

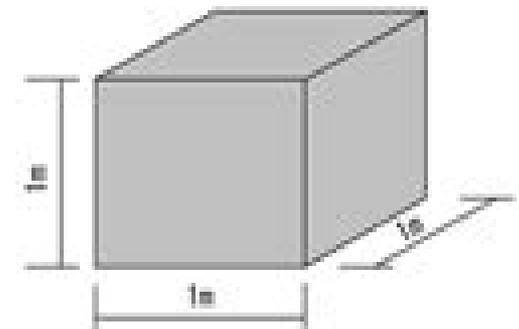
Basic heat load calculation for air-conditioning system

(3) How to calculate heat load

"Heat transfer load (2)"

Calculation example

Let's determine the heat transfer load of a cubic building surrounded by walls as shown in the drawing.



Coefficient of overall heat transfer : U-factor

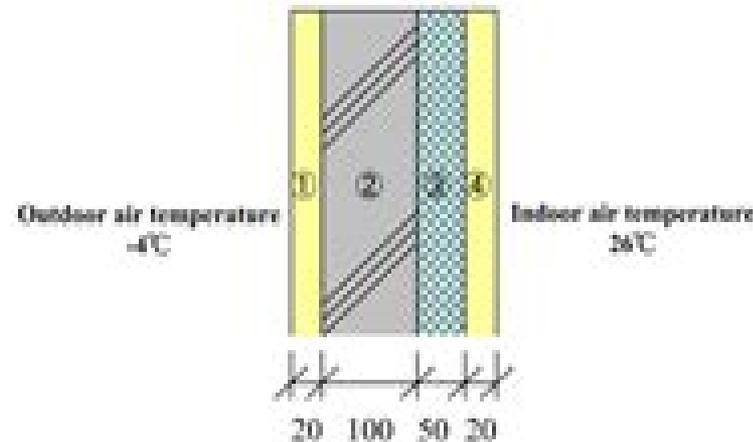
$$U = \frac{1}{\frac{1}{23} + \frac{0.02}{1.5} + \frac{0.1}{1.4} + \frac{0.05}{0.042} + \frac{0.02}{1.5} + \frac{1}{9}}$$
$$= 0.69 \quad [W / m^2 \cdot K]$$

Wall surface area : A

$$A = (1 \times 1) \times 6 = 6 \quad [m^2]$$

Heat transfer load : q_k

$$q_k = 0.69 \times 6m^2 \times \{26^\circ C - (-4)^\circ C\} = 124 \quad [W]$$



Wall materials

Material	Thickness (mm)	λ (W / m · K)
①. Mortar	20	1.5
②. Concrete	100	1.4
③. Glass wool 24K	50	0.042
④. Mortar	20	1.5

The heat transfer load can be reduced with the use of a material having a low thermal conductivity or thicker member.

Cooling Load Calculation And Design Of Air Conditioning

**Faye C. McQuiston, Jerald D.
Parker, Jeffrey D. Spitler**



Cooling Load Calculation And Design Of Air Conditioning:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Cooling Load Calculation And Design Of Air Conditioning**

In a global inundated with monitors and the cacophony of instantaneous interaction, the profound power and psychological resonance of verbal artistry often diminish in to obscurity, eclipsed by the continuous assault of noise and distractions. Yet, nestled within the musical pages of **Cooling Load Calculation And Design Of Air Conditioning**, a charming function of fictional brilliance that impulses with natural feelings, lies an remarkable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that interesting opus courses readers on an emotional odyssey, gently exposing the latent possible and profound affect stuck within the elaborate internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect its interesting writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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