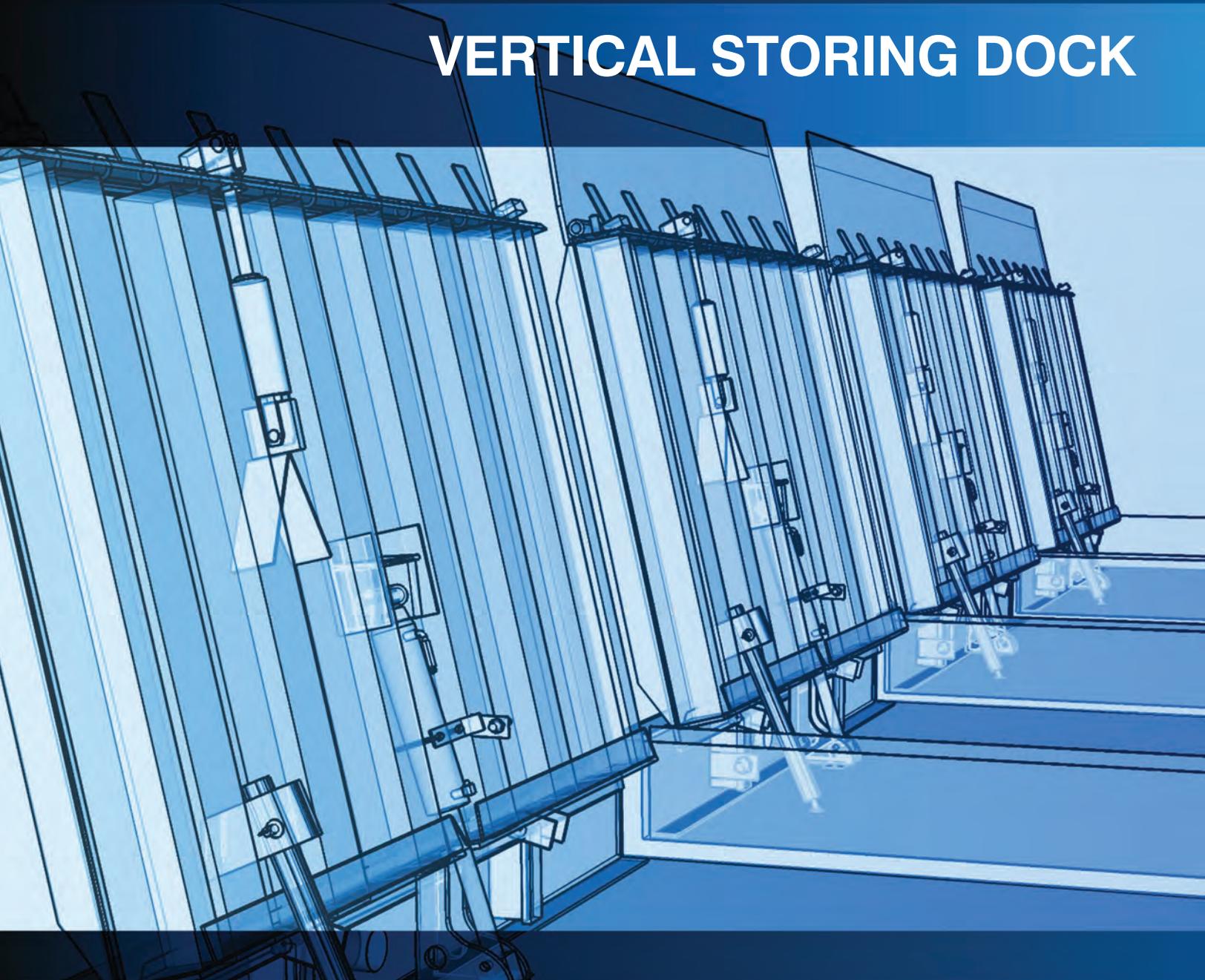


**BLUE GIANT**®  
VERTICAL STORING DOCK LEVELER

## VERTICAL STORING DOCK



ENERGY SAVINGS • SECURITY • CLEANLINESS  
ALL IN ONE EFFICIENT DESIGN

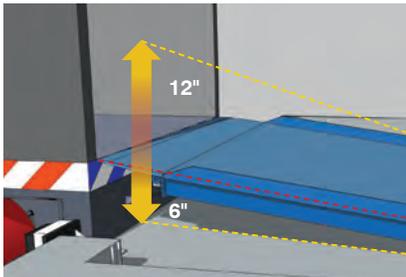
# VERTICAL STORING DOCK

## THE BLUE GIANT ADVANTAGE

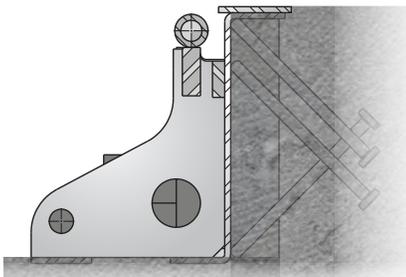
Your first choice when quoting energy-efficient projects. The Blue Giant U-Series vertical storing dock leveler is the perfect loading dock solution for facilities and applications that require strict climate control or high cleanliness levels. It improves internal temperature control, reduces the risk of door damage, and minimizes debris entry.



One-piece lip hinge pin enables a stronger distributed load. A fixed lip fully supported at the headboard is also available for unique applications.



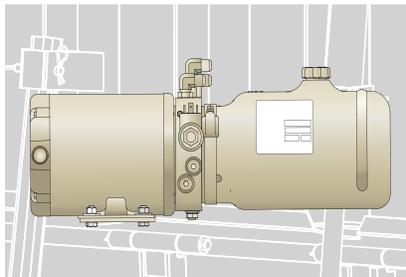
Operating range is up to 12" (305mm) above and 6" (152mm) below dock level.



Full rear frame is embedded into concrete, enabling a robust installation and improving the dock's rear support.



Deck will flex up to 4" (101mm) when under load, to ensure full-width contact between the lip and the truck bed. The fixed rear hinge remains flush with the floor to eliminate pinch points.



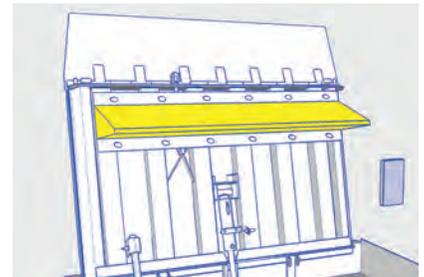
Comes complete with a 1HP, Totally Enclosed Non-Ventilated (TENV) power pack system. Because the power pack is not installed in the washdown area, the risk of water damage is removed.



Minimum of 6 U-beam channels (with twelve distributed load points) make the deck less susceptible to 'dishing'—extending the working life of the dock leveler.



The inverted deck cylinder is continually self-bleeding, reducing internal corrosion and increasing velocity fuse efficiency.



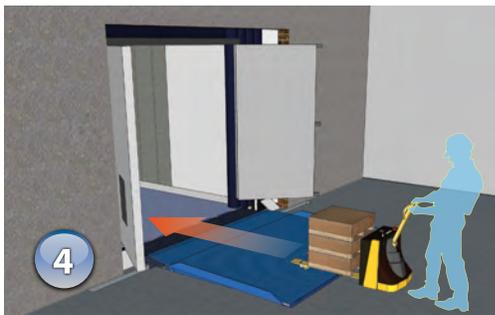
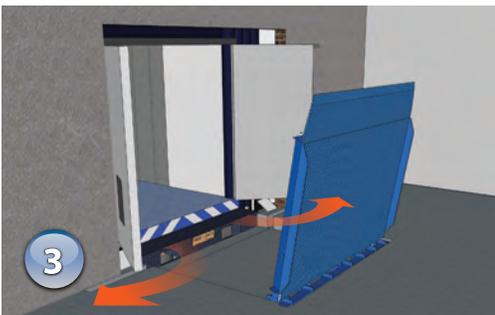
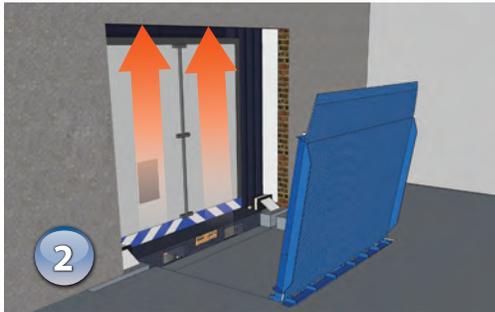
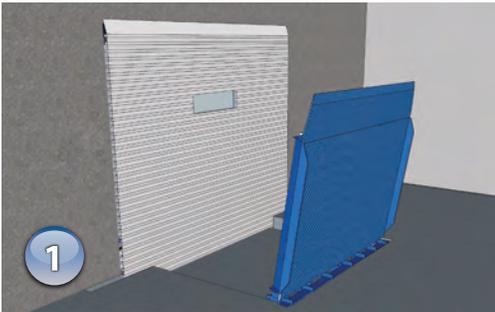
The optional foam draft pad provides additional sealing against outside elements and enables better environmental control.



Optional exterior traffic lights elevate safety conditions when the dock is in use. Low-profile, weather-proof and impact-resistant, the red and green LED lights advise truck drivers when it is safe to depart.

# VERTICAL STORING DOCK

## DRIVE-THRU APPLICATION



**1** Vertically stored over-center, allowing the overhead door to remain closed, providing a tight seal.

**2** Trailer doors can remain closed and truck driver does not need to get out of the cab.

**3** Dock attendant opens the trailer doors inside of the building and lowers the leveler into position.

**4** Loading and unloading process takes place like a standard pit-mounted leveler.

## SAFETY FEATURES

**1** Hydraulic velocity fuse prevents platform free-fall in the event of hose rupture or hydraulic solenoid failure.

**2** Stationary side tapered toe guards have high visibility to comply OSHA safety striping.

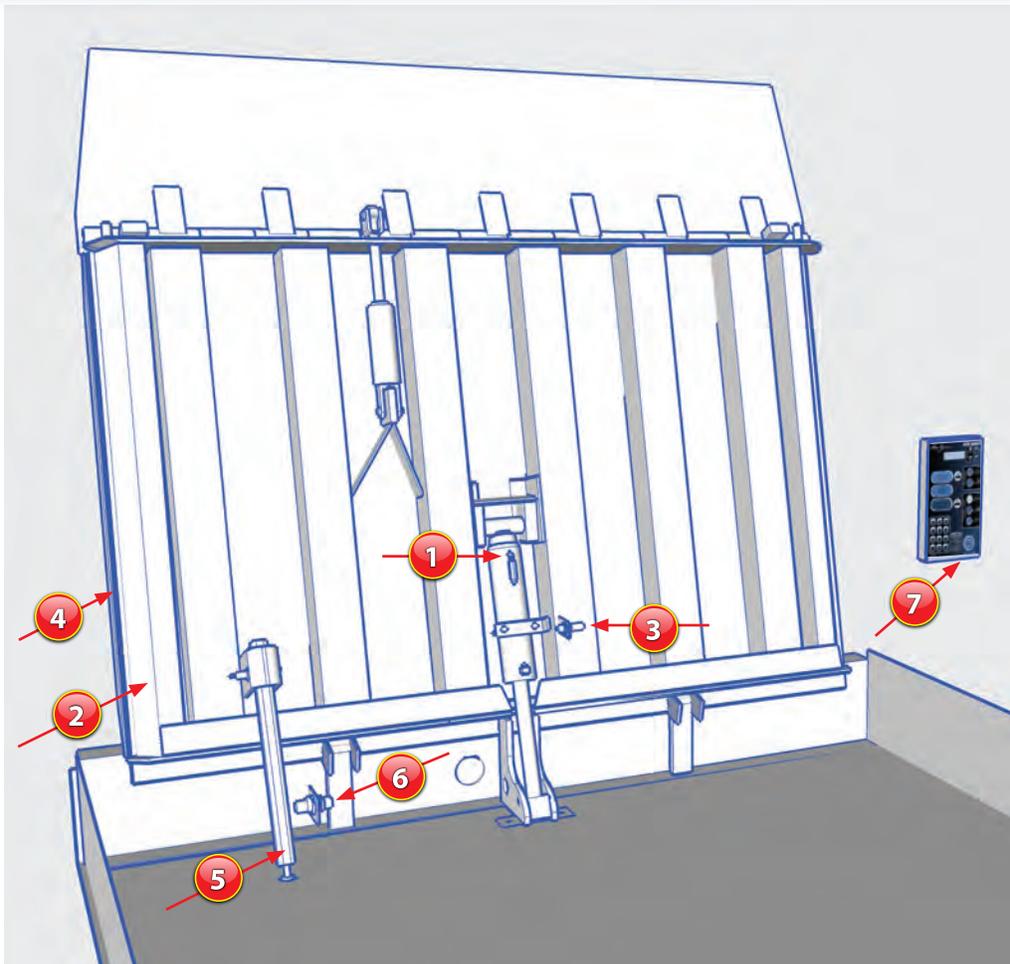
**3** The home position sensor communicates deck position status to the system, advising when it is safely stored.

**4** 3" (76mm) high run off guards prevent forklift drivers from accidentally driving off the side of the deck.

**5** A maintenance strut supports the deck for safe under-deck maintenance and inspection.

**6** The range sensor electronically enables constant deck float, allowing it to consistently match the trailer height and reduce the risk of worker injury and cargo damage.

**7** STOP button on control station halts the dock in mid-travel during an emergency condition.



# VERTICAL STORING DOCK

## APPLICATION BENEFITS



### Secure Holding

Vertical storing dock levelers are installed in a specially designed loading bay. In the ideal application, the truck backs tightly against the bay, forming a complete seal that keeps out environmental contaminants such as dust, rain and snow. The dock attendant then opens the trailer doors and lowers the dock leveler into position. (Pit style leveler applications require that the trailer doors be opened prior to backing in, raising the risk of contamination.)



### Temperature Control

This type of 'drive-thru' application improves efficiency and minimizes energy loss, making vertical storing dock levelers an ideal solution for refrigerated trailers and facilities requiring high sanitation levels, such as food and medical product storage. When not in use, the dock leveler is stored in a vertical position, allowing the overhead door to close all the way to the pit floor.



### Cleanliness

When the leveler is stored, the overhead door can close all the way to the pit floor. Dirt, insects, and rodents are kept out, and the tight seal enhances building security by deterring unauthorized entry. The vertical storing position enables a more thorough pit cleaning, keeping internal sanitation levels high.

## INCREASED PERFORMANCE OPTIONS



- 18" (457mm) and 20" (508mm) lips, to suit all trailer types and grades.
- Environmentally friendly biodegradable oil, supporting an environmentally sustainable facility.
- Three-wheel forklift center deck support, eliminating dishing when crossed by tri-wheeled loading dock vehicles.
- Foam draft pad.

# VERTICAL STORING DOCK TOUCH CONTROLS

## BLUE GENIUS™ DOCK CONTROL

Intelligent dock control is now available at the touch of a finger...

### BLUE GENIUS SERIES I PANEL



Rated NEMA4X / IP65  
(wet and corrosion resistant).

Bright LED lights.

**Touch Keypad:**  
Enables supervisory override and advanced security features.

#### LCD Screen:

Provides real-time, easily understood instructions for operation, diagnostics, and maintenance.

Supports independent lip control, enabling below-level and end-loading applications.

Constant-pressure touch buttons allows the dock attendant to safely control the deck at all times.

The U-Series vertical storing dock leveler is controlled by the Blue Genius Gold Series I Dock Control Panel, with an interior and exterior LED lights communication system available as an option.

# VERTICAL STORING DOCK CAPACITY RATING

## CAPACITIES

### STATIC

30,000lb (13,636kg)

40,000lb (18,144kg)

35,000lb (15,909kg)

45,000lb (20,455kg)

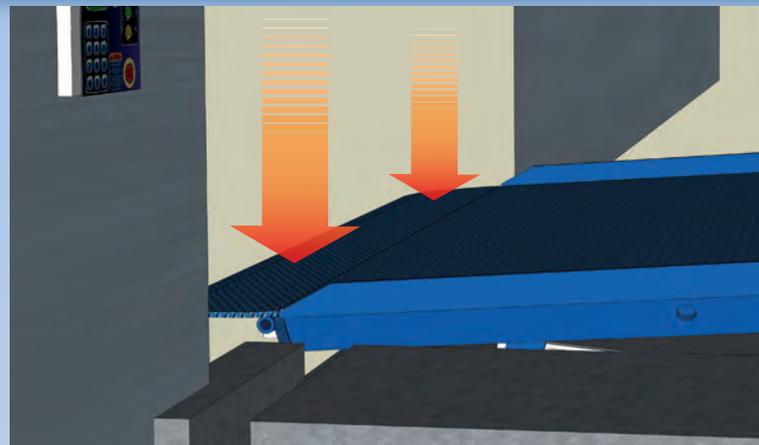
### DYNAMIC

15,000lb (6,818kg)

20,000lb (9,072kg)

17,500lb (7,954kg)

22,500lb (10,227kg)



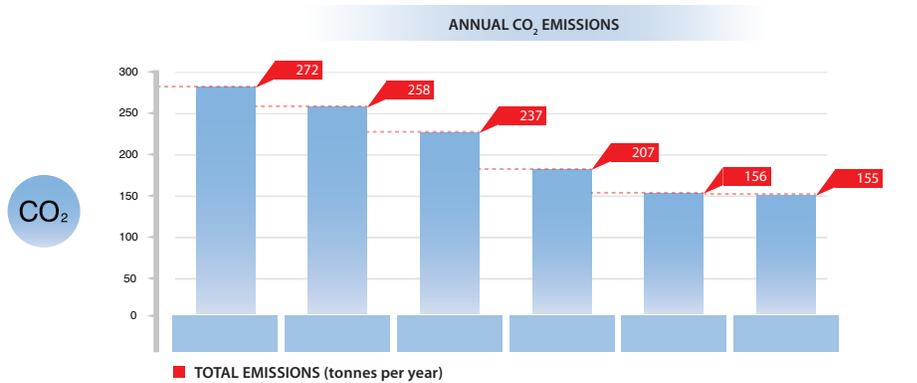
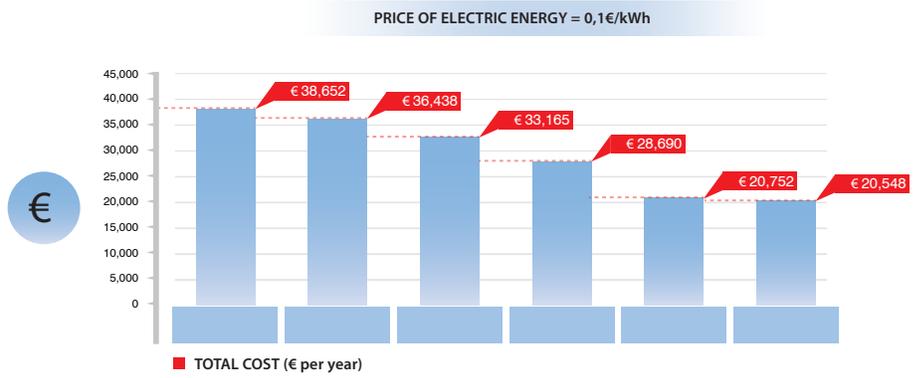
# VERTICAL STORING DOCK

## CASE STUDY RESULTS

### ANNUAL SAVINGS

A July 2010 study conducted in Valencia, Spain, calculated the energy savings obtained when vertical storing dock levelers, combined with inflatable shelters were installed in facilities that handled frozen / refrigerated products, fish, and vegetables. See the accompanying charts, which illustrate both the financial and CO<sub>2</sub> emission savings per city. Results varied based on facility type (i.e. frozen vs. fresh food storage, local climate, and time of day when loading / unloading took place) but in each instance there was a definite savings observed. Researchers estimated that vertical storing dock levelers would save the Valencia facilities (49 loading bays) an estimated €168,000\* per year.

Facilities handling frozen products witnessed a total savings of 57.2%, followed by a 19.6% savings at refrigerated products locations.



For optimum results, Blue Giant recommends the addition of an inflatable dock seal or shelter to a vertical storing dock leveler application. Seals and shelters improve a facility's cleanliness levels and save money via reduced energy costs.

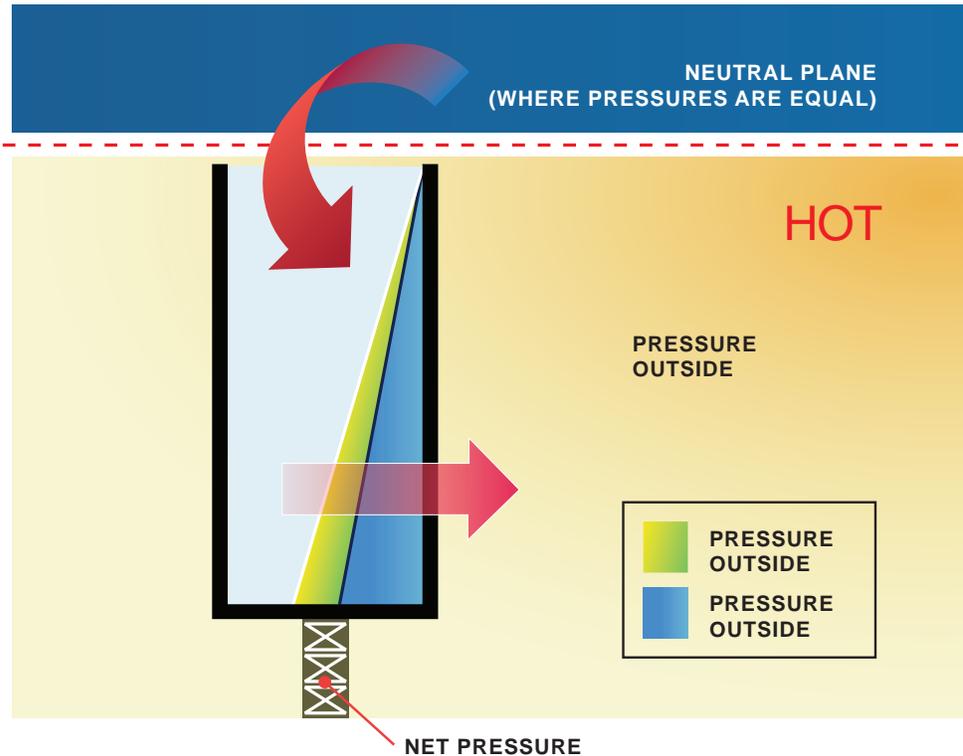
\*(Equivalent to USD \$232,000 or 1.2% ending March 2011)

# VERTICAL STORING DOCK

## SUSTAINABLE DESIGN

### COLD AIR STACK EFFECT

Infiltration of outside air creates what is commonly known as a “cold air stack effect”. When a refrigerated facility or trailer is exposed to a warmer outside environment (i.e. opening the doors), the colder, denser internal air rushes out, driven by the pressure difference, while the more humid external air flows inside.



When a loading dock facility uses vertical storing dock levelers, they reduce their carbon emission levels and make even the busiest warehouses more environmentally friendly. Energy loss is also minimized, which leads to decreased operating costs. Depending on facility location, additional incentives can include tax deductions and credits, loan and grant programs that fund the purchase of sustainable equipment, and expedited permit approvals that many municipalities offer to 'green' construction projects.

Think Green -  
Buy Blue



**BLUE GIANT**<sup>®</sup>  
BLUE GIANT EQUIPMENT CORPORATION

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Brampton, ON, Canada L6W 3K2  
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**USA** 6350 Burnt Poplar Road  
Greensboro, NC 27409  
[www.BlueGiant.com](http://www.BlueGiant.com)

D-VSDL-062813

Blue Giant offers a full line of dock levelers, dock safety equipment, seals and shelters, accessories, ergonomic and scissor lift equipment and industrial trucks. Concurrent with our continuing product improvement program, specifications are subject to change without notice. Please contact Blue Giant for latest information. Some features illustrated may be optional in certain market areas.

If calling within North America: t 1.800.668.7078 f 1.888.378.5781

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