



Luxury and Freedom take flight in your home



**ThyssenKrupp Access**

Residential Elevator Division



ThyssenKrupp



## The Volant™ Home Elevator.

Introducing the Volant, our next-generation of personal home elevator. The Volant combines quality workmanship and unrivaled comfort with an eye on keeping our environment cleaner and healthier.

Adding a Volant to your home — either during the construction stage or retro-fitted into an existing house — allows you to experience the best of what a home elevator can offer:

**Quiet** — Our world-class engineers have designed cutting-edge gearless technology that provides whisper-quiet operation — which enhances the comfort of your home. You'll actually have to make an effort to hear it running!

**Stable** — Utilizing a wider rail configuration, the Volant sets a new standard for stability unmatched in the residential elevator industry. Your safety is crucial when considering the installation of a home elevator and the Volant delivers performance you can trust.

**Smooth** — With the gearless technology and the increased stability, the Volant offers an ultra-smooth ride that has to be experienced to be believed! Years of research and development have culminated in a truly incredible product; even veteran elevator builders are amazed by the Volant! It's like riding in the most luxurious of cars — without the overwhelming price tag!

**Green** — We only have one Earth and we need to take care of it! The Volant's gearless technology slashes your energy usage over conventional elevators and the absence of gears eliminates the need for hydraulic fluids and pumps that can break down or leak.

We're confident that the Volant will handle your vertical transportation needs and will be your first choice over any other home elevator on the market. The Volant can be manufactured and installed in your home quickly and easily at any point during the construction stage — or even later.

Make the smart choice and go with the next generation of home elevators, the Volant.



*Cutting edge technology meets unparalleled performance in our outstanding home elevator. Quietness, Smoothness, and Stability unmatched by any other home elevator. Unmatched smoothness and stability in our quietest home elevator ever. For discriminating people who want the smoothest, most quiet, ride and stability that stands the test of time.*

# TYPICAL VOLANT HOISTWAY SIZES AND CAR CONFIGURATIONS

Cab Type (rail side at top in all shown illus.)	Car Size	Width*		Depth*	Clear Opening
		rail side gate stack	opp. side gate stack		

## Type 1 — Enter/Exit Same Side



36 x 48	52 3/4"	56 1/4"	55"	32 1/8"
36 x 60	52 3/4"	56 1/4"	67"	32 1/8"
40 x 54	56 3/4"	60 1/4"	61"	35 7/8"

## Type 2 — Enter/Exit Straight-Thru



36 x 48	52 3/4"	56 1/4"	55 1/2"	32 1/8"
36 x 60	52 3/4"	56 1/4"	67 1/2"	32 1/8"
40 x 54	56 3/4"	60 1/2"	61 1/2"	35 7/8"

## Types 3, 4 — Enter/Exit 90°



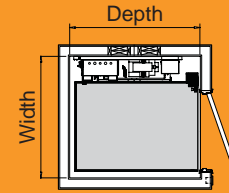
36 x 48	54 3/8"	55"	door 1, 32 1/8", door 2, 28 5/8"
36 x 60	54 3/8"	67"	door 1, 32 1/8", door 2, 32 1/8"
40 x 54	58 3/8"	61"	door 1, 35 1/8", door 2, 32 1/8"

## Type 5 — Enter/Exit Adjacent Side

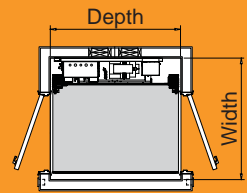


36 x 48	54 3/8"	55"	32 1/8"
36 x 60	54 3/8"	67"	32 1/8"
40 x 54	58 3/8"	61"	32 1/8"

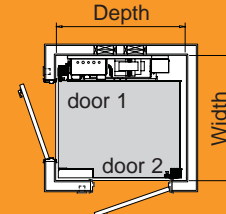
\*Dimensions are to inside finished walls of hoistway.  
Consult *Volant Planning Guide* for more detailed information.



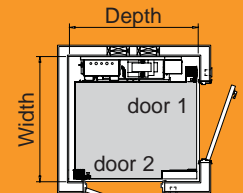
Type 1



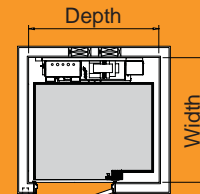
Type 2



Type 3



Type 4



Type 5

Hoistway door swing is shown for illustrative purposes only; door can hinge on either side.

## Overview

- Comes complete with:
  - Accordion car gate(s)
  - Two recessed halogen car lights
  - Wood handrail
  - Car operating panel and hall stations
  - Emergency stop switch
  - Automatic car lighting
  - Digital floor position indicator
- Five car configurations
- Three car sizes:
  - 36" x 48", 36" x 60", 40" x 54" (also available in 2" increments from 12 ft<sup>2</sup> to 15 ft<sup>2</sup>. For applications other than this, consult factory. Local codes may require variances on non-standard cab sizes)
- Three car heights:
  - 84", 88", 94"
- Five car packages to choose from:
  - Melamine car
  - Wood veneer car
  - Raised panel hardwood car
  - Inset wood panel car
  - Luxurious Signet™ car with over 100 finishes from which to choose
- Travel up to 50 feet — providing basement to top story access with service up to five stops.
- Space miser:
  - Low overhead clearance and pit requirements conserve valuable living area in your home.
  - Perfect for coastal and flood plain areas
  - Gearless drive system does not require a machine room
- SoftStart and SoftStop technology ensures that when the lift begins to move or comes to a stop automatically at the landing, it will do so gently.
- The Programmable Logic Controller (PLC) monitors the elevator's performance to notice potential problems before they occur.
- Machine drive delivers up to 950 lb. lifting capacity.
- ETL listed components give you peace of mind that your elevator will perform reliably.
- Equipped with standard safety devices: hoistway door interlocks, a slack rope/rope safety to stop and hold the elevator car, and an emergency light and alarm.
- Standard 2 year warranty covers your Volant against defects in workmanship.



# ELEVATOR CAR

Even when you're traveling floor to floor, you can enjoy a custom look and feel. The Volant home elevator car comes in a wide variety of standard features and options.

- Car walls are available in either melamine, wood veneer, raised panel hardwood or inset wood panels.
- Two recessed halogen lights come standard. Or choose our four light option.
- Even the ceiling is customizable. White melamine is standard. If you choose any of the wood options for your car walls, you can match it on your ceiling. Flat ceiling not fancy enough? Try one of the framing options shown below.

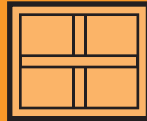
No frame



Single frame

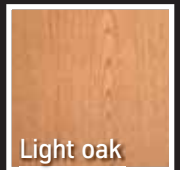


Deluxe frame



Light oak melamine

## Car paneling options



Light oak

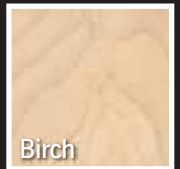


Dark oak



Champagne

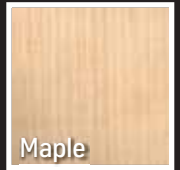
Standard melamine: light oak, dark oak, champagne, white (not pictured)



Birch



Oak



Maple



Cherry

**Optional wood**  
(shown unfinished)  
Wood veneer, raised hardwood and inset panels available in birch, oak, maple or cherry.

Protect your investment with a factory finish. Select a varnish or any Minwax® Wood Finish™.



Birch wood veneer

Solid cherry hardwood raised panel



# OPTIONS

to finish your Volant.

A perfect blend of beauty and function.

## ACCORDION GATES

Car gates provide security while the elevator is traveling. It neatly folds out of the way for easy entry and exit.

Accordion car gate standard color choices: white, chalk, champagne, light or dark oak panels.

For a unique look, substitute an accordion car gate with clear vision panels. Or you can choose a solid or perforated aluminum accordion car gate in a clear coat or brass finish.

Add an auto gate operator for “hands free” convenience. It slides the gate open and closed at each landing. And for your safety, it will auto-reverse if the light beam safety curtain senses an obstruction. Auto opener for hoistway door is also available.

Hall stations and operating controls available in four finishes



Brushed stainless steel



Polished stainless steel



Brushed brass



Polished brass

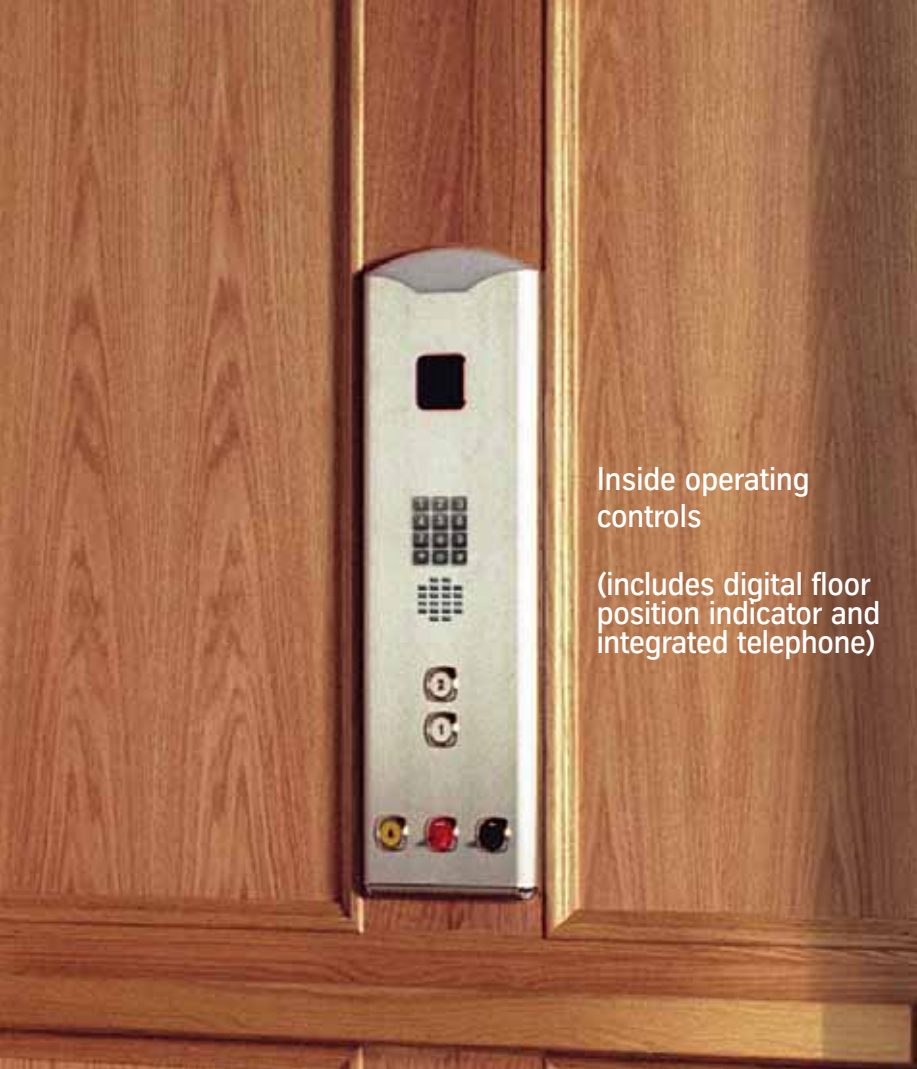
Light oak

Dark oak

Chalk

Champagne





Inside operating controls

(includes digital floor position indicator and integrated telephone)

## ADDITIONAL FINISHES AVAILABLE

For that extra touch of elegance and luxury, ask about the complete line of custom Signet car finishes available for your Volant home elevator. These include full view glass, fashion glass, stone, designer woods and specialty metals in multiple colors and finishes.



### Handrails

Standard wooden handrail can be replaced with metal handrail in choice of stainless steel or brass finish.

### Melamine handrails

Light oak

Champagne

White

Dark oak



### Wood handrails

(shown unfinished, maple not shown)

Birch

Cherry

Oak



### Metal handrails

(not available with melamine wall panels)

Brushed stainless steel

Polished stainless steel

Brushed brass

Polished brass



White

(shown with optional 3 clear vision panels)

Optional solid aluminum

(also available in brass finish)

Optional perforated aluminum

(also available in brass finish)





The Volant home elevator, has been specifically designed and built to conform with the requirements of ASME A17.1, Part V, Section 5.3 standard for residential elevators in private dwellings.

### General:

- Rated load: 950 lbs. (430 kg) (750 and 700 lbs. available)
- Speed: 40 fpm (.20ms)
- Minimum pit depth: 12"
- Minimum overhead clearance 9'-0"
- Maximum travel: 50'
- Maximum number of stops: 5 (minimum 17" travel between stops)

### Mechanical Equipment:

- 230 VAC, 60 Hz, 20 amp single phase power supply with neutral and ground (4 wires)
- Two  $\frac{3}{8}$ " diameter 8 x19 Traction Rope
- Frequency controlled variable speed gearless machine
- Modular Dual 6  $\frac{1}{4}$  lb. T-rail system
- Sling assembly

### Car and Appointments:

- 36" x 48" (12 ft<sup>2</sup>) x 84" high car size
- Melamine wall panels in choice of champagne, light oak, dark oak or white
- White ceiling
- Two recessed halogen lights
- Wooden handrail to match wall panels
- Accordion car gate in choice of champagne, chalk, light oak, dark oak or white
- Unfinished plywood floor (with removable insert for  $\frac{3}{4}$ " thick finished floor by others)
- Telephone (integrated into control panel)

### Controls:

- Programmable Logic Controller (PLC) with digital signal processor
- Fully automatic operation
- Car operating panel (brushed stainless steel or brass) with LED floor position/diagnostic display and call acknowledgment
- Hall stations (brushed stainless steel or brass) with LED floor position/diagnostic display and call acknowledgment
- Automatic car lighting with constant on switch
- Automatic homing to a designated floor
- Bi-directional leveling
- Emergency stop switch
- Emergency alarm button
- Hoistway wiring with conduit (hall stations/interlocks)

### Safety Devices:

- Lockable auxiliary disconnect for car lighting circuit
- Lockable auxiliary disconnect for drive unit circuit
- Upper and lower terminal limits
- Slack rope safety device
- Final limits (2 upper, 1 lower)
- Pit switch
- Car top stop switch
- Battery backup emergency light and alarm
- Car gate safety switch
- Electromechanical interlocks (for doors by others)
- Overspeed Governor

### Options:

- 36" x 60" (15 ft<sup>2</sup>) or 40" x 54" (15 ft<sup>2</sup>) car sizes (*custom sizes are available in 2" increments from 36" to 42" width by 48" to 60" depth -12 ft<sup>2</sup> minimum, 15 ft<sup>2</sup> maximum*)
- Special car size (15 ft<sup>2</sup> maximum, 12 ft<sup>2</sup> minimum)
- 88" or 94" inside car heights (requires additional overhead space)
- Unfinished wood veneer panels (oak, cherry, maple or birch)
- Unfinished inset wood veneer panel walls (oak, cherry, maple or birch)
- Factory applied finish to wood veneer panels and handrail
- Raised wood panel walls (oak, cherry, maple or birch) with choice of finish . See available finishes at [www.tkaccess.com/minwax](http://www.tkaccess.com/minwax)
- Matching wood veneer ceiling panel\*
- Hall stations and car operating panel can be provided in polished stainless steel or brass
- Metal handrail\* (brushed stainless steel or brass, or polished stainless steel or brass)
- Signet car (consult dealer for over 100 material options)
- Automatic car gate operator with light beam safety curtain
- Automatic hoistway door operator
- Car Buffer springs

### Car Gate Upgrades:

- Accordion car gate with 3 clear vision panels
- Accordion car gate with all clear vision panels
- Deluxe Visifold® accordion car gate
- Accordion car gate with solid aluminum panels (clear or brass anodized finish)
- Accordion car gate with perforated aluminum panels (clear or brass anodized finish)

### Control Upgrades:

- Key switch controls in car operating panel and/or hall stations

\*Not available with melamine wall panels.

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*Specifications and/or colors subject to change without notice.*

Manufactured in USA.



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