

Title (en)
Outdoor Unit for Multi-Air Conditioner

Title (de)
Außeneinheit für eine Mehrzonenklimaanlage

Title (fr)
Unité extérieure pour climatiseur multiple

Publication
EP 1978315 A2 20081008 (EN)

Application
EP 07120875 A 20071116

Priority
KR 20070034425 A 20070406

Abstract (en)
An outdoor unit (10) applicable to not only a multi-air conditioner to perform heating and cooling operations simultaneously, but also a multi-air conditioner to perform a heating operation and a cooling operation separately. The outdoor unit (10) includes a compressor (11), an outdoor heat exchanger (12), first to third connecting valves (21-23) connected to pipes of a plurality of indoor units, respectively, a first 4-way valve (15) connected to a discharge side of the compressor for conversion of heating and cooling operations, a high-pressure gas pipe (26) to connect the first 4-way valve with the first connecting valve (21), a high-pressure liquid pipe (28) to connect the second connecting valve (22) with the outdoor heat exchanger (12), a first connecting pipe (24) to connect the outdoor heat exchanger (12) with the first 4-way valve (15), a second connecting pipe (25) to connect the first 4-way valve to a suction side of the compressor, and a low-pressure gas pipe (27) to guide a low-pressure gas refrigerant returned to the third connecting valve to the suction side of the compressor, and further includes a second 4-way valve (16) to convert a flow path so as to communicate the high-pressure gas pipe (26) with the third connecting valve (23) or to communicate the low-pressure gas pipe (27) with the third connecting valve (23).

IPC 8 full level
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CPC (source: EP KR)
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Cited by
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