

Install outdoor unit and indoor unit with one room what happens?

What happens when installing both the outdoor unit and the indoor unit of the air conditioner in the same room as this photo?

1. Decode strange symbols on air-conditioning controls
2. Why do fans in the US and European countries have 4.5 wings while fans in Vietnam only have 3 wings?
3. Serious mistakes when using air conditioning but many people still think right

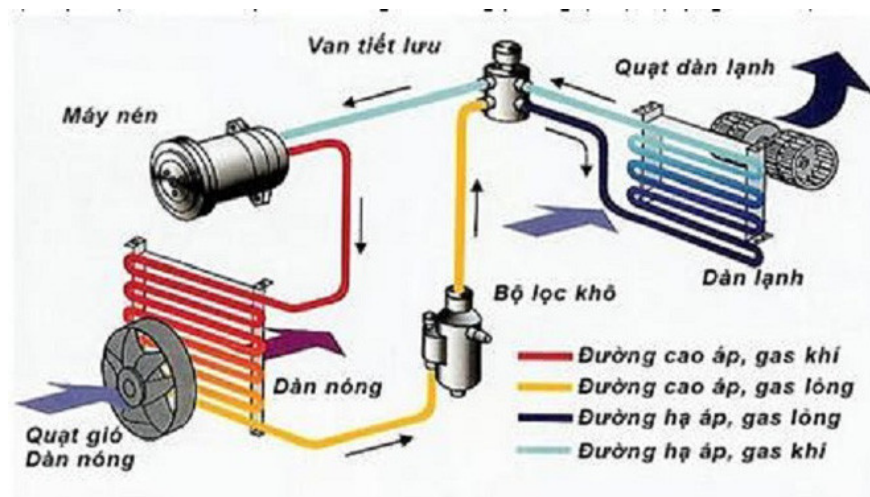
We often see air-conditioned outdoor units installed outside the room or hanging outside the window. And the indoor unit is of course placed in the room. But there are many cases of putting both outdoor units and indoor units in one room, this may sound strange and not real, but this is completely true.



Drilling the wall to mount the outdoor unit and then installing the insulation pipe, connecting the power cord like this is probably not a happy buying arrangement. So what would it be like to install both the outdoor unit and the indoor unit? In order to answer this question, let us learn a little bit about the principle of operation of air conditioner.



Air conditioning usually has two lumps, these two are familiar to us called outdoor units and indoor units. As usual, the outdoor unit will be placed outside and the indoor unit will enter the room.



Inside this indoor unit contains a recirculating system linked to the outdoor unit to evaporate a liquid chemical called cold gas, when the liquid is evaporated in the indoor unit at low temperature will collect the heat of the air in room. The heat in the room will lose heat and the temperature in the room will be lower. The steam formed by the evaporated cold station will follow the pipeline to the compressor's inlet and be compressed to high pressure and high temperature, then to the outdoor unit.

And the outdoor unit usually has a high temperature, so placing it outside will be easier for heat dissipation (this time the fan in the outdoor unit will blow away the heat to the outside), and some heat inside the frame will be lost. heat, condensing into water flowing through the capillary (or through the throttle valve), to lower the pressure and liquid temperature to low and then enter the indoor unit installed inside the room.



Thus, if following the principle that said, the outdoor unit of the air conditioner must be placed on the outside to push the hot air out, but not inside. If both the outdoor unit and the indoor unit are installed in the same room, it is very likely that at the beginning when it is turned on, it is cool for the indoor unit to cool, where the outdoor unit blows out is hot. However, after a while the room will become hot and hot because the cold air from the indoor unit blows out is not enough to neutralize the hot air flow from the outdoor unit.

The outdoor unit often has a very high temperature, plus the effect from the inner fan makes the air in the room become hot and hot, turning on the air conditioner but not hotter. Now imagine, your air conditioner will have to brace yourself to run at full capacity to cool the room, this will inevitably make your electricity meter turn around.



Back to the problem of installing both the indoor unit and the outdoor unit in the room like the photo above, perhaps the owner of this air conditioner had installed it himself and seemed to lack the understanding of the

principle of operation and did not read the direction book manufacturer's manual. The consequences of this will be evident when the air conditioner operates.

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