

The invention relates to the field of industrial, agricultural and civil constructions, in particular to the cooling of buildings by means of facades and roofs, and can be used in the construction of new buildings and in the reconstruction of previously exploited structures. The building cooling process comprises ventilation of the building fence through the channels between the outer covering and the heat insulation layer, wherein cooling of the air is realized by spraying water into the cold and moist air channels, formed by the cooled surface of the building and the surface of the heat insulation layer, with the intake into the warm and moist air channels, formed by the wall of the outer covering and the other surface of the heat insulation layer, and adjustment of the cross-sectional area of the channels.

The building cooling device, in the form of a ventilated facade, comprises cold and moist air channels (1) and warm and moist air channels (2), which are connected to each other, forming a passage at one end of the facade. The cold and moist air channels (1) are formed by the vapor barrier surface (3) of the building wall (4) and one surface of the heat insulation layer (5). The warm and moist air channels (2) are formed by the surface of the outer covering (6) of the building and the other surface of the heat insulation layer (5). At the other end of the facade, cold and moist air channels (1) and warm and moist air channels (2) are equipped with airflow monitoring devices. Cold and moist air channels (1) are equipped with water sprayers (11).

Claims: 5

Fig.: 11

