

Method and device for cooling rooms

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Summary

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The invention relates to a method and a device for cooling rooms, where hot air is cooled in the upper section of a flow duct serving as a fall shaft and then at least partly flows downwards through the flow duct as a result of the change in its specific weight owing to its gravity. In such gravity cooling devices, the heat exchanger is usually operated with a cooling agent whose temperature is above the dew-point temperature of the room to be cooled. This avoids a high level of condensate formation and an excessively high vertical temperature difference in the room to be cooled. However, in warmer latitudes, it is desirable to reduce the atmospheric humidity in order to generate a comfortable room climate. The invention thus proposes cooling the hot air to below the dew point and reheating it before or upon entry into the room to be cooled.

This Sheet Has Been Replaced

