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(54) Title: AIR DIRECTING ASSEMBLY FOR A ROOM AIR CONDITIONER

(57) Abstract

According to the present invention, an air directing housing is provided for an air conditioning unit (10) of the type having a basepan which supports indoor and outdoor sections (4, 6). The basepan includes a vertical wall (26) extending upwardly for a part of the height of the unit to define a lower portion of a partition which separates the unit into the indoor and outdoor sections. The indoor section includes an evaporator (32) disposed in the basepan generally forwardly of the partition. A centrifugal fan (34) is mounted between the evaporator coil (32) and the vertical wall (26) for rotation about an axis extending from front to back of the air conditioning unit. The fan is a centrifugal flow fan which has a circular inlet at the front thereof. The air directing housing (38) is adapted to be mounted in the basepan rearwardly of the evaporator coil (32) and surrounding the fan. The housing includes a lower section (52) having a front wall which has a circular opening formed therein which is substantially coextensive with the circular inlet of the fan. The lower section (52) also includes an interior scroll section for receiving the fan, and an open back. The air directing housing further includes an upper section (54) defining an enclosed top structure for cooperation with the upper discharge structure of the lower section to define the air discharge opening of the air conditioner. The upper section (54) further includes a rear wall having a lower edge adapted to engage the vertically extending wall of the basepan to define the upper portion of the partition. As a result, when the lower and upper air directing housing sections are installed in the housing, they cooperate with one another, the basepan, and the vertically extending wall to define the fan housing, the air intake and air discharge of the air conditioner.

