

PVE37

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PVE37 FACT SHEET

Introduced to the elevator industry in 2002, the **PVE37** is the first Pneumatic Vacuum Elevator model developed and distributed worldwide. As the ideal space saving solution, this Two-Passenger Residential Elevator can fit virtually anywhere inside the home without the consuming footprint of traditional home elevators.

Home Elevator – Two- Passengers

The **PVE37** has paved the way for the rest of the pneumatic vacuum elevators lineup.

The many features of this **PVE37** home lift make it a great option if you want something more spacious than the **PVE30**, but do not have enough room or the need for the wheelchair-accessible **PVE52**. The door width opening is 20 ½ inches which will accommodate a passenger with a walker.

It measures 37 inches in outside diameter and 32 inches wide on the interior of the cabin. This air-driven residential elevator can safely carry two adults, or 450 lbs, up to as many as five stops or 50 feet in total rise.

For an even more comfortable ride, you can opt to have a cabin seat installed for a single rider to sit on while being carried up to another floor.



Panoramic Design

With only one door opening available per level, the **PVE37** offers in-line (same side) or 180° (opposite side) door openings with one door at each elevator landing. In addition, the **PVE37** is the only Air-Driven Home Elevator that offers 90° Degree Door Configurations giving the homeowner more options for their residential elevator.

Absolute Safety

This home elevator operates with turbines that use 5 kilowatts of electricity, making the **PVE37** an environmentally friendly home elevator.

If the power goes out in your home, you will not get stuck in the elevator. The safety system is designed to automatically switch to a slow descent when the power goes out, and mechanical brakes engage if the elevator ever begins to free fall after a couple of inches.

Minimal Maintenance

Another great benefit of this home elevator is that there is very minimal maintenance required. The only scheduled maintenance per the ASME A17.7 certification is every five years or approximately 15,000 lifts on average. This is when the main seal needs to be replaced. There is a significant cost savings over time if you are to compare this to the regular service required for a traditional residential elevator!



Space-Saving Solution

The compact **PVE37** residential elevator is the perfect option for an existing residence as it does not take up much space, but still accommodates all of the desired applications of any residential elevator.

Simply resting on the existing ground floor, this space-saving home elevator can easily be installed in retro-fit or new construction projects.

Whether it is used for passengers, suitcases, pets, household items, or anything else, the **PVE37** lift serves a number of functions without the consuming footprint and significant construction costs required of a traditional home elevator.

Standard Features Home Elevator – PVE37

- No pit, hoist way, or machine room required
- 50 ft (15m) Total Rise Max
- 35 ft/M travelling speed
- Two to Five Stops
- Self supporting structure
- External cylinder diameter: 37 inches (933mm)
- Internal cabin diameter: 32 inches (813mm)
- Internal cabin height: 6'5" (77 inches/ 1956mm)
- Entrance way opening: 21 inches (534mm)
- Through Floor or Balcony Mount Landings
- Power Supply: 30 AMP 220VAC
- In-line, 180° and 90° door openings*
- Aluminum and polycarbonate cylinder structure
- Automatic interior LED lighting and fan
- Mechanical emergency safety brake system
- One year limited manufacturer warranty
- ASME A17.7 Certified
- Weight capacity: 450 Pounds (204 kg)

*** All Upper Floor Doors Must Be Same Side Door Openings for 90° Door Configuration**

PVE37 Technical Specifications



General:

- External cylinder diameter: 37" (940mm)
- Rated Load: 450 lbs. (205 kg)
- Speed: 30 fpm (.15 ms)
- No pit required. Bottom level floor must be 100% level as elevator rests on existing floor.
- No hoistway required.
- Minimum overhead clearance:
 - Standard Unit (turbine motors located on top): 107" (2,719mm)
 - Split Unit (turbine motors located remotely): 97" (2,464mm)
- Penetration required to install through floors and ceilings: 39" (991mm)

Mechanical Requirements

- 220V, 60/50 Hz, 30amp single phase power supply
- 5 turbine motors located in pump box using a total of 5KW

Cabin:

- Entrance width opening: 20 1/2" (521mm)
- Internal cabin height: 79" (2007mm)
- Internal cabin diameter: 29 1/2" (750mm)
- Automatic LED lighting and cabin fan
- Door openings: same side (in-line) and walk through (180°).
 - All doors are hinged on top left, with door swing to the left, from inside the cabin.
 - Door Height: 77 3/4" (1,975mm)
 - Height to top of Door closer: 79 1/2" (2,020mm)
 - Each landing level specified will include only one door.
- 24 Volt electrical circuits with all controls in cabin
- Push button call controls with precise leveling at each landing.

Safety:

- Automatic descent to ground level at safety speed in the event of a power failure.
- Mechanical emergency brakes within two inches of freefall in vacuum loss or catastrophic failure.
- Electromechanical interlocks at each landing
- Alarm system and telephone (optional)

3 Models Available

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



PVE30



Single Passenger Elevator
30 inches (750 mm) External Diameter
350 lbs Lift Capacity (159 kg)
40 ft/min Traveling Speed
Automatic Interior LED Lighting & Fan
In-Line Door Openings



PVE37



Two Passenger Elevator
37 inches (950 mm) External Diameter
450 lbs Lift Capacity (205 kg)
40 ft/min Traveling Speed
Automatic Interior LED Lighting & Fan
In-Line, Walk-Through & 90° Door Openings*
*Limitations With 90° Door Openings



PVE52



Three Passenger Elevator
Wheelchair Accessible
52 11/16 inches (1,338 mm) External Diameter
525 lbs Lift Capacity (238 kg)
35 ft/min Traveling Speed
Automatic Interior LED Lighting & Fan
In-Line & Walk-Through Door Openings

T: (506) 8328-4957
E: info@elevarte-cr.com

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PVE Model Specifications

Specifications For All 3 Pneumatic Elevator Models Available.



pve.30



pve.37



pve.52

General

<i>Maximum Load (lbs)</i>	350	450	525
<i>Speed</i>	40 fpm (.15 m/s)	40 fpm (.15 m/s)	35 fpm (.15 m/s)
<i>Number of Stops</i>	2 to 5	2 to 5	2 to 5
<i>Maximum Distance (Feet)</i>	50	50	50

Car

<i>Inside Diameter Widest Point (Inches)</i>	25"	32" 1/2	46" 3/4
<i>Doorway Width (Inches)</i>	20"	20" 1/2	32"
<i>One-Touch Operation</i>	Yes	Yes	Yes
<i>Wheelchair Accessible</i>	No	No	Yes

Doors

<i>Available Entrances **</i>	0°	0°, 90°, 270° and 180°	0° and 180°
<i>Possibility of an Automatic Door</i>	Yes	Yes	Yes

Safety

<i>Power Failure Automatic Descent</i>	Yes	Yes	Yes
<i>Alarm Button / Safety Telephone</i>	Yes	Yes	Yes

Electricity

<i>Supply</i>	220 V/20 A	220 V/30 A	220 V/40 A
<i>Power</i>	3.8 kW	6 kW	7 kW

Installation Requirements

<i>Finished Perforation Diameter (Inches)</i>	32"	39"	54" 11/16
<i>Minimum Height on Upper Floor (Inches) *</i>	97" *	97" *	97" *

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

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