



AIRO HOME LIFTS

Certified Home Elevators

Introduction to AIRO Home Lift

AIRO Home Lifts is an elevator manufacturing company in India with over 20 years of expertise, that offers a range of pneumatic elevators. By applying essential physics, the vacuum lift cabin difference in air pressure allows you to travel by air. The slow release of air pressure floats you down, and turbines lift you to the next Floor.

Unlike traditional home elevators, Vacuum Elevators are often placed anywhere in one's home, requiring no shaft, pit or machine room to work. This unique design feature, found only in Vacuum Elevators, provides infinite design possibilities for any residential, marine or stage application. Vacuum Elevators can accommodate any home and need significantly less space than a standard home elevator.

Typically, traditional home elevators are placed in closed spaces and the elevator isn't visible. Additionally, they require much more construction and excavation to the house, with the homeowner having to create the shaft to accommodate the cabin, dig a pit to satisfy code requirements, and supply ample space for a machine room. This construction can take months to finish. They also utilize harmful oils and lubricants which may be detrimental to the environment and need yearly maintenance which may grow in cost over time.

While Vacuum Elevators are often installed in closed quarters, we've found that always customers keep the Vacuum Elevator out in the open, using it as an outdoor design feature for his or her home. Compared to traditional elevators, the Vacuum Elevator has only a few pre-construction requirements, with no drilling or excavation needed. The elevator rests on the existing base floor. This makes for a significantly faster installation time. The Vacuum Elevator are often installed in one's range in as little together to 3 days. Rings are provided above and below the elevator to supply a clean, crisp appearance. The Vacuum Elevator also can be balcony mounted and utilizes a balcony band to stabilize the lift.

The Vacuum Elevator is all self-contained with the top unit located on-top of the elevator. The top unit houses all the mechanics to work the lift and may be remotely located up to 30 linear feet away. While traditional elevators use harmful oils and lubricants, Vacuum Elevators are the sole lifts powered by the most-abundant resource within the world. Air is just flushed back to the elevator and gravity is employed to bring you down. The power supply wanted to generate the vacuum suction is merely a 220 VAC, 25-35 amp single-phase power supply, which is analogous to the energy consumption of a washer and dryer. These are plug and play home elevators, and only consume electricity in their ascend.

Features of AIRO Home Lift



NO CIVIL WORK

Our Elevator has no requirement for a PIT or a MACHINE ROOM. This makes it almost zero civil work.

STAND ALONE STRUCTURE

Our Elevator is designed to be a self-supporting structure. Thus it doesn't require any columns or beams for support making it almost zero renovation or civil work at your site.

NEGLIGIBLE MAINTENANCE

This High Technology Elevator is designed for slightest maintenance coming with no requirement for Oiling & Lubrication, counterweights and battery backup.

360 DEGREE PANORAMIC VIEW

Elevator CAR and Shaft is transparent giving a 360 degree panoramic view from inside and outside the elevator.

JUST PLUG & GO

Elevators are delivered in a semi assembled condition which reduces installation time to 3 or 4 Days.

EARTH-FRIENDLY

This modern equipment is designed to consume single phase electricity at the slightest level only when travelling upwards. This makes it Eco-Friendly and the best elevator on this planet.

AIRO TITANIUM

TECHNICAL SPECIFICATION



General

Rated Load / Capacity	: Upto 220 kgs
Unit Type	: Airo Titanium (Sound Proof)
Travel Speed	: 0.15m/second
Maximum Stops	: 4 Stops (G+3)
Maximum Travel Height	: 13715mm / 45feet
Clear Space Required	: 1010mm
Power Consumption	: 3.7kW (Stabilized Power)
Electrical Requirement	: 230 V, 60/50 Hz, 32 Amp Single phase Power
Installation Type	: Indoor / Outdoor
Electrical Panel Box Req. Space:	Nill (Inbuilt with unit)

Internal Specifications

Cabin Clear Diameter	: 835mm (Max)
Cabin Clear Height	: 1915mm
Type of Control	: Push And Run
Power Supply Inside Cabin	: 24 Volt DC
Cabin Opening Panel Type	: Single Collective With Bicolour Buttons
Overload Indicator	: Built In On COP (Cabin Operating Panel)
Cabin Ceiling	: Basic - LED Spot Light with Fan Elegance Finish - Starry Sky & Opal

External Specifications

External Cylinder Diameter	: 940mm
Maximum Overhead Clearance	: 2770mm
Clear Door Opening	: Manual, Angular Swing Door 600mm (W) 1925mm (H)
Clear Door Access	: 180 Degree
Shaft Construction	: Composition of Aluminum & Galvanized Steel
Special Glass	: Polycarbonate (200 Times Stronger Than Glass)

AIRO SPLIT TECHNICAL SPECIFICATION



General

Rated Load / Capacity	: Upto 220 kgs
Unit Type	: Airo Titanium (Sound Proof)
Travel Speed	: 0.15m/second
Maximum Stops	: 4 Stops (G+3)
Maximum Travel Height	: 13715mm / 45feet
Clear Space Required	: 1010mm
Power Consumption	: 3.7kW (Stabilized Power)
Electrical Requirement	: 230 V, 60/50 Hz, 32 Amp Single phase Power
Installation Type	: Indoor / Outdoor
Electrical Panel Box Req. Space:	500mm (W) x 230mm (H)

Internal Specifications

Cabin Clear Diameter	: 835mm (Max)
Cabin Clear Height	: 1915mm
Type of Control	: Push And Run
Power Supply Inside Cabin	: 24 Volt DC
Cabin Opening Panel Type	: Single Collective With Bicolour Buttons
Overload Indicator	: Built In On COP (Cabin Operating Panel)
Cabin Ceiling	: Basic - LED Spot Light with Fan Elegance Finish - Starry Sky & Opal

External Specifications

External Cylinder Diameter	: 940mm
Maximum Overhead Clearance	: 2500mm
Clear Door Opening	: Manual, Angular Swing Door 600mm (W) 1925mm (H)
Clear Door Access	: 180 Degree
Shaft Construction	: Composition of Aluminum & Galvanized Steel
Special Glass	: Polycarbonate (200 Times Stronger Than Glass)
Split Unit Dimensions	: 850mm (W) x 530mm (D) x 530mm (H)



Principle & Components of AIRO Home Lift



The Vacuum Elevator merges a smooth vertical cylinder with a coaxial car that moves up and down through air suction and air release respectively.

The principle operation of vacuum elevator relies on the ascending push generated by the difference between the air pressure on the top of the car and therefore the air pressure under the car. Depression (vacuum) required to lift the car is achieved by turbines operating as exhaust fans which are located at the highest of the elevator.

Exterior Cylinder

The cylinder may be a transparent tube built around an aluminum steel structure. The wall of the tubes is formed of polycarbonate sheets.

The tube comprises a modular section, which easily can fit into each other. The steel is employed to form the roof of the tube, which ensures airtight closings with suction valves and inlets.

AIRO Car

The car moves through the rail. The rail is supported by the cylinder. The walls round the car are made from polycarbonate panels. An anchoring system is installed within the cars that activate on reaching the required floors and may provide precise and smooth stops. It consists of a system to lock the car.

Pneumatic Assembly

Head unit is found on top of the tube where turbines, valves, and other controls are located. The control cabinet maybe a metal box housing with a pneumatic controller board and other electrical devices. The top unit is placed on an equivalent tube that holds the car or installed separately as a split unit at a distance of up to 10 meters from the lift. The frame of the suction assembly is usually made from fiberglass.

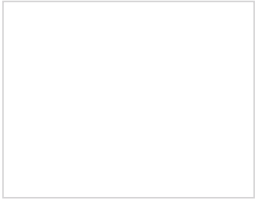


CABIN FINISHES PREMIUM



COLOUR OPTION

WHITE



JET BLACK



RED



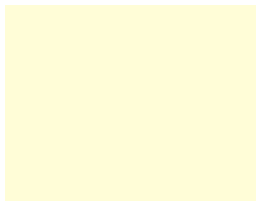
BLUE



BROWN



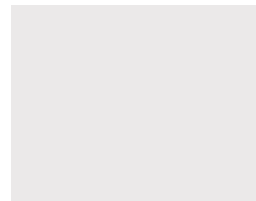
GRAY



CREAM



GOLD



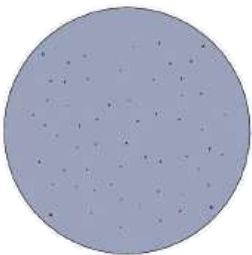
SILVER



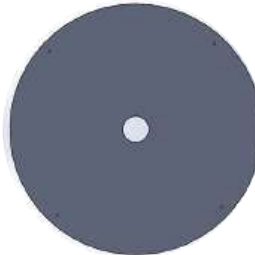
GREEN

CABIN CEILING

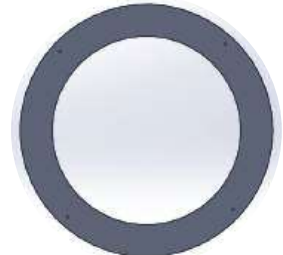
GALAXY



SPOT LIGHT



OPAL



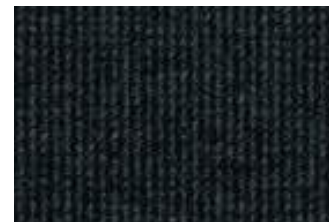
CABIN FLOORING



WHITE



RED



GRAY



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