

Title (en)  
Modular ventilation system

Title (de)  
Modulares Lüftungssystem

Title (fr)  
Système modulaire de ventilation

Publication  
**EP 2840325 A1 20150225 (EN)**

Application  
**EP 14460050 A 20140818**

Priority  
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Abstract (en)  
The invention relates to a modular ventilation system designed for mechanical ventilation of single-family houses, office buildings, public buildings, commercial buildings, industrial buildings, hospitals and the like, and to modules that enable assembling any supply and exhaust ventilation system with heat recovery. In the system according to the invention the runs of flexible ventilation ducts consisting of sections of flexible tubes ( R ) include basic modules ( 1 ) which constitute plenum boxes, and segment modules ( 1.1 ) connected to the basic modules ( 1 ), wherein the assembly of the basic module ( 1 ) with at least one segment module ( 1.1 ) forms a multichannel module constituting an air manifold. Modules ( 1 ) and ( 1.1 ) are in the form of rectangular boxes the shorter side walls of which are provided with openings ( 2 ) for supply and exhaust connector pipes ( 3 ), whereas on the longer sides of the boxes ( 1 ) and ( 1.1 ), near their upper and lower edges, bolts ( 4 ) are located near one of the edges. Gaps ( 5 ) for receiving the bolts of adjacent module and/or of capping cover ( 6 ) are located near the opposite edges. Openings ( 2 ) for receiving connector pipes ( 3 ) in both the shorter side walls of the boxes ( 1 ) and ( 1.1 ), as well as in the capping covers ( 6 ) are dephased to enable bayonet mounting of the connector pipes ( 3 ) in the openings ( 2 ) by rotating them by half a turn. Each of the openings ( 2 ) may also be blanked with a cap ( 7 ) mounted in the same manner as the connector pipe ( 3 ) by rotating it by half a turn. One of the wider walls of the basic module ( 1 ) is provided with a dephased opening ( 8 ) for connecting thereto a supply connector pipe ( 9 ) of larger diameter. Optionally, air guide vanes ( k ) are installed inside modules ( 1 ) and ( 1.1 ), said guide vanes having the form of a flexible rectangular membrane.

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