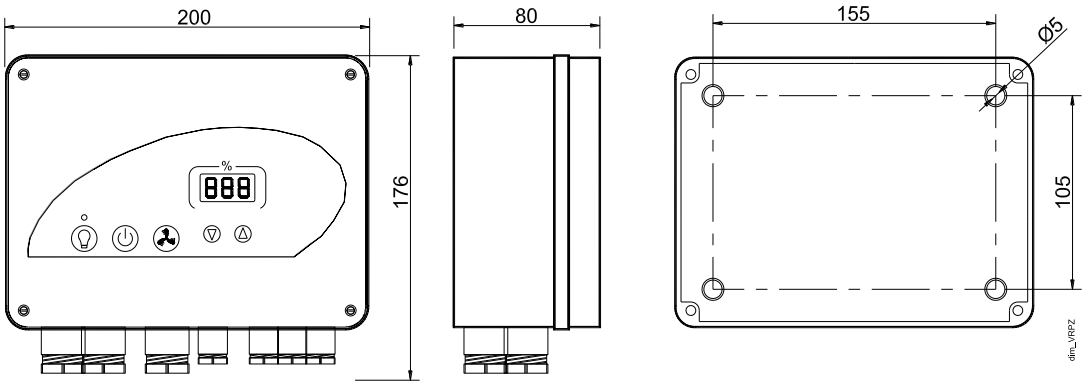
Technical manual

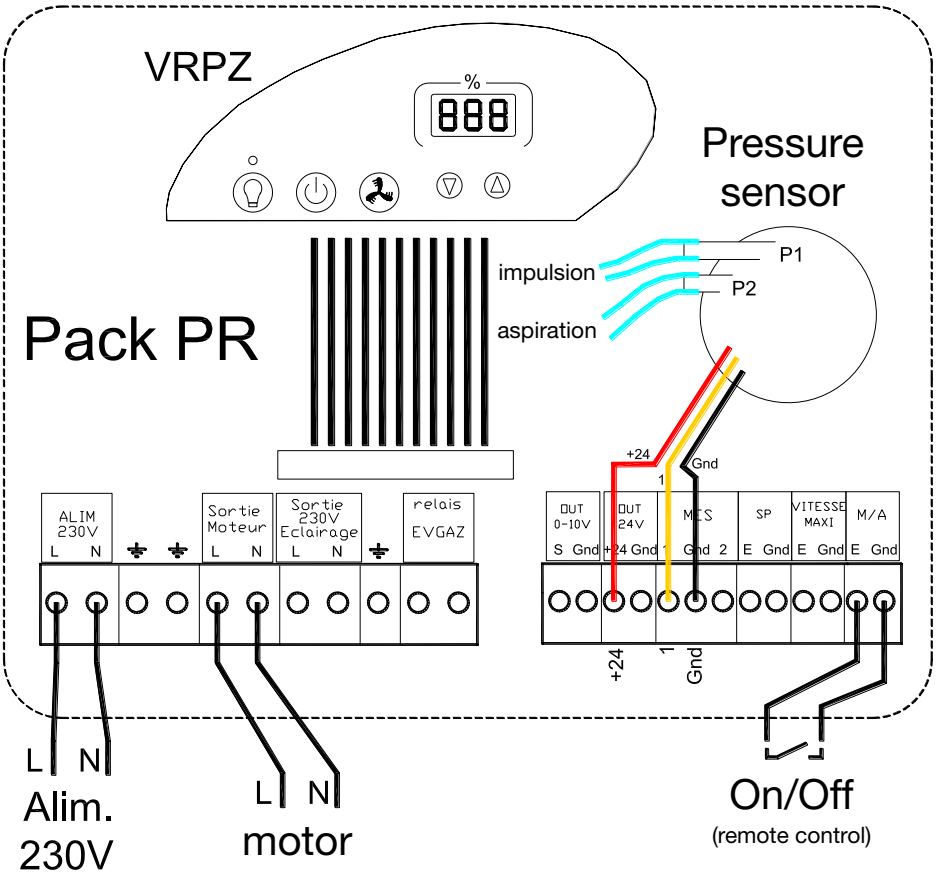
Pack PR

Specific case of application of VRPZ to the control function
(see the full features and functionality in the VRPZ instructions)

1. DIMENSIONS (dimensions in mm)



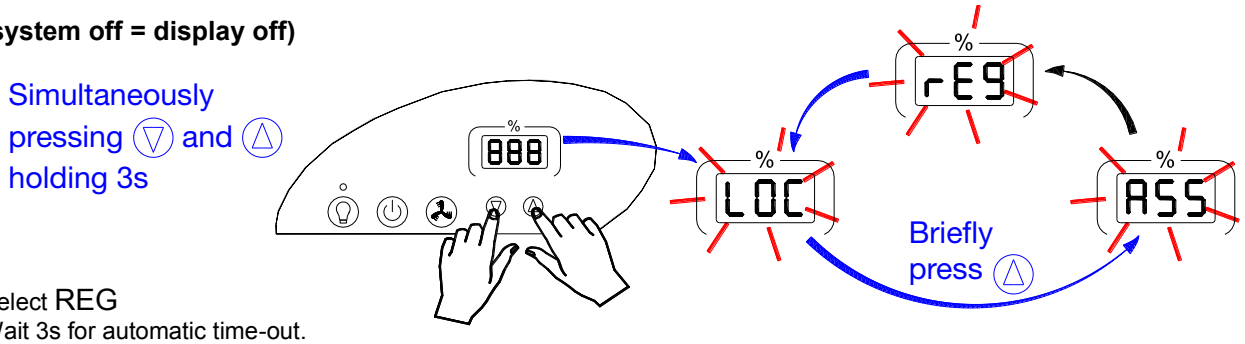
2. CONNECTION OVERVIEW



POWER: single phase voltage 220-240Vac + earth ; Frequency = 50/60Hz +/-2Hz.
! WARNING ! : FRAGILE EQUIPMENT, HANDLE WITH CAUTION
Maintain compliance with NF C 15-100. Do not forget to connect the earth! The installation must be protected upstream by a suitable magneto-thermal circuit breaker (all pole disconnection with minimum contact gap distance of 3 mm).
MOTOR USED: single-phase asynchronous squirrel cage accepting voltage variations.

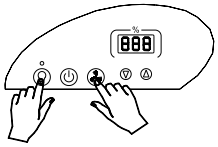
3. SELECTION OF OPERATING MODE

(system off = display off)



Select REG
Wait 3s for automatic time-out.
Note: This setting is saved in memory during a power failure to variator.

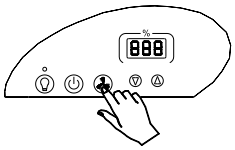
4. ACCES TO PARAMETERS AND CHANGES



Ventilation stopped (display off) :

. Simultaneously pressing « lighting on/off » and « boost ventilation » for 3s

. Select settings by briefly pressing « boost ventilation »



Setting	Meaning	Range of settings	Factory value**
P	Proportional action	0 to 99	4
I	Integral action	0 to 99	40
n	Smin en % = value of output voltage for Emin	5 to 69	30*
N	Smax en % = value of output voltage for Emax	70 to 99	99
P	Emin en %	0 to 98	0
E	Emax en %	(e+1) to 99	99
ES	Type of sensor connected to measurement input MES	0 to 7	0
SP	Type of external setting signal	0 (voltage) or 1 (current)	0
CO	Type of setting input	E (external) or I (internal)	I
t	Temp upon opening s of the « top speed » input	0 to 99	1

** **WARNING: do not go below this value without first contacting our after sales service***
WARNING **: Do not change without first contacting our after sales service

Change the setting value by pressing △ ou ▽ confirm the setting by briefly pressing « boost ventilation ».

Control via digital remote control:
Turn on / off of the ventilation by pressing briefly on the "ventilation on / off" button.

Control via external control or "remote control":
Turn on / off of the ventilation by pressing the "on / off" button briefly.
. open circuit between the two terminals => stop
. circuit closed => on.

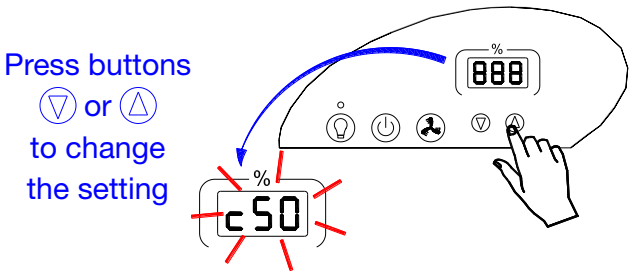
Upon startup, display shows "REG" for 10s (= during motor start, indicating the selected operating mode) and indication of the% value of the motor speed which automatically varies within the display range 30-100% depending on the "MES" input (factory setting) and setting (setting on the keypad).

Ventilation on (display on):

Acces setting « setting » by pressing △ for 3s => « C » flashes:

Setting	Meaning	Range of settings	Factory value
C	Setting value	0 to 99 (en % de l'entrée)	30

Control value:



The value to enter depends on the sensor range,
refer to the correlation table below:

Sensor 300Pa	0	38	75	113	150	188	225	263	300
Sensor 800Pa	0	100	200	300	400	500	600	700	800
Input	C5	C10	c15	C20	C25	C30	C35	C40	C45

(The pressure sensors deliver an output voltage of 0.5-4.5V in the measurement range of 0-300Pa or 0-800Pa depending on model)
Wait 10s for the automatic setting output.

Motor voltage output :

Factory values (+/- 20V) for a supply voltage of 230V : n = 30% => **Smin # 110V** ; N = 99% => **Smax # 230V**
With a indication Smin < Smax supply voltage of the inverter
Note: these values depend on the motor connected, verify by measuring the setting made once.
The setting of n and N is available to the user, who can observe the speed vary in the range of 30-100% on the display.
Example: n = 50% and N = 80% then:
when the display is set to 30%, the output voltage applied corresponds to n and so # 150V
when the display is set to 100%, the output voltage applied corresponds to N and so # 200V

WARNING! The installation of this device, the settings and any intervention should be performed by a qualified electrician, according to the state of the art, installation standards and safety regulations in force (NF C 15-100, etc.); it must conform to the requirements for EMVG and LVD.
Before powering up, check that the supply voltage matches the indications on the machine: the connection of a different voltage can lead its destruction.
Given that this equipment is to be incorporated into an installation, compliance of the whole must be declared by the final fitter.
Do not modify the factory wiring. Maintain compliance with installation plans and connections recommended by the manufacturer. Contact our after sales service department before any modification of installation or wiring.
The motor and other accessories required must be grounded through this product.
The electrical signals from this unit should not be used for any purpose other than described in this notice, failure to follow this instruction may have serious consequences for the operator and / or equipment.
Emergency stops must be installed on any machine where needed.
Disconnect, lock and signpost the power before any intervention (installation operations and maintenance) performed by authorised personnel (isolator switch defined according to IEC947-3/695-2-1).
Even when this product is cut off from power, it may contain hazardous voltage levels from external control circuits: **Beware! Do not touch live parts: this can be lethal!**
An electrical connection not consistent with the diagram described in this notice and / or installation regulations in force invalidates our warranty contract.

Treatment of the product at the end of useful life:
To contribute to environmental protection and optimization of natural resources, this product should be recycled at the end of its useful life. It should not be dumped in a landfill or processed as household waste but must be deposited in a collection point for recycling electrical and electronic equipment. For further information about recycling of this product, please contact: the ADEME (Agency for Environment and Energy Control) or equivalent in your area, your consular chamber (CCI or Chamber of Trade and Crafts), your municipality, your waste authority.
Note: to the extent that the equipment sold is professional electrical and electronic equipment covered by Decree No.2005-829 of 20 July 2005 implementing Directive 2002/96/EC of 27 January 2003, it is agreed that the possessor of this equipment will, unless otherwise agreed, fund and organize its waste disposal under the conditions defined in Articles 21 and 22 of the Decree.

Note: to the extent that the equipment sold is professional electrical and electronic equipment covered by Decree No.2005-829 of 20 July 2005 implementing Directive 2002/96/EC of 27 January 2003, it is agreed that the possessor of this equipment will, unless otherwise agreed, fund and organize its waste disposal under the conditions defined in Articles 21 and 22 of the Decree