



**VENTILATED FLOOR GRID
FAM 3000 PV - 48 VDC**



Fig. 1 - Typical application of FAM 3000 PV

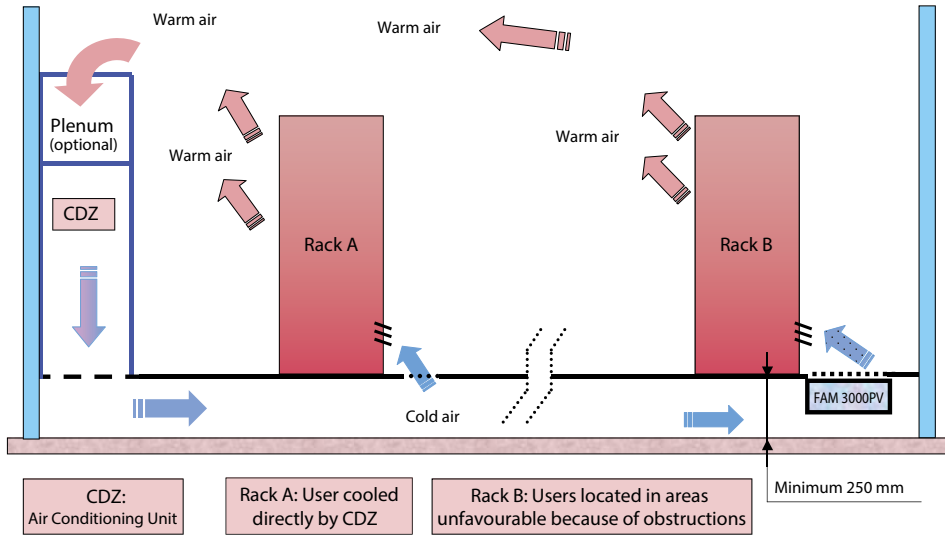


Fig. 2 - Layout of Mobile Room - Air Circuit

Example: application of n° 5 Unit FAM 3000PV, installed under the raised floor.
 N.B. Quantity and position of Grilles and FAM must be defined in the design phase, as a function of required air flow.

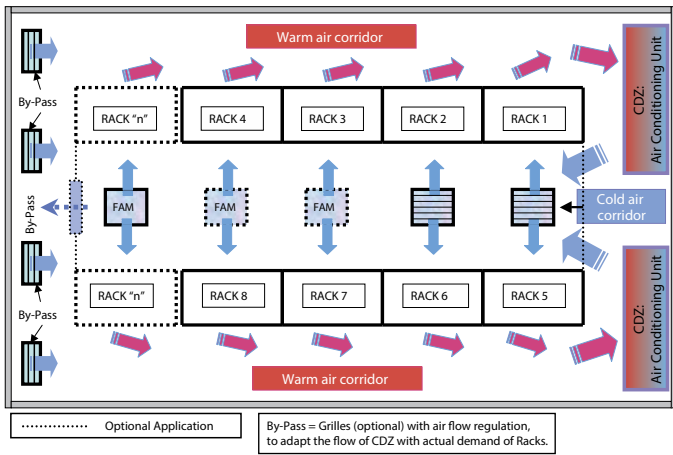


Fig. 3a - Layout of FAM electrical connections with Potentiometer

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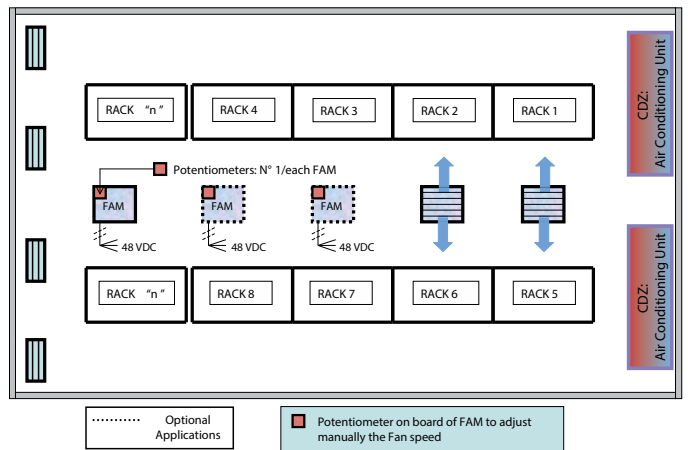


Fig. 3a - Layout of FAM electrical connections with Microprocessor

(Interconnections with modulating signal 0 - 10 VDC to regulate the fan speed)

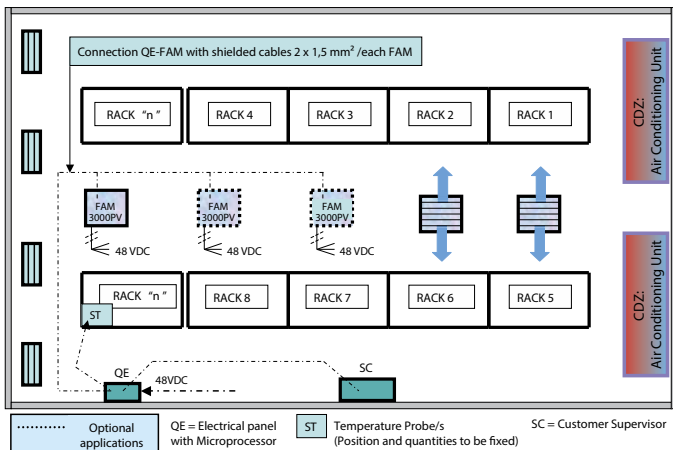
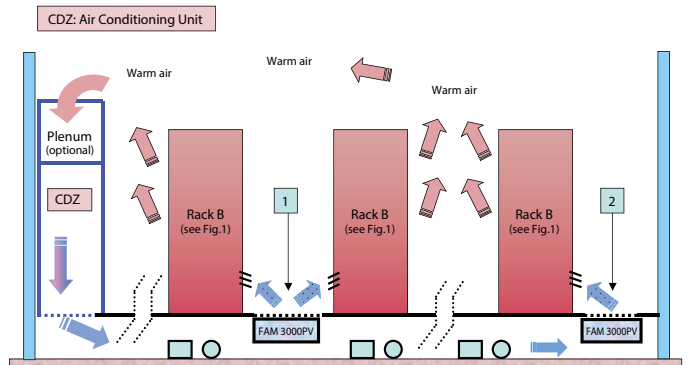


Fig. 4 - Different grilles application for FAM 3000 PV



Installation and connections

The module is placed always under a raised floor in a horizontal position. The air, supplied by the air conditioner (Fig. 1 and 4) after being treated, is conveyed under floor and, by the FAM, to the Users (Racks)

Description of FAM 3000 PV

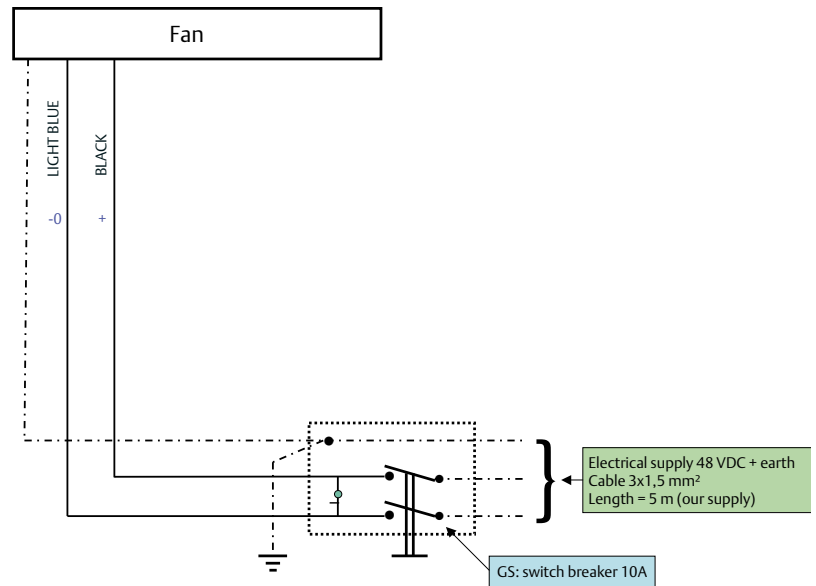
The module is made by a structure of sheet steel, oven painted that includes:

- Axial fan**, directly coupled to a variable speed motor (0-10 VDC) to obtain heads and flow rates suitable for the application in place. It is equipped with internal thermal protection, with automatic reset, that intervenes in case of malfunctions of ventilator.
- Air supply** through grilles placed above the safety net fixed to the FAN.
- Air intake**, through perforated protective plate located under the FAN.

TECHNICAL CHARACTERISTICS OF FAM 3000 PV - 48 VDC

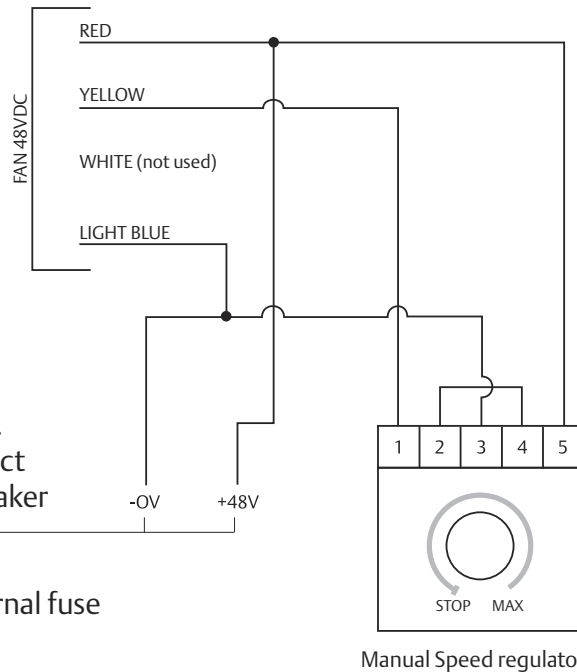
Characteristics	Unit of measure	Value
Nominal Air flow (at 21 °C, density = 1.2 kg/m ³)	m ³ / h	3000
Fan speed at nominal air flow	rpm	1830
Available head pressure at nominal air flow	Pa	100
Axial Fan	N°	1
Electric Supply (VAC +/- 10%) (EN 60204 - 1)	VDC	48
Control of: Speed / Head pressure / Air flow	VDC	36 - 57
Max Operative Power input (at 3000 mc/h - 190 Pa)	W	80
Max Electric absorption FLA (at 3000 mc/h - 190 Pa)	A	1,9
Weight (without grilles)	kg	18,5
Limits of use: Temp. (with protection IP 44)	min. - max.°C	-25 °C /+60 °C

Electrical Diagram FAM 3000PV / 48-VDC + earth



OPTIONAL

Electrical diagram
FAM 3000 - 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-