㎡) | 5(W/㎡) |
| 空房间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 0(W/㎡) |
| 设备间 | － | － | 0(次/h) | 0(次/h) | 0(人) | 6(W/㎡) | 15(W/㎡) |
| 阅览室 | 26 | 20 | 20(m3/h.人) | 0(次/h) | 1.9(㎡/人) | 8(W/㎡) | 5(W/㎡) |
| 餐厅 | 26 | 18 | 25(m3/h.人) | 0(次/h) | 2(㎡/人) | 8(W/㎡) | 5(W/㎡) |

## 作息时间表

详见附录

# 暖通空调系统

## 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 | － | － | 15414.91 | 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 | 无 | － | － | － | － |

## 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-螺杆式冷水机组 | 100 | 500 | 5.00 | 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 | 100 | 25 | 4.00 | 31.3 | 37.6 | 10 |
| 40 | 200 | 48 | 4.17 | 31.3 | 37.6 | 10 |
| 60 | 300 | 68 | 4.41 | 31.3 | 37.6 | 10 |
| 80 | 400 | 80 | 5.00 | 31.3 | 37.6 | 10 |
| 100 | 500 | 100 | 5.00 | 31.3 | 37.6 | 10 |

#### 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 | 1723 | 45 | 431 | 4.00 | 1409 | 1692 | 450 |
| 20~40 | 1461 | 9 | 355 | 4.11 | 282 | 338 | 90 |
| 40~60 | 673 | 3 | 159 | 4.23 | 94 | 113 | 30 |
| 60~80 | 692 | 2 | 148 | 4.69 | 63 | 75 | 20 |
| 80~100 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| >100 | 1023310 | 610 | 61000 | － | 19093 | 22936 | 6100 |
| 合计 | 1027860 | 669 | 62093 |  | 20940 | 25154 | 6690 |

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 制冷机组 | 62093 | 0.5703 | 35.412 |
| 冷却水泵 | 20940 | 11.942 |
| 冷却塔 | 6690 | 3.815 |
| 冷冻水泵 | 25154 | 14.346 |
| 合计 | | | 65.515 |

## 供暖系统

### 默认热源

#### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | 默认 |

#### 热水锅炉系统

##### 热水锅炉

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 燃料类型 | 容量 (MW) | 台数 | 锅炉负荷 (kWh/a) | 锅炉 热效率 | 外网热 输送效率 | 碳排放因子(tCO2/TJ) | 碳排放量(tCO2/a) |
| 烟煤II | 1.00 | 1 | 36907 | 0.78 | 0.92 | 89 | 16.478 |

##### 热水循环泵

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 类型 | 流量(m3/h) | 扬程(m) | 设计工作效率(%) | 输入功率(kW) | 台数 |
| 单速 | 320 | 30 | 80 | 37.6 | 1 |

##### 热水循环水泵能耗

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 负荷 率 (%) | 锅炉 负荷 (kW) | 供暖水 泵功率 (kW) | 热水输送 能效比 EHR | 区间 负荷 (kWh) | 区间 时长 (h) | 供暖水 泵电耗 (kWh) |
| 20 | 200 | 37.6 | 0.1880 | 24645 | 524 | 19702 |
| 40 | 400 | 37.6 | 0.0940 | 11368 | 42 | 1579 |
| 60 | 600 | 37.6 | 0.0627 | 894 | 2 | 75 |
| 80 | 800 | 37.6 | 0.0470 | 0 | 0 | 0 |
| 100 | 1000 | 37.6 | 0.0376 | 0 | 0 | 0 |
| 综合 | | | | 36907 | 568 | 21357 |

|  |  |  |
| --- | --- | --- |
| 供暖水泵电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 21357 | 0.5703 | 12.180 |

## 空调风机

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 独立新排风 | 70968 | 0.5703 | 40.473 |
| 风机盘管 | 495 | 0.282 |
| 全空气机组 | 0 | 0.0000 |
| 合计 | | | 40.755 |

# 照明

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 房间类型 | 单位面积电耗 (kWh/㎡.a) | 房间个数 | 房间合计面积 (㎡) | 合计电耗 (kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 休息室 | 18.90 | 1 | 48 | 903 | 0.5703 | 0.515 |
| 会议室 | 18.90 | 16 | 617 | 11664 | 6.652 |
| 体育场 | 15.12 | 2 | 227 | 3432 | 1.957 |
| 厨房 | 18.90 | 3 | 99 | 1871 | 1.067 |
| 实验教室 | 18.90 | 1 | 83 | 1568 | 0.895 |
| 普通办公室 | 13.44 | 117 | 11765 | 158118 | 90.174 |
| 普通教室 | 18.90 | 30 | 2865 | 54141 | 30.877 |
| 楼梯间 | 11.81 | 16 | 124 | 1464 | 0.835 |
| 空房间 | 0.00 | 1 | 22 | 0 | 0.000 |
| 设备间 | 36.00 | 1 | 107 | 3859 | 2.201 |
| 阅览室 | 18.90 | 3 | 266 | 5033 | 2.870 |
| 餐厅 | 18.90 | 1 | 86 | 1627 | 0.928 |
| 总计 | | | | | | 138.971 |

# 电梯

## 直梯

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 名称 | 特定能量消耗(mWh/kgm) | 额定载重量(kg) | 速度(m/s) | 待机功率(W) | 运行时长(h/天) | 年运行天数 | 数量 | 全年电耗 (kWh) |
| 直梯1 | 1.26 | 1350 | 1.75 | 200 | 1.5 | 365 | 2 | 15019 |
| 总计 | | | | | | | | 15019 |

## 电梯碳排放

|  |  |  |  |
| --- | --- | --- | --- |
| 电梯 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 直梯1 | 15019 | 0.5703 | 8.566 |
| 合计 | | | 8.566 |

# 光伏发电

日照辐照量(kJ/㎡.天)：12451，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/a) | 碳排放因子(kgCO2/kWh) | 可减少碳排放量(tCO2/a) |
| 487.5 | 15 | 0.75 | 0.85 | 58849 | 0.5703 | 33.562 |
| 总计 | | | | | | 33.562 |

# 计算结果

## 建材生产运输碳排放

### 建材生产阶段

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料 | 单位 | 用量 | 拆除后回收比例 | 寿命(年) | 碳排放因子 (kgCO2e/单位) | 碳排放量 (tCO2e) |
| 混凝土 | m3 | 11770.80 | 0 | 全生命周期 | 340 | 4002.072 |
| 钢筋 | t | 1301.58 | 0 | 全生命周期 | 2340 | 3045.697 |
| 型钢 | t | 245.23 | 0 | 全生命周期 | 2365 | 579.969 |
| 水泥 | t | 716.81 | 0 | 全生命周期 | 735 | 526.855 |
| 预拌砂浆 | t | 3942.48 | 0 | 全生命周期 | 370 | 1458.718 |
| 砂 | m3 | 999.77 | 0 | 全生命周期 | 3 | 2.999 |
| 挤塑聚苯乙烯泡沫塑料板 | m3 | 535.09 | 0 | 全生命周期 | 534 | 285.738 |
| 岩棉板(ρ=60-160) | m3 | 24.67 | 0 | 全生命周期 | 534 | 13.174 |
| 砌块 | m3 | 1527.94 | 0 | 全生命周期 | 349 | 533.251 |
| 砖 | m3 | 1377.04 | 0 | 全生命周期 | 336 | 462.685 |
| 铝合金窗--6高透光单银Low+12空气+6透明玻璃 | m2 | 1535.04 | 0 | 全生命周期 | 129.5 | 198.788 |
| 保温门（多功能门） | m2 | 49.77 | 0 | 全生命周期 | 48.3 | 2.404 |
| 内门 | m2 | 448.77 | 0 | 全生命周期 | 48.3 | 21.676 |
| 陶瓷 | m2 | 22523.00 | 0 | 全生命周期 | 19.5 | 439.199 |
| 涂料 | t | 169.77 | 0 | 全生命周期 | 6550 | 1111.994 |
| 电缆 | kg | 1565.67 | 0 | 全生命周期 | 94.1 | 147.330 |
| 管材 | kg | 22636.20 | 0 | 全生命周期 | 3.6 | 81.490 |
| 合计 | | | | | | 12914.039 |

### 建材运输阶段

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 材料 | 重量(t) | 运输距离 (km) | 寿命(年) | 碳排放因子 (kgCO2e/t·km) | 碳排放量 (tCO2e) |
| 混凝土 | 27779.20 | 40 | 全生命周期 | 0.115 | 127.784 |
| 钢筋 | 1301.58 | 500 | 全生命周期 | 0.115 | 74.841 |
| 型钢 | 245.23 | 500 | 全生命周期 | 0.115 | 14.101 |
| 水泥 | 716.81 | 500 | 全生命周期 | 0.115 | 41.217 |
| 预拌砂浆 | 3942.48 | 40 | 全生命周期 | 0.115 | 18.135 |
| 砂 | 1599.63 | 500 | 全生命周期 | 0.115 | 91.979 |
| 挤塑聚苯乙烯泡沫塑料板 | 18.73 | 500 | 全生命周期 | 0.115 | 1.077 |
| 岩棉板(ρ=60-160) | 2.71 | 500 | 全生命周期 | 0.115 | 0.156 |
| 砌块 | 1527.94 | 500 | 全生命周期 | 0.115 | 87.857 |
| 砖 | 1996.70 | 500 | 全生命周期 | 0.115 | 114.810 |
| 铝合金窗--6高透光单银Low+12空气+6透明玻璃 | 30.70 | 500 | 全生命周期 | 0.115 | 1.765 |
| 保温门（多功能门） | 1.49 | 500 | 全生命周期 | 0.115 | 0.086 |
| 内门 | 13.46 | 500 | 全生命周期 | 0.115 | 0.774 |
| 陶瓷 | 675.69 | 500 | 全生命周期 | 0.115 | 38.852 |
| 涂料 | 169.77 | 500 | 全生命周期 | 0.115 | 9.762 |
| 电缆 | 1.57 | 500 | 全生命周期 | 0.115 | 0.090 |
| 管材 | 22.64 | 500 | 全生命周期 | 0.115 | 1.302 |
| 总计 | | | | | 624.588 |

## 建筑建造拆除碳排放

### 建筑建造

根据广东省《建筑碳排放计算导则（试行）》，采用经验公式法进行估算，公式如下：

Y = X + 1.99

其中X 为地上层数，Y 为单位面积的碳排放量，单位为：kgCO2/㎡,

则建造阶段碳排放估算值 Cjz=Y×A, 其中A——建筑总面积，㎡。

|  |  |  |  |
| --- | --- | --- | --- |
| 建筑面积(㎡) | 地上层数 | 单位面积碳排放量(kgCO2/㎡) | 建造碳排放量(tCO2) |
| 18863.52 | 4 | 5.99 | 112.992 |

### 建筑拆除

根据广东省《建筑碳排放计算导则（试行）》，建议粗略估算拆除阶段的碳排放，计算方法与建造阶段公式一致即可，公式如下：

Y = X + 1.99

其中X 为地上层数，Y 为单位面积的碳排放量，单位为：kgCO2/㎡,

则拆除阶段碳排放估算值 Ccc=Y×A, 其中A——建筑总面积，㎡。

|  |  |  |  |
| --- | --- | --- | --- |
| 建筑面积(㎡) | 地上层数 | 单位面积碳排放量(kgCO2/㎡) | 拆除碳排放量(tCO2) |
| 18863.52 | 4 | 5.99 | 112.992 |

## 碳汇

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 绿植 | 生长期 修正因子 | CO2固定量 (kg/㎡·a) | 面积(㎡) | 年数 | 碳固定量 (tCO2) |
| 休闲绿地 | 1 | 2.9628 | 150 | 50 | 22.221 |
| 道路绿地 | 1 | 3.4127 | 500 | 85.318 |
| 合计 | | | | | 107.539 |

## 建筑运行碳排放

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 电力 | 类别 | 耗电  (kWh/㎡) | 碳排放因子  (kgCO2/kWh) | 碳排放量(tCO2) |
| 供冷  (Ec) | 中央冷源 | 164.59 | 0.5703 | 3275.727 |
|  | 冷却水泵 | 55.50 |  |  |
|  | 冷冻水泵 | 66.67 |  |  |
|  | 冷却塔 | 17.73 |  |  |
|  | 多联机/单元式空调 | 0.00 |  |  |
|  | 供冷合计 | 304.50 |  |  |
| 供暖  (Eh) | 中央热源 | 0.00 | 0.5703 | 608.992 |
|  | 供暖水泵 | 56.61 |  |  |
|  | 热源侧水泵 | 0.00 |  |  |
|  | 多联机/单元式热泵 | 0.00 |  |  |
|  | 供暖合计 | 56.61 |  |  |
| 空调  风机(Ef) | 新排风 | 188.11 | 0.5703 | 2037.755 |
|  | 风机盘管 | 1.31 |  |  |
|  | 全空气系统 | 0.00 |  |  |
|  | 风机合计 | 189.42 |  |  |
| 照明 | | 645.90 | 0.5703 | 6948.547 |
| 其他(Eo) | 电梯 | 39.81 | 0.5703 | 428.281 |
|  | 排风机 | 0.00 |  |  |
|  | 生活热水(扣减了太阳能) | 0.00 |  |  |
|  | 其他设备 | 0.00 |  |  |
|  | 合计 | 39.81 |  |  |
| 化石燃料 | 所属类别 | 消耗量 | 碳排放因子(tCO2/TJ) | 碳排放量(tCO2) |
| 烟煤II | 供暖:：热源锅炉 | 136.324(kWh/㎡) | 89 | 823.925 |
| 其他 | 所属类别 | 消耗量(kg) | | 碳排放量(tCO2) |
| 制冷剂 | 供冷 | 0 | | 0.000 |
| 可再生 | 类别 | 供电(kWh/㎡) | 碳排放因子(kgCO2/kWh) | 碳减排量(tCO2) |
| 可再生能源(Er) | 光伏(Ep) | 155.99 | 0.5703 | 1678.087 |
|  | 风力(Ew) | 0.00 |  | 0.000 |
| 建筑运行碳排放合计 | | | | 12445.137 |

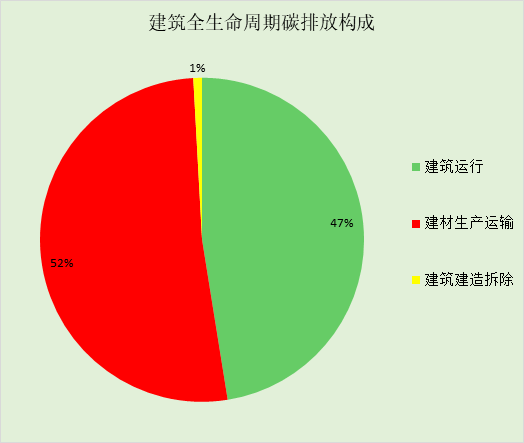
## 全生命周期

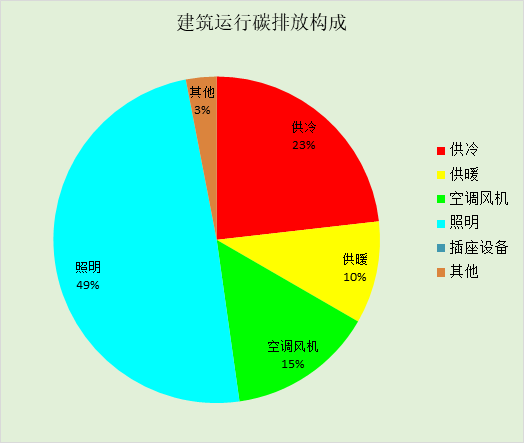
### 单位面积指标

|  |  |  |
| --- | --- | --- |
| 类别 | 年碳排放量(kgCO2/㎡·a) | 碳排放量(kgCO2/㎡) |
| 建筑材料生产 | 13.69 | 684.60 |
| 建筑材料运输 | 0.66 | 33.11 |
| 建筑建造 | 0.12 | 5.99 |
| 建筑拆除 | 0.12 | 5.99 |
| 建筑运行 | 13.19 | 659.75 |
| 碳汇 | -0.11 | -5.70 |
| 合计 | 27.67 | 1383.74 |

### 总碳排放量

|  |  |  |
| --- | --- | --- |
| 类别 | 年碳排放量(tCO2/a) | 碳排放量(tCO2) |
| 建筑材料生产 | 258.281 | 12914.039 |
| 建筑材料运输 | 12.492 | 624.588 |
| 建筑建造 | 2.260 | 112.992 |
| 建筑拆除 | 2.260 | 112.992 |
| 建筑运行 | 248.903 | 12445.137 |
| 碳汇 | -2.151 | -107.539 |
| 合计 | 522.045 | 26102.209 |





# 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 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 会议室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 体育场 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 办公-普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 厨房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 实验教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 100 | 100 | 100 | 30 | 100 | 100 | 100 | 100 | 50 | 20 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 45 | 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 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 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 |
| 阅览室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 餐厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 会议室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 体育场 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 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 |
| 办公-普通办公室 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 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 |
| 厨房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 实验教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 36 | 62 | 56 | 54 | 43 | 53 | 55 | 58 | 67 | 40 | 18 | 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 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 设备间 | 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 |
| 阅览室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 餐厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 80 | 80 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 会议室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 体育场 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 办公-普通办公室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 厨房 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 实验教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50 | 20 | 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 |
| 普通教室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 设备间 | 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 |
| 阅览室 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 餐厅 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 50 | 95 | 95 | 95 | 50 | 50 | 95 | 95 | 95 | 95 | 30 | 30 | 0 | 0 | 0 | 0 | 0 |
| 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 | 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 | 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 | 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 | 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 | 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 |

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 | 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 |

注：上行：工作日；下行：节假日