

ABSTRACT**INDOOR AIR-CONDITIONING UNIT WITH MULTIPLE AIR INTAKE INLETS**

An indoor air-conditioning unit (100) for delivering cool air to a top portion of an interior of a building structure includes a chassis body (102) having a front portion (136), a back portion (138), a top portion (140), a bottom portion (142) and side portions (144). A first suction inlet (104) having a number of louvers (106) are provided at the bottom portion (142), a second suction inlet (108) with an adjustable louver (126) provided at the front portion (136), a third suction inlet (110) is provided at the top portion (140) of the chassis body (102) and fourth suction inlets (128) are provided at the side portions (144) of the chassis body (102) for the purpose of receiving air from the surroundings. The chassis body (102) further includes a heat exchanger unit (112) having a front heat exchanger (114) and a rear heat exchanger (116) for cooling the air received through the suction inlets. The chassis body (102) also includes, a first air guider (120) and a second guider (122) positioned to guide the airflow within the chassis body (102). A cross flow fan (124) positioned within the chassis body (102) blows the cold air through an adjustable vane (118) on the top front portion (136) of the chassis body (102). The adjustable vane (118) directs the cold air towards a top area of the interior of the building structure and enables uniform and efficient cooling of the area.

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Most illustrative figure: **FIG. 1**