ANTI CONDENSATION LINEAR SLOTS DIFFUSER AND BAR GRILLE IN AIR CONDITIONER

This invention relates to a method and material for anti-condensation by temperature control in air conditioner. And then, the method is to have a structure in the air-conditioner's outlet with as follows:

a. 90% of Flame Retardant (WPC)Wood Plastic Composite which comprises :
   - about 35% to about 45% by weight wood powder compounds.
   - about 35% to about 45% by weight thermoplastic resin.
   - about 0.55 to about 15% by weight halogenated unsymmetrical higher alkyl bisphenoxy alkane compounds.
   - about 0.5% to about 10% by weight enhancing agent.

   And

b. 10% of Flame Retardant Rubber Insulation.
   -100 parts by weight of a synthetic rubber of polyolefin type.
   -10 to 40 parts by weight of an organopolysiloxane resin formed from monofuctional siloxane units represented by the formula R3SiO0.5, in which R is a hydrogen atom, a substituted or unsubsituted monovalent hydrocarbon group, and tetrafunctional siloxane units of the formula SiO2 in a molar ratio in the range from 0.6/1.0 to 2.0/1.0.
   - from 5 to 30 parts by weight of aluminium hydroxide or magnesium hydroxide.

Instead of the normal material of 98% aluminium and 2% metal

The methodmothod and material could be used to control the temperatura difference between the air -conditioner's outside and inside to anti-condense the water into water drops in the outlet's of air-conditoner.

The method and material has the feature such as reducing the temperature difference which causes deposition of moisture. This invention can reduct the surface temperatura difference dramatically, for example, the outside temperature is between 25 to 28degrees, the temperature of the air-conditioner is 16 degrees, the condensation will appear due to the air outlet of the air-conditioner will be controlled between 21 to 23 degrees by using the invention's method and material, which close to the outside temperature, the water condensation will be avoided.

EmbodimentsThe main object of this invention seekis to provides a solution to solve all condensation problem on air-conditiner's grilles and diffusers permanently.

An aspect of the present invention provides an air-conditioner outlet comprising: a structure forming the air-conditioner outlet, the structure being formed from a material comprising Flame Retardant Wood Plastic Composite (WPC) and Flame Retardant Rubber Insulation, wherein the composition of the material is controlled to control a difference between an air-conditioner outlet temperature and an outside temperature.

There is also provided a method for preventing condensation on an outlet of an air conditioner, comprising installing an air-conditioner outlet as described above.

Accordingly, this invention provides a material with special surface for moisture condensation in the outlet of air-conditioner.

Another feature is that the material is durable, no destroy in the long working period and anti -fire permanently.