Eco Cold
by Chase Doors







Eco-Cold Low Temperature Doors

Attention to Detail

Chase Doors began operating in 1932 as an insulated walk-in cooler and specialty refrigeration equipment manufacturer. Today, with over 400 employees and four vertically integrated manufacturing facilities, Chase has earned its reputation for high quality products that are reliable, durable, at the best prices and the shortest available delivery times.

Durable, Quality and High Performance

Durable, quality and high performance doors are our top priorities, starting the moment the order is received. Not only does Eco-Cold™ use premium materials, hardware and accessories, but our in-house engineering team and customer service department check every order before sending it to production, making sure the specifications exactly meet the application requirements.

The Eco-Cold production facility is supported by a vertically integrated manufacturing operation including CNC stamping, metal bending and shearing stations, a welding station, track and operator sub-assembly stations, a foaming operation and final assembly operations with final quality assurance procedures. A seasoned production team, including experienced craftspeople that are cross trained to perform a variety of duties, ensures that Chase can meet customer demand with minimal disruption.





CNC Router

Quick and Easy to Install

Quality doesn't stop after the door is manufactured and passes the final inspection. We ensure that each door will arrive safe at the installation site with custom packaging for each door. All doors ship complete with a casing system, reducing installation time. Most components are pre-assembled, reducing field labor and eliminating potential installation errors. Motor operated doors are assembled and bench tested to ensure maximum performance right out of the box. All Eco-Cold doors are quick and easy to install and backed by a five year warranty.





Eco-Cold Performance

From walk-in coolers to industrial warehouse applications, Eco-Cold low temperature doors combine the latest technology, premium materials and design features to meet the demanding requirements of the cold storage industry. Available as a sliding, swing and vertical lift door, all Eco-Cold products incorporate a tough and thermally neutral fiberglass reinforced pultrusion (FRP) framework, extruded plastic polymer casings and Non-CFC foamed-in-place polyurethane core. We understand the conditions that cold storage doors must endure. Superior design methods and non-corrosive materials ensure that Eco-Cold doors will perform and look good for the long haul!

Extruded Plastic Polymer Casings

Traditional cold storage doors are manufactured with wood frames and casings. However, wood swells, warps and rots when subjected to moisture and large temperature differentials. Pressure treated wood can solve the rotting problem, but tends to warp even more than untreated wood. Organic materials such as wood can also harbor bacteria, mold and fungus. Fiberglass reinforced pultrusions (FRP) eliminate the need for an internal wood framework.

Advantages of Fiberglass:

- Conducts extremely little thermal energy
- As strong as steel, but 30% lighter
- Maintains its shape over a wide range of temperature differentials
- Impervious to water and moisture so it will never swell or rot
- Weighs considerably less than wood based products, making the door easier to open and close
- Maintains its properties even in extremely cold conditions
- Easy to clean



FRP Framework

Fiberglass Reinforced Pultrusion Framework and Non-CFC Foamed-in-Place Polyurethane Core

The unique design of each Eco-Cold FRP extrusion uses many ribbed cavities that capture and hold the Non-CFC foamed-in-place polyurethane insulation. This produces an incredibly strong panel that has high impact resistance, yet weighs less than traditional wood frame designs. Inorganic polymer material has also replaced the traditional wood blocking that is used to attach the hinge, handle and other hardware. This truly remarkable door comes standard with stainless steel fasteners and is backed with a five year warranty!





Eco-Cold Sliding Doors

The Eco-Cold horizontal sliding door, designed for high cycle, abusive applications, is the workhorse of our product offering. We offer single and bi-parting doors for coolers and freezers in a variety of finishes. The Eco-Cold design features a heavy duty FRP framework, heavy duty track system with permanently lubricated rollers and molded polymer casings. These "best in class" features all come in either manual or motor operated systems. Standard 4" thick and optional 6" (for applications below -20°F) are available.

PerfectSeal and EHD

Combine the PefectSeal gasket system with the extreme heavy duty track and eliminate the traditional "down and in" closing motion. Traditional cold storage doors have a track system that causes premature wear of the gaskets by pulling the panel down and in towards the gasket when closed. This ensures a positive seal, but makes the door difficult to open. The PerfectSeal gasket system eliminates the need for this, making the door easier to operate. Simple is better.



PerfectSeal™ Gasket System

Extreme Heavy Duty Sliding Track

Sliding cold storage door systems have to stand up to extreme conditions and heavy usage everyday. The Eco-Cold EHD (extreme heavy duty) track system is ideal for any size door in the most abusive environment. The EHD track system has been designed to perform dependably for years with virtually no required maintenance. An optional hood system is also available with the EHD track. Manual doors come standard with an adjustable track mounted hold close bracket. The hold close device prevents "bounce back" on manually operated doors.



PerfectSeal™ Gasket System

Most major cold storage door manufacturers utilize a balloon type seal that is either attached to the jamb casing or the door panel. This type of seal is subject to wear and tear during normal operation and is easily damaged. Unlike traditional cold storage doors where the gasket is on the front face, the PerfectSeal gasket system utilizes a two-ply, fabric reinforced blade seal against the top and side edges of the door panel. This solves a number of issues including frequent replacement of worn out seals, wear and tear on sealing surfaces and gasket damage from impact. It also minimizes air infiltration and moisture problems common to traditional cold storage doors, even when less than perfect conditions exist.



Extra Heavy Duty (EHD) Track System

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Under Panel Guide System

All Eco-Cold cold storage doors incorporate an adjustable floor guide system that installs under the door panel. This concealed design eliminates the floor rollers that many cold storage doors require. The under panel guide is easy to install, can be adjusted for a perfect seal, and has a much cleaner look than bulky rollers that are prone to being hit by loads passing through the opening.



Adjustable Concealed Floor Guide System

Roller Assembly

Eco-Cold heavy duty rollers incorporate a built in anti-derail design that insures that the door system remains on the track and operational. Slotted mounting holes and a jack bolt make installation and adjustment of the door system quick and easy. Permanently lubricated rollers provide smooth, quiet performance for many years.





Design Features and Benefits:

- Specially designed gusseted steel corner brackets are machined to perfectly fit inside the profile of the FRP pultrusions, providing exceptional frame strength and eliminating the need for aluminum, wood and PVC bracing.
- Unique design allows Non-CFC foamed-in-place polyurethane insulation to lock components in place with the fiberglass reinforced polymer (FRP), producing an extremely durable, insulated panel.
- Door panels are available in 4" and 6" panel thickness with an R Value of 32 and 48, respectively.
- Maintenance free heavy duty extruded aluminum track rail with two 700 pound capacity 1-1/4" wide x 4" diameter double ball bearing polyurethane rollers, rollers backed with lifetime warranty.
- Heavy duty 2-1/2" diameter non marking floor roller or UHMW under-panel track guides with stainless channel guide the sliding panel as it opens and closes.
- Freezer doors have perimeter heat to prevent moisture or ice buildup.
- Electric models feature a manual emergency release on both sides of the door to allow access during power failure. All freezer doors are ETL listed.
- All door components including track, panel gasket system and optional operator are designed to provide years of trouble free service.
- Factory tested and shipped ready for installation.
- All doors are custom manufactured to your exact requirements.

Sliding Door Options

Eco-Cold Sliding Doors Options

- Standard finish is 26 gauge USDA embossed white galvanized steel. Optional finishes include stainless steel, embossed white aluminum, embossed mill aluminum, smooth white galvanized, embossed black galvanized, embossed white galvanized, smooth white aluminum and embossed gray galvanized
- Vision panels available in non-heated (cooler) or heated (freezer) versions
- Polished aluminum diamond kickplates and satin finish stainless steel kickplates.
- Powder coated, galvanized or stainless steel track hoods for washdown or exterior applications
- 6" door thickness with an R Value of 48, for extreme cold environments
- Backup mirror image casings
- Jamb wall caps
- Thru-wall jambs (constructed with molded polymer plastic)
- Padlock locking device (available with electric interlock)
- Metal clad vertical casings and header
- Motor Operated 1900-RLS with NEMA 4X enclosure
- 1900-RLS for washdown application includes; NEMA 4X enclosure, washdown motor and gear reducer and a stainless steel drive chain.
- An array of activators includes radio control, motion detectors, photo cells and induction floor loop
- All operated doors ship with two pull cord activators (freezer models - 1 heated, 1 non-heated)
- Time delay close
- Electric interlock
- 3-button control (open-close-stop)







Extreme Washdown Package

For applications requiring heavy washdowns, we offer the ability to create an extreme washdown sliding door. This door includes the following stainless steel:

- Hangers
- Rollers
- Top roller brackets
- Bottom roller brackets
- Stop brackets
- Fasteners
- Hood

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Eco-Cold 1900-RLS Operator

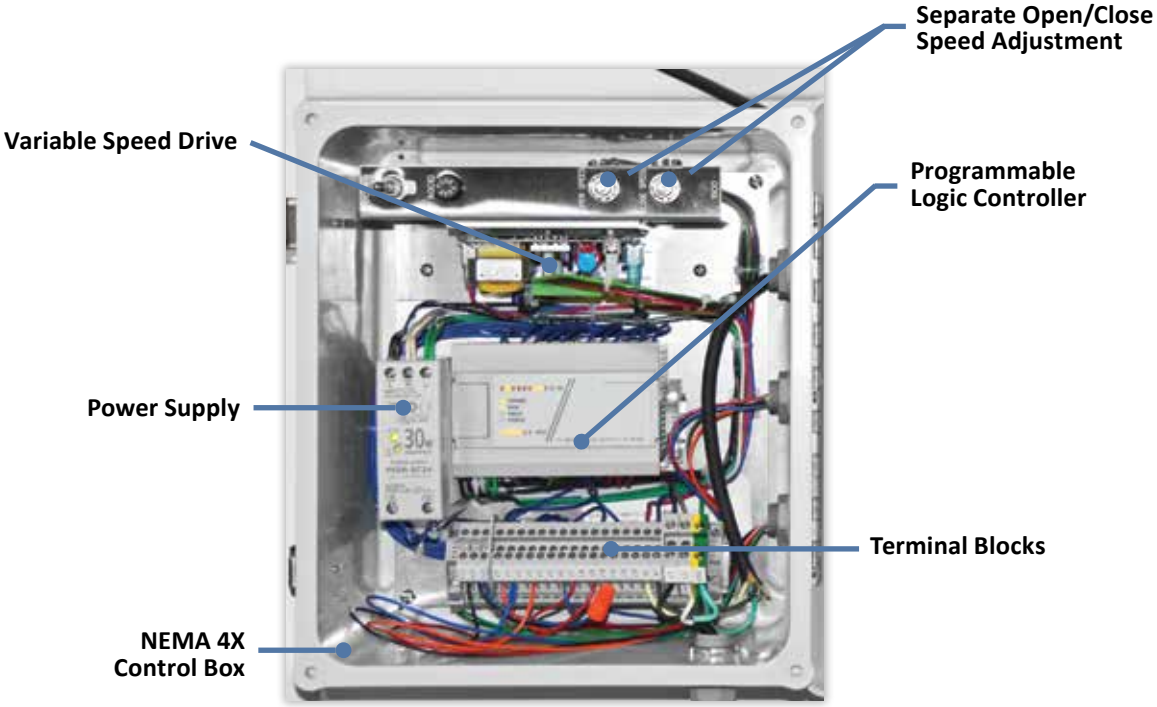
Developed and designed by Chase Engineers, the 1900-RLS provides exceptional performance in cold storage environments. The 1900-RLS provides field proven safe, dependable operation. Even large, heavy doors operate smoothly and effortlessly. The 1900-RLS incorporates standard features including pre-wired components, variable speed operation with soft start/stop, a rotary limit switch, and a NEMA 4X control box. The soft start feature ensures smooth panel travel on startup, stop and reversing. The rotary limit switch is preset to 90% of travel at the factory reducing installation time and potential field mistakes that can occur in the field. Plus, permanently lubricated components and self-diagnostics reduce troubleshooting and maintenance that is typical on many door systems.





Standard Features Include:

- A NEMA 4X enclosure
- Variable speed motor opens at speeds up to 40 inches per second for a single slide door and up to 80" per second for a bi-parting door (subject to door size)
- Soft start/stop feature allows the operator to slow down at the end of the door's travel adding life to the door system and provides an added measure of safety and reduced preventative maintenance
- Pre-wired and pre-mounted control panel from the factory simplifies installation and allows the factory to fully test the operator prior to shipping, virtually, "plug and play"
- 120, 208, 240, or 480 volt incoming single and 3-phase power options available
- UL listed and labeled control panel



Eco-Cold Swing Door

When environmental control is necessary, Eco-Cold low temperature swing doors provide maximum sealing for any new or replacement applications. Single or double panel Eco-Cold swing doors are suitable for interior and exterior applications and are available with a wide variety of options including panic hardware. Eco-Cold swing doors incorporate a tough and thermally neutral fiberglass reinforced pultrusion (FRP) framework, FRP face casings and Non-CFC foamed-in-place polyurethane core. This innovative design produces a strong and durable door system that will provide years of worry-free service. Magnetic vinyl push-in gaskets are standard on all Eco-Cold swing doors. Magnetic gaskets accommodate more "out of square" conditions than traditional compression gaskets and ensure a positive seal, to minimize energy loss.

Design Features and Benefits

- Unique design allows Non-CFC foamed-in-place polyurethane insulation to lock in place with the fiberglass reinforced polymer (FRP) producing an extremely durable, insulated panel.
- Magnetic vinyl push-in gasket is standard on all Eco-Cold swing doors.
- A variety of finishes are available, the standard finish is 26 gauge USDA stucco embossed galvanized in gray, white or black.
- Heavy duty chrome plated hinges and latch. Nickel plated strap hinges are standard on larger doors.
- Frame is flush with the floor line, making installation easy as there is no need to embed a sill in concrete.
- Self-lubricating cam lift hinges raise the door when opened, providing reduced friction on floor seal.
- Door panels are available in 4" and 6" panel thickness with an R Value of 32 and 48, respectively.
- Emergency release latch allows the door to be opened from the inside even when padlocked from the outside (shown on following page with glow in the dark option).
- All doors are custom manufactured to your exact requirements.
- 115V full perimeter heat is standard on freezer doors.
- Factory tested and shipped ready for installation.







Overlap Door

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Eco-Cold Swing Door Options:

- Cladding: Stainless steel, embossed white aluminum, embossed mill aluminum, smooth white galvanized, embossed black galvanized, embossed white galvanized, smooth white aluminum and embossed gray galvanized
- Backup mirror image casing
- Jamb wall caps
- Thru-wall jamb casings
- Keyed latch
- Door closer with standard soft touch latch
- Casing mounted thermometer
- Casing mounted light switch
- Panic bar latching hardware
- Heat in door and casing (recommended on freezers below -20°F)
- Polished aluminum diamond tread kick plates
- Satin finish stainless steel kick plates
- Heated or non-heated vision windows
- Heated or non-heated threshold
- 6" door thickness for extreme cold environments
- Custom sizes available



Shown with thermostat, light switch & diamond alum. kickplate



Panic Bar



Glow in the Dark Emergency Release Latch



Chrome Plated Latch



Eco-Cold Vertical Lift Doors

The Eco-Cold vertical lift door is available with electric and manual operation, is ideal in applications where there is minimum side room or when several door openings are close together as with warehouse loading docks.

As with all Eco-Cold doors, the vertical lift door incorporates an FRP perimeter framework creating a durable, long lasting door panel. Vertical lift doors are available for cooler or freezer applications, are available in 4" and 6" thick panels and can be manual or motor operated.





Design Features

- Door track is designed for smooth travel and a tight seal.
- Heavy duty hardware and track coated for corrosion resistance, including 3" tracks, torsion spring and two pull cord switches each with 20' polypropylene pull cord for electric models.
- EPDM synthetic "T" rubber seal on face of casings. Track mounted neoprene rubber low temperature cloth reinforced gasket on bottom edge of door.
- Freezer doors are equipped with 115 volt perimeter heat cables.
- Optional counterbalance weight system is available.
- Manual or electric operation.
- Door panels are available in 4" and 6" panel thickness with an R Value of 32 and 48, respectively.
- All doors are custom manufactured to your exact requirements.
- Every door completely tested before shipping.

Power Operator

- Totally enclosed, fan cooled, 3/4 HP, jackshaft electric operator
- Photo-eye beams mounted near floor level on door casing, stops and reverses door to fully open position if any obstruction is sensed while closing
- Includes two pull cords (1 heated in freezer applications)

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Eco-Cold Vertical Lift Options:

- Stainless steel, embossed white aluminum, embossed mill aluminum, smooth white aluminum, smooth white galvanized and smooth galvalume
- Heated or non-heated vision window panel
- Backup mirror image casings
- Modified vertical lift design
- Chain hoist
- Jamb wall caps
- Aluminum diamond tread kick plate
- Satin finish stainless kick plate
- Custom sizes available
- Vertical lift power operators







Color Options

In addition to stainless steel, Eco-Cold doors are now available in white, gray and black. Standard finish is 26 gauge USDA embossed white galvanized steel. Optional finishes include stainless steel, embossed white aluminum, embossed mill aluminum, embossed black galvanized, embossed white galvanized, embossed gray galvanized, smooth white aluminum, smooth white galvanized, and smooth galvalume.


Stainless Steel

Embossed White Aluminum

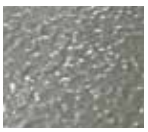

Embossed Mill Aluminum

Smooth White Galvanized


Embossed Black Galvanized

Embossed White Galvanized

Smooth White Aluminum


Embossed Gray Galvanized

Colors may vary, contact Chase Doors for exact color match.



Eco-Cold Doors are marked exclusively through CSI Group of Companies

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In our continuing effort to improve our products, some specifications or descriptions may change. We reserve the right to make such changes without noice or recourse.