

About PVE

PVE Europe is the European headquarters of Pneumatic Vacuum Elevators LLC, the designer and manufacturer of pneumatic vacuum elevators based in Medley, FL, USA.

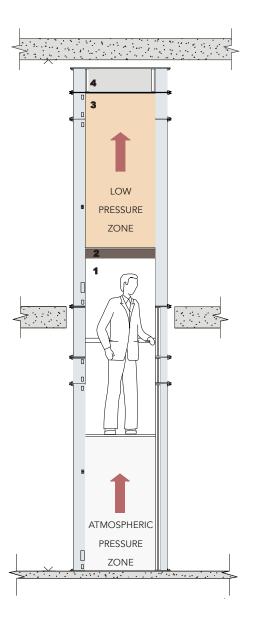
We are an innovative, technology-based company that has revolutionized how people and goods may be vertically transported within residential, marine and stage environments.

Founded in 2002, in Miami, Florida, the Company proudly manufactures three versions of its vacuum elevators, ranging from single to a three-passenger, wheelchair-accessible model.

PVE maintains an expanding network of more than 160 authorized dealers with 7,000+ units installed worldwide.



- 1. ATMOSPHERIC PRESSURE ZONE
- 2. CABIN SEAL
- 3. LOW PRESSURE ZONE
- 4. VACUUM PUMP



Operation

It is the pumps or turbines of the vacuum that pull you up to the next floor, and the slow release of air pressure that floats you down.

This self supporting vacuum elevator can operate up to 15m or five stops, with no pit or hoist-way required.

There are three main parts to this transparent vacuum elevator:

- 1. The outside tube which is made up of an aluminum frame and polycarbonate walls.
- 2. The steel cabin including brakes and safety mechanisms.
- 3. The upper Control Compartment, which houses the motors and the controller board.

Vacuum Motor Configurations

Head Unit - Standard

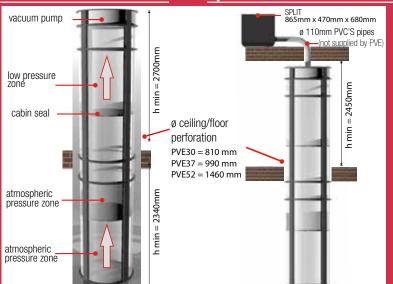
In the head unit configuration, the vacuum system is located directly on top of the upper floor vertical cylinder of the pneumatic vacuum elevator.

The electrical control panel is inside, and the only installation requirements are to connect to a 220v outlet near the machinery.

This format is best in homes that have sufficient height on the top floor.

(Minimum height for installation 2700mm)

Split Unit Model



In the split unit configuration, the vacuum system is located in a split box that can be installed at a distance of 10 meters from the top of the elevator.

The split system piping is connected to the top of the cylinder via two 110mm diameter PVC pipes.

This format is required when the height of the top floor is less than 2700mm.

(Minimum height for installation 2450mm)

* Technical data subject to change. PVE reserves the right to change the information in this document without prior notice. Information contained herein is the property of Pneumatic Vacuum Elevators Llc. No reproduction or disclosure of this information may be made by the recipient to any person or organization without the written consent of Pneumatic Vacuum Elevators Llc.



Benefits



Minimum work. No pit or machine room required.



Easy, quick and clean installation within 1-2 days



Vacuum Technology



220Volt single phase



Absolute Safety



Machinery Directive 2006/42/EC



ECO-Friendly. powered by AIR



Panoramic and round desing. 360° visibility



Minimal Maintenance



Full Space. Maximum exploitation from space available

Two, three, four and five stops (15m total rise)



No pit or machine room

The pneumatic vacuum elevator is the only domestic lift that is installed directly on the existing floor home. Not even a minimum pit is required.

Cost-effective approach

Cost-effective approach for elevator installation. Ideal for new and existing homes due to the minimal space required to accommodate the elevator.

Unique design

Fully transparent and panoramic view without cables or pistons that block vision.

Absolute Safety

In case of a power failure since the moving car automatically descends to the lowest level and the electro-mechanical door will open to let the passenger out.

Options & Up	ogrades	THIII		PVE 30	PVE 37	PVE 52
Colours:						
- Navy Gray (Standard)						
- White (Standard)						<i>\</i>
- Black (Special)						
- Light Gray (Special)						
- Taupe (Special)						
Door Openings Configuration:	Ground Floor	Upper floor(s)				
- In Line 0°	9	9		✓	✓	~
- Opposite 180°	9	8	Possibility of alternating orientation between floors	×	✓	~
- 90° Right	9		All upper floor doors must be same side as one	×	~	×
- 90° Left	9	\bigcirc	another.	×	✓	×
Cabin upgrades				- Z	<u>J</u>	- Z
- Car key lock - Foldable car seat				• • • • • • • • • • • • • • • • • • •		
		Available	Not Available	^	V	^

Technical Specifications



PVE30 **PVE**37 **PVE**52 General (* Technical data subject to change. PVE reserves the right to change the information in this document without prior notice). Minimum overhead clearance: **Mechanical Requirements** Cabin Entrance width opening 508 mm 521 mm 813 mm Internal cabin diameter: - between columns 560 mm 750 mm 1090 mm Automatic LED lighting and cabin fan From inside the cabin, all doors are hinged on top Left Left Left Left Push button call controls with precise leveling at each landing. Alarm buttom included. Touch type Automatic Automatic Automatic Automatic Safety Overload relief valve 2 years 2 years

CE Certified by the Liftinstituut. Machinery Directive 2006/42/EC

Installation Requirements



1. Mini	mum height required at the ground floor:	 2340 mm	 2340 mm	 2340 mm	١
	mum height required at the upper floor:				
	- Head Unit				
	- Split Unit	 2450 mm	 2450 mm	 2450 mm	١
3. Diar	neter of finished through floor hole must be:				
4. In no	case must the perforation of the ceiling be less than (from the wall)	 120 mm	 120 mm	 150 mm	١
Whe	n installing a 3 or 4 floor elevator, all openings' circular perforations should be perfectly aligned.				
5. Bott	om level floor must be 100% level as elevator rests on existing floor	 <u> </u>	 <u> </u>	 🔨 🚹	
6. The	re must be an opening to make way for the cylinders of (check the measure) in diameter and of				
2340	Omm length down to the ground floor. This access may be through door or window openings.				
	- Cylinder diameter	 800 mm	 950 mm	 1350 mm	١
	- Cylinder length	 2340 mm	 2340 mm	 2340 mm	١
	all a hook at the ceiling where the elevator is to be installed to lift the cylinders. If it is impossible to				
install this ho	ook, the minimum height at the last level shall be at least 2700mm. Weight to bear	 500 kg	 500 kg	 800 kg	
ELECTRIC	AL AL				
8. Sing	le phase through an independent line. The electric feed shall be	 220 V	 220 V	 220 V	
9. Excl	usive ground connection for the elevator mo-magnetic switch	 <u> </u>	 <u> </u>	 🗸	
10. Ther	mo-magnetic switch	 25 A	 32 A	 35 A	

- Head Unit: to be near the head (elevator's top portion)

- Split Unit: to be near the PVE Control Panel

Telephone connection to be near the electrical power supply



Essential for proper installation.



NOTICE. Important requirement

²²⁰VAC (no exceptions 220VAC must be provided, 210VAC or 230VAC is not acceptable, if installation does not have 220VAC on a regular basis, a voltage regulator or transformer must be installed by home owner). Voltage fluctuations are not covered by the warranty.



11. 12.

13.

Electrical supply location

When installing the elevator, consider the total dimensions, as a small room will generate a higher noise level. Therefore, it is not advisable to install the split motor in a very small facility.

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Installation Requirements



In addition to all the points before, when the installation is SPLIT unit configuration:

- 14. Minimum required height at the upper floor:
 - Split format
- 15. Required space for remote location of split unit in attic or adjacent closet Split:
- 17. Split unit connections require two 110mm PVC pipes to run the distance from the top of the upper floor cylinder split plate to the remote location of the split unit.

ELECTRICAL

The same as the head unit vacuum motor configuration, plus:



The split should be located in a safe, accessible and properly lit in order to to facilitate future revisions by maintenance company, installer or manufacturer.



Air supply to split unit has to be drawn from interior of residence (proper housing of split unit and air duct to interior of home required)

PVE30 **PVE**37 **PVE**52

The requirements are the same for the three models

2450 mm
'
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*





Essential for proper installation.

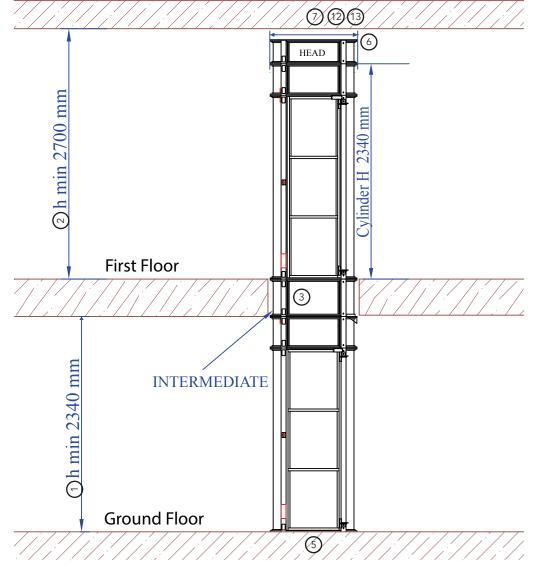


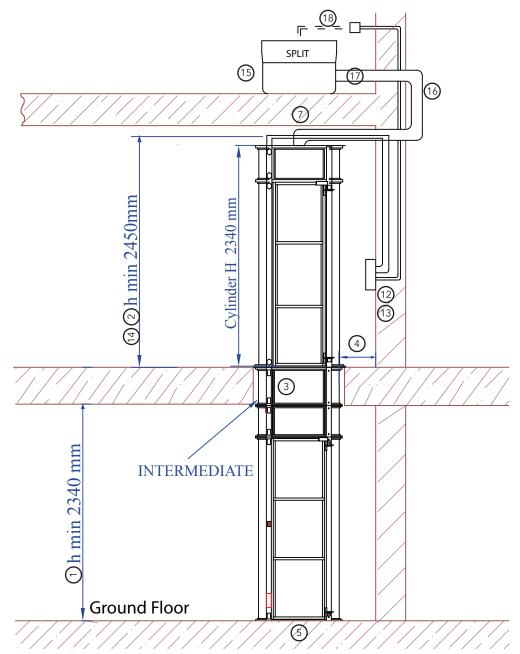
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Typical Setups

Example of Installation: head format (left) and split format (right). Installation Requirements marked with numbers.





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