



Eiger Door™

- ✓ IMPROVING EFFICIENCY
- ✓ SAVING ENERGY
- ✓ REDUCING COSTS!



Eiger Door™ - the first automatic fast acting Freezer Door with Crash Protection invented to operate reliably at high speed, thus eliminating frost and ice on the door blade and around the freezer opening.

Union's Eiger Door™ key features:

Internal only freezer door for cold store openings to -30 °C

Ideal for frequently used doorways

Standard Size Range – up to 4m wide and 6m high

Twin-skin double door blade system

Opening speed typically 1.6 m/s

Dry-air recirculatory system with independent dehumidifier

Crash-Out & Auto-Reset damage protection feature

Suitable for use by all traffic types

Can also be mounted on the freezer side of the opening.



Lifetime Warranty Scheme now included!



www.unionindustries.co.uk

Standard Specification

'CRASH-OUT & AUTO-RESET':

Includes the unique 'Crash-Out & Auto-Reset' facility for which Union's range of Hi-Speed Doors is famous.

DOOR BLADE:

750gsm PVC coated Polyester with smooth anti static Finish. Fire Retardant to ISO 340. Double-skinned construction separated by 100 mm thermal gap and reinforced by integral steel wind braces concealed within horizontal pockets. Vertical edges welded with double thickness rub strips to resist wear and increase blade life.

DOOR BLADE COLOUR:

White with Blue rub strips.
(Option of Red or Green Rub strips.)

COLUMNS & SIDE GUIDES:

Twin 5mm thick square hollow section steel columns. Grade 304 Stainless Steel side guide pressings (bolt-on construction for quick and easy replacement). Fundamental to the circulatory dry air conditioning system is the segmental Stainless Steel central pillar fitted between and separating each pair of columns.

TOP ROLLER:

2 off 4mm wall steel tubes terminating at each end with stepped stub shafts running in self aligning bearing units, speed synchronised via twin simplex chain drives at each side with trans-torque collet type bushes.

BOTTOM BAR:

2 off steel rectangular hollow sections separated by steel spacers, sandwiched between two stainless steel pressings. Each beam fitted with Safety Edge Contact Profile, PVC Safety Edge Protector and padded Safety Buffers. Flexible 'breakout tabs' bolted to each end of the leading beam.

FINISH:

Steel parts and bracketry de-greased, blast cleaned, pre-treated with anti-corrosive primer and finished with hygienic anti-bacterial powder coating. Standard Colour: White RAL 9003. (Any RAL colour available as an option.)

DRIVE:

1.5Kw foot mounted brake geared motor drives top rolls.

SPEED:

Door opening: Variable up to 1.6m/sec (maximum)

Door closing: Variable up to 0.7m/sec (maximum)

TOP ROLL HOOD COVER:

The fully enclosing hood cover, supported by substantial sub and base frame, is an essential part of the dry-air circulation system and additionally provides a warm air reservoir for the protection of the double top rolls, drive and geared motor unit.

SEALING & INSULATION:

The standard fixing position of the Eiger Door is 200mm inboard of the opening to accommodate the 'Crash-Out & Auto-Reset' facility unique to Eiger Door. 2 off galvanized & powder coated seals infill the gap between the rear column and the Freezer wall, enclosing a 'Rockwool' filled cavity with additional insulation provided by the fitting of a double skinned PVC foam encapsulated thermal jacket to the rear side guide and inside face of the side seal.

CONTROL:

Combined with an inverter, the system allows smooth starting and stopping thus reducing mechanical wear. The system allows precise adjustment of parameter settings to control the door under normal use with full safety monitoring. Control housed in 500mm x 500mm x 210mm deep IP54 rated cabinet, powder coated red, c/w Perspex diagnostic viewing window. 'Open' push button, 'Close' push button & emergency stop button.

BACK BAR & TOP SEAL:

A steel cross member bolted to the columns carries the fixing brackets and supports the top seal and a brush strip damper.

DEHUMIDIFIED DRY AIR CIRCULATION SYSTEM:

**Patented

A continuous flow of dry dehumidified air generated by the independent dehumidifier is circulated through the double skinned door blades utilising the columns and a series of ducts and galleries. Spillage of the warmed and dehumidified air is designed to escape through the brush seals into the opening on the Ambient and Freezer sides to promote the reduction of ice formation around the opening and across the door threshold through the process of sublimation. The circulated air further benefits from the addition of 2 x 1kW In-Line heaters (not required for 'Eiger 1000' dehumidifier) controlled by a Thermostat and Thermocouple to boost the temperature of the processed air.

SAFETY:

Double 'Through Beam' Photo-electric Cells –

One transmitter fitted on the face column and one fitted on the reverse side at low level, with receivers mounted on the opposite columns, inhibit the blade from closing if an obstacle is detected to the front or rear of the opening.

Double Contact Safety Edge – Low voltage electronic contact safety edge fitted to the full width of both bottom beams, immediately halt and reverses the downward travel of the door if contact is made with any obstacle.

Manual Brake Release – Pull cord to release the brake lever in order to raise the door with minimal manual assistance in the event of a power failure.

