



**VENTILATED FLOOR GRID
FAM 4000PV - 230 VAC**

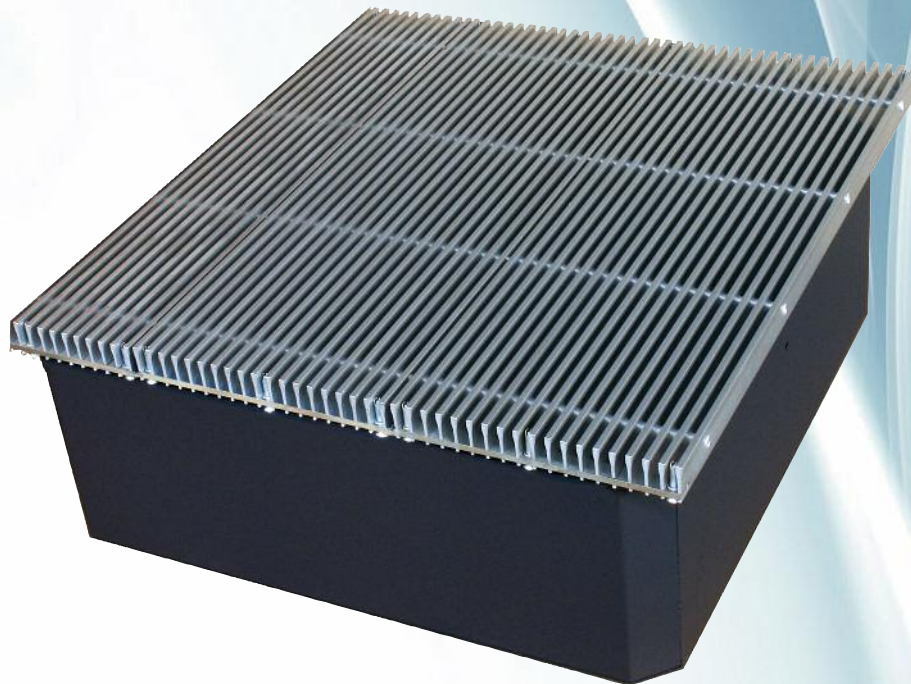


Fig. 1 - Typical application of FAM 4000 PV

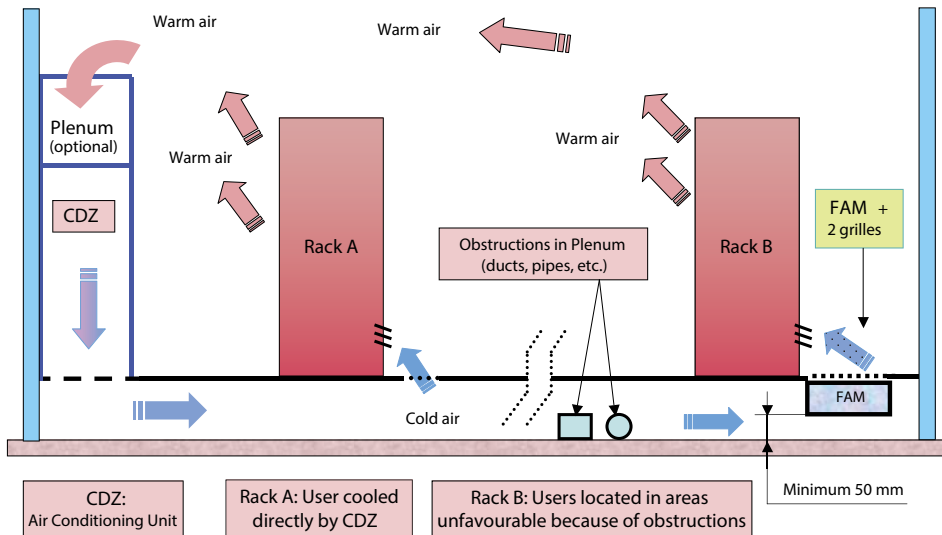


Fig. 2 - Layout of Mobile Room - Air Circuit

Example: application of n° 5 Unit FAM 4000PV, 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.

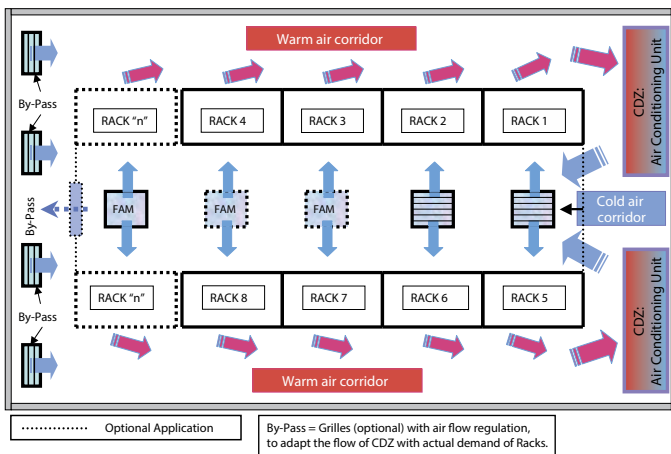


Fig. 3a - Layout of FAM electrical connections with Potentiometer

Example: application of n° 5 Unit FAM 3000PV, installed under the raised floor.
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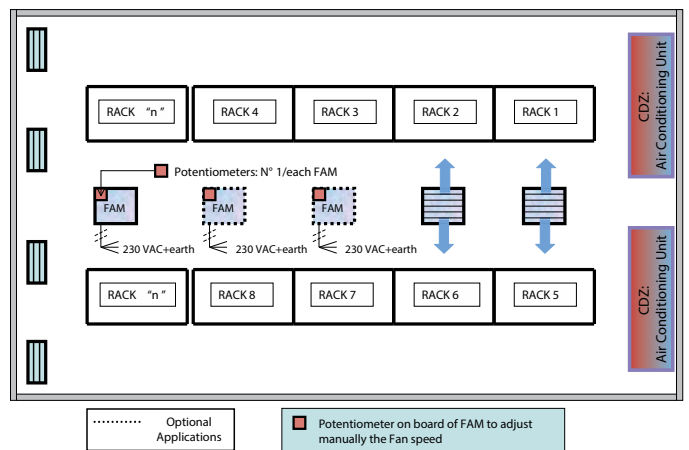


Fig. 3a - Layout of FAM electrical connections with Microprocessor

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

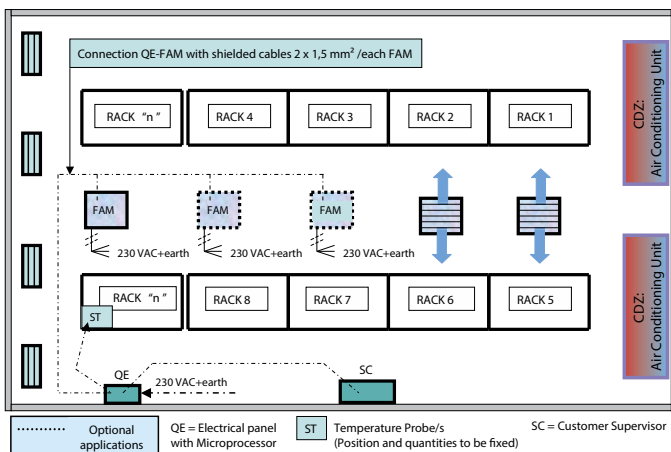
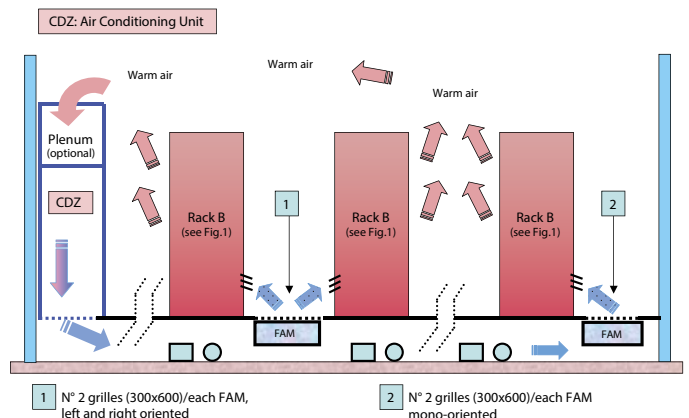
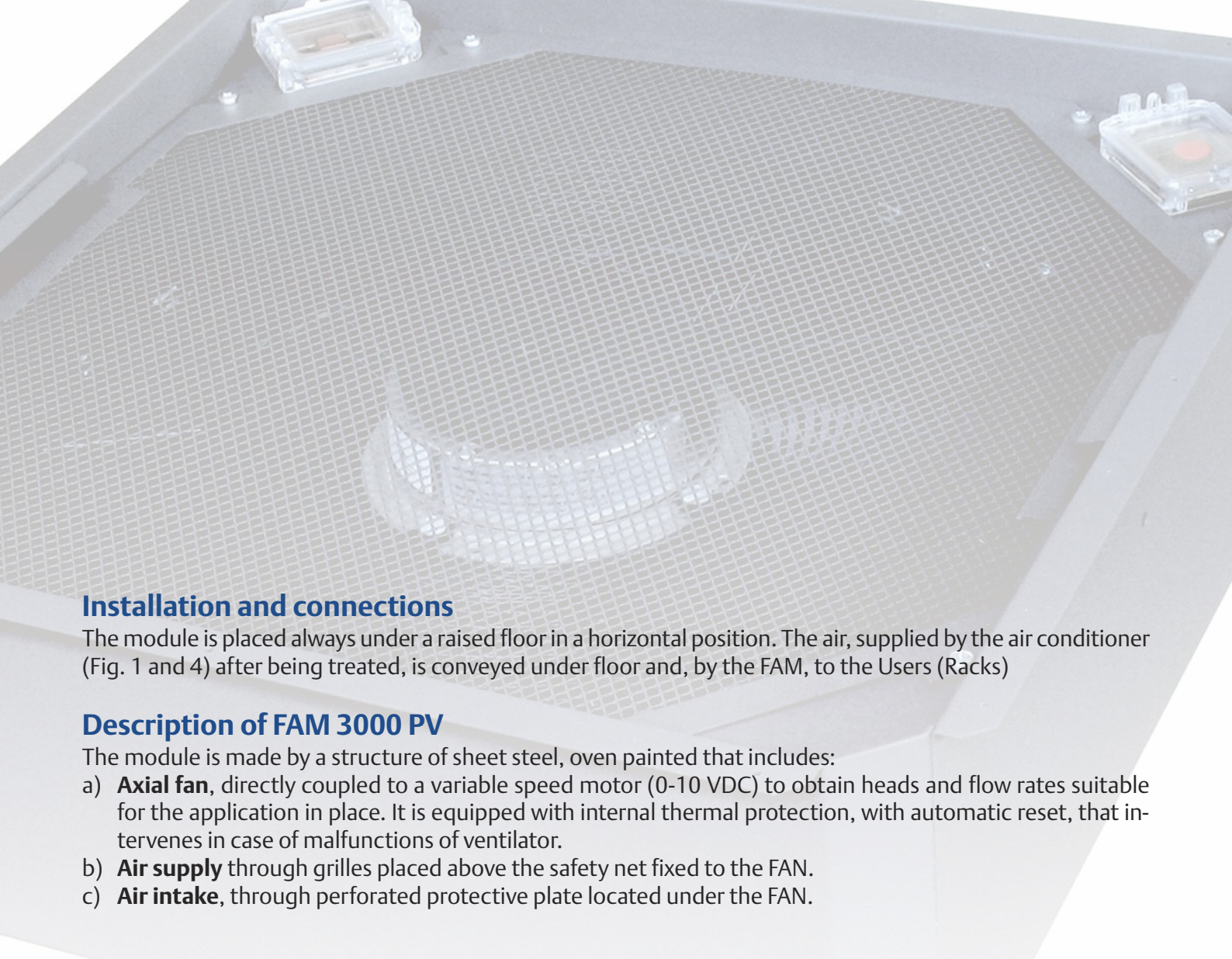


Fig. 4 - Different grilles application for FAM 4000 PV





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:

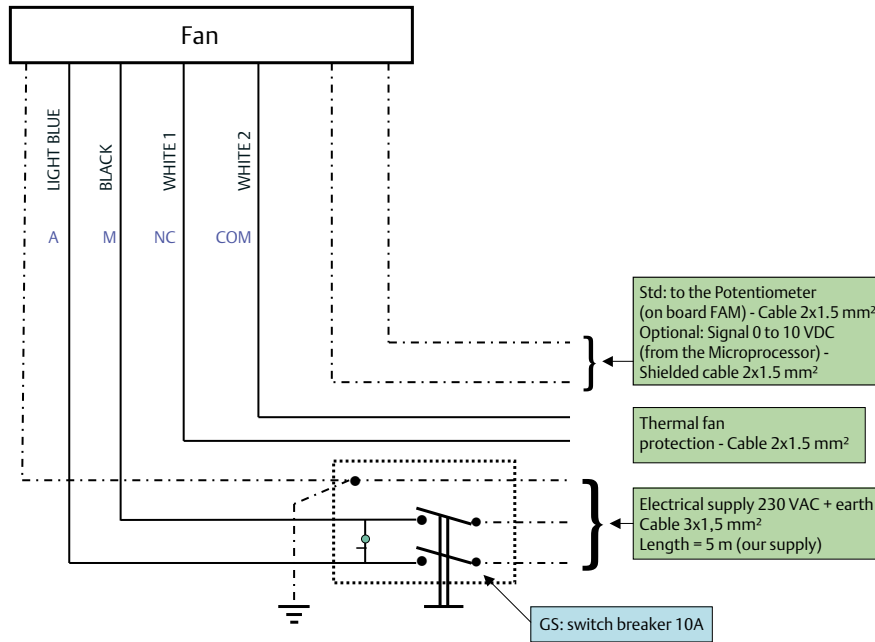
- a) **Axial fan**, directly coupled to a variable speed motor (0-10 VDC) to obtain heads and flow rates suitable for the application in place. It is equipped with internal thermal protection, with automatic reset, that intervenes in case of malfunctions of ventilator.
- b) **Air supply** through grilles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

TECHNICAL CHARACTERISTICS OF FAM 4000 PV - 230 VAC

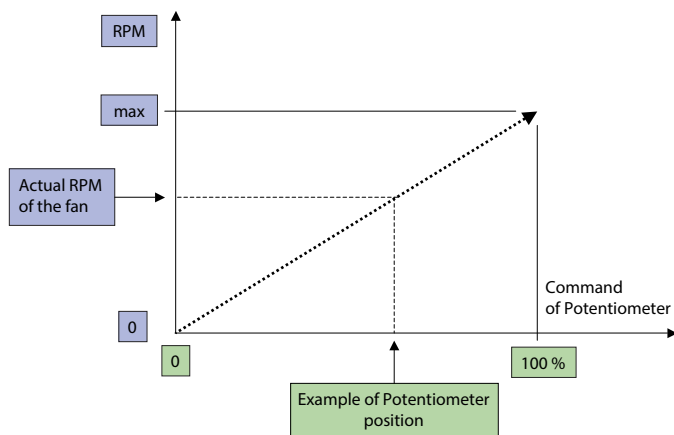
Characteristics	Unit of measure	Value
Nominal Air flow (at 21 °C, density = 1.2 kg/m ³)	m ³ / h	4000
Fan speed at nominal air flow	rpm	1300
Available head pressure at nominal air flow	Pa	50
Axial Fan	N°	1
Electric Supply (VAC +/- 10%) (EN 60204 - 1)	V / Ph / Hz	230 / 1 / 50-60
Control of: Speed / Head pressure / Air flow	VDC	0 -10 (*)
Max Operative Power input (at 3000 mc/h - 190 Pa)	W	390
Max Electric absorption FLA (at 3000 mc/h - 190 Pa)	A	2,5
FAM module sizes (a x b x h)	mm	595 x 595 x h 200
Weight (without grilles)	kg	18,5
Limits of use: Temp. (with protection IP 44)	min. - max.°C	-20 °C /+50 °C

(*) With the Potentiometer on board, or with an external Microprocessor (optional)

Electrical Diagram FAM 4000PV / 230-1 ~50-60 Hz + earth

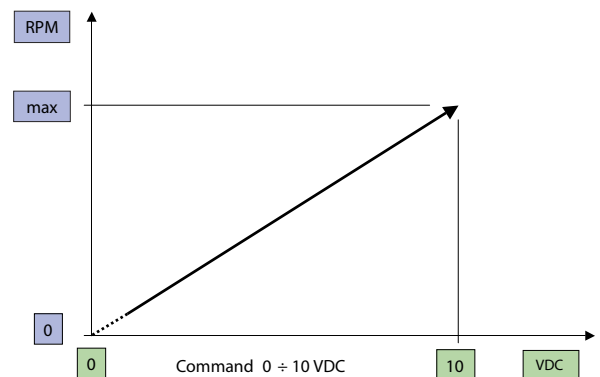


Fan manual speed regulation via Potentiometer on board FAM



Note: the Potentiometer on board FAM lets you choose the most appropriate speed (and thus the air flow) of the fan, to meet the user requirements. This allows, in while, also saving energy.

Fan modulating speed regulation (optional) via Microprocessor, signal 0 to 10 VDC



Note: the Microprocessor signal varies as a function demand environment, ie the deviation between the set temperature and the actual temperature detected by the sensor ST (Fig. 3b and Fig. 6a). This allows an optimization of fan speed (and Airflow), getting at the same time also an energy saving.