

Title (en)
Fan-heater unit

Title (de)
Heizlüfter

Title (fr)
Appareil de chauffage à ventilateur

Publication
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Application
EP 97102626 A 19970219

Priority
IT PN960013 U 19960304

Abstract (en)
The invention refers to a so-called fan-heater unit, adapted to be included in an apparatus such as a fan-assisted or forced-convection food cooking oven for catering or commercial applications. The unit comprises at least a tangential-type fan (32) mounted with its shaft extending vertically and supported at both its ends by rolling-type journal bearings (44, 46). An electric motor (38), a driving belt (35), driving and driven pulleys (39 and 37, resp.) are used to drive the fan. The main feature of the invention is that the journal bearings (44, 46) are housed in the walls of channels (53, 61), through which a flow of cooling air taken in from the outside ambient is caused to pass. In a preferred manner, the same walls (53, 61) are also the walls of other channels (57, 65) through which cooling air taken in from the outside ambient is caused to flow as well. Even the driving belt (35) and the pulleys (37, 39) are preferably immersed in the flow of cooling air. Advantages: Possibility for moving parts, in particular standard-type rolling journal bearings to be used, without this impairing reliability to any extent. <IMAGE>

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