**绿色建筑降碳措施报告书**

居住建筑

|  |  |
| --- | --- |
| 工程名称 | 新建项目 |
| 工程地点 | 湖北-孝感 |
| 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27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 |
| 正版授权码 | T18307137110 |

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# 建筑概况

|  |  |  |
| --- | --- | --- |
| 工程名称 | 新建项目 | |
| 工程地点 | 湖北-孝感 | |
| 地理位置 | 北纬：30.95° | 东经：113.92° |
| 建筑寿命(年) | 50 | |
| 建筑面积(m2) | 地上8421 地下0 | |
| 建筑层数 | 地上8 地下0 | |
| 建筑高度（m） | 地上33.0 地下0.0 | |
| 建筑体积(m3) | 31026.14 | |
| 建筑外表面积(m2) | 14045.35 | |
| 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:6.14-8.31,供暖期:11.30-2.28 | |

# 标准依据

1. 《绿色建筑评价标准》GB/T50378-2019

2. 《建筑碳排放计算标准》GB/T 51366-2019

3. 《建筑节能与可再生能源利用通用规范》GB55015-2021

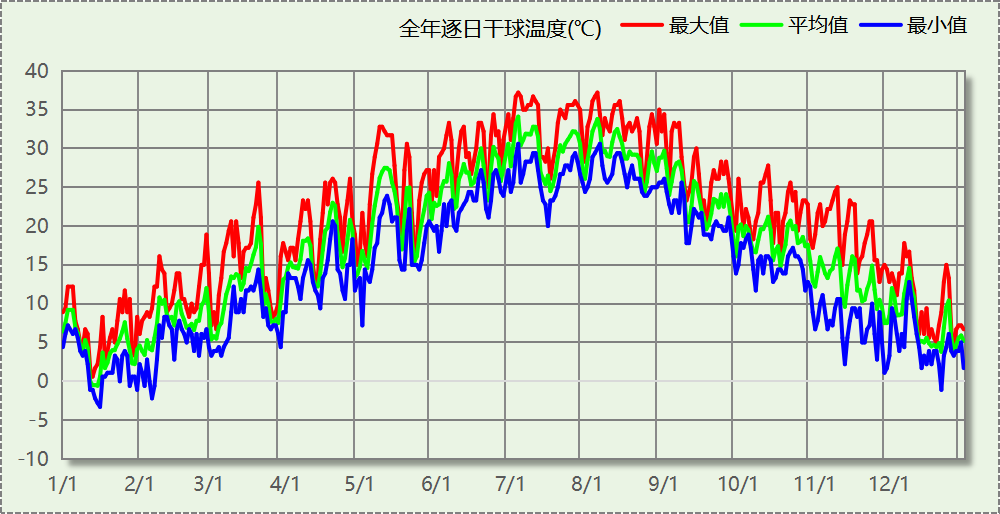
4. 《民用建筑绿色性能计算标准》JGJ/T 449-2018

# 软件介绍

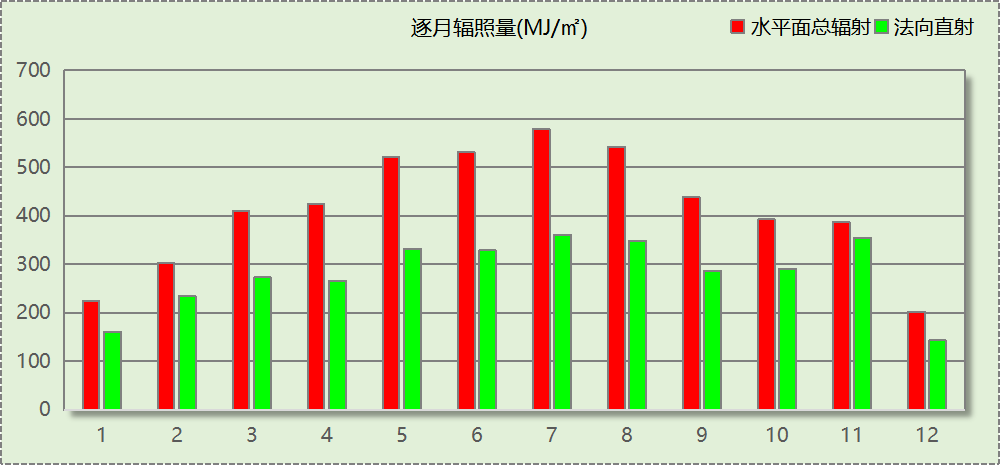
本报告内容由建筑碳排放CEEB2024计算并输出，建筑碳排放CEEB以CAD为平台，与建筑节能模型无缝对接，支持《绿色建筑评价标准》GB/T50378-2019第9.2.7条设计建筑采取相应措施后减碳量的对比计算（其中参照建筑参数满足国家和行业节能标准规定值）。

# 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03日14时 | 37.2 | 27.8 | 20.5 | 90.1 |
| 最冷 | 01月15日02时 | -3.3 | -3.3 | 2.8 | 3.6 |

# 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 |
| 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 |
| 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 |
| c20细石混凝土(ρ=2300) | 1.510 | 15.243 | 2300.0 | 920.0 | 0.0173 | 民用建筑热工设计规范 GB50176-2016 |
| 绝热用挤塑聚苯乙烯泡沫塑料板（xps板） | 0.030 | 0.290 | 31.5 | 1380.0 | 0.0162 | 湖北低能耗居住建筑节能设计标准 DB42/T559-2022 |
| 专用保温砌筑砂浆砌加气混凝土砌块墙（水平灰缝与竖向灰缝厚度均≤10）b06级 | 0.190 | 3.010 | 630.0 | 1050.0 | 0.0158 | 湖北低能耗居住建筑节能设计标准 DB42/T559-2022 |
| m5预拌抹灰砂浆，保温板抹面砂浆，抗裂砂浆 | 0.870 | 10.750 | 1700.0 | 1050.0 | 0.0140 | 湖北低能耗居住建筑节能设计标准 DB42/T559-2022 |
| lc5.0轻集料混凝土 | 0.300 | 5.000 | 1050.0 | 1091.3 | 0.0017 | 湖北低能耗居住建筑节能设计标准 DB42/T559-2022 |

## 围护结构作法简要说明

**1. 屋顶：**屋顶构造一 (K=0.050,D=8.312)：（由上到下）

水泥砂浆 20mm＋c20细石混凝土(ρ=2300) 40mm＋绝热用挤塑聚苯乙烯泡沫塑料板（xps板） 618.4mm＋lc5.0轻集料混凝土 30mm＋钢筋混凝土 120mm

**2. 外墙（填充墙）：**填充墙构造一 (K=0.350,D=4.066)：（由外到内）

水泥砂浆 20mm＋专用保温砌筑砂浆砌加气混凝土砌块墙（水平灰缝与竖向灰缝厚度均≤10）b06级 200mm＋水泥砂浆 5mm＋绝热用挤塑聚苯乙烯泡沫塑料板（xps板） 48.5mm＋m5预拌抹灰砂浆，保温板抹面砂浆，抗裂砂浆 10mm

**3. 外墙（剪力墙）：**剪力墙构造一 (K=0.350,D=3.147)：（由外到内）

水泥砂浆 20mm＋钢筋混凝土 200mm＋水泥砂浆 5mm＋绝热用挤塑聚苯乙烯泡沫塑料板（xps板） 76.6mm＋m5预拌抹灰砂浆，保温板抹面砂浆，抗裂砂浆 10mm

**4. 架空或外挑楼板：**挑空楼板构造一 (K=0.951,D=1.857)：（由上到下）

m5预拌抹灰砂浆，保温板抹面砂浆，抗裂砂浆 10mm＋绝热用挤塑聚苯乙烯泡沫塑料板（xps板） 25mm＋水泥砂浆 5mm＋钢筋混凝土 120mm＋水泥砂浆 20mm

**5. 分户墙：**户间隔墙构造一 (K=0.765,D=3.538)：

m5预拌抹灰砂浆，保温板抹面砂浆，抗裂砂浆 10mm＋水泥砂浆 5mm＋专用保温砌筑砂浆砌加气混凝土砌块墙（水平灰缝与竖向灰缝厚度均≤10）b06级 200mm＋水泥砂浆 5mm＋m5预拌抹灰砂浆，保温板抹面砂浆，抗裂砂浆 10mm

**6. 楼梯间隔墙或封闭外走廊隔墙：**楼梯间隔墙构造一 (K=0.758,D=3.662)：

水泥砂浆 20mm＋专用保温砌筑砂浆砌加气混凝土砌块墙（水平灰缝与竖向灰缝厚度均≤10）b06级 200mm＋石灰砂浆 20mm

**7. 控温房间楼板：**控温房间楼板构造一 (K=1.215,D=1.979)：

水泥砂浆 20mm＋岩棉板(ρ=60-160) 20mm＋钢筋混凝土 120mm＋石灰砂浆 20mm

**8. 非控温房间楼板：**非控温房间楼板构造一 (K=1.215,D=1.979)：

水泥砂浆 20mm＋岩棉板(ρ=60-160) 20mm＋钢筋混凝土 120mm＋石灰砂浆 20mm

**9. 控温与非控温楼板：**控温与非控温楼板构造一 (K=1.215,D=1.979)：

水泥砂浆 20mm＋岩棉板(ρ=60-160) 20mm＋钢筋混凝土 120mm＋石灰砂浆 20mm

**10. 通往封闭空间的户门：**金属框—保温门（多功能门） (K=2.000)：

传热系数2.000W/㎡.K

**11. 通往非封闭空间或户外的户门：**保温门（多功能门） (K=1.972)：

传热系数1.972W/㎡.K

**12. 外窗：**70系列平开（遮阳型6Low-E双银+12A+6 暖边）（隔热条宽29mm） (K=2.000)：

传热系数2.000W/㎡.K，窗太阳得热系数0.248

**13. 幕墙：**70系列平开（遮阳型6Low-E双银+12A+6 暖边）（隔热条宽29mm） (K=2.000)：

传热系数2.000W/㎡.K，窗太阳得热系数0.248

# 围护结构概况

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | 设计建筑 | | | | 参照建筑 | | | |
| 体形系数S | | 0.45 | | | | 0.40 | | | |
| 房间天窗屋顶比 | | － | | | | － | | | |
| 屋顶传热系数K | | 0.05 | | | | 0.40 | | | |
| 屋顶外表面辐射吸收系数ρ | | 0.75 | | | | －－ | | | |
| 外墙传热系数K | | 0.46 | | | | 1.00 | | | |
| 外墙外表面辐射吸收系数ρ | | 0.75 | | | | －－ | | | |
| 架空或外挑楼板传热系数K | | 0.95 | | | | 1.00 | | | |
| 楼板K | | 1.22 | | | | 1.80 | | | |
| 分户墙K | | 0.77 | | | | 1.50 | | | |
| 天窗传热系数K  和太阳得热系数 SHGC | | K=－  SHGC=－ | | | | K=－  SHGC=－ | | | |
| 外窗（包括透明幕墙） | 朝向 | 最不利窗墙比 | 传热  系数 | 太阳得热系数 | | 窗墙比 | 传热  系数 | 太阳得热系数 | |
| 夏季 | 冬季 | 夏季 | 冬季 |
| 南向 | 0.88 | 2.00 | 0.25 | 0.25 | ≤0.25 | 2.8 | —— | —— |
| 0.25<窗墙比≤0.40 | 2.5 | —— | —— |
| ＞0.40 | 2.0 | —— | 0.50 |
| 北向 | 0.83 | 2.00 | 0.25 | 0.25 | ≤0.25 | 2.8 | —— | —— |
| 0.25<窗墙比≤0.40 | 2.5 | —— | —— |
| ＞0.40 | 2.0 | —— | —— |
| 东向 | 0.93 | 2.00 | 0.25 | 0.25 | ≤0.25 | 2.8 | —— | —— |
| 0.25<窗墙比≤0.40 | 2.5 | 0.40 | —— |
| ＞0.40 | 2.0 | 0.25 | 0.50 |
| 西向 | 0.86 | 2.00 | 0.25 | 0.25 | ≤0.25 | 2.8 | —— | —— |
| 0.25<窗墙比≤0.40 | 2.5 | 0.40 | —— |
| ＞0.40 | 2.0 | 0.25 | 0.50 |

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 |
| 卧室 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 5(W/㎡) | 5(W/㎡) |
| 卫生间 | － | － | 1(次/h) | 0(次/h) | 0(人) | 6(W/㎡) | 0(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 0(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/㎡) |
| 起居室 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 5(W/㎡) | 5(W/㎡) |
| 起居室 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 5(W/㎡) | 5(W/㎡) |
| 过道 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 5(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 | － | － | 337.66 | 3001(3),4001(4),4044(4),4042(4),4039(4),4047(4),4043(4),4045(4),4048(4),4041(4),4046(4),4038(4),4049(4),4014(4),4010(4) |
| 集中式联机 | 多联式空调(热泵)机组 | 4.00[全年能源消耗效率(APF)] | | 4332.23 | 2014(2),2030(2),2031(2),2029(2),2028(2),2027(2),2026(2),2025(2),2024(2),2022(2),2023(2),2021(2),2019(2),2018(2),2017(2),2013(2),2016(2),2015(2),2012(2),2011(2),2010(2),2008(2),2007(2),2005(2),2004(2),2009(2),2006(2),3037(3),3013(3),3047(3),3046(3),3044(3),3045(3),3042(3),3041(3),3043(3),3040(3),3038(3),3036(3),3031(3),3039(3),3032(3),3028(3),3030(3),3029(3),3027(3),3026(3),3025(3),3024(3),3022(3),3023(3),3021(3),3018(3),3016(3),3017(3),3019(3),3014(3),3012(3),3010(3),3015(3),3005(3),3008(3),3007(3),3004(3),3011(3),3002(3),3003(3),3006(3),3009(3),4040(4),4017(4),4024(4),4034(4),4033(4),4030(4),4032(4),4027(4),4031(4),4029(4),4026(4),4028(4),4025(4),4023(4),4013(4),4019(4),4018(4),4012(4),4016(4),4020(4),4021(4),4011(4),4015(4),4009(4),4008(4),4006(4),4005(4),4004(4),4007(4),5001(5),5017(5),5031(5),5030(5),5029(5),5028(5),5026(5),5025(5),5027(5),5023(5),5022(5),5020(5),5021(5),5024(5),5018(5),5019(5),5015(5),5016(5),5014(5),5012(5),5013(5),5011(5),5010(5),5007(5),5008(5),5004(5),5003(5),5002(5),5009(5),5005(5),5006(5),6014(6),6028(6),6027(6),6026(6),6025(6),6024(6),6023(6),6022(6),6021(6),6020(6),6019(6),6018(6),6017(6),6016(6),6015(6),6012(6),6011(6),6013(6),6010(6),6008(6),6007(6),6006(6),6004(6),6003(6),6002(6),6001(6),6009(6),6005(6),7008(7),7007(7),7015(7),7014(7),7013(7),7011(7),7012(7),7009(7),7010(7),7006(7),7005(7),7004(7),8004(8),8010(8),8009(8),8008(8),8007(8),8006(8),8005(8),8003(8),8002(8),8001(8) |
| 风机 | 双管制风机盘管 | － | － | 1064.08 | 1011(1),1013(1),1010(1),1001(1),1012(1),1022(1),1020(1),1021(1),1019(1),1034(1),1036(1),1032(1),1033(1),1035(1),1029(1),1031(1),1030(1),1027(1),1028(1),1026(1),1025(1),1024(1),1023(1),1017(1),1016(1),1018(1),1014(1),1015(1),1007(1),1008(1),1005(1),1006(1),1003(1),1002(1),1004(1),1009(1) |

#### 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 | 0.50 | 5℃ | 0.55 | 5(℃) |
| 集中式联机 | 全热回收 | 0.50 | 5℃ | 0.55 | 5(℃) |
| 风机 | 全热回收 | 0.50 | 5℃ | 0.55 | 5(℃) |

### 制冷系统

#### 默认冷源

##### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | 默认, 风机 |

##### 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 |
| 冷冻水泵 | 单速 | 10 | 25 | 80 | 1.0 | － | 1 |
| 冷却水泵 | 单速 | 8 | 30 | 80 | 0.9 | 0.03 | 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) |
| 25 | 125 | 27.7 | 4.51 | 0.9 | 1 | 0.2 |
| 50 | 250 | 45.2 | 5.53 | 0.9 | 1 | 0.2 |
| 75 | 375 | 66 | 5.68 | 0.9 | 1 | 0.2 |
| 100 | 500 | 100 | 5.00 | 0.9 | 1 | 0.2 |

##### 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) |
| 0~25 | 70687 | 1883 | 15664 | 4.51 | 1695 | 1883 | 377 |
| 25~50 | 261 | 2 | 57 | 4.56 | 2 | 2 | 0 |
| 50~75 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| 75~100 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| >100 | 0 | 0 | 0 | － | 0 | 0 | 0 |
| 合计 | 70948 | 1885 | 15721 |  | 1697 | 1885 | 377 |

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 制冷机组 | 15721 | 0.5257 | 8.265 |
| 冷却水泵 | 1697 | 0.892 |
| 冷却塔 | 377 | 0.198 |
| 冷冻水泵 | 1885 | 0.991 |
| 合计 | | | 10.346 |

#### 多联机/单元式空调能耗

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 制冷SEER | 耗冷量(kWh/a) | 耗电量(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 集中式联机 | 4.00[全年能源消耗效率(APF)] | 318875 | 79719 | 0.5257 | 41.908 |

### 供暖系统

#### 默认热源

##### 供应的系统

|  |  |
| --- | --- |
| 系统编号 | 默认, 风机 |

##### 热泵系统

###### 热泵机组

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 名称 | 类型 | 额定耗电量(kW) | 额定制热量(kW) | 额定性能系数 COP | 台数 |
| 热泵机组 | 空气源热泵 | 125 | 500 | 4.00 | 1 |

###### 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 |

###### 运行工况

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 负载率(%) | 机组制热量(kW) | 机组功率(kW) | 性能系数(COP) | 供暖水泵功率(kW) |
| 25 | 109 | 24.8 | 4.40 | 8 |
| 50 | 219 | 54.6 | 4.01 | 8 |
| 75 | 328 | 81.9 | 4.00 | 8 |
| 100 | 437 | 124.1 | 3.52 | 8 |

###### 制热能耗

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 负荷区间 (%) | 区间负荷 (kWh) | 运行时长 (h) | 平均性能系数 (COP) | 热泵机组 (kWh) | 供暖水泵 (kWh) |
| 0~25 | 35826 | 2184 | 4.40 | 8151 | 17472 |
| 25~50 | 0 | 0 | 0.00 | 0 | 0 |
| 50~75 | 0 | 0 | 0.00 | 0 | 0 |
| 75~100 | 0 | 0 | 0.00 | 0 | 0 |
| >100 | 0 | 0 | － | 0 | 0 |
| 合计 | 35826 | 2184 |  | 8151 | 17472 |

|  |  |  |  |
| --- | --- | --- | --- |
| 类别 | 电耗(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 热泵机组 | 8151 | 0.5257 | 4.285 |
| 供暖水泵 | 17472 | 9.185 |
| 合计 | | | 13.470 |

#### 多联机/单元式热泵能耗

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 制热HSPF | 耗热量(kWh/a) | 耗电量(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 集中式联机 | 4.00[全年能源消耗效率(APF)] | 134753 | 33688 | 0.5257 | 17.710 |

### 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 | 42927 | 0.5257 | 22.567 |
| 风机盘管 | 1998 | 1.050 |
| 全空气机组 | 0 | 0.0000 |
| 合计 | | | 23.617 |

## 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) |
| 卧室 | 3.29 | 170 | 4649 | 15272 | 0.5257 | 8.028 |
| 卫生间 | 15.33 | 334 | 615 | 9423 | 4.954 |
| 楼梯间 | 0.00 | 56 | 629 | 0 | 0.000 |
| 空房间 | 0.00 | 4 | 7 | 0 | 0.000 |
| 设备间 | 52.56 | 34 | 91 | 4787 | 2.517 |
| 起居室 | 10.04 | 58 | 1445 | 14509 | 7.627 |
| 过道 | 10.04 | 2 | 156 | 1566 | 0.823 |
| 总计 | | | | | | 23.949 |

## 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) |
| 宿舍 | 45 | 45 | 500 | 270 | 312545 |
| 总计 | | | | | 312545 |

### 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 | 13200 | 275 | 0.4 | 0.25 | 30250 |
| 总计 | | | | | | 30250 |

### 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 | 282295 | 天然气 | 0.9 | 31779.3 |
| 备注 | 热水设备承担的供热量=(总需求热量－太阳能供热量)×设备供热比例。 锅炉实际供热量=供热量÷效率；耗气量=实际供热量÷天然气热值(9.87)。 | | | | |

|  |  |  |
| --- | --- | --- |
| 生活热水热量合计(kWh/a) | 碳排放因子(tCO2/TJ) | 碳排放量(tCO2/a) |
| 313661 | 55.54 | 62.715 |

## 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 | 6 | 45058 |
| 总计 | | | | | | | | 45058 |

### 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 | 45058 | 0.5257 | 23.687 |
| 合计 | | | 23.687 |

## 光伏发电

|  |  |  |  |
| --- | --- | --- | --- |
| 月 | 发电量(kWh/a) | 碳排放因子(kgCO2/kWh) | 可减少碳排放量(tCO2/a) |
| 1 | 7460 | 0.5257 | 3.92172 |
| 2 | 8450 | 4.44217 |
| 3 | 11320 | 5.95092 |
| 4 | 12460 | 6.55022 |
| 5 | 14310 | 7.52277 |
| 6 | 14030 | 7.37557 |
| 7 | 17050 | 8.96318 |
| 8 | 15340 | 8.06424 |
| 9 | 12140 | 6.382 |
| 10 | 10050 | 5.28329 |
| 11 | 8660 | 4.55256 |
| 12 | 7380 | 3.87967 |
| 总计 | | | 72.888 |

# 参照建筑

## 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 |
| 卧室 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 6(W/㎡) | 5(W/㎡) |
| 卫生间 | － | － | 1(次/h) | 0(次/h) | 0(人) | 6(W/㎡) | 0(W/㎡) |
| 楼梯间 | － | － | 0(m3/h.人) | 0(次/h) | 0(人) | 0(W/㎡) | 0(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/㎡) |
| 起居室 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 6(W/㎡) | 5(W/㎡) |
| 起居室 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 6(W/㎡) | 5(W/㎡) |
| 过道 | 26 | 18 | 1(次/h) | 0(次/h) | 32(㎡/人) | 6(W/㎡) | 5(W/㎡) |

### 作息时间表

同设计建筑

## 暖通空调系统

### 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 | 4.40 | 2.80 | 同设计建筑 | 同设计建筑 |
| 集中式联机 | 单元式房间空调器 | 4.40 | 2.80 | 同设计建筑 | 同设计建筑 |
| 风机 | 单元式房间空调器 | 4.40 | 2.80 | 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/a) | 耗电量(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 集中式联机 | 4.40 | 390538 | 88759 | 0.5257 | 46.660 |
| 风机 | 4.40 | 42699 | 9704 | 5.102 |
| 默认 | 4.40 | 42774 | 9721 | 5.110 |
| 合计 | 4.40 | 476011 | 108184 |  | 56.872 |

### 供暖系统

#### 多联机/单元式热泵能耗

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 系统编号 | 制热HSPF | 耗热量(kWh/a) | 耗电量(kWh/a) | 碳排放因子(kgCO2/kWh) | 碳排放量(tCO2/a) |
| 集中式联机 | 2.80 | 261832 | 93511 | 0.5257 | 49.159 |
| 风机 | 2.80 | 37338 | 13335 | 7.010 |
| 默认 | 2.80 | 20871 | 7454 | 3.918 |
| 合计 | 2.80 | 320041 | 114300 |  | 60.088 |

### 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 | 42927 | 0.5257 | 22.567 |
| 风机盘管 | 0 | 0.000 |
| 全空气机组 | 0 | 0.0000 |
| 合计 | | | 22.567 |

## 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) |
| 卧室 | 3.94 | 170 | 4649 | 18326 | 0.5257 | 9.634 |
| 卫生间 | 15.33 | 334 | 615 | 9423 | 4.954 |
| 楼梯间 | 0.00 | 56 | 629 | 0 | 0.000 |
| 空房间 | 0.00 | 4 | 7 | 0 | 0.000 |
| 设备间 | 52.56 | 34 | 91 | 4787 | 2.517 |
| 起居室 | 12.05 | 58 | 1445 | 17410 | 9.153 |
| 过道 | 12.05 | 2 | 156 | 1879 | 0.988 |
| 总计 | | | | | | 27.245 |

## 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) |
| 宿舍 | 45 | 45 | 500 | 270 | 312545 |
| 总计 | | | | | 312545 |

### 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 | 312545 | 天然气 | 0.9 | 35184.6 |
| 备注 | 热水设备承担的供热量=(总需求热量－太阳能供热量)×设备供热比例。 锅炉实际供热量=供热量÷效率；耗气量=实际供热量÷天然气热值(9.87)。 | | | | |

|  |  |  |
| --- | --- | --- |
| 生活热水热量合计(kWh/a) | 碳排放因子(tCO2/TJ) | 碳排放量(tCO2/a) |
| 347272 | 55.54 | 69.435 |

## 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 | 6 | 45058 |
| 总计 | | | | | | | | 45058 |

### 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 | 45058 | 0.5257 | 23.687 |
| 合计 | | | 23.687 |

# 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 | 4000.00 | 0 | 全生命周期 | 340 | 1360.000 |
| 钢筋 | t | 564.18 | 0 | 全生命周期 | 2340 | 1320.181 |
| 型钢 | t | 8.42 | 0.45 | 全生命周期 | 2365 | 15.433 |
| 水泥 | t | 505.23 | 0 | 全生命周期 | 735 | 371.344 |
| 预拌砂浆 | t | 2113.55 | 0 | 全生命周期 | 370 | 782.014 |
| 砂 | m3 | 909.42 | 0 | 全生命周期 | 3 | 2.728 |
| 绝热用挤塑聚苯乙烯泡沫塑料板（xps板） | t | 1510.92 | 0 | 20 | 6120 | 27740.491 |
| 岩棉板(ρ=60-160) | t | 118.19 | 0 | 全生命周期 | 1980 | 234.016 |
| 砌块 | m3 | 1111.51 | 0 | 全生命周期 | 349 | 387.917 |
| 砖 | m3 | 715.75 | 0 | 全生命周期 | 336 | 240.492 |
| 70系列平开（遮阳型6Low-E双银+12A+6 暖边）（隔热条宽29mm） | m2 | 3335.93 | 0.4 | 全生命周期 | 129.5 | 345.602 |
| 涂料 | t | 16.84 | 0 | 全生命周期 | 6550 | 110.302 |
| 电缆 | kg | 707.33 | 0 | 全生命周期 | 94.1 | 66.560 |
| 管材 | kg | 21051.30 | 0.4 | 全生命周期 | 3.6 | 60.628 |
| 合计 | | | | | | 33037.708 |

### 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 | 9440.00 | 50 | 全生命周期 | 0.115 | 54.280 |
| 钢筋 | 564.18 | 500 | 全生命周期 | 0.115 | 32.440 |
| 型钢 | 8.42 | 500 | 全生命周期 | 0.115 | 0.484 |
| 水泥 | 505.23 | 500 | 全生命周期 | 0.115 | 29.051 |
| 预拌砂浆 | 2113.55 | 50 | 全生命周期 | 0.115 | 12.153 |
| 砂 | 1455.07 | 500 | 全生命周期 | 0.115 | 83.667 |
| 绝热用挤塑聚苯乙烯泡沫塑料板（xps板） | 1510.92 | 500 | 20 | 0.115 | 260.634 |
| 岩棉板(ρ=60-160) | 118.19 | 500 | 全生命周期 | 0.115 | 6.796 |
| 砌块 | 1111.51 | 500 | 全生命周期 | 0.115 | 63.912 |
| 砖 | 1037.83 | 500 | 全生命周期 | 0.115 | 59.675 |
| 70系列平开（遮阳型6Low-E双银+12A+6 暖边）（隔热条宽29mm） | 66.72 | 500 | 全生命周期 | 0.115 | 3.836 |
| 涂料 | 16.84 | 500 | 全生命周期 | 0.115 | 0.968 |
| 电缆 | 0.71 | 500 | 全生命周期 | 0.115 | 0.041 |
| 管材 | 21.05 | 500 | 全生命周期 | 0.115 | 1.210 |
| 总计 | | | | | 609.147 |

## 建筑建造拆除碳排放

### 建筑建造

|  |  |  |  |
| --- | --- | --- | --- |
| 阶段 | 物化阶段（建材生产运输、建筑建造） | 建造占物化阶段比例 | 碳排放量(tCO2) |
| 建造阶段 | 35417.742 | 0.05 | 1686.559 |
| 施工临时设施 | 碳排放占施工机械碳排放的比例：0.05 | | 84.328 |
|  | | | 1770.887 |

### 建筑拆除

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 分项 | 机械和能源 | 单位 | 单位面积用量 | 碳排因子 (kgCO2/单位) | 碳排放量 (tCO2) |
| 地上建筑拆除 | 乙炔气 | m3 | 0.0988 | 3.76 | 3.128 |
| 履带式单斗液压挖掘机 | 台班 | 0.0016 | 242.5 | 3.267 |
| 液压镐头机 | 台班 | 0.0013 | 37.6 | 0.412 |
| 长臂液压剪 | 台班 | 0.0018 | 41.8 | 0.634 |
| 电动空气压缩机 | 台班 | 0.0026 | 14.1 | 0.309 |
| 分项 | 机械和能源 | 单位 | 单位体积用量 | 碳排因子 (kgCO2/单位) | 碳排放量 (tCO2) |
| 地下结构拆除 | 乙炔气 | m3 | 0.0600 | 3.76 | 0.000 |
| 履带式单斗液压挖掘机 | 台班 | 0.0050 | 242.5 | 0.000 |
| 液压镐头机 | 台班 | 0.0340 | 37.6 | 0.000 |
| 电动空气压缩机 | 台班 | 0.0050 | 14.1 | 0.000 |
| 合计 | | | | | 7.750 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 垃圾指标(t/m2) | 运输方式 | 运输距离 (km) | 运输碳排放因子 (kgCO2e/t.km) | 碳排放量 (tCO2) |
| 1.6 | 中型汽油货车运输(载重8t) | 50 | 0.115 | 77.469 |

## 碳汇

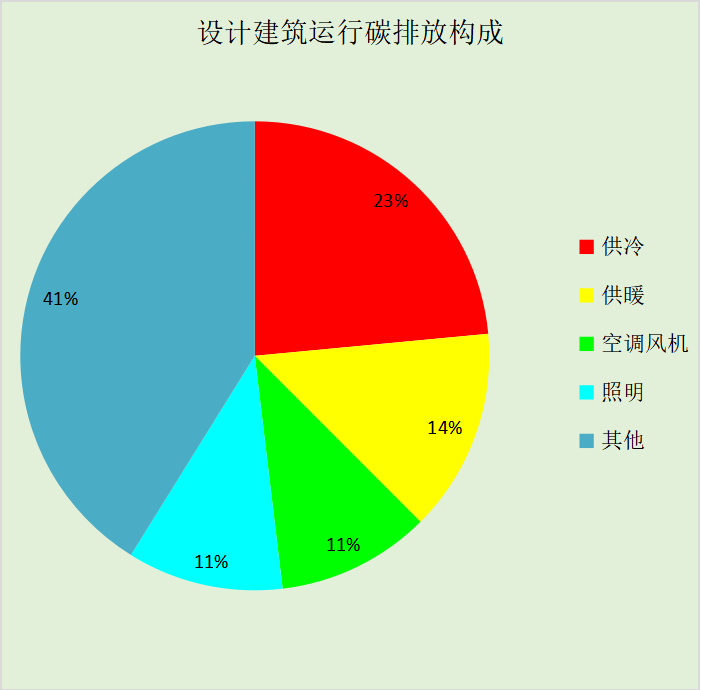
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 绿植 | 生长期 修正因子 | CO2固定量 (kg/㎡·a) | 面积(㎡) | 年数 | 碳固定量 (tCO2) |
| 大小乔木、灌木、花草密植混种区（乔木平均种植间距<3.0m，土壤深度>1.0m） | 1 | 27.5 | 1000 | 50 | 1375.000 |
| 大小乔木密植混种区（平均种植间距<3.0m，土壤深度>0.9m） | 1 | 22.5 | 50 | 56.250 |
| 落叶大乔木（土壤深度>1.0m） | 1 | 20.2 | 800 | 808.000 |
| 阔叶小乔木、针叶乔木、疏叶乔木 | 1 | 15 | 1000 | 750.000 |
| 棕榈类 | 1 | 10 | 500 | 250.000 |
| 密植灌木丛（高约1.3m，土壤深度>0.5m） | 1 | 10.95 | 600 | 328.500 |
| 密植灌木丛（高约0.45m，土壤深度>0.5m） | 1 | 5.13 | 100 | 25.650 |
| 多年生蔓藤（以立体攀附面积计算，土壤深度>0.5m） | 1 | 2.58 | 800 | 103.200 |
| 高草花花圃或高茎野草地（高约1.0m，土壤深度>0.3m） | 1 | 1.15 | 500 | 28.750 |
| 草花花圃、自然野草、草坪、水生植物 | 1 | 0.5 | 800 | 20.000 |
| 合计 | | | | | 3745.350 |

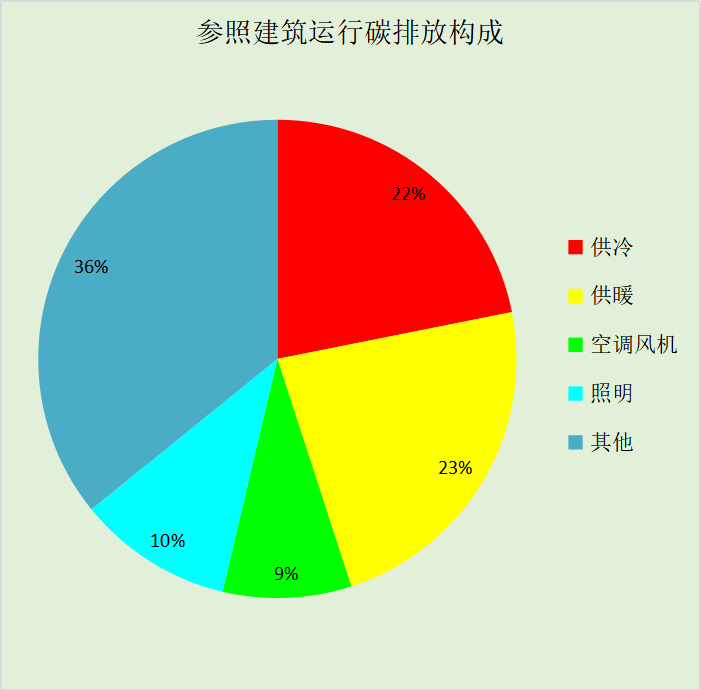
## 建筑运行碳排放

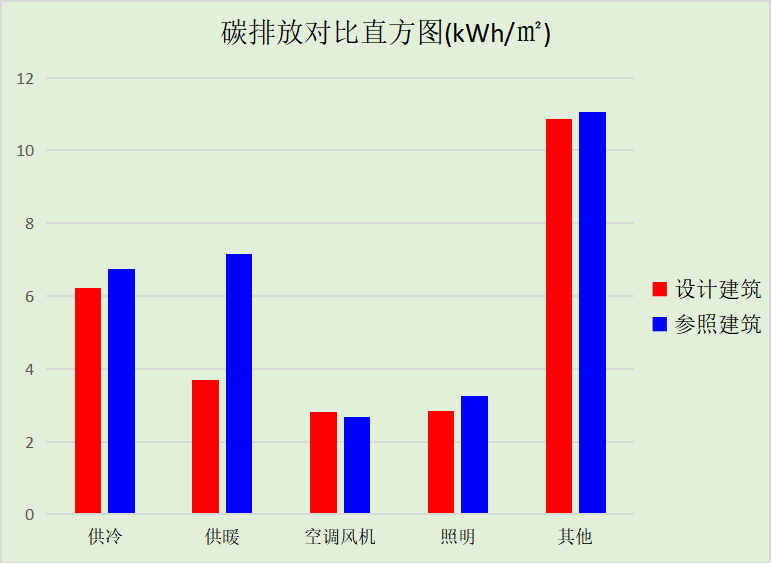
|  |  |  |  |
| --- | --- | --- | --- |
| 电力 | 类别 | 设计建筑碳排放量kgCO2/(㎡·a) | 参照建筑碳排放量kgCO2/(㎡·a) |
| 供冷(Ec) | | 6.21 | 6.75 |
| 供暖(Eh) | | 3.70 | 7.14 |
| 空调风机((Ef)) | | 2.80 | 2.68 |
| 照明 | | 2.84 | 3.24 |
| 其他(Eo) | 电梯 | 2.81 | 2.81 |
| 合计 | 3.42 | 2.81 |
| 化石燃料 | 所属类别 | 设计建筑碳排放量kgCO2/(㎡·a) | 参照建筑碳排放量kgCO2/(㎡·a) |
| 无 | 供暖：热源锅炉 | 0.00 | 0.00 |
| 燃气 | 生活热水(扣减了太阳能) | 7.45 | 8.25 (燃料：燃气) |
| 可再生 | 类别 | 设计建筑碳减排量kgCO2/(㎡·a) | 参照建筑碳减排量kgCO2/(㎡·a) |
| 可再生能源(Er) | 光伏(Ep) | 8.66 | - |
| 风力(Ew) | 0.00 | - |
| 碳汇固碳量kgCO2(/㎡·a) | | 8.9 | - |
| 碳排放合计 | | 8.87 | 30.86 |
| 相对参照建筑降碳比例(%) | | 71.26 | |
| 相对参照建筑碳排放强度降低值 kgCO2/(m2·a) | | 21.99 | |

# 结论

本项目通过提升建筑围护结构性能、设备合理选型与运行策略优化、可再生能源利用及增加生态碳汇等措施，实现了建筑碳排放强度降低的效果。根据《绿色建筑评价标准》（GB/T50378-2019）9.2.7条，可得\_\_\_分。







# 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 |
| 卧室 | 61 | 61 | 62 | 61 | 61 | 58 | 40 | 21 | 17 | 16 | 15 | 16 | 18 | 18 | 15 | 14 | 14 | 14 | 15 | 18 | 0 | 0 | 0 | 0 |
| 57 | 57 | 58 | 58 | 58 | 59 | 55 | 42 | 30 | 21 | 15 | 14 | 17 | 17 | 14 | 14 | 13 | 13 | 14 | 17 | 23 | 32 | 46 | 52 |
| 57 | 57 | 58 | 58 | 58 | 59 | 55 | 42 | 30 | 21 | 15 | 14 | 17 | 17 | 14 | 14 | 13 | 13 | 14 | 17 | 23 | 32 | 46 | 52 |
| 57 | 57 | 58 | 58 | 58 | 59 | 55 | 42 | 30 | 21 | 15 | 14 | 17 | 17 | 14 | 14 | 13 | 13 | 14 | 17 | 23 | 32 | 46 | 52 |
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 起居室 | 16 | 16 | 16 | 15 | 16 | 24 | 31 | 19 | 15 | 14 | 14 | 19 | 22 | 19 | 13 | 14 | 18 | 35 | 49 | 54 | 50 | 35 | 21 | 15 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 起居室 | 16 | 16 | 16 | 15 | 16 | 24 | 31 | 19 | 15 | 14 | 14 | 19 | 22 | 19 | 13 | 14 | 18 | 35 | 49 | 54 | 50 | 35 | 21 | 15 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 过道 | 16 | 16 | 16 | 15 | 16 | 24 | 31 | 19 | 15 | 14 | 14 | 19 | 22 | 19 | 13 | 14 | 18 | 35 | 49 | 54 | 50 | 35 | 21 | 15 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |
| 14 | 13 | 13 | 13 | 13 | 18 | 22 | 24 | 29 | 32 | 34 | 37 | 35 | 32 | 26 | 28 | 33 | 39 | 44 | 47 | 45 | 34 | 23 | 16 |

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 |
| 卧室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 | 10 | 10 | 10 |
| 卫生间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 楼梯间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 空房间 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 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 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 起居室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 起居室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 过道 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 50 |

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 |
| 卧室 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 10 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 10 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 10 | 10 | 10 | 10 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 10 | 10 | 10 | 10 |
| 卫生间 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 楼梯间 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 空房间 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 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 |
| 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 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 起居室 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 起居室 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 过道 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 69 | 69 | 23 | 23 | 23 | 23 | 23 | 100 | 100 | 100 | 100 | 69 |

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 | 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 |
| 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 |
| 集中式联机 | 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 |
| 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 |
| 风机 | 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 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 |
| 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 |
| 集中式联机 | 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 |
| 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 |
| 风机 | 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 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 |
| 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 |
| 集中式联机 | 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 |
| 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 |
| 风机 | 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 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 |
| 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 |
| 集中式联机 | 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 |
| 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 |
| 风机 | 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 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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