A WORK OR ART. POWERED BY AIR.
Pneumatic Vacuum Elevators
About PVE

The Pneumatic Vacuum Elevator is an innovative technology, which has revolutionised how people and goods can be vertically transported, within the residential, marine and stage environments.

Through the application of fundamental physics and the utilisation of attractive materials, the PVE has virtually created a transportation vehicle within a bubble.

There are three vacuum elevator models; from single to a three-passenger capacity/wheelchair-accessible model. Rather than using cables or pistons, the PVE is an elevator that is powered by one of the most abundant resources in the world... AIR!

Due to the PVE’s minimal footprint, rapid installation, and a unique panoramic design, the vacuum elevator goes where other elevators simply cannot.
PVE’S Features & Benefits

- No pit excavation, hoist-way, or machine room required
- Installation within one to two days
- Two to four stops for residential, marine, and stage applications [35ft. (10.5m) total rise]
- Ideal for new and existing homes due to the minimal footprint required to accommodate the structure
- Self-supporting structure: the elevator is capable of freestanding on any level ground surface
- “Green Elevator:” minimal energy consumption required during ascent and no energy necessary for descent
- Modern design allows 360º visibility without cables or pistons that block vision
- Minimal maintenance: no lubricants or regular service required
- Absolute safety: in the event of a power failure, the elevator cab automatically descends to the lowest level and the electromechanical door opens to allow passengers to exit
- 220Volt single phase service required for elevator operation and all cabin electric circuits are 24 volts
- Extremely smooth starting and stopping operations
- ASME A17.7 Code Compliance Certified
- Machinery Directive 2006/42EC Certified

Components

There are three main components to the transparent, self-supporting vacuum elevator:

Exterior Cylinder
Made up of an aluminum frame and polycarbonate panels.

Elevator Car
Made of steel, which houses the brake and safety mechanisms along with the proprietary seal located on top of the car.

Suction Assembly
Located on top of the upper cylinder. Houses the turbine engines, valves, and the PVE control board.

Options & Upgrades

Colors
- Standard Gray
- Light Gray
- White
- Black
- Taupe

Cabin Phone
Cabin Key Lock
Foldable Car Seat (PVE37 Only)
PVE30
Single passenger elevator
350 lbs lift capacity (159 kg)
External cylinder diameter: 30 inches (750 mm)
30 ft/min traveling speed
Aluminum & polycarbonate structure
Automatic interior LED lighting and fan
In-line door openings

PVE37
Two passenger elevator
450 lbs lift capacity (205 kg)
External cylinder diameter: 37 inches (950 mm)
30 ft/min traveling speed
Aluminum & polycarbonate structure
Automatic interior LED lighting and fan
In-line and walk-through door openings

PVE52
Three passenger elevator
Wheelchair accessible
525 lbs lift capacity (238 kg)
External cylinder diameter: 52 11/16 inches (1,338 mm)
20 ft/min traveling speed
Aluminum & polycarbonate structure
Automatic interior LED lighting and fan
In-line and walk-through door openings