

Title (en)  
FRONT SUCTION/DISCHARGE TYPE OUTDOOR UNIT FOR AIR CONDITIONER

Title (de)  
VORDERE ANSAUG/AUSSTOSS-AUSSENEINHEIT FÜR EINE KLIMAANLAGE

Title (fr)  
UNITE FRONTALE EXTERIEURE DE TYPE ASPIRATION-REFOULEMENT POUR CLIMATISEUR

Publication  
**EP 1611397 B1 20090909 (EN)**

Application  
**EP 04720538 A 20040313**

Priority  
• KR 2004000533 W 20040313  
• KR 20030016309 A 20030315

Abstract (en)  
[origin: WO2004083734A2] The present invention relates to a front suction/discharge type outdoor unit for an air conditioner including: an outdoor unit casing having a front surface unit opened to be linked to the outside of a building, both side units formed at both ends of the front surface unit, a rear surface unit formed to face the front surface unit, a bottom surface unit formed at the lower ends of the front surface unit, the both side units and the rear surface unit, and a top surface unit formed at the upper ends of the front surface unit, the both side units and the rear surface unit; a compressor for compressing a refrigerant gas supplied from an indoor unit to the outdoor unit casing; a cooling fan installed in the outdoor unit casing, for sucking outdoor air through the front surface unit, and discharging heat-exchanged air to the outside of the building through the front surface unit; and an air-cooled condenser installed into outdoor unit casing, for condensing the refrigerant gas supplied from the compressor by exchanging heat between the refrigerant gas and outdoor air sucked by the cooling fan. The condenser is divided into a first area relatively adjacent to the cooling fan and a second area relatively far from the cooling fan, and a heat exchange quantity is larger in the first area than in the second area.

IPC 8 full level  
**F24F 5/00** (2006.01); **F24F 1/00** (2011.01); **F24F 13/20** (2006.01)

CPC (source: EP KR)  
**F24F 1/16** (2013.01 - EP); **F24F 1/18** (2013.01 - EP); **F24F 1/52** (2013.01 - EP); **F24F 1/56** (2013.01 - EP); **F24F 5/00** (2013.01 - KR)

Citation (examination)  
• JP H03213928 A 19910919 - MITSUBISHI ELECTRIC CORP  
• KR 20020039485 A 20020527 - SEO JONG DAE [KR]

Cited by  
EP2884211A4

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 2004083734 A2 20040930; WO 2004083734 A3 20051013**; CN 2669054 Y 20050105; DE 602004023064 D1 20091022; EP 1611397 A2 20060104; EP 1611397 B1 20090909; KR 20030036366 A 20030509; KR 20050012223 A 20050131

DOCDB simple family (application)  
**KR 2004000533 W 20040313**; CN 200320131557 U 20031230; DE 602004023064 T 20040313; EP 04720538 A 20040313; KR 20030016309 A 20030315; KR 20047010299 A 20040628