



*FAN AIR MODULE
FAM 1500 - 48 VDC*



Fig. 1 - Ceiling application of FAM 1500

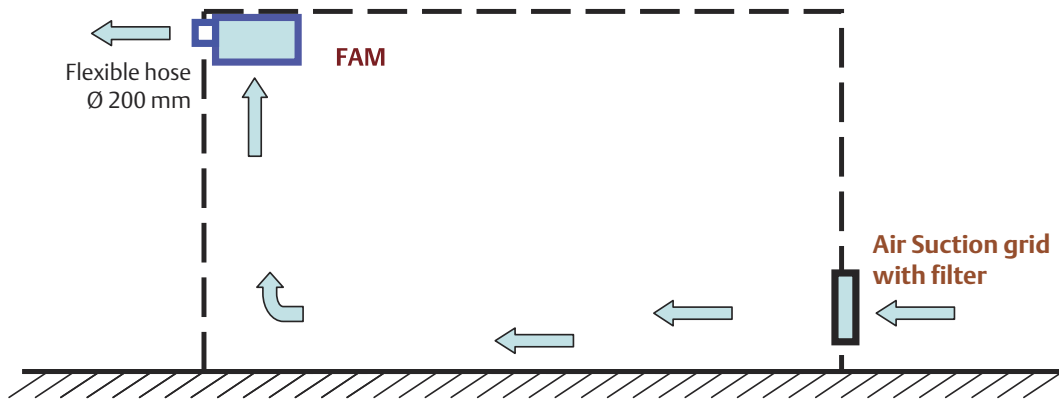
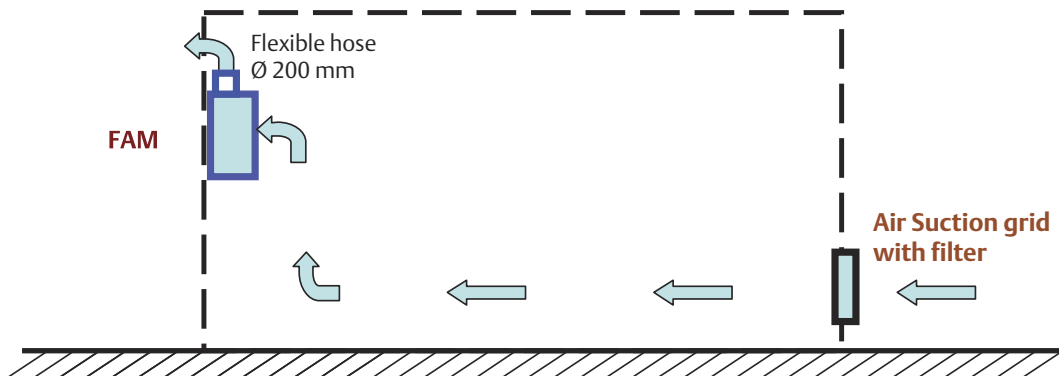


Fig. 2 - Wall application of FAM 1500



Installation and connections

The FAM module could be installed:

- A) **on the ceiling** of the room (in vertical position, Fig. 1a - 3) using the base frame fixing holes.
Note: Do not fix the Module at light walls, generally not suitable to static and dynamic functioning of the FAM module.
- B) **on an external wall** of the room (in vertical position, Fig. 1a - 3) using the base frame fixing holes.
Note: Do not fix the Module at light walls, generally not suitable to static and dynamic functioning of the FAM module.

Description of FAM 1500 - 48 VDC

The module is made by a steel box (410x350xh220 mm), stove varnished, that includes:

- a) **Axial fan**, directly coupled to a variable speed motor, with different air flows and head pressure (see TAB.1). His motor is equipped with internal thermal relay, with automatic reset, that intervenes in case of electrical or mechanical troubles.
- b) **Internal screw terminals** to supply FAN at 48 VDC + earth.
- c) **Fan continuous speed regulator**, 0-10 VDC (but, in TAB. 1, we can see 4 situations only: low, medium, high and maximum speed).
- d) **Air discharge flange**, with net, suitable for 200 mm diameter flexible duct.

Optional: Air grid with filter, EU2 efficiency, that provides - continuously and in proper way - to clean the new air to be mixed with the air present in the conditioned room.

TECHNICAL CHARACTERISTICS OF FAM 1500 - 48 VDC

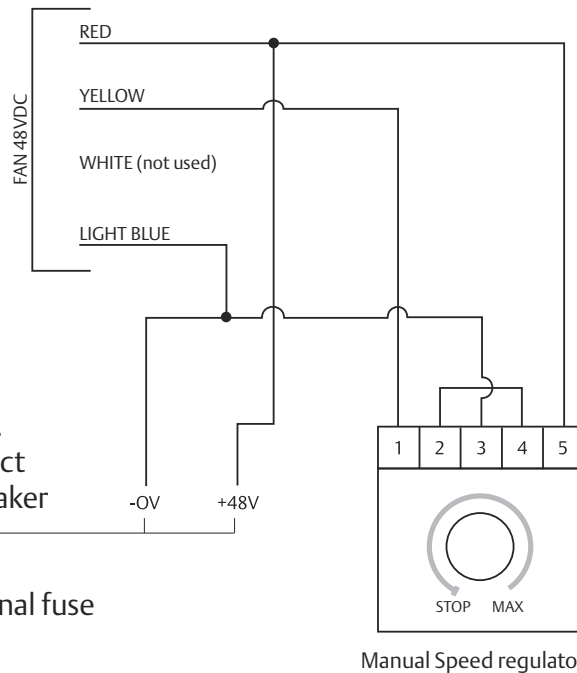
Characteristics	Unit of measure	Value
Air flow (at 21 °C, density = 1.2 kg/m ³)	m ³ /h	1500 (nominal)
Air outlet connection flange (for flexible hose)	mm	200
Fan	N°	1
Electric Supply (VDC +/- 10%) (EN 60204 - 1)	V	48
Max Operative Power input	W	102
Max Electric absorption FLA	A	2,6
FAM Module protection (net)	mm	net 10x10
Weight (included air filter)	kg	8
Limits of use	-20°C ÷ +40°C	

TECHNICAL CHARACTERISTICS OF THE FAM AT 48 VDC

Characteristics (air at 21 °C)	High prevalence	Medium prevalence	Medium-low prevalence	Low prevalence
Static head pressure (mm H ₂ O / Pa)	20,4 / 200	16,3 / 160	10,2 / 100	6,1 / 60
Air flow Q [m ³ /h]	700	1100	1500	1700
Revolution per minute [RPM]	1350	1320	1360	1410
Absorption [A]	2,53	2,60	2,52	2,43
Power absorbed [W]	101	102	100	98

OPTIONAL

Electrical diagram
FAM 1500 - 48 VDC



Power provided by the user.
It is recommended to protect
the FAM with adequate breaker

Note: The speed regulator
is protected by an eernal fuse

Fan speed Regulator



Fan speed regulator

At the potentiometric
command for adjusting
voltage is slaved a switch
which stops the power.
With a trimmer you can
adjust the minimum value
the speed or power.
The trimmer is accessible
from the outside,
with screwdriver.

FAN SPEED REGULATOR

Connection V+ / V-			
Voltage	V+ / V-	36 ÷ 52 VDC	
Connection IN / V-			
Minimum (*)	V _{MIN}	0 ÷ 5 VDC	
Regulation Voltage (*)	IN / V-	V _{MIN} ÷ 10 VDC	
Output impedance	R _{IN}	5 kOhm max	
STOP function		Opened	

(*) NOTE

Voltage value are referred to no load present to IN / V-