**新建项目**

**冷负荷计算书**

|  |  |
| --- | --- |
| 工程名称 | 新建项目 |
| 设计编号 |  |
| 建设单位 |  |
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| 计 算 人 |  |
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|  |  |
| --- | --- |
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 **目 录**

1 建筑概况 1

1.1 概况 1

1.2 室外温湿度 1

1.3 太阳辐射照度 1

1.4 其他气象参数 1

2 计算依据 2

3 计算原理 2

3.1 外窗的日射得热冷负荷 2

3.2 外窗传热的冷负荷 2

3.3 外墙和屋盖的冷负荷 3

3.4 新风冷负荷 3

3.5 内墙、内窗、楼板、地面的冷负荷 3

3.6 渗透空气冷负荷 4

3.7 设备冷负荷 5

3.8 照明冷负荷 5

3.9 人体冷负荷 6

3.10 冷负荷的修正 6

4 外围护构造 7

4.1 屋顶 7

4.1.1 屋顶构造一 7

4.2 外墙 7

4.2.1 外墙构造一 7

4.3 挑空楼板 8

4.3.1 挑空楼板构造一 8

5 内围护构造 8

6 封闭阳台构造 8

7 地下围护构造 8

7.1 周边地面 8

7.1.1 周边地面构造一 8

7.2 非周边地面 9

7.2.1 非周边地面构造一 9

8 窗构造 9

9 门构造 9

10 负荷指标 9

11 建筑按楼层汇总表 9

12 新风负荷表 10

13 房间冷负荷详细表 11

# 建筑概况

## 概况

|  |  |
| --- | --- |
| 地理位置 | 北京-北京 |
| 北纬 | 39.80 |
| 东经 | 116.47 |
| 建筑名称 | 新建项目 |
| 建筑面积 | 地上 10993.17 ㎡ | 地下 0.00 ㎡ |
| 建筑高度 | 地上 12.01 m | 地下 0.00 m |
| 建筑层数 | 地上 3 | 地下 0 |
| 北向角度 | 90° |

## 室外温湿度

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 时刻 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| 温度(℃) | 28 | 27 | 27 | 26 | 26 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 湿度(%) | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| 时刻 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 温度(℃) | 33 | 33 | 34 | 33 | 33 | 33 | 32 | 31 | 30 | 29 | 28 | 28 |
| 湿度(%) | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |

## 太阳辐射照度

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 朝向/时刻 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 朝向 | S | 直射 | 0 | 0 | 2 | 43 | 108 | 159 | 177 | 159 | 108 | 43 | 2 | 0 | 0 |
| 散射 | 43 | 67 | 90 | 112 | 124 | 130 | 134 | 130 | 124 | 112 | 90 | 67 | 43 |
| SE | 直射 | 144 | 265 | 341 | 363 | 322 | 222 | 99 | 6 | 0 | 0 | 0 | 0 | 0 |
| 散射 | 43 | 67 | 90 | 112 | 124 | 130 | 134 | 130 | 124 | 112 | 90 | 67 | 43 |
| E | 直射 | 330 | 462 | 488 | 430 | 288 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 散射 | 43 | 67 | 90 | 112 | 124 | 130 | 134 | 130 | 124 | 112 | 90 | 67 | 43 |
| NE | 直射 | 300 | 361 | 312 | 191 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 散射 | 43 | 67 | 90 | 112 | 124 | 130 | 134 | 130 | 124 | 112 | 90 | 67 | 43 |
| N | 直射 | 63 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 63 |
| 散射 | 43 | 67 | 90 | 112 | 124 | 130 | 134 | 130 | 124 | 112 | 90 | 67 | 43 |
| H | 直射 | 48 | 177 | 336 | 484 | 599 | 666 | 689 | 666 | 599 | 484 | 336 | 177 | 48 |
| 散射 | 58 | 79 | 93 | 106 | 109 | 108 | 110 | 108 | 109 | 106 | 93 | 79 | 58 |

## 其他气象参数

|  |  |
| --- | --- |
| 大气透明度等级 | 4 |
| 夏季室外计算日平均温度twp（℃） | 29.6 |
| 夏季室外计算干球温度twg（℃） | 33.5 |
| 室外计算日较差⊿tr（℃） | 7.5 |
| 夏季围护结构外表面换热系数αw(W/㎡· K) | 18.6 |
| 围护结构内表面换热系数αn(W/㎡· K) | 8.7 |
| 外墙太阳辐射吸收系数ρ | 0.75 |
| 屋顶太阳辐射吸收系数ρ | 0.75 |
| 夏季空气调节室外计算湿球温度（℃） | 26.4 |
| 夏季大气压力(Pa) | 100020 |

# 计算依据

1.《民用建筑供暖通风与空气调节设计规范》GB50736-2012.中国建筑工业出版社，2012

2.《空气调节设计手册》.中国建筑工业出版社，2005

3.《实用供热空调设计手册》.中国建筑工业出版社，2008

4.《公共建筑节能设计标准》GB50189-2015.中国建筑工业出版社，2015

# 计算原理

## 外窗的日射得热冷负荷

 

公式中：

Qc——各小时的日射冷负荷（W）；

Fc——包括窗框的窗的面积（㎡）；

F1——该时刻玻璃窗被遮挡部分的面积（㎡）；

Xsc——窗的自遮阳系数；

xm——窗的有效面积系数:

xb——窗玻璃修正系数，即不是3mm厚的单层普通玻璃时的修正系数：

xz——窗的内遮阳的遮阳系数，无内遮阳时xz =1：

Jc`max——窗日射得热量最大值(W/㎡)，如果选择了“精确计算坡屋顶等的太阳辐射得热”，将按坡屋顶的太阳辐射总照度计算方法计算精确值。

CCL——冷负荷系数，分无内遮阳和有内遮阳；

（Jc`max）N——北向（北纬20°、25°地区为南向）日射得热量的最大值；

（JCL）N——该时刻北向（北纬20°、25°地区为南向）的冷负荷系数。

## 外窗传热的冷负荷

 外窗传到室内的热量，按照对流和辐射两种方式传入室内，由于玻璃窗传热温差的波动幅度比太阳辐射热的波动幅度小很多，因此室内蓄热的温度波衰减对冷负荷影响很小，可认为外窗传热的得热即为冷负荷。

 

式中：

Q2——玻璃窗传热冷负荷（W）；

Xk——玻璃窗传热系数的修正系数；

KC——窗玻璃的传热系数[ W/（㎡·℃） ]；

FC——包括窗框的窗的面积（㎡）；

twp——夏季空气调节室外计算日平均温度（℃）；

tn——室内计算温度（℃）；

△tk——夏季室外逐时温差，



β——室外温度逐时变化系数；

△tr——夏季室外计算平均日较差（℃）。

## 外墙和屋盖的冷负荷

 

式中：

Qw——屋盖（或外墙）“计算时间”的冷负荷（W）；

Kw——屋盖（或外墙）的传热系数[ W/（㎡·℃） ]；

Fw——屋盖（或外墙）的面积(㎡)；

twp——夏季空气调节室外计算日平均温度（℃）；

△tfp——屋盖（或外墙）外表面辐射平均温升（℃），



Jp——太阳辐射日平均照度(W/㎡)；

αw——围护结构外表面换热系数， 一般可取18.6W/（㎡·℃）；

ρ——围护结构外表面太阳辐射吸收系数 。

tn——室内计算温度。

△tw——屋盖（或外墙）“作用时间”室外温度波动部分的综合负荷温差（℃）；

##  新风冷负荷

新风全热冷负荷＝（室外焓－室内焓）×新风量１－ηζ

式中：

η——全热回收效率（0～１），没有热回收时为０

ζ——排风比例（０～１），即热回收装置的排风量/新风量。

##  内墙、内窗、楼板、地面的冷负荷

内墙、内窗、楼板等围护结构，当邻室为非空气调节房间时，可用“设计温度法”或“按发热情况计算法”，其中，按发热情况计算法是邻室温度采用邻室平均温度，其冷负荷按下式计算：



式中：

Q4——通过内墙或楼板传热的冷负荷（W）；

K——内墙或楼板的传热系数[ W/（㎡·℃） ]；

F——内墙或楼板的面积(㎡)；

△tls——邻室平均温度与夏季空气调节室外计算日平均温度的差值（℃）；

“设计温度法”则采用温差传热计算，冷负荷按下式：



式中：

tls——邻室设计温度

内墙、内窗、楼板等围护结构的邻室为空气调节房间时，其室温与本房间温差小于3℃时，不计算冷负荷，反之亦按上式计算。

地面的冷负荷，舒适性空调房间夏季地面冷负荷可不必计算，对于工艺性空调房间，有外墙时，仅计算距外墙2M以内的地面传热作为冷负荷。即：



式中：

QD——地面冷负荷（W）；

KD——地面传热系数，无保温地面取K=0.52 W/（㎡·℃）；

FD——距外墙2米以内的地面面积(㎡)；

##  渗透空气冷负荷

空调房间在室内维持不了正压的情况下，可以按以下方法计算：

（1）通过空调房间外门渗入室内空气量按下式估算：



式中：

L——门渗透空气量（m³/h）；

n1——每小时通过的人数（h-1）；
V1——每进入一人渗入的空气量（m³）。

（2）渗透空气量的全热冷负荷Qq（W）按下式计算：



式中：

L——渗入室内的总空气量（）；

ρw——夏季空调室外计算干球温度下的空气密度，一般可取ρw ＝1.13kg/m³；

hw——在夏季室外计算参数时的焓值；

hn——室内空气的焓值。

（3）渗透空气量的湿负荷W（kg）按下式计算：



式中：

hw——在夏季室外计算参数时的含湿量（g/kg）；

hn——室内空气的含湿量（g/kg）。

其他符号与上同。

##  设备冷负荷

（1）热设备及热表面散热形成的计算时刻冷负荷Qτ（W）可按下式计算：

 

式中：

T——热源投入使用的时刻（点钟）；

τ-T——从热源投入使用的时刻算起到计算时刻的时间（h）；

Xτ-T——τ-T时间设备、器具散热的冷负荷系数；

Qs——热源的计算散热量（W）；

（2）热设备及热表面散热形成的冷负荷Q（W），当不能确定连续使用的小时数时，按照下式估算：

 

式中：

n4——蓄热系数、热源的冷负荷与计算散热量之比；

Qs——热源的计算散热量（W）。

##  照明冷负荷

（1）照明设备散热形成的计算时刻的冷负荷Qτ（W），可按照下式计算：

 

式中：

T——开灯时刻（点钟）；

τ-T——从开灯时刻算起到计算时刻的时间（h）；

Xτ-T——τ-T时间照明散热的冷负荷系数；

Qs——照明设备的散热量（W）；

当不能确定照明灯开关的确切时间时，照明的冷负荷可按照下式估算：

 

式中：

n4——蓄热系数，明装荧光灯可取0.9，暗装的荧光灯或明装的白炽灯可取0.85。

Qs（W）的值需要自行计算，计算过程如下：

对于明装的白炽灯

 

对于荧光灯

 

式中：

N——照明设备的安装功率(kW)；

n3——同时使用系数，一般为0.5~0.8；

n6——整流器消耗功率的系数，当整流器在空调房间内时取1.2；当整流器在吊顶内时取1.0；

n7——安装系数，明装时取1.0；暗装且灯罩上部穿有小孔时取0.5~0.6；暗装灯罩上无孔时，视吊顶内的通风情况取0.6~0.8；灯具回风时可取0.35.

##  人体冷负荷

（1）显热冷负荷

人体的显热散热量中辐射部分约占2/3，存在蓄热滞后的问题。显热散热形成的计算时刻冷负荷Qτ（W），可按照下式计算：



式中：

T——人员进入房间的时刻（点钟）；

τ-T——从人员进入房间时算起到计算时刻的时间（h）；

Xτ-T——τ-T时间人体显热散热的冷负荷系数；

Qs——人体显热的散热量（W）；

人体显热的散热量Qs（W）可按下式计算：



式中：

n——空调房间内的人员总数；

φ——群集系数，男子、女子、儿童折合成成年男子的散热比例；

qx——每名成年男子的显热散热量（W）。

（2）潜热冷负荷

潜热冷负荷按即时负荷考虑，即与潜热散热量相等。潜热冷负荷Qq按下式计算：



式中：.

qq——每名男子的潜热散热量（W） 。

其余符号与（1）中所述一致。

（3）人体全热冷负荷Q（W）

该负荷为显热冷负荷与潜热冷负荷之和，计算公式如下：

 

##  冷负荷的修正

（1）间歇附加系数

对于设备、人员发热较大的房间，其设备和人员的发热如按稳定传热计算时，如预冷(工作前开机)0.5~1小时或更多时间，则不需附加。对于以围护结构负荷为主的房间(如办公楼)，则需要将计算出的冷负荷乘以间歇负荷系数。

（2）轻型附加系数

每平方空调面积的围护结构的材料重量小于150kg的称为轻型结构。由于轻型结构的蓄热能力小，对波动负荷衰减少，故需增加一个附加系数。

（3）其它附加系数

对于跃层的房间或厂房，当房间高度比较高时，因为人都是在下边活动，所以房间上边的温度高一点是无所谓的。这时可以把“其它附加系数”设成小于1的适当的值；对于其它情况若考虑的不足或过多时也可以设置“其它附加系数”来修正。

# 外围护构造

## 屋顶

### 屋顶构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称（由外到内） | 厚度δ | 导热系数λ | 蓄热系数S | 修正系数 | 热阻R | 热惰性指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 碎石、卵石混凝土(ρ=2300) | 40 | 1.51 | 15.36 | 1 | 0.026 | 0.407 |
| 挤塑聚苯乙烯泡沫塑料（带表皮） | 20 | 0.03 | 0.34 | 1.2 | 0.556 | 0.227 |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 加气混凝土、泡沫混凝土(ρ=700) | 80 | 0.18 | 3.1 | 1 | 0.444 | 1.378 |
| 钢筋混凝土 | 120 | 1.74 | 17.2 | 1 | 0.069 | 1.186 |
| 石灰砂浆 | 20 | 0.81 | 10.07 | 1 | 0.025 | 0.249 |
| 各层之和∑ | 300 | － | － | － | 1.142 | 3.691 |
| 夏季传热系数K=1/(0.11+∑R+0.05) | 0.768 |
| 衰减度ν | 87.51 |
| 延迟时间ξ(h) | 9.57 |
| 衰减倍数β | 0.10 |

备注：

## 外墙

### 外墙构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称（由外到内） | 厚度δ | 导热系数λ | 蓄热系数S | 修正系数 | 热阻R | 热惰性指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 挤塑聚苯乙烯泡沫塑料（带表皮） | 20 | 0.03 | 0.34 | 1.2 | 0.556 | 0.227 |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 钢筋混凝土 | 200 | 1.74 | 17.2 | 1 | 0.115 | 1.977 |
| 石灰砂浆 | 20 | 0.81 | 10.07 | 1 | 0.025 | 0.249 |
| 各层之和∑ | 280 | － | － | － | 0.738 | 2.941 |
| 夏季传热系数K=1/(0.11+∑R+0.05) | 1.113 |
| 衰减度ν | 45.28 |
| 延迟时间ξ(h) | 7.26 |
| 衰减倍数β | 0.13 |

备注：

## 挑空楼板

### 挑空楼板构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称（由外到内） | 厚度δ | 导热系数λ | 蓄热系数S | 修正系数 | 热阻R | 热惰性指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 钢筋混凝土 | 120 | 1.74 | 17.2 | 1 | 0.069 | 1.186 |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 挤塑聚苯乙烯泡沫塑料（带表皮） | 20 | 0.03 | 0.34 | 1.2 | 0.556 | 0.227 |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 各层之和∑ | 200 | － | － | － | 0.689 | 2.146 |
| 夏季传热系数K=1/(0.11+∑R+0.05) | 1.178 |
| 衰减度ν | 20.66 |
| 延迟时间ξ(h) | 4.98 |
| 衰减倍数β | 0.27 |

备注：

# 内围护构造

本工程无此项内容

# 封闭阳台构造

本工程无此项内容

# 地下围护构造

## 周边地面

### 周边地面构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称（由外到内） | 厚度δ | 导热系数λ | 蓄热系数S | 修正系数 | 热阻R | 热惰性指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 钢筋混凝土 | 120 | 1.74 | 17.2 | 1 | 0.069 | 1.186 |
| 各层之和∑ | 140 | － | － | － | 0.090 | 1.431 |
| 夏季传热系数K | 0.520 |
| 修正后传热系数 | 0.514 |
| 衰减度ν | 32.45 |
| 延迟时间ξ(h) | 5.67 |
| 衰减倍数β | 0.39 |

备注：

## 非周边地面

### 非周边地面构造一

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 材料名称（由外到内） | 厚度δ | 导热系数λ | 蓄热系数S | 修正系数 | 热阻R | 热惰性指标 |
| (mm) | W/(m.K) | W/(㎡.K) | α | (㎡K)/W | D=R\*S |
| 水泥砂浆 | 20 | 0.93 | 11.37 | 1 | 0.022 | 0.245 |
| 钢筋混凝土 | 120 | 1.74 | 17.2 | 1 | 0.069 | 1.186 |
| 各层之和∑ | 140 | － | － | － | 0.090 | 1.431 |
| 夏季传热系数K | 0.300 |
| 修正后传热系数 | 0.298 |
| 衰减度ν | 32.45 |
| 延迟时间ξ(h) | 5.67 |
| 衰减倍数β | 0.67 |

备注：

# 窗构造

|  |  |  |
| --- | --- | --- |
| 做法名称 | 传热系数W/㎡.K | 遮阳系数 |
| 12A钢铝单框双玻窗（平均） | 3.90 | 0.75 |

# 门构造

本工程无此项内容

# 负荷指标

|  |  |  |
| --- | --- | --- |
| 整楼负荷(W) | 建筑面积(㎡) | 负荷指标(W/㎡) |
| 805049 | 10993.17 | 73.23 |
| 空调面积(㎡) | 负荷指标(W/㎡) |
| 10875.58 | 74.02 |

# 建筑按楼层汇总表

| 楼层 | 户型 | 房间 | 面积(㎡) | 最大时刻(h) | 全热(W) | 显热(W) | 潜热(W) | 湿负荷(kg/h) | 新风负荷(W) | 总冷指标(W/㎡) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1层 |  | 1001[Ⅲ级采光] | 5962.75 | 18 | 292743 | 267953 | 24790 | 35.37 | 23877 | 49.10 |
| **整层** | **5962.75** | **18** | **292743** | **267953** | **24790** | **35.37** | **23877** | **49.10** |
| 3层 | 1-B | 3001[商场] | 4912.82 | 17 | 380511 | 320601 | 59910 | 84.01 | 77405 | 77.45 |
| **整户** | **4912.82** | **17** | **380511** | **320601** | **59910** | **84.01** | **77405** | **77.45** |
| **整层** | **4912.82** | **17** | **380511** | **320601** | **59910** | **84.01** | **77405** | **77.45** |
| 5层 | 1-D | 5003[房间] | 0.00 | 18 | 24693 | 21072 | 3621 | 5.03 | 5294 | 0.00 |
| **整户** | **0.00** | **18** | **24693** | **21072** | **3621** | **5.03** | **5294** | **0.00** |
| 1-C | 5004[房间] | 0.00 | 17 | 109217 | 97153 | 12063 | 16.76 | 17638 | 0.00 |
| **整户** | **0.00** | **17** | **109217** | **97153** | **12063** | **16.76** | **17638** | **0.00** |
| **整层** | **0.00** | **17** | **133497** | **117813** | **15684** | **21.80** | **22932** | **0.00** |
| **建筑** | **10875.58** | **17** | **805049** | **704664** | **100385** | **141.17** | **124214** | **74.02** |

# 新风负荷表

| 楼层 | 户型 | 房间 | 面积(㎡) | 新风量(m3/h) | 全热负荷(W) | 显热负荷(W) | 潜热负荷(W) | 湿负荷(kg/h) | 总冷指标(W/㎡) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1层 |  | 1001[Ⅲ级采光] | 5962.75 | 3030.94 | 23877 | 7547 | 16331 | 22.69 | 4.00 |
| **合计** | **5963** | **3030.94** | **23877** | **7547** | **16331** | **22.69** | **4.00** |
| 3层 | 1-B | 3001[商场] | 4912.82 | 9825.65 | 77405 | 24465 | 52940 | 73.57 | 15.76 |
| **合计** | **4913** | **9825.65** | **77405** | **24465** | **52940** | **73.57** | **15.76** |
| **合计** | **4913** | **9825.65** | **77405** | **24465** | **52940** | **73.57** | **15.76** |
| 5层 | 1-D | 5003[房间] | 0.00 | 672.00 | 5294 | 1673 | 3621 | 5.03 | 0.00 |
| **合计** | **0** | **672.00** | **5294** | **1673** | **3621** | **5.03** | **0.00** |
| 1-C | 5004[房间] | 0.00 | 2238.96 | 17638 | 5575 | 12063 | 16.76 | 0.00 |
| **合计** | **0** | **2238.96** | **17638** | **5575** | **12063** | **16.76** | **0.00** |
| **合计** | **0** | **2910.96** | **22932** | **7248** | **15684** | **21.80** | **0.00** |
| **总计** | **10876** | **15767.54** | **124214** | **39259** | **84955** | **118.06** | **11.42** |

# 房间冷负荷详细表

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 项目 | 房间 | 高度 | 面积 | 室内温度 | 相对湿度 | 显热负荷 | 全热冷负荷 | 湿负荷 |
| m | ㎡ | ℃ | % | W | 发生时刻 | W | 发生时刻 | Kg/h | 发生时刻 |
| 房间名称 | 1001[Ⅲ级采光] | 0.01 | 5962.75 | 26 | 60 | 267952.6 | 18 | 292742.8 | 18 | 35.37 | 0 |
| 相同房间 |  |
| 房间参数 | 人体 | 32.0(㎡/人) | 设备 | 5.0(W/㎡) | 照明 | 6.0(W/㎡) | 新风 | 0.50(次/h) |
| 项目 | 时刻 | 0：0012：00 | 1：0013：00 | 2：0014：00 | 3：0015：00 | 4：0016：00 | 5：0017：00 | 6：0018：00 | 7：0019：00 | 8：0020：00 | 9：0021：00 | 10：0022：00 | 11：0023：00 |
| 屋顶 | F=5967.80K=0.77 D=3.69 | 75842.456629.6 | 74064.256253.0 | 71123.755932.5 | 67923.755666.6 | 64464.458352.0 | 60975.861682.1 | 60032.565449.1 | 59251.869213.5 | 58605.672302.7 | 58033.174595.0 | 57591.176078.4 | 57007.776452.1 |
| 北外墙 | F=68.05K=1.11 D=2.94 | 579.5441.9 | 578.0503.0 | 510.8509.5 | 498.3506.8 | 488.4527.6 | 480.4544.5 | 473.3558.8 | 468.3571.0 | 459.6578.3 | 454.9581.7 | 449.7578.1 | 445.4565.8 |
| 西外墙 | F=24.41K=1.11 D=2.94 | 367.0248.1 | 343.2255.0 | 283.7261.6 | 277.3268.7 | 272.1276.1 | 267.8282.1 | 264.0287.1 | 261.2291.4 | 257.1320.6 | 254.6347.0 | 252.0365.9 | 249.8372.2 |
| 南外墙 | F=517.00K=1.11 D=2.94 | 5279.34299.6 | 5120.54453.7 | 4883.94599.5 | 4778.64814.3 | 4693.85250.5 | 4625.45636.5 | 4564.35930.0 | 4520.56114.8 | 4449.06152.7 | 4408.66055.0 | 4365.45807.4 | 4329.15438.7 |
| 东外墙 | F=188.40K=1.11 D=2.94 | 2252.61894.4 | 2194.62339.3 | 2108.22570.1 | 2069.72693.4 | 2038.62724.0 | 2013.62658.8 | 1991.22526.4 | 1975.22352.9 | 1949.12359.1 | 1934.32356.2 | 1918.52335.6 | 1905.22291.4 |
| 西南外墙 | F=0.00K=1.11 D=2.94 | 0.10.0 | 0.10.0 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 |
| 东南外墙 | F=0.00K=1.11 D=2.94 | 0.10.0 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 |
| 东北外墙 | F=0.00K=1.11 D=2.94 | 0.00.0 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 |
| 西北外墙 | F=0.00K=1.11 D=2.94 | 0.10.0 | 0.10.0 | 0.00.0 | 0.00.0 | 0.00.0 | 0.00.0 | 0.00.0 | 0.00.0 | 0.00.1 | 0.00.1 | 0.00.1 | 0.00.1 |
| 北外窗 | 总负荷(W)F=477.11 | 14195.847008.0 | 11827.248837.0 | 10407.349579.4 | 8947.948460.2 | 7718.144509.5 | 6709.147871.1 | 23187.245447.9 | 28010.727502.4 | 27969.323663.7 | 34370.420571.6 | 39327.218067.9 | 43472.615856.4 |
| 传热负荷(W)K=3.90 | 3070.212280.8 | 1814.213397.3 | 1395.513955.5 | 837.313815.9 | 418.712699.5 | 139.612141.3 | 976.910606.2 | 2791.18652.4 | 5024.06698.6 | 7117.35303.1 | 8931.54326.2 | 10745.73488.9 |
| 日射得热(W)SC=0.75 | 11125.634727.2 | 10013.035439.7 | 9011.735623.9 | 8110.534644.2 | 7299.531810.0 | 6569.535729.9 | 22210.334841.8 | 25219.618850.0 | 22945.316965.0 | 27253.115268.5 | 30395.713741.7 | 32726.912367.5 |
| 西外窗 | 总负荷(W)F=164.07 | 6996.616618.1 | 5970.623815.0 | 5291.934267.0 | 4618.843219.6 | 4041.747558.9 | 3556.047551.1 | 8097.040941.5 | 9745.021401.5 | 10307.011362.5 | 12439.99976.7 | 14082.58825.4 | 15452.27803.7 |
| 传热负荷(W)K=3.90 | 1055.84223.2 | 623.94607.2 | 479.94799.1 | 287.94751.1 | 144.04367.2 | 48.04175.2 | 335.93647.3 | 959.82975.5 | 1727.72303.6 | 2447.61823.7 | 3071.41487.7 | 3695.31199.8 |
| 日射得热(W)SC=0.75 | 5940.812394.8 | 5346.719207.9 | 4812.029467.9 | 4330.838468.4 | 3897.743191.6 | 3508.043375.8 | 7761.137294.1 | 8785.218426.1 | 8579.49058.9 | 9992.48153.0 | 11011.07337.7 | 11756.96603.9 |
| 南外窗 | 总负荷(W)F=29.70 | 955.34976.9 | 800.75109.4 | 705.94810.7 | 609.24191.5 | 527.43478.4 | 459.93041.1 | 1300.32809.5 | 1615.21833.4 | 1728.51582.3 | 2530.91378.9 | 3514.81213.2 | 4399.71066.7 |
| 传热负荷(W)K=3.90 | 191.1764.5 | 112.9834.0 | 86.9868.7 | 52.1860.0 | 26.1790.5 | 8.7755.8 | 60.8660.2 | 173.7538.6 | 312.7417.0 | 443.0330.1 | 556.0269.3 | 668.9217.2 |
| 日射得热(W)SC=0.75 | 764.24212.4 | 687.84275.4 | 619.03942.0 | 557.13331.4 | 501.42687.8 | 451.22285.4 | 1239.52149.3 | 1441.41294.8 | 1415.81165.3 | 2087.81048.8 | 2958.8943.9 | 3730.8849.5 |
| 西玻璃幕墙 | 总负荷(W)F=24.76 | 1055.72587.0 | 900.93593.5 | 798.55170.7 | 696.96521.6 | 609.97176.3 | 536.67175.2 | 1221.86177.8 | 1470.53229.4 | 1555.31714.5 | 1877.11505.4 | 2125.01331.7 | 2331.61177.5 |
| 传热负荷(W)K=3.90 | 159.3637.3 | 94.1695.2 | 72.4724.2 | 43.4716.9 | 21.7659.0 | 7.2630.0 | 50.7550.4 | 144.8449.0 | 260.7347.6 | 369.3275.2 | 463.5224.5 | 557.6181.0 |
| 日射得热(W)SC=0.75 | 896.41949.7 | 806.82898.4 | 726.14446.5 | 653.55804.7 | 588.16517.4 | 529.36545.2 | 1171.15627.5 | 1325.62780.4 | 1294.61366.9 | 1507.81230.2 | 1661.51107.2 | 1774.0996.5 |
| 西南玻璃幕墙 | 总负荷(W)F=44.26 | 1747.26065.3 | 1484.48148.9 | 1314.010019.4 | 1143.711019.2 | 998.310894.4 | 876.59892.0 | 2109.67905.7 | 2561.64504.9 | 2719.92851.3 | 3301.22498.9 | 3816.22207.5 | 4284.21949.2 |
| 传热负荷(W)K=3.90 | 284.81139.1 | 168.31242.7 | 129.41294.5 | 77.71281.5 | 38.81178.0 | 12.91126.2 | 90.6983.8 | 258.9802.6 | 466.0621.3 | 660.2491.9 | 828.5401.3 | 996.7323.6 |
| 日射得热(W)SC=0.75 | 1462.44926.1 | 1316.16906.2 | 1184.58724.9 | 1066.19737.6 | 959.59716.4 | 863.58765.8 | 2019.06921.9 | 2302.73702.4 | 2253.82229.9 | 2641.02007.0 | 2987.81806.3 | 3287.41625.6 |
| 西南外窗 | 总负荷(W)F=5.36 | 211.6734.6 | 179.8987.0 | 159.21213.6 | 138.51334.7 | 120.91319.6 | 106.21198.2 | 255.5957.6 | 310.3603.4 | 329.4345.4 | 399.9302.7 | 454.2267.4 | 519.1236.1 |
| 传热负荷(W)K=3.90 | 34.5138.0 | 20.4150.5 | 15.7156.8 | 9.4155.2 | 4.7142.7 | 1.6136.4 | 11.0119.2 | 31.497.2 | 56.475.3 | 80.059.6 | 100.348.6 | 120.739.2 |
| 日射得热(W)SC=0.75 | 177.1596.7 | 159.4836.5 | 143.51056.8 | 129.11179.5 | 116.21176.9 | 104.61061.7 | 244.5838.4 | 278.9506.2 | 273.0270.1 | 319.9243.1 | 353.8218.8 | 398.3196.9 |
| 南玻璃幕墙 | 总负荷(W)F=22.11 | 711.13704.7 | 596.03803.3 | 525.43581.0 | 453.53120.0 | 392.62452.2 | 342.42323.4 | 967.92091.3 | 1202.31364.7 | 1290.31177.8 | 1883.91026.4 | 2616.3903.1 | 3275.1794.0 |
| 传热负荷(W)K=3.90 | 142.3569.1 | 84.1620.8 | 64.7646.7 | 38.8640.2 | 19.4588.5 | 6.5562.6 | 45.3491.5 | 129.3400.9 | 232.8310.4 | 329.8245.7 | 413.9200.5 | 497.9161.7 |
| 日射得热(W)SC=0.75 | 568.83135.6 | 512.03182.5 | 460.82934.3 | 414.72479.9 | 373.21863.7 | 335.91760.8 | 922.71599.9 | 1073.0963.8 | 1057.6867.4 | 1554.1780.7 | 2202.5702.6 | 2777.1632.3 |
| 东南玻璃幕墙 | 总负荷(W)F=46.91 | 1606.28821.7 | 1352.37012.2 | 1193.76026.7 | 1033.25406.0 | 897.04953.3 | 997.15007.2 | 3882.44620.9 | 6535.33060.8 | 8792.02647.6 | 10344.82311.5 | 10800.92036.5 | 10137.81793.0 |
| 传热负荷(W)K=3.90 | 301.91207.6 | 178.41317.4 | 137.21372.2 | 82.31358.5 | 41.21248.7 | 13.71193.8 | 96.11042.9 | 274.4850.8 | 494.0658.7 | 699.8521.5 | 878.2425.4 | 1056.6343.1 |
| 日射得热(W)SC=0.75 | 1304.47614.1 | 1173.95694.9 | 1056.54654.4 | 950.94047.5 | 855.83704.6 | 983.43813.3 | 3786.43578.0 | 6260.82210.0 | 8298.01989.0 | 9644.91790.1 | 9922.61611.1 | 9081.11450.0 |
| 东南外窗 | 总负荷(W)F=2.70 | 92.5508.0 | 77.9432.7 | 68.7321.8 | 59.5311.3 | 51.7285.3 | 61.8288.4 | 223.6266.1 | 376.4176.3 | 506.3152.5 | 595.8133.1 | 622.0117.3 | 583.8103.3 |
| 传热负荷(W)K=3.90 | 17.469.5 | 10.375.9 | 7.979.0 | 4.778.2 | 2.471.9 | 0.868.8 | 5.560.1 | 15.849.0 | 28.437.9 | 40.330.0 | 50.624.5 | 60.919.8 |
| 日射得热(W)SC=0.75 | 75.1438.5 | 67.6356.9 | 60.8242.7 | 54.8233.1 | 49.3213.3 | 61.0219.6 | 218.1206.1 | 360.6127.3 | 477.9114.5 | 555.5103.1 | 571.492.8 | 523.083.5 |
| 东玻璃幕墙 | 总负荷(W)F=22.11 | 768.83102.2 | 648.02673.8 | 572.22667.1 | 495.62578.3 | 430.52361.9 | 529.42384.5 | 3173.92200.0 | 4675.01462.5 | 5552.21265.8 | 5819.91105.6 | 5327.6974.4 | 4355.8858.2 |
| 传热负荷(W)K=3.90 | 142.3569.1 | 84.1620.8 | 64.7646.7 | 38.8640.2 | 19.4588.5 | 6.5562.6 | 45.3491.5 | 129.3400.9 | 232.8310.4 | 329.8245.7 | 413.9200.5 | 497.9161.7 |
| 日射得热(W)SC=0.75 | 626.62533.1 | 563.92053.0 | 507.52020.5 | 456.81938.1 | 411.11773.4 | 523.01821.9 | 3128.71708.5 | 4545.61061.6 | 5319.4955.4 | 5490.1859.9 | 4913.7773.9 | 3857.9696.5 |
| 东外窗 | 总负荷(W)F=2.70 | 93.9451.8 | 79.1326.5 | 69.9325.7 | 60.5314.9 | 52.6288.4 | 64.7291.2 | 387.6268.7 | 570.9178.6 | 678.1154.6 | 710.8135.0 | 650.6119.0 | 532.0104.8 |
| 传热负荷(W)K=3.90 | 17.469.5 | 10.375.8 | 7.979.0 | 4.778.2 | 2.471.9 | 0.868.7 | 5.560.0 | 15.849.0 | 28.437.9 | 40.330.0 | 50.524.5 | 60.819.7 |
| 日射得热(W)SC=0.75 | 76.5382.3 | 68.9250.7 | 62.0246.8 | 55.8236.7 | 50.2216.6 | 63.9222.5 | 382.1208.7 | 555.1129.6 | 649.6116.7 | 670.5105.0 | 600.194.5 | 471.285.1 |
| 东北玻璃幕墙 | 总负荷(W)F=44.21 | 1410.94820.5 | 1181.94943.5 | 1041.74970.5 | 898.74829.2 | 777.84429.1 | 809.64503.7 | 5698.74161.3 | 7660.12797.8 | 8172.52338.4 | 7523.82037.3 | 5736.81792.2 | 5146.51575.5 |
| 传热负荷(W)K=3.90 | 284.51138.0 | 168.11241.5 | 129.31293.2 | 77.61280.3 | 38.81176.8 | 12.91125.1 | 90.5982.8 | 258.6801.8 | 465.6620.7 | 659.5491.4 | 827.7400.9 | 995.8323.3 |
| 日射得热(W)SC=0.75 | 1126.43682.4 | 1013.83702.0 | 912.43677.3 | 821.23548.9 | 739.03252.2 | 796.63378.6 | 5608.23178.4 | 7401.41996.0 | 7707.01717.6 | 6864.21545.9 | 4909.21391.3 | 4150.71252.2 |
| 东北外窗 | 总负荷(W)F=5.40 | 172.4589.2 | 144.4604.2 | 127.3607.5 | 109.8590.2 | 95.1541.3 | 98.9550.4 | 696.5508.6 | 936.2349.6 | 998.8285.8 | 919.5249.0 | 665.6219.0 | 628.9192.6 |
| 传热负荷(W)K=3.90 | 34.8139.1 | 20.5151.7 | 15.8158.1 | 9.5156.5 | 4.7143.8 | 1.6137.5 | 11.1120.1 | 31.698.0 | 56.975.9 | 80.660.1 | 101.249.0 | 121.739.5 |
| 日射得热(W)SC=0.75 | 137.7450.1 | 123.9452.5 | 111.5449.4 | 100.4433.7 | 90.3397.5 | 97.4412.9 | 685.4388.5 | 904.6251.6 | 941.9209.9 | 838.9188.9 | 564.5170.0 | 507.2153.0 |
| 北玻璃幕墙 | 总负荷(W)F=23.65 | 703.62329.9 | 586.22420.5 | 515.82457.3 | 443.52401.8 | 382.52206.0 | 332.52372.6 | 1149.22252.5 | 1388.31363.1 | 1386.21172.8 | 1703.51019.6 | 1949.2895.5 | 2154.6785.9 |
| 传热负荷(W)K=3.90 | 152.2608.7 | 89.9664.0 | 69.2691.7 | 41.5684.8 | 20.8629.4 | 6.9601.8 | 48.4525.7 | 138.3428.8 | 249.0332.0 | 352.8262.8 | 442.7214.4 | 532.6172.9 |
| 日射得热(W)SC=0.75 | 551.41721.2 | 496.31756.5 | 446.61765.6 | 402.01717.1 | 361.81576.6 | 325.61770.9 | 1100.81726.9 | 1250.0934.3 | 1137.2840.8 | 1350.7756.8 | 1506.5681.1 | 1622.0613.0 |
| 西北玻璃幕墙 | 总负荷(W)F=45.38 | 1689.84526.8 | 1430.64724.3 | 1264.95429.1 | 1098.67640.6 | 956.99377.2 | 950.710260.2 | 2109.19412.9 | 2577.94533.9 | 2745.12768.6 | 3345.62422.7 | 3809.42138.0 | 4196.81885.7 |
| 传热负荷(W)K=3.90 | 292.01168.1 | 172.61274.2 | 132.71327.3 | 79.61314.1 | 39.81207.9 | 13.31154.8 | 92.91008.8 | 265.5822.9 | 477.8637.1 | 676.9504.4 | 849.5411.5 | 1022.0331.8 |
| 日射得热(W)SC=0.75 | 1397.83358.8 | 1258.03450.1 | 1132.24101.8 | 1019.06326.6 | 917.18169.3 | 937.49105.4 | 2016.28404.1 | 2312.53711.0 | 2267.32131.5 | 2668.61918.3 | 2959.91726.5 | 3174.71553.8 |
| 西北外窗 | 总负荷(W)F=4.24 | 157.8422.7 | 133.6441.3 | 118.1500.0 | 102.6713.4 | 89.4875.6 | 94.2958.0 | 196.9878.9 | 240.7423.3 | 256.3258.5 | 312.4226.2 | 355.7199.6 | 391.9176.1 |
| 传热负荷(W)K=3.90 | 27.3109.1 | 16.1119.0 | 12.4123.9 | 7.4122.7 | 3.7112.8 | 1.2107.8 | 8.794.2 | 24.876.8 | 44.659.5 | 63.247.1 | 79.338.4 | 95.431.0 |
| 日射得热(W)SC=0.75 | 130.5313.6 | 117.5322.4 | 105.7376.1 | 95.1590.7 | 85.6762.8 | 92.9850.2 | 188.3784.7 | 215.9346.5 | 211.7199.0 | 249.2179.1 | 276.4161.2 | 296.4145.1 |
| 设备 | 负荷(W) | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 | 29813.829813.8 |
| 照明 | 显热(W) | 17530.51431.1 | 10375.21431.1 | 8228.61073.3 | 6797.51073.3 | 5724.2715.5 | 4650.9715.5 | 3935.413237.3 | 3219.920750.4 | 2862.123612.5 | 2146.625759.1 | 2146.627547.9 | 1788.828621.2 |
| 人体 | 显热(W) | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 | 11701.911701.9 |
| 全热(W) | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 | 20161.620161.6 |
| 湿负荷(kg/h) | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 |
| 新风 | 显热(W) | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 | 7546.67546.6 |
| 全热(W) | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 | 23877.223877.2 |
| 湿负荷(kg/h) | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 | 22.6922.69 |
| 含新风全热冷负荷(W) | 208273246065 | 193922256961 | 185166270747 | 177109281529 | 169677284406 | 163392291041 | 199771292743 | 213426247932 | 217423232921 | 229164230447 | 236430227874 | 241441223953 |
| 含新风显热冷负荷(W) | 183483221274 | 169132232171 | 160376245957 | 152318256738 | 144886259615 | 138602266250 | 174981267953 | 188636223142 | 192632208130 | 204374205657 | 211640203084 | 216651199162 |
| 含新风湿负荷(kg/h) | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 | 35.3735.37 |
| 不含新风全热冷负荷(W) | 184396222187 | 170045233084 | 161289246870 | 153231257651 | 145799260529 | 139515267163 | 175894268866 | 189549224055 | 193545209043 | 205287206570 | 212553203997 | 217564200075 |
| 不含新风显热冷负荷(W) | 175936213728 | 161585224624 | 152829238410 | 144772249192 | 137340252069 | 131055258704 | 167434260406 | 181089215595 | 185086200584 | 196827198110 | 204093195537 | 209104191616 |
| 不含新风湿负荷(kg/h) | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 | 12.6712.67 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 项目 | 房间 | 高度 | 面积 | 室内温度 | 相对湿度 | 显热负荷 | 全热冷负荷 | 湿负荷 |
| m | ㎡ | ℃ | % | W | 发生时刻 | W | 发生时刻 | Kg/h | 发生时刻 |
| 房间名称 | 3001[商场] | 4.00 | 4912.82 | 26 | 60 | 320600.6 | 17 | 380511.0 | 17 | 84.01 | 0 |
| 相同房间 |  |
| 房间参数 | 人体 | 32.0(㎡/人) | 设备 | 5.0(W/㎡) | 照明 | 6.0(W/㎡) | 新风 | 0.50(次/h) |
| 项目 | 时刻 | 0：0012：00 | 1：0013：00 | 2：0014：00 | 3：0015：00 | 4：0016：00 | 5：0017：00 | 6：0018：00 | 7：0019：00 | 8：0020：00 | 9：0021：00 | 10：0022：00 | 11：0023：00 |
| 屋顶 | F=4244.44K=0.77 D=3.69 | 53940.940276.3 | 52676.240008.5 | 50584.939780.5 | 48308.939591.4 | 45848.641501.3 | 43367.443869.7 | 42696.546549.0 | 42141.349226.2 | 41681.651423.4 | 41274.553053.7 | 40960.254108.8 | 40545.254374.5 |
| 南外墙 | F=287.85K=1.11 D=2.94 | 2939.32393.9 | 2851.02479.7 | 2719.22560.9 | 2660.62680.5 | 2613.32923.3 | 2575.33138.2 | 2541.33301.7 | 2516.93404.5 | 2477.13425.7 | 2454.63371.2 | 2430.53233.4 | 2410.33028.1 |
| 西外墙 | F=94.95K=1.11 D=2.94 | 1427.6964.8 | 1335.1991.8 | 1103.31017.4 | 1078.61045.3 | 1058.31073.9 | 1041.71097.1 | 1026.91116.7 | 1015.81133.3 | 1000.01246.8 | 990.21349.7 | 980.21423.2 | 971.81447.7 |
| 东外墙 | F=254.96K=1.11 D=2.94 | 3048.42563.6 | 2969.83165.7 | 2852.93478.0 | 2800.83644.9 | 2758.83686.2 | 2724.93598.1 | 2694.63418.9 | 2672.93184.1 | 2637.63192.4 | 2617.63188.5 | 2596.23160.7 | 2578.23100.9 |
| 北外墙 | F=28.11K=1.11 D=2.94 | 239.4182.5 | 238.8207.8 | 211.0210.5 | 205.9209.4 | 201.7217.9 | 198.5224.9 | 195.5230.8 | 193.5235.9 | 189.9238.9 | 187.9240.3 | 185.8238.8 | 184.0233.7 |
| 西南外墙 | F=0.01K=1.11 D=2.94 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 |
| 东南外墙 | F=0.01K=1.11 D=2.94 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 | 0.10.1 |
| 南外窗 | 总负荷(W)F=163.70 | 5265.627431.9 | 4413.428162.2 | 3890.726516.1 | 3357.923102.9 | 2907.219409.3 | 2535.116767.8 | 7167.215485.6 | 8902.710105.4 | 9527.88721.4 | 13950.07600.2 | 19373.06687.0 | 24250.85879.4 |
| 传热负荷(W)K=3.90 | 1053.44213.7 | 622.54596.8 | 478.84788.3 | 287.34740.4 | 143.64357.4 | 47.94165.8 | 335.23639.1 | 957.72968.7 | 1723.82298.4 | 2442.01819.6 | 3064.51484.4 | 3687.01197.1 |
| 日射得热(W)SC=0.75 | 4212.123218.1 | 3790.923565.5 | 3411.821727.8 | 3070.718362.5 | 2763.615052.0 | 2487.212602.0 | 6832.011846.5 | 7945.07136.6 | 7804.06423.0 | 11507.95780.7 | 16308.55202.6 | 20563.84682.3 |
| 北外窗 | 总负荷(W)F=515.89 | 15349.550828.6 | 12788.552806.2 | 11253.153609.0 | 9675.152398.8 | 8345.448127.0 | 7254.451761.9 | 25071.749141.7 | 30287.329737.7 | 30242.525586.9 | 37163.822243.6 | 42523.519536.4 | 47005.917145.1 |
| 传热负荷(W)K=3.90 | 3319.713279.0 | 1961.714486.1 | 1509.015089.7 | 905.414938.8 | 452.713731.6 | 150.913128.1 | 1056.311468.2 | 3017.99355.6 | 5432.37243.1 | 7695.85734.1 | 9657.44677.8 | 11619.13772.4 |
| 日射得热(W)SC=0.75 | 12029.837549.7 | 10826.838320.1 | 9744.138519.3 | 8769.737460.0 | 7892.734395.4 | 7103.538633.8 | 24015.437673.5 | 27269.420382.1 | 24810.218343.9 | 29468.116509.5 | 32866.114858.5 | 35386.813372.7 |
| 西外窗 | 总负荷(W)F=193.54 | 8253.019601.9 | 7042.728091.6 | 6242.240420.5 | 5448.250980.7 | 4767.556099.2 | 4194.556090.0 | 9551.048293.5 | 11495.025244.7 | 12157.913402.9 | 14673.811768.2 | 16611.310410.2 | 18227.09205.1 |
| 传热负荷(W)K=3.90 | 1245.44981.6 | 735.95434.5 | 566.15660.9 | 339.75604.3 | 169.85151.4 | 56.64925.0 | 396.34302.3 | 1132.23509.8 | 2037.92717.2 | 2887.12151.2 | 3623.01754.9 | 4358.91415.2 |
| 日射得热(W)SC=0.75 | 7007.614620.3 | 6306.822657.1 | 5676.134759.6 | 5108.545376.4 | 4597.750947.8 | 4137.951165.0 | 9154.743991.2 | 10362.821734.9 | 10120.010685.6 | 11786.79617.1 | 12988.38655.4 | 13868.17789.8 |
| 东外窗 | 总负荷(W)F=33.41 | 1161.95591.5 | 979.34040.9 | 864.74030.8 | 749.03896.6 | 650.63569.5 | 800.13603.7 | 4796.83324.9 | 7065.32210.3 | 8391.11913.1 | 8795.61670.9 | 8051.61472.6 | 6583.01297.0 |
| 传热负荷(W)K=3.90 | 215.0860.0 | 127.0938.2 | 97.7977.3 | 58.6967.5 | 29.3889.3 | 9.8850.3 | 68.4742.8 | 195.5605.9 | 351.8469.1 | 498.4371.4 | 625.5303.0 | 752.5244.3 |
| 日射得热(W)SC=0.75 | 946.94731.5 | 852.23102.7 | 767.03053.5 | 690.32929.1 | 621.32680.2 | 790.42753.4 | 4728.42582.1 | 6869.91604.4 | 8039.21443.9 | 8297.21299.6 | 7426.21169.6 | 5830.41052.6 |
| 西玻璃幕墙 | 总负荷(W)F=18.38 | 784.01980.2 | 669.02668.4 | 592.93839.5 | 517.54842.7 | 452.95328.9 | 398.45328.0 | 907.34587.4 | 1091.92398.0 | 1154.91273.1 | 1393.91117.9 | 1577.9988.9 | 1731.4874.4 |
| 传热负荷(W)K=3.90 | 118.3473.2 | 69.9516.2 | 53.8537.7 | 32.3532.4 | 16.1489.3 | 5.4467.8 | 37.6408.7 | 107.5333.4 | 193.6258.1 | 274.2204.3 | 344.1166.7 | 414.1134.4 |
| 日射得热(W)SC=0.75 | 665.61507.0 | 599.12152.2 | 539.23301.8 | 485.34310.3 | 436.74839.5 | 393.14860.2 | 869.64178.7 | 984.42064.6 | 961.31015.0 | 1119.6913.5 | 1233.8822.2 | 1317.3740.0 |
| 西南玻璃幕墙 | 总负荷(W)F=52.45 | 2070.87188.6 | 1759.49658.1 | 1557.311875.1 | 1355.613060.0 | 1183.212912.1 | 1038.811724.0 | 2500.39369.9 | 3036.05904.5 | 3223.63379.4 | 3912.62961.7 | 4444.12616.4 | 5029.72310.3 |
| 传热负荷(W)K=3.90 | 337.51350.1 | 199.41472.9 | 153.41534.2 | 92.11518.9 | 46.01396.1 | 15.31334.8 | 107.41166.0 | 306.8951.2 | 552.3736.4 | 782.5583.0 | 981.9475.6 | 1181.4383.6 |
| 日射得热(W)SC=0.75 | 1733.25838.5 | 1559.98185.2 | 1403.910340.9 | 1263.511541.1 | 1137.211516.0 | 1023.510389.3 | 2392.98203.9 | 2729.14953.3 | 2671.32642.9 | 3130.12378.6 | 3462.22140.8 | 3848.41926.7 |
| 西南外窗 | 总负荷(W)F=2.70 | 106.6370.0 | 90.6497.2 | 80.2611.3 | 69.8672.3 | 60.9664.7 | 53.5603.5 | 128.7482.3 | 156.3303.9 | 165.9174.0 | 201.4152.5 | 228.8134.7 | 253.1118.9 |
| 传热负荷(W)K=3.90 | 17.469.5 | 10.375.8 | 7.979.0 | 4.778.2 | 2.471.9 | 0.868.7 | 5.560.0 | 15.849.0 | 28.437.9 | 40.330.0 | 50.524.5 | 60.819.7 |
| 日射得热(W)SC=0.75 | 89.2300.5 | 80.3421.3 | 72.3532.3 | 65.0594.1 | 58.5592.8 | 52.7534.8 | 123.2422.3 | 140.5255.0 | 137.5136.0 | 161.1122.4 | 178.2110.2 | 192.399.2 |
| 南玻璃幕墙 | 总负荷(W)F=70.84 | 2278.511870.1 | 1909.712186.1 | 1683.511473.8 | 1453.09487.9 | 1258.07784.0 | 1097.07424.6 | 2894.76672.5 | 3666.74372.7 | 4133.23773.8 | 5866.73288.7 | 8382.92893.5 | 10493.62544.1 |
| 传热负荷(W)K=3.90 | 455.81823.3 | 269.41989.1 | 207.22072.0 | 124.32051.2 | 62.21885.5 | 20.71802.6 | 145.01574.7 | 414.41284.6 | 745.9994.5 | 1056.7787.3 | 1326.0642.3 | 1595.4518.0 |
| 日射得热(W)SC=0.75 | 1822.610046.8 | 1640.410197.0 | 1476.39401.9 | 1328.77436.6 | 1195.85898.5 | 1076.35622.0 | 2749.65097.8 | 3252.33088.1 | 3387.32779.3 | 4810.12501.4 | 7056.92251.2 | 8898.22026.1 |
| 东南玻璃幕墙 | 总负荷(W)F=52.45 | 1795.89863.0 | 1511.97657.2 | 1334.76246.8 | 1155.26044.2 | 1002.85538.0 | 1200.55598.2 | 4340.75166.4 | 7306.73422.0 | 9829.82960.2 | 11565.92584.4 | 12075.82276.8 | 11334.42004.7 |
| 传热负荷(W)K=3.90 | 337.51350.1 | 199.41472.9 | 153.41534.2 | 92.11518.9 | 46.01396.1 | 15.31334.8 | 107.41166.0 | 306.8951.2 | 552.3736.4 | 782.5583.0 | 981.9475.6 | 1181.4383.6 |
| 日射得热(W)SC=0.75 | 1458.38512.9 | 1312.56184.3 | 1181.24712.6 | 1063.14525.3 | 956.84141.8 | 1185.24263.5 | 4233.34000.4 | 6999.92470.8 | 9277.52223.7 | 10783.42001.4 | 11093.91801.2 | 10153.11621.1 |
| 东南外窗 | 总负荷(W)F=2.70 | 92.4507.7 | 77.8432.5 | 68.7321.6 | 59.5311.1 | 51.6285.1 | 61.8288.2 | 223.4265.9 | 376.1176.2 | 506.0152.4 | 595.4133.0 | 621.6117.2 | 583.4103.2 |
| 传热负荷(W)K=3.90 | 17.469.5 | 10.375.8 | 7.979.0 | 4.778.2 | 2.471.9 | 0.868.7 | 5.560.0 | 15.849.0 | 28.437.9 | 40.330.0 | 50.524.5 | 60.819.7 |
| 日射得热(W)SC=0.75 | 75.1438.2 | 67.6356.6 | 60.8242.6 | 54.7232.9 | 49.3213.2 | 61.0219.5 | 217.9205.9 | 360.3127.2 | 477.6114.5 | 555.1103.0 | 571.192.7 | 522.683.4 |
| 东玻璃幕墙 | 总负荷(W)F=18.38 | 639.33076.6 | 538.82223.4 | 475.82217.8 | 412.12144.0 | 358.01964.0 | 440.21982.8 | 2639.31829.4 | 3887.51216.2 | 4616.91052.6 | 4839.5919.4 | 4430.2810.2 | 3622.1713.6 |
| 传热负荷(W)K=3.90 | 118.3473.2 | 69.9516.2 | 53.8537.7 | 32.3532.4 | 16.1489.3 | 5.4467.8 | 37.6408.7 | 107.5333.4 | 193.6258.1 | 274.2204.3 | 344.1166.7 | 414.1134.4 |
| 日射得热(W)SC=0.75 | 521.02603.4 | 468.91707.2 | 422.01680.1 | 379.81611.6 | 341.81474.7 | 434.91515.0 | 2601.71420.7 | 3779.9882.8 | 4423.3794.5 | 4565.3715.0 | 4086.0643.5 | 3208.0579.2 |
| 挑空楼板 | F=4915.25K=1.18 D=2.15 | 38719.938510.5 | 36744.838089.5 | 35166.241367.0 | 33907.644050.8 | 32776.946311.4 | 31988.848239.9 | 30609.449400.2 | 29861.049938.6 | 29043.749372.9 | 28357.647412.2 | 27805.749585.5 | 37475.849354.6 |
| 设备 | 负荷(W) | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 | 24564.124564.1 |
| 照明 | 显热(W) | 14443.71179.1 | 8548.31179.1 | 6779.7884.3 | 5600.6884.3 | 4716.3589.5 | 3832.0589.5 | 3242.510906.5 | 2652.917096.6 | 2358.219454.8 | 1768.621223.4 | 1768.622697.2 | 1473.823581.6 |
| 人体 | 显热(W) | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 | 9641.49641.4 |
| 全热(W) | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 | 16611.516611.5 |
| 湿负荷(kg/h) | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 |
| 新风 | 显热(W) | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 | 24464.524464.5 |
| 全热(W) | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 | 77404.977404.9 |
| 湿负荷(kg/h) | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 | 73.5773.57 |
| 含新风全热冷负荷(W) | 271137342962 | 255726353126 | 246042369042 | 237396377628 | 229593376566 | 223384380511 | 261808378124 | 276906327892 | 281918309325 | 299190302860 | 313629300972 | 333334295897 |
| 含新风显热冷负荷(W) | 211227283051 | 195815293216 | 186131309131 | 177486317718 | 169682316656 | 163473320601 | 201898318214 | 216996267981 | 222008249415 | 239280242950 | 253718241062 | 273424235987 |
| 含新风湿负荷(kg/h) | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 | 84.0184.01 |
| 不含新风全热冷负荷(W) | 193732265557 | 178321275722 | 168637291637 | 159992300223 | 152188299161 | 145979303106 | 184404300719 | 199501250487 | 204513231920 | 221785225455 | 236224223567 | 255929218493 |
| 不含新风显热冷负荷(W) | 186762258587 | 171351268752 | 161667284667 | 153021293253 | 145218292191 | 139009296136 | 177433293749 | 192531243517 | 197543224950 | 214815218485 | 229254216597 | 248959211522 |
| 不含新风湿负荷(kg/h) | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 | 10.4410.44 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 项目 | 房间 | 高度 | 面积 | 室内温度 | 相对湿度 | 显热负荷 | 全热冷负荷 | 湿负荷 |
| m | ㎡ | ℃ | % | W | 发生时刻 | W | 发生时刻 | Kg/h | 发生时刻 |
| 房间名称 | 5003[房间] | 3.00 | 0.00 | 26 | 60 | 21072.2 | 18 | 24693.0 | 18 | 5.03 | 0 |
| 相同房间 |  |
| 房间参数 | 人体 | 0.0(㎡/人) | 设备 | 0.0(W/㎡) | 照明 | 0.0(W/㎡) | 新风 | 0.50(次/h) |
| 项目 | 时刻 | 0：0012：00 | 1：0013：00 | 2：0014：00 | 3：0015：00 | 4：0016：00 | 5：0017：00 | 6：0018：00 | 7：0019：00 | 8：0020：00 | 9：0021：00 | 10：0022：00 | 11：0023：00 |
| 屋顶 | F=672.00K=0.77 D=3.69 | 8540.26376.7 | 8339.96334.3 | 8008.86298.2 | 7648.56268.3 | 7259.06570.7 | 6866.16945.7 | 6759.97369.9 | 6672.07793.7 | 6599.28141.6 | 6534.88399.7 | 6485.08566.8 | 6419.38608.8 |
| 东外墙 | F=84.00K=1.11 D=2.94 | 1004.3844.6 | 978.41043.0 | 939.91145.9 | 922.81200.9 | 908.91214.5 | 897.81185.4 | 887.81126.4 | 880.61049.0 | 869.01051.8 | 862.41050.5 | 855.41041.3 | 849.41021.6 |
| 北外墙 | F=2.92K=1.11 D=2.94 | 24.919.0 | 24.821.6 | 21.921.9 | 21.421.8 | 21.022.6 | 20.623.4 | 20.324.0 | 20.124.5 | 19.724.8 | 19.525.0 | 19.324.8 | 19.124.3 |
| 西外墙 | F=84.00K=1.11 D=2.94 | 1263.0853.6 | 1181.2877.5 | 976.1900.1 | 954.2924.8 | 936.3950.1 | 921.6970.6 | 908.5987.9 | 898.71002.7 | 884.71103.1 | 876.01194.1 | 867.21259.1 | 859.81280.8 |
| 南外墙 | F=32.00K=1.11 D=2.94 | 326.8266.1 | 316.9275.7 | 302.3284.7 | 295.8298.0 | 290.5325.0 | 286.3348.9 | 282.5367.0 | 279.8378.5 | 275.4380.8 | 272.9374.8 | 270.2359.5 | 267.9336.6 |
| 北外窗 | 总负荷(W)F=29.08 | 865.22865.0 | 720.82976.5 | 634.33021.8 | 545.42953.6 | 470.42712.8 | 408.92917.7 | 1413.22770.0 | 1707.21676.2 | 1704.71442.3 | 2094.81253.8 | 2396.91101.2 | 2649.6966.4 |
| 传热负荷(W)K=3.90 | 187.1748.5 | 110.6816.5 | 85.1850.6 | 51.0842.1 | 25.5774.0 | 8.5740.0 | 59.5646.4 | 170.1527.3 | 306.2408.3 | 433.8323.2 | 544.4263.7 | 654.9212.6 |
| 日射得热(W)SC=0.75 | 678.12116.6 | 610.32160.0 | 549.22171.2 | 494.32111.5 | 444.91938.8 | 400.42177.7 | 1353.72123.5 | 1537.11148.9 | 1398.51034.0 | 1661.0930.6 | 1852.6837.5 | 1994.6753.8 |
| 挑空楼板 | F=672.00K=1.18 D=2.15 | 5293.75265.0 | 5023.65207.5 | 4807.85655.6 | 4635.86022.5 | 4481.26331.6 | 4373.46595.2 | 4184.86753.9 | 4082.56827.5 | 3970.86750.1 | 3877.06482.1 | 3801.56779.2 | 5123.66747.6 |
| 新风 | 显热(W) | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 | 1673.21673.2 |
| 全热(W) | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 | 5293.95293.9 |
| 湿负荷(kg/h) | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 |
| 含新风全热冷负荷(W) | 2261221784 | 2188022030 | 2098522622 | 2031822984 | 1966123421 | 1906924281 | 1975124693 | 1983524046 | 1961724188 | 1983124074 | 1998924426 | 2148324280 |
| 含新风显热冷负荷(W) | 1899118163 | 1825918409 | 1736419001 | 1669719363 | 1604019800 | 1544820660 | 1613021072 | 1621420425 | 1599720568 | 1621120453 | 1636920805 | 1786220659 |
| 含新风湿负荷(kg/h) | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 | 5.035.03 |
| 不含新风全热冷负荷(W) | 1731816490 | 1658616736 | 1569117328 | 1502417690 | 1436718127 | 1377518987 | 1445719399 | 1454118752 | 1432318894 | 1453718780 | 1469619132 | 1618918986 |
| 不含新风显热冷负荷(W) | 1731816490 | 1658616736 | 1569117328 | 1502417690 | 1436718127 | 1377518987 | 1445719399 | 1454118752 | 1432318894 | 1453718780 | 1469619132 | 1618918986 |
| 不含新风湿负荷(kg/h) | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 项目 | 房间 | 高度 | 面积 | 室内温度 | 相对湿度 | 显热负荷 | 全热冷负荷 | 湿负荷 |
| m | ㎡ | ℃ | % | W | 发生时刻 | W | 发生时刻 | Kg/h | 发生时刻 |
| 房间名称 | 5004[房间] | 3.00 | 0.00 | 26 | 60 | 97153.1 | 17 | 109216.5 | 17 | 16.76 | 0 |
| 相同房间 |  |
| 房间参数 | 人体 | 0.0(㎡/人) | 设备 | 0.0(W/㎡) | 照明 | 0.0(W/㎡) | 新风 | 0.50(次/h) |
| 项目 | 时刻 | 0：0012：00 | 1：0013：00 | 2：0014：00 | 3：0015：00 | 4：0016：00 | 5：0017：00 | 6：0018：00 | 7：0019：00 | 8：0020：00 | 9：0021：00 | 10：0022：00 | 11：0023：00 |
| 屋顶 | F=2240.24K=0.77 D=3.69 | 28470.421258.1 | 27802.821116.7 | 26699.020996.4 | 25497.820896.6 | 24199.221904.7 | 22889.623154.7 | 22535.524568.8 | 22242.425981.9 | 21999.827141.6 | 21784.928002.1 | 21619.028559.0 | 21400.028699.2 |
| 南外墙 | F=121.60K=1.11 D=2.94 | 1241.61011.2 | 1204.31047.5 | 1148.71081.8 | 1123.91132.3 | 1103.91234.9 | 1087.91325.7 | 1073.51394.7 | 1063.21438.2 | 1046.41447.1 | 1036.91424.1 | 1026.71365.9 | 1018.21279.1 |
| 西外墙 | F=29.84K=1.11 D=2.94 | 448.7303.3 | 419.6311.7 | 346.8319.8 | 339.0328.6 | 332.6337.6 | 327.4344.9 | 322.8351.0 | 319.3356.2 | 314.3391.9 | 311.2424.2 | 308.1447.3 | 305.5455.0 |
| 东外墙 | F=47.20K=1.11 D=2.94 | 564.4474.6 | 549.8586.1 | 528.2643.9 | 518.5674.8 | 510.8682.5 | 504.5666.1 | 498.9633.0 | 494.9589.5 | 488.3591.0 | 484.6590.3 | 480.7585.2 | 477.3574.1 |
| 北外墙 | F=20.54K=1.11 D=2.94 | 174.9133.4 | 174.5151.8 | 154.2153.8 | 150.4153.0 | 147.4159.3 | 145.0164.4 | 142.9168.7 | 141.4172.4 | 138.7174.6 | 137.3175.6 | 135.8174.5 | 134.5170.8 |
| 东南外墙 | F=25.06K=1.11 D=2.94 | 291.1243.2 | 283.3276.7 | 271.8303.8 | 266.7325.8 | 262.5340.4 | 259.2345.1 | 256.2340.7 | 254.0328.8 | 250.5310.3 | 248.6305.0 | 246.4302.2 | 244.7296.3 |
| 南外窗 | 总负荷(W)F=68.67 | 2208.811506.9 | 1851.311813.3 | 1632.011122.8 | 1408.69691.1 | 1219.58153.5 | 1063.47031.4 | 3006.56495.8 | 3734.44238.9 | 3996.53658.4 | 5851.73188.1 | 8126.52805.0 | 10172.62466.3 |
| 传热负荷(W)K=3.90 | 441.91767.5 | 261.11928.2 | 200.92008.6 | 120.51988.5 | 60.31827.8 | 20.11747.5 | 140.61526.5 | 401.71245.3 | 723.1964.1 | 1024.4763.3 | 1285.5622.7 | 1546.6502.1 |
| 日射得热(W)SC=0.75 | 1766.99739.4 | 1590.29885.1 | 1431.29114.3 | 1288.17702.6 | 1159.36325.7 | 1043.35283.9 | 2865.94969.3 | 3332.72993.6 | 3273.42694.3 | 4827.32424.8 | 6841.02182.4 | 8626.01964.1 |
| 东外窗 | 总负荷(W)F=19.06 | 662.83189.7 | 558.62305.2 | 493.32299.4 | 427.22222.8 | 371.12036.2 | 456.42055.7 | 2736.41896.7 | 4030.41260.9 | 4786.71091.3 | 5017.5953.2 | 4593.1840.0 | 3755.3739.9 |
| 传热负荷(W)K=3.90 | 122.7490.6 | 72.5535.2 | 55.8557.5 | 33.5551.9 | 16.7507.3 | 5.6485.0 | 39.0423.7 | 111.5345.7 | 200.7267.6 | 284.3211.9 | 356.8172.8 | 429.3139.4 |
| 日射得热(W)SC=0.75 | 540.22699.1 | 486.21770.0 | 437.51741.9 | 393.81670.9 | 354.41528.9 | 450.91570.7 | 2697.31473.0 | 3918.9915.2 | 4586.0823.7 | 4733.2741.3 | 4236.3667.2 | 3326.0600.5 |
| 西外窗 | 总负荷(W)F=54.16 | 2309.45485.1 | 1970.77860.7 | 1746.711310.7 | 1524.514265.7 | 1334.115698.0 | 1173.715695.4 | 2672.613513.7 | 3216.67064.1 | 3402.13750.5 | 4106.13293.0 | 4648.32913.1 | 5100.42575.8 |
| 传热负荷(W)K=3.90 | 348.51394.0 | 205.91520.7 | 158.41584.1 | 95.01568.2 | 47.51441.5 | 15.81378.1 | 110.91203.9 | 316.8982.1 | 570.3760.4 | 807.9601.9 | 1013.8491.1 | 1219.7396.0 |
| 日射得热(W)SC=0.75 | 1960.94091.1 | 1764.86340.0 | 1588.39726.6 | 1429.512697.5 | 1286.514256.5 | 1157.914317.3 | 2561.712309.9 | 2899.86082.0 | 2831.82990.1 | 3298.22691.1 | 3634.52422.0 | 3880.62179.8 |
| 北外窗 | 总负荷(W)F=187.46 | 5577.518469.3 | 4646.919187.9 | 4089.019479.6 | 3515.619039.8 | 3032.417487.6 | 2636.018808.4 | 9110.217856.3 | 11005.310805.6 | 10989.09297.4 | 13504.08082.5 | 15451.57098.8 | 17080.26229.9 |
| 传热负荷(W)K=3.90 | 1206.34825.1 | 712.85263.7 | 548.35483.1 | 329.05428.2 | 164.54989.6 | 54.84770.3 | 383.84167.1 | 1096.63399.5 | 1973.92631.9 | 2796.42083.6 | 3509.21699.8 | 4222.01370.8 |
| 日射得热(W)SC=0.75 | 4371.213644.2 | 3934.113924.1 | 3540.713996.5 | 3186.613611.6 | 2867.912498.1 | 2581.114038.1 | 8726.413689.2 | 9908.77406.1 | 9015.16665.5 | 10707.65999.0 | 11942.45399.1 | 12858.34859.2 |
| 挑空楼板 | F=2240.24K=1.18 D=2.15 | 17647.517552.1 | 16747.317360.2 | 16027.818854.0 | 15454.220077.2 | 14938.921107.5 | 14579.721986.5 | 13951.022515.3 | 13609.822760.7 | 13237.422502.9 | 12924.621609.3 | 12673.122599.8 | 17080.522494.5 |
| 新风 | 显热(W) | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 | 5574.75574.7 |
| 全热(W) | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 | 17638.217638.2 |
| 湿负荷(kg/h) | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 |
| 含新风全热冷负荷(W) | 7723597265 | 7384799656 | 70776104204 | 67865106446 | 65091106780 | 62761109217 | 73944107373 | 7775092635 | 7828887995 | 8304685686 | 8694785329 | 9440783619 |
| 含新风显热冷负荷(W) | 6517285202 | 6178487593 | 5871292141 | 5580194382 | 5302794717 | 5069897153 | 6188195310 | 6568780572 | 6622575932 | 7098273622 | 7488473265 | 8234471556 |
| 含新风湿负荷(kg/h) | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 | 16.7616.76 |
| 不含新风全热冷负荷(W) | 5959779627 | 5620982018 | 5313886566 | 5022688808 | 4745289142 | 4512391578 | 5630689735 | 6011274997 | 6065070357 | 6540768047 | 6930967691 | 7676965981 |
| 不含新风显热冷负荷(W) | 5959779627 | 5620982018 | 5313886566 | 5022688808 | 4745289142 | 4512391578 | 5630689735 | 6011274997 | 6065070357 | 6540768047 | 6930967691 | 7676965981 |
| 不含新风湿负荷(kg/h) | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 | 0.000.00 |