# AK LIFTING SOLUTIONS

## A WORK OF ART. POWERED BY AIR®

pve® pneumatic vacuum elevators

**Authorized Dealer: For Guwahati and NESA**
**Office No.: 9551066669, 04442836196**

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# FOUNDED IN 2002

Pneumatic Vacuum Elevators, LLC (PVE) is the inventor and sole manufacturer of the world's only Air-Driven Home Elevator, the Pneumatic Elevator.

Powered by the most abundant resource in the world, AIR, Pneumatic Elevators are innovative, space-saving home lift solutions that have revolutionized the way people and goods are transported vertically inside their homes.

Using Pneumatic Technology® to generate lift, these self-supporting, panoramic elevators smoothly move between floors while requiring much less space, energy & maintenance when compared to traditional elevators.

With three models to choose from, ranging from a single passenger to a three passenger wheelchair-accessible model, Pneumatic Elevators simply rest on the existing ground floor, offering an ease of installation while providing an aesthetically pleasing solution for both retro-fit & new construction projects.

Manufactured in Miami, Florida, USA, PVE is an innovative, technology driven company that thinks outside of the box, having our customers always in mind and our engineering capabilities second to none.

Utilizing materials and components of the highest quality available, Pneumatic Elevators unique design is based around our patented technology and PVE is proud to manufacture fully certified, safe and reliable home elevators for use worldwide.

With manufacturing facilities in Argentina, Spain and India, PVE has over 20,000 successful installations worldwide in over 100 countries. Partnered with authorized distributors across the globe, PVE ensures all end users the best quality of installation and service for their home elevators.

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# INNOVATIVE SOLUTION

By using Pneumatic Technology® to generate areas of higher and lower pressure within the cylinder hoistway, Pneumatic Elevators combine a vertical cylinder with a fully enclosed car that smoothly moves up and down through air suction and gravity.

**What advantages do Pneumatic Elevators offer?**

Not requiring a pre-construction shaft, pit or machine room, Pneumatic Elevators simply rest on the existing ground floor, offering more flexibility of installation while optimizing space within the home.

With minimal pre-construction requirements, Pneumatic Elevators are quick & easy to install with installations being completed in as little as 2 - 3 days.

A plug & play system requiring a 220 volt power supply, these eco-friendly elevators utilize very few moving parts during operation and have minimal maintenance requirements with no harmful oils, gases or lubricants utilized for operation.

Certified for up to 5 stops or 50 feet in total rise, Pneumatic Elevators are custom built to the height of each home with three different sizes available to meet your projects spatial and installation requirements.

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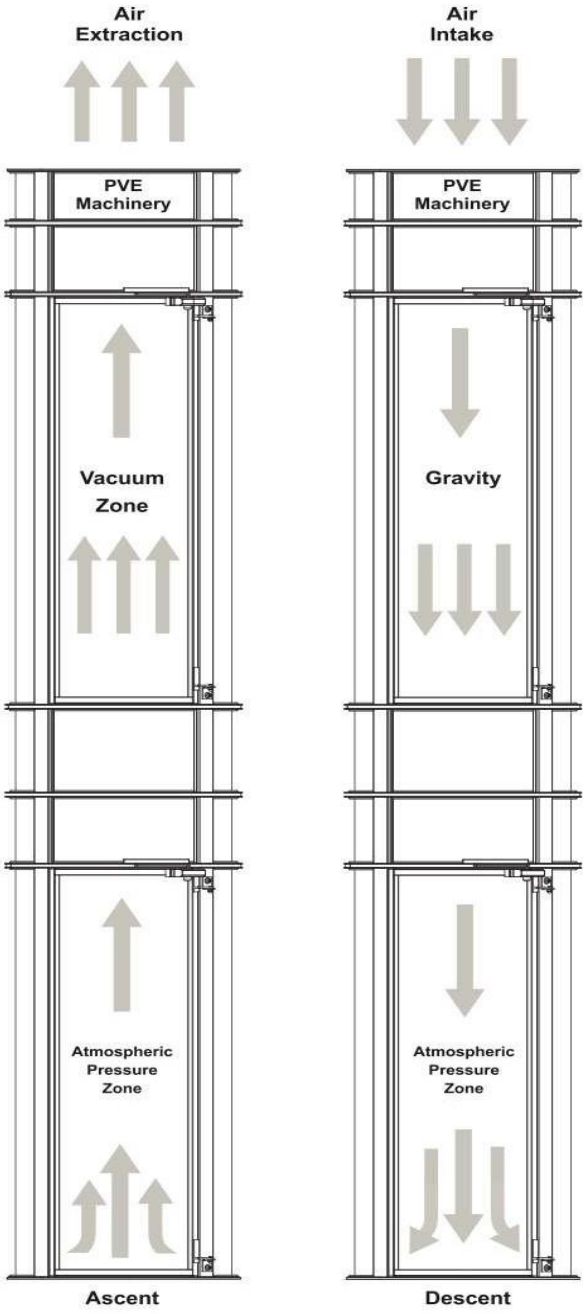
### *System of Operation For The Pneumatic Elevator*

*1. During ascent, the system extracts air from the top, creating a vacuum that makes the elevator car go upwards.*

*2. For descent, the intake of air is controlled, causing the car to smoothly move downwards due to gravity.*

*Pneumatic Technology® simplifies the operation while reducing wear and tear of components: a smooth, safe & reliable system.*




## Components

*There are three main components to the transparent, self-supporting Pneumatic Elevator:*

**Exterior Cylinder** - Made up of an aluminum frame and polycarbonate panels that offers panoramic visibility.

**Elevator Car** - Fully welded and enclosed cabin made of steel, which houses the brake and safety mechanisms along with the proprietary seal located on top of the car.

**PVE Machinery** - Installed on top of the upper floor cylinder or remotely located. Houses the turbine motors, valves and PVE controller used to operate the elevator.



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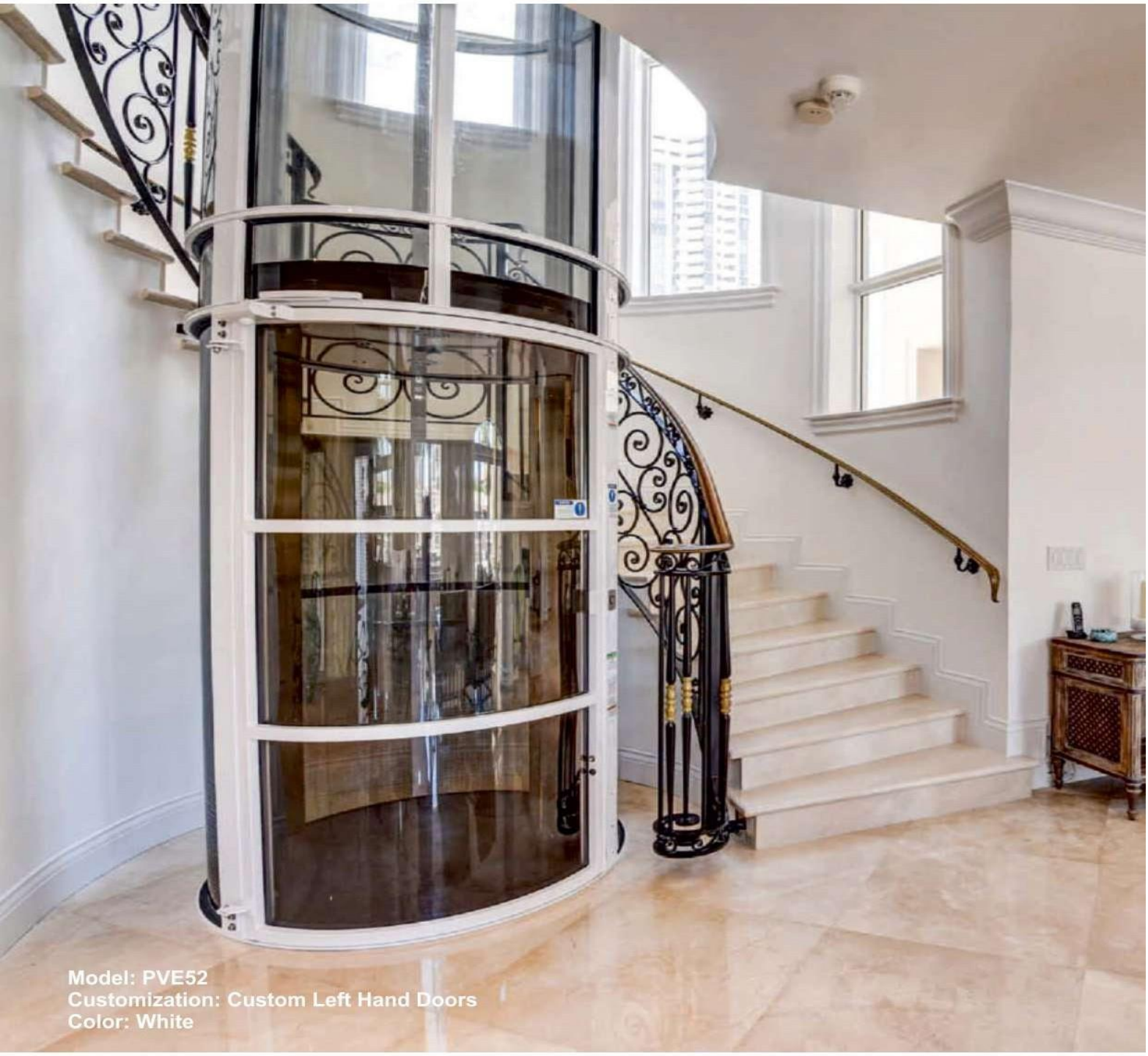




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# ELEGANT DESIGN

At PVE, our mission is to create home elevator solutions in which design and technology coincide. Where the utilization of attractive materials and the application of fundamental physics combine to produce an innovative & aesthetically pleasing elevator that enhances homeowner's standard of living.

The result : **Pneumatic Elevators.**

With its minimal footprint, modern design & revolutionary technology, these eco-friendly elevators go where other home elevators simply cannot.

A versatile solution that fits into even the tightest of spaces, all three Pneumatic Elevator models are self-supporting with minimal pre-construction requirements allowing a faster & more flexible installation.

Utilizing a unique, circular design, these panoramic elevators offer 360° degree visibility while traveling up to 5 stops or 50 feet in total rise making them beautiful additions to any residence.

"Green Elevators" that operate using Pneumatic Technology®, minimal energy consumption is utilized during ascent and gravity is simply used for descent ensuring Pneumatic Elevators have a nominal impact to your annual electrical usage.



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## ABSOLUTE SAFETY

Pneumatic Elevators are annually certified & safety inspected by the prestigious Liftinstituut, one of the world's leading elevator certification organizations.

In the event of power failure while in operation, the Elevator Car will automatically descend to the lowest level and the mechanical door lock opens to allow passengers to safely exit.



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# AK LIFTING SOLUTIONS



# 3 MODELS AVAILABLE

**With 3 Models Available, There Is A Pneumatic Elevator To Fit Any Projects Needs.**

## PVE 30

**Single Passenger Elevator**
**30 Inches** (750 mm) External Diameter

Lift Capacity (159 kg)
***Traveling Speed 0.15 m/s***
Automatic Interior LED Lighting & Fan
In-Line Door Openings

## PVE 37

**Two Passenger Elevator**
**37 Inches** (950 mm) External Diameter

Lift Capacity (205 kg)
***Traveling Speed 0.15 m/s***
Automatic Interior LED Lighting & Fan
In-Line, Walk-Through & 90° Door Openings*
***Limitations With 90° Door Openings***

## PVE 52

**Three Passenger Elevator**
**Wheelchair Accessible**
**52 11/16 Inches** (1,338 mm) External Diameter

Lift Capacity (238 kg)
***Traveling Speed 0.10 m/s***
Automatic Interior LED Lighting & Fan
In-Line & Walk-Through Door Openings



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# PVE MODEL SPECIFICATIONS

**Technical Specifications For All 3 Pneumatic Elevator Models.**

| | pve 30 | pve 37 | pve 52 |
|---|---|---|---|
| **General** | | | |
| *Maximum Load (Kgs)* | 159 | 205 | 238 |
| *Speed* | 30 fpm (0.15m/s) | 30 fpm (0.15m/s) | 20 fpm (0.10m/s) |
| *Number of Stops* | 2 to 5 | 2 to 5 | 2 to 5 |
| *Maximum Distance (Feet)* | 50 | 50 | 50 |
| **Car** | | | |
| *Inside Diameter - Widest Point (Inches)* | 25" | 32" 1/2 | 46" 3/4 |
| *Doorway Width (Inches)* | 20" | 20" 1/2 | 32" |
| *One-Touch Operation* | Yes | Yes | Yes |
| *Wheelchair Accessible* | No | No | Yes |
| **Door** | | | |
| *Available Entrances *** | 0° | 0°, 90°, 180° and 270° | 0° and 180° |
| *Possibility of an Automatic Door* | Yes | Yes | Yes |
| **Safety** | | | |
| *Power Failure Automatic Descent* | Yes | Yes | Yes |
| *Alarm Button / Safety Telephone* | Yes | Yes | Yes |
| **Electricity** | | | |
| *Supply* | 220 V/20 A | 220 V/26 A | 220 V/32 A |
| *Power* | 3.3 kW | 5.5 kW | 6.6 kW |
| **Installation Requirements** | | | |
| *Finished Perforation Diameter (Inches)* | 32" | 39" | 54" 11/16 |
| *Minimum Height on Upper Floor (Inches) ** | 107" (8 ft. 10 inch) | 107" (8 ft. 10 inch) | 107" (8 ft. 10 inch) |

** Lower Height Clearances are possible. Speak to a PVE Sales Representative to confirm the feasibility of your desired installation.*

*** Door Configuration Options available for review on Page 18.*



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# Special Applications

**Intended As A Residential Elevator, There Are A Few Unique Applications Where The Elegance Of The Pneumatic Elevator Can Shine Through.**

## Stage Elevator

***It is recommended to speak to a local authorized PVE distributor to discuss local codes and regulations prior to considering the Pneumatic Elevator for any Stage Applications.***

## Yacht & Marine Elevator

**Easy-To-Install, Space-Saving Elevators for Yacht & Marine Applications.**

***With it's minimal footprint, ease of installation and plug & play features, Pneumatic Elevators are the ideal elevator solutions for any Yacht & Marine Applications.***

***With no pre-construction pit, hoist-way or machine room required, each Pneumatic Elevator is custom built to the height of the vessel while adding an elegant design feature that will capture people's attention & imagination.***



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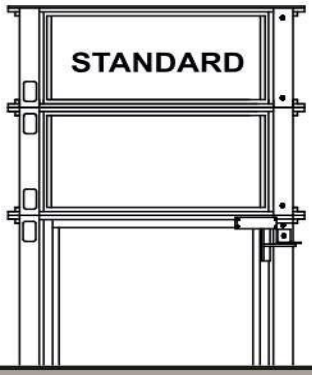
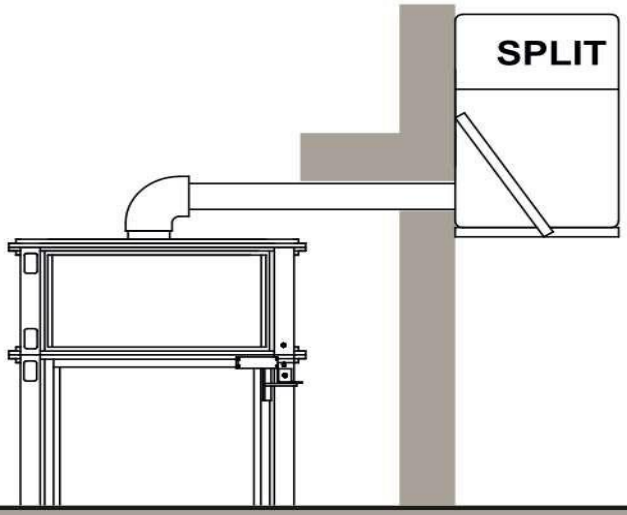
# PVE MACHINERY CONFIGURATIONS

**Depending On The Available Height In Your Home,**
**There Are Different PVE Machinery Configurations Available For Your Pneumatic Elevator.**




## STANDARD MOUNT CONFIGURATION

A quick to install, aesthetically pleasing solution, Standard Mounted applications allow for the PVE Machinery to be installed directed on top of the upper-floor cylinder.

The simplest solution in terms of installation, Standard Mounted applications are plug & play systems that require a 220 volt power supply to be located directly above or close to the top of the unit.

**MINIMUM HEIGHT ON THE UPPER FLOOR**

**2700 mm ***

* Lower Height Clearances are possible.
Speak to a PVE Sales Representative to confirm the feasibility of your desired installation.

## SPLIT-UNIT MOUNT CONFIGURATION

Designed to accommodate installations with lower overhead clearances, Split-Unit Mounted applications allow for the PVE Machinery to be remotely located from the top of the unit.

With both Indoor and Outdoor Split-Unit options, remotely locating the machinery reduces the minimum height required on the top floor with the PVE Machinery installed up to 30 linear feet away from the top of the upper-floor cylinder.

Connected to the top of the elevator by two 4" inch PVC pipes or a flex hose alternative, Split-Unit Mounted applications requires a 220 volt power supply to be located wherever the PVE Controller is installed.

**MINIMUM HEIGHT ON THE UPPER FLOOR**

**2700 mm***



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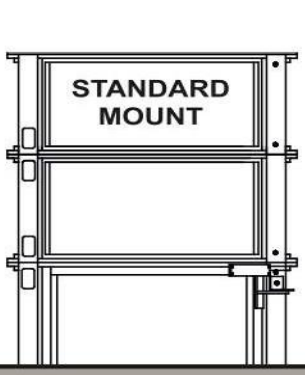
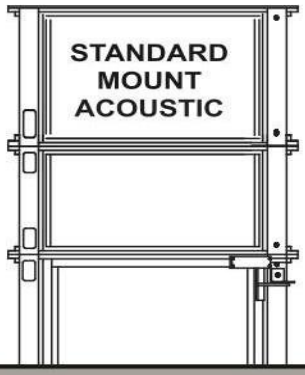
# STANDARD MOUNT

**PVE Machinery Installed Directly Above The Unit.**




## STANDARD MOUNT

Included as the base PVE Machinery option for all Pneumatic Elevator orders, a Standard Mount application allows for the PVE Machinery to be installed directly on top of the upper floor cylinder.

### ADVANTAGES

*Standard Mounted Machinery.*

*Quick & Easy Installation.*

*Self-Contained, Plug & Play Operation.*

**MINIMUM HEIGHT ON UPPER FLOOR**
**2700 mm ***

## STANDARD MOUNT ACOUSTIC

Utilizing audio engineering and sound proofing material to reduce decibel ratings, the Standard Mount Acoustic upgrade option allows for the PVE Machinery to be installed directly on top of the upper floor cylinder.

### ADVANTAGES

*Decibel Reducing Solution for Standard Mounted Applications.*

*Plug & Play System.*

*Easy-to-Install Machinery Option.*

**MINIMUM HEIGHT ON UPPER FLOOR**
**2700 mm ***

* Lower Height Clearances are possible.
Speak to a PVE Sales Representative to confirm the feasibility of your desired installation



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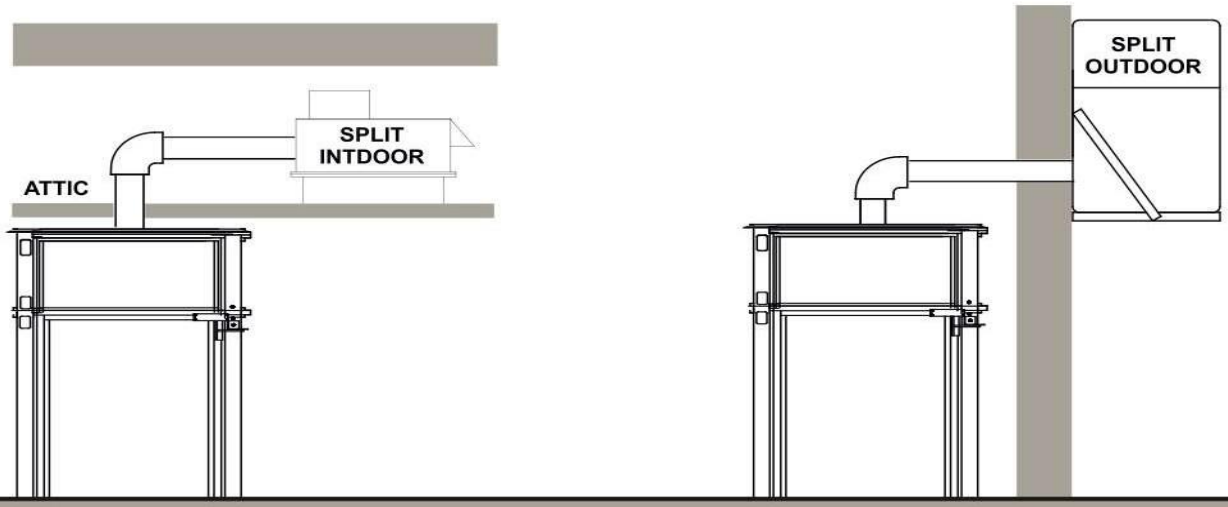
# SPLIT-UNIT MOUNT

**PVE Machinery Remotely Located Up To 30 Linear Feet Away From The Top Of The Unit.**




## SPLIT-UNIT MOUNT INDOOR

*Designed to accommodate installations with lower Overhead Clearances on the top floor, the Split-Unit Mount - Indoor machinery option is an upgrade that allows the PVE Machinery to be installed remotely inside the home.*

*Connected to the top of the elevator by two 4" inch PVC pipes or a flex hose alternative, the Split-Unit machinery can be installed up to 30 linear feet away from the top of the unit and is often located in attics, adjacent closets or mechanical rooms within the home.*

### ADVANTAGES

*Lower Overhead Clearance Requirements on the Top Floor.*

*Reduction of Decibel Ratings Inside Home.*

*Customizable Positioning of the Split-Unit Machinery Inside the Home.*

**MINIMUM HEIGHT ON UPPER FLOOR**

**2700 mm ***

## SPLIT-UNIT MOUNT OUTDOOR

*Designed to allow the PVE Machinery to be installed externally from the home, the Split-Unit Mount - Outdoor machinery option is an upgrade designed to allow the PVE Machinery to be installed in an exterior setting.*

*Installed inside a fiber glass enclosure, this PVE Machinery solution is connected to the top of the elevator by two 4" inch PVC pipes or a flex hose alternative and can be installed outside up to 30 linear feet away from the top of the unit.*

### ADVANTAGES

*Lower Floor-to-Ceiling Height Requirement on the Top Floor.*

*Most Efficient Audio Solution for PVE Machinery.*

*Customizable Positioning of the Split-Unit Machinery Outside the Home.*

**MINIMUM HEIGHT ON UPPER FLOOR**

**2700 mm ***



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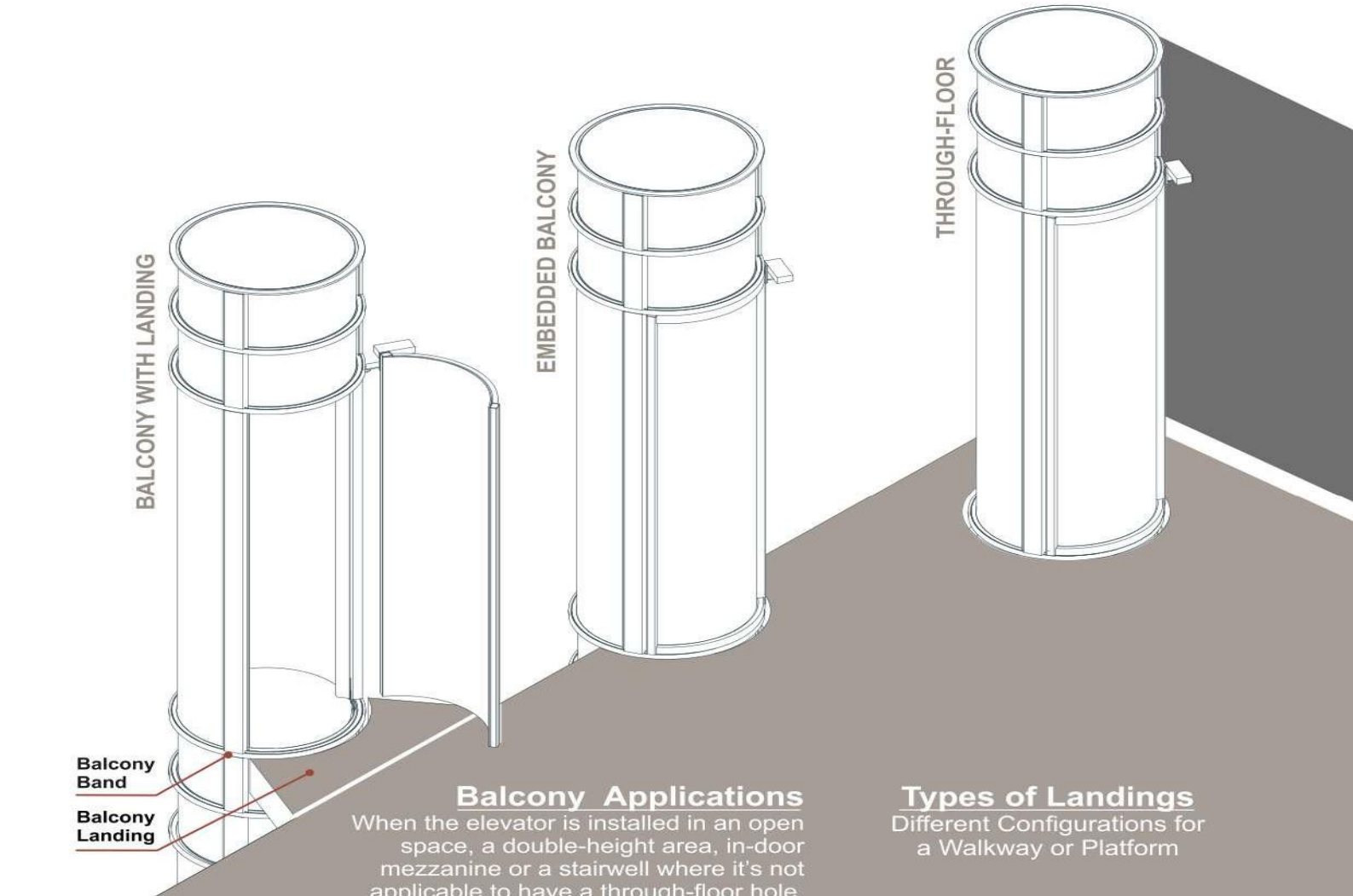
# PVE INSTALL




## Balcony Applications

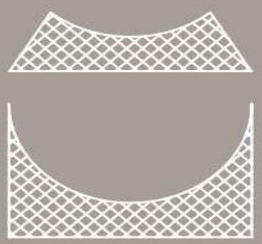
When the elevator is installed in an open space, a double-height area, in-door mezzanine or a stairwell where it's not applicable to have a through-floor hole.

For Balcony Applications, it's necessary to install a **Landing, Platform or Walkway** (not provided) at the balcony level for ease of entry & exit for the passenger.

Given the elevators circular design, this pre-construction requirement covers the space between the elevator and balcony floor while ensuring stability as the Pneumatic Elevator is attached to the structure on each level by means of a Balcony Band (provided by the installer).

## Types of Landings

Different Configurations for a Walkway or Platform





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Ward No.1/8, Nellikuppam Road,
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Guduvancherry – 603202

(A fully owned subsidiary of the parent company PNEUMATIC VACUUM ELEVATORS LLC, Florida U.S.A).

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