

Task #80626

When we blow air from our mouth on the lens of our spectacles we find water vapour condense over the glasses but one thing which is weird is that as soon as the water vapour comes on the lens it gets disappeared in few seconds. So why does that happen?

Solution.

The total amount of heat that is released in a heat-insulated system and the amount of heat (total), which is absorbed in this system:

$$Q_1 + Q_2 + \dots + Q_n = Q'_1 + Q'_2 + \dots + Q'_k$$

Answer:

Outside, the cold air blows the glass, the corresponding glass cools, and the interior is warm. Because the warm air in the passenger compartment comes into contact with the cold glass, then all the moisture in it is condensed on the glass. Moisture condensing on the glass takes away excess heat from the air and passes them to the glass and this will happen until the temperature is equalized between the glass and air or there is no moisture left in the air.

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