



New light heating solutions

We are committed to reducing your heating energy consumption



The following is the energy consumption of two different households

| | | | | | |
|--|----------------------|--|--------------------|---|-------------------|
| | 170\$ | | 58.5kwh | 150m² | |
| | Monthly heating cost | | Daily heating cost | Three bedrooms | A family of three |
| | | | | Living with the elderly | |
| | | | | A family of three, living with the elderly | |
| | | | | During the day, the old man is at home, and the living room is used for 8 hours | |
| | | | | All bedrooms at night All three bedrooms are open | |

| | | | | | |
|--|----------------------|--|--------------------|---|--|
| | 37\$ | | 12.6kwh | 60m² One bedroom one living room | |
| | Monthly heating cost | | Daily heating cost | Live alone | |
| | | | | you live alone | |
| | | | | No one in the house during the day. All closed | |
| | | | | Lifestyle static separation | |
| | | | | District heating is used completely when people are at home | |

Electricity charges are calculated according to 0.1\$/KWH

Light heating, why more energy saving?



Water heating relies on hot water to transport heat, heating is slow, it is difficult to achieve individual control of each room. After installation, users often have a headache for the monthly cost of 2-3 thousand, or even higher. Therefore, some users choose to only open 1-2 rooms and have to endure the cold in other areas of the home. This will undoubtedly directly lead to a decline in the quality of life in winter.

LaminaHeat can make the heat evenly and quickly spread in the space, and minimize the loss of heat in the building body (such as the floor cement layer), so that the whole house can be heated within 30 minutes, almost on demand, which is the great change brought by all surface light heating for building heating.



This way, you can choose to turn off the heat in a room that is empty and turn it on again half an hour before people return to the room. The use of smart devices, according to the use of habits for intelligent timing to open and close, more worry!

At the same time, your heating energy consumption

It is deeply affected by the insulation efficiency of the house



We are committed to helping you save money on heating. Even so, the energy consumption figure is still strongly influenced by the insulation efficiency of the house. The following are national standard houses (which can represent the insulation level of new houses in most cities in China), houses with internal insulation, and low-energy houses. When the average outdoor temperature in winter is -2°C and the indoor temperature controller is set to 22°C , the energy consumption of the three houses is as follows:

If your home is a low-energy home, your energy bills will be well below average.

Ordinary House Use air heat pump for heating

Heating requirement **120KWH/m²*a**
The corresponding wattage requirements are **100 w/m²**

Ordinary House

Heating requirement **120KWH/m²*a**
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More insulated House

Install a certain amount of internal insulation
Heat demand attainment **59 w/m²**
53KWH/m²*a
The corresponding wattage requirements are

Low E House

Low energy housing heat demand
30KWH/m²*a
The corresponding wattage requirements are **35 w/m²**

60-120min
hot-start-up time

80%
Water heating Covered area

20-30min
hot-start-up time

35%
Heating film Coverage ratio

15-20min
hot-start-up time

23%
Heating film Coverage ratio

10-15min
hot-start-up time

18%
Heating film Coverage ratio

0.035kwh

3.5kwh

0.03kwh

3kwh

0.014kwh

1.4kwh

0.008kwh

0.8kwh

Per square meter Electricity per hour

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100 square meters Electricity per hour

105\$/mth

35kwh

87\$/mth

30kwh

40\$/mth

14kwh

23\$/mth

8kwh

Use it 10 hours a day For reference only, the air heat pump on the market is difficult to do only ten hours a day

100 square meters Daily electricity consumption

Use it 10 hours a day About the size of an average family The energy consumption of the partition

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100 square meters Daily electricity consumption

244\$/mth **84kwh**

209\$/mth

72kwh

78\$/mth

33.6mth

56\$/mth

19.2kwh

Open all day, air heat pump heating is a common way to use

100 square meters Daily electricity consumption

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Real-time data logging

Electricity charges are calculated according to 0.1\$/kwh

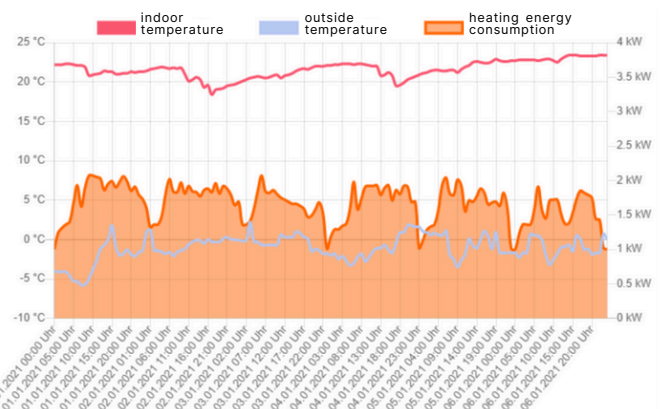
We obtained the consent of a customer to capture their household energy consumption data in real time, and recorded the real-time data monitoring for the week from January 1 to January 7, 2021, as shown in the figure.

Heating area **130m²**

The house is a KFW70 house with good thermal insulation conditions and is used 24 hours a day.

Outdoor mean average room condition **1.08°C**
23.54°C

Average daily power consumption **33.68kwh**
7 days of power consumption **235.77kwh**



Notice:

* In the general house insulation user habits, the heating system working process is the following cycle: high power rapid heating - low power low temperature maintenance - high power rapid heating, so the actual power consumption is only equivalent to 1/3-1/5 of the highest power.

* If the project is improperly designed or the user has abnormal habits (such as frequently opening Windows), the energy consumption value will increase accordingly.