

REFRIGERATION AND FREEZER DOORS, HIGH-SPEED (AIRLOCK) DOORS, REFRIGERATION SLIDING WALLS AND RAPID ROLL DOORS



Also see our brochure 'P-Line refrigeration, freezer and personnel doors'.
For information about doors for ULO/CA storage, see our brochure 'Gastight doors, hatches and windows'.

A world of possibilities

The better cells or refrigeration rooms are insulated, the lower the energy costs. Concerning this, as the only moving part, the door is a critical item. Salco supplies sturdy but light-weight doors that are easy to open, shut perfectly and have a high insulation value. We offer custom-made solutions for almost any situation, in which the right balance is found between accessibility, energy saving, safety, costs and durability.

In 40 years, Salco has developed into a well-known name in various industries at home and abroad. Among other places, our refrigeration and freezer doors can be found at refrigeration and high-rise cold-storage warehouses, agricultural businesses, chicken hatcheries, distribution centres, the food and dairy industry and fish and meat-packing businesses.

Horizontal single or double door, vertical door or executed as a hinged door

The 100/140 millimetre thick door is lightweight owing to the use of high-quality, seamless polyester and available in several colours. Outer frame and framing are completely free of thermal bridges and made of anodized aluminum. The doors are available in a horizontal (single or double) and vertical design. The horizontal design is provided with an anodized aluminum drop/lift-rail system with an integrated finishing cover.

The vertical design is pre-eminently suitable in situations where there is little side-space, or where goods are conveyed over the entire width of the cell. By manufacturing doors that are as wide as the cell, goods can be driven in and out of the refrigeration cell quickly and efficiently, and the cell space is utilized optimally. The vertical rail system and the support beam are powder coated in RAL 9016 (white). Electrically operated doors have various opening speeds.

For information about hinged doors, see our brochure 'P-Line personnel, refrigeration and freezer doors'.



Double refrigeration door KH-1010

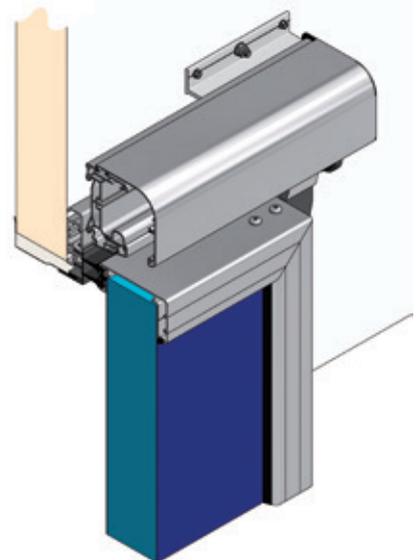


See video on www.salco.nl

Refrigeration door KH-1010(V)



The door is constructed of a core of 100 millimetre insulation material, covered with polyester on both sides and finished with anodized aluminum profiles all round, free of thermal bridges. Executed with a drop/lift-rail system and available in both a horizontal (single and double leafed) and a vertical design. Produced completely made to measure and exceedingly suitable for high-quality and sustained cooling.



Section KH-1010

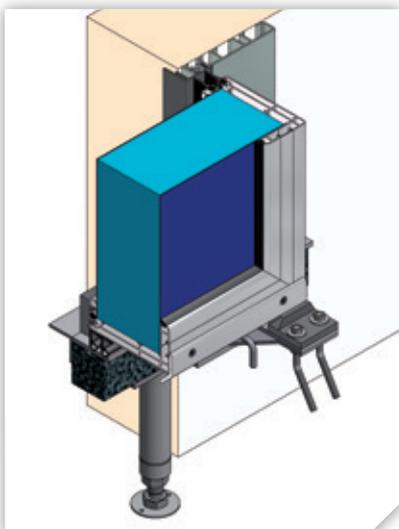


Inside opener type Pull

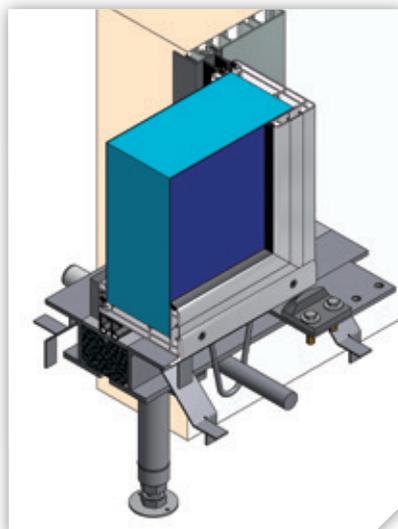
Freezer door VH-1414(V)



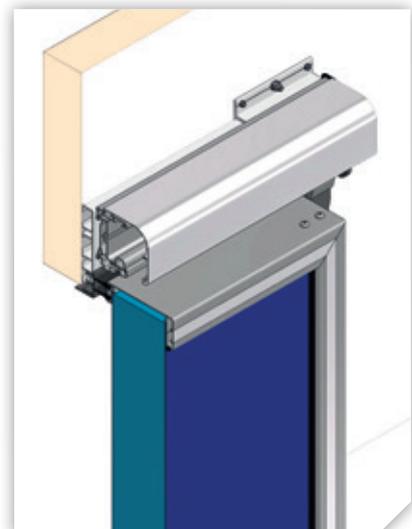
The door is constructed of a core of 140 millimetre insulation material, covered with polyester on both sides and finished with anodized aluminum profiles all round, free of thermal bridges. Executed with a drop/lift-rail system and available in both a horizontal (single and double leafed) and a vertical design. The doors are equipped as standard with frame heating in the door frame and optionally a heated threshold. For specific situations you can opt for extra heating in the door leaf. Another option you can opt for is a threshold with a gliding dowel construction, a long-term solution that keeps the inside and outside floors at one level and realises a controlled shrinkage.



Standard threshold



Threshold with sliding dowel construction



Section VH-1414



Horizontal freezer door VH-1414 (2.25m wide, 9m high)



Double freezer door VH-1414

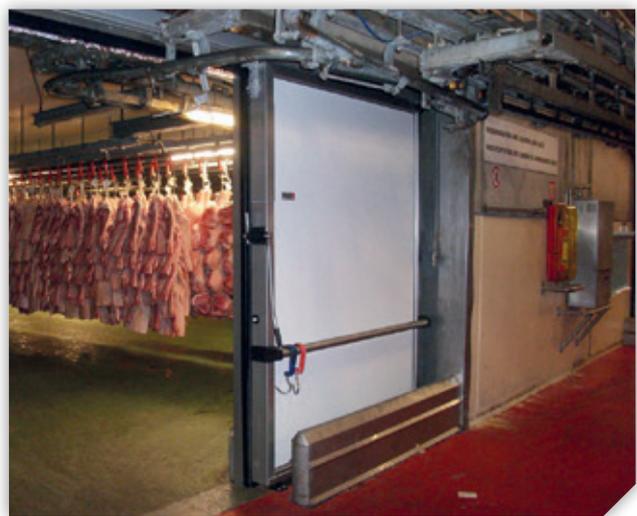
 See video on www.salco.nl

Stainless steel refrigeration and freezer door, KH-0910(V)/VH-0914(V)



Electrically operated refrigeration door type KH-0910, completely executed in stainless steel

For use in the food processing industry Salco supplies special designs in which the framing profiles of the door, the outer frame and the rail are executed in stainless steel 304. Often stainless steel door paneling is chosen automatically, but it is not that self-evident. With larger doors, for example, stainless steel cannot be processed seamlessly and is not always completely rustproof, for instance in an environment where aggressive acids are employed regularly (such as nitric acid). In addition to stainless steel there are other high-quality materials, such as polyester, that comply with the extremely high requirements. Even for spaces where the highest hygienic requirements must be met, there are excellent food-safe solutions with plastic door covering. Lightweight, sharply priced, fitting in any architecture owing to the colour possibilities and of course completely rustproof. Furthermore, the door leaf can nearly always be processed seamlessly. In addition to the standard 1.5 millimetre food-safe polyester door covering, we can also offer an extremely impact resistant version (only in RAL 9016 (white)) as a cheaper alternative to stainless steel. Of course the door can also be covered with chased stainless steel 304/316 (sun theme).



Electrically operated refrigeration door KH-0910 with polyester door leaf, stainless steel framing, door frame and bumper

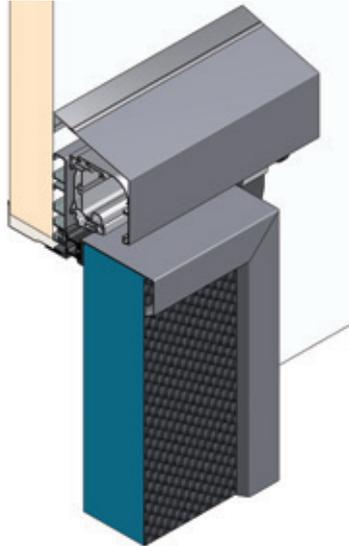


Manually operated refrigeration door KH-0910, completely executed in stainless steel



Electrically operated refrigeration door KH-0910 with polyester door leaf, stainless steel framing, door frame, bumper and aluminium cover cap

The door is not constructed out of set sheet-metal, but it is provided with strong framing profiles so that a sturdy and durable construction is formed that can survive a blow. Smooth materials with a closed surface without seams are very important for guaranteed optimum hygiene. Not surprisingly, the corners of the framing profiles are root welded so that the whole is hygienic.



Section KH-0910



Electrically operated refrigeration door KH-0910, completely executed in stainless steel with aluminium cover cap



Root welded framing corners in combination with polyester or stainless steel door paneling



Stainless steel outside opener



Stainless steel bumper

High-speed (airlock) door



Salco's first project involved a fully automatic high bay cold storage warehouse for Partner Logistics Europe B.V. in Bergen op Zoom in 2000. Since then, our doors are used in several fully automatic cold store facilities all over the world.

Modern transport systems in (high-bay) warehouses require very high opening and closing speeds to keep the entry of warm air from outside, and in some cases oxygen as well, as low as possible. Salco's high-speed doors attain extremely high speeds, both the horizontal and the vertical versions. They are suitable for frequent use and easy integration in any transport system. Whether it concerns a storage unit for frozen goods, for example chips (McCain, Lamb Weston Meijer, Farm Frites), ice creams (Unilever) or medicines (Amgen, Grifols), the diversity of designs ensures that Salco has the right door for every application. In every case a hermetic seal is provided, enabling the doors to be particularly suitable for use in rooms where for reasons of fire prevention the oxygen percentage is reduced from 21% to approx. 16%. Placement of the door in the freezing temperature is possible.





Salco is frequently involved in the design stage of a project to contribute ideas and suggestions and sketch in the doors in the drawings. This in order to avoid problems during the building process. A custom made solution can be designed in consultation with the supplier of the conveyor system. This will always include matters such as speed, feedback of data to the transport system and safety.

For the construction of the high-speed doors, customers can choose a 100mm thick door leaf (cold store door) (AL-1010 H/VK), a 140mm thick door leaf (freezer room door) (AL-1414 H/VK) or a 40mm thick door leaf (AL-0804 H/VK). The vertical (airlock) doors are balanced by counterweights.

 See video on www.salco.nl



Detail threshold



Refrigeration sliding door/wall using sandwich panels PKD-100



Sliding door wall with panels in standard colour

Door leaf consisting of steel sandwich panels with a core of 100mm insulation, finished with anodised aluminium framing profiles. The door leaf is sealed around by means of double, rubber profiles. By adjoining several doors and to have one slide in front of the other, one large sliding wall can be created enabling products to be ridden into the room fast and efficiently. The PKD-100 can be designed with a door rail system with both top and bottom rails and is available in up to very large sizes. It is also available as a construction kit excluding panels for the door. Easy to transport and with an attractive price. Applications include cooling or heating cells for flowerbulbs, lilies, chicory and potato storage.



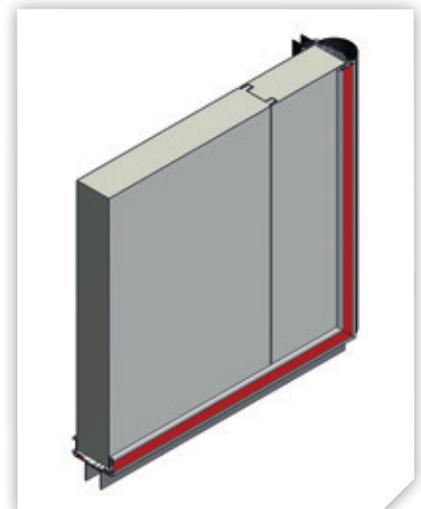
Sliding door wall (22m wide, 8m high) with panels in standard colour



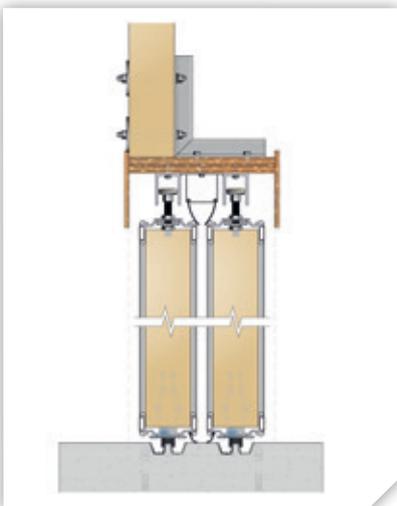
Sliding door wall with painted panels



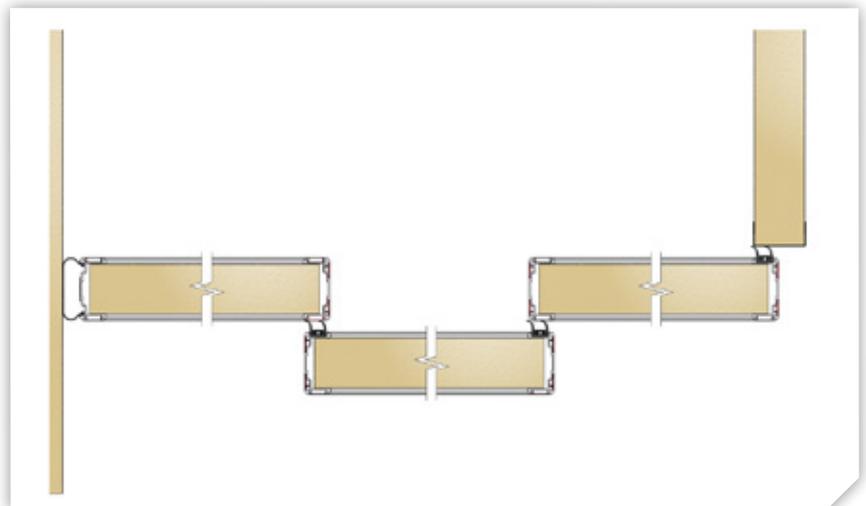
Sliding door wall (8m high) with panels in standard colour



Section PKD-100



Section detail bottom rolling sliding door PKD-100



Top view sliding door wall PKD-100

Rapid roll door SR-2020



Rapid roll doors are mainly used in locations where air movement needs to be minimised, for example because of temperature differences or for hygienic reasons. This may include sectors such as retail, the food industry, logistics and clean rooms.

The SR-2020 is a versatile rapid roll door suitable for both indoor and outdoor use. Self-repairing, with a flexible bottom beam and frequency-controlled motor. Provided with a curtain of 1,300 gram/m² and available in 12 standard colours for the curtain and 5 standard colours for the covers and the frame. The SR-2020 can also be supplied with an insulated curtain or double curtain for higher temperature differences and, if necessary, with heating in the motor and guides. The door is energy efficient, closes perfectly and can be supplied, without extra costs, with cover for roll and motor. For applications in the food industry, the door can be supplied entirely in stainless steel 304/316. The SR-2020 is available in various models and can be used in almost every sector.



Rapid roll door with windows across almost the entire door height

Rapid roll door with insulated curtain 7mm

Doors supplied as a construction kit



Standard 100mm (KH-1010/PKD-100)/
140mm (VH-1414) sandwich panel applicable

Salco supplies all doors as a construction kit especially for export (not possible in stainless steel version). The construction kit is made completely to measure, with or without (polyester) panels for the door leaf.

Advantages:

- Favourable prices
- Lower import duties
- Uncomplicated transport
- Lower transport costs owing to reduced volume
- Possibility to apply a standard 100/140 millimetre sandwich panel
- Assembly against local labour costs
- Large dimensions possible

Obviously, the construction kits will be provided with detailed installation drawings, assembly and construction manuals and films.



Detail bottom corner and bottom guider
refrigeration and freezer doors



Detailed manuals and films available



Packed in boxes, ready for transport



Detail point of suspension and outside opener
refrigeration and freezer doors

Operating options



Detail electrical control SRA-125Z



Detail electrical control SRA-250/350

Besides doors that are operated manually, doors with electrical operation are also available. This results in considerable savings in energy and greater efficiency.

Electrical operation type Door control

- Soft start/soft stop (frequency regulated), 230V
- Equipped with all safety devices in accordance with CE standard
- Potential-free contact(s) for, for instance, open/closed position, on/off switching of the lighting or refrigeration plant. Feedback positions to conveyor
- Display (English language)

Options:

- Automatic closing system, combined with photocell
- Airlock function
- Half-open position (extra pulse generator)
- Simple problems easily solved on www.doorcontrol.eu
- Locking feature optional (electromagnetic lock)

Safety devices:

- The electrical operation on a SRA-125Z rail is protected when being closed by an electronic closing force safety device. This means that a safety edge and spiral cord is not needed.
- Safety edge on the closing side of doors on an SRA-250/350 rail
- Photocell in the clear opening for automatic closing
- Optional radar as protection with a larger range than a photocell
- Optional light curtain in the clear opening
- Optional indicator light (green/red)



Controlbox

Speeds:

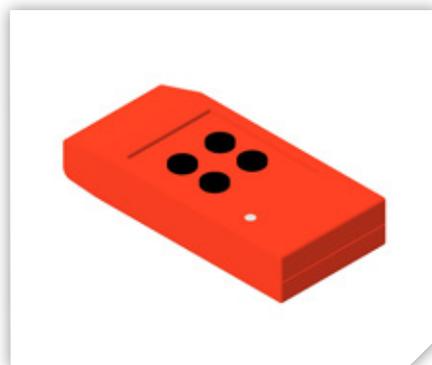
- Opening speed standard operation horizontal max. 0.9 m/sec. (single leaf), max. 1.5m/sec. (double leaf), vertical from 0.2 m/sec.
- Extremely high opening and closing speeds are possible with special (high-speed airlock) operation

Pulse generators:

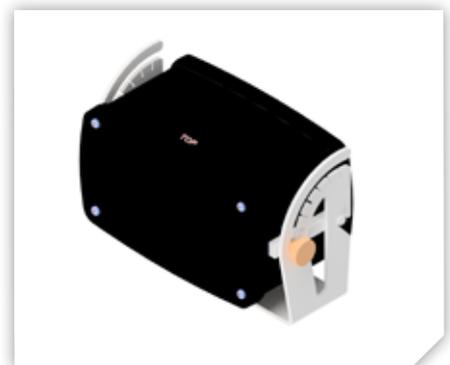
- Standard push buttons on both sides
- Optional pull switch(es)
- Optional remote control with manual or fork-lift truck transmitters
- Optional radar(s)



Pull switch



Manual or fork-lift truck transmitter



Radar

Installation and service

All our doors are designed, produced and, if desired, installed by our own staff. Everything under the same roof, so that we can guarantee a high-quality product for the full 100%. Safe, reliable, user-friendly and with a long life span.

You can also count on us after the installation of our doors. Salco disposes of an extensive service department for solving malfunctions and/or damage. Our specialists are at your service 24 hours per day 7 days per week. Fast, competent and efficient.

Periodical maintenance is the basis of a trouble-free operation. By entering into a service agreement your doors will be checked and maintained by specialists on a yearly basis. Due to this, the chance of breakdowns will be limited and unsafe situations will be prevented. Periodical, preventative maintenance means a carefree daily use of your doors and an extension of their life-span.



 Simple problems: www.doorcontrol.eu

 Parts: webshop.salco.nl

Technical specifications

Refrigeration door type KH-1010 (horizontal) and KH-1010V (vertical)

Construction	: door leaf constructed of a core of insulation material, covered on both sides with 1,5mm impact-resistant glass-fibre reinforced foodsafe polyester.
Thickness door leaf	: 100mm.
R-value	: approx. 3,7 (m ² K/W).
Framing	: anodized aluminium profiles, thermal bridge-free.
Colour of door leaf	: standard colours RAL 9016 (white), RAL 7016 (anthracite), RAL 6010 (green) or RAL 5005 (blue).
Sealing	: all round by means of rubber profiles.
Door frame	: anodized aluminium profiles with a complete thermal bridge-free fit to the wall.
Rail system	: anodized aluminium drop/lift rail system type SRA with dust hood (horizontal), galvanized and powder coated guiding system (vertical).
Operation	: manually operated (horizontal), chain operated (vertical). Electrical operation at additional price. The vertical design is balanced by torsion springs. Counterweights at additional price.
Locks	: not included. Available at additional price.
Additional options	: extremely impact resistant polyester (RAL 9016), double-door version, bumper, threshold, finish of the clear opening, rain hood and more.

Freezer door type VH-1414 (horizontal) and VH-1414V (vertical)

Construction and options are the same as the above-mentioned refrigeration door type KH-1010(V), with the following exceptions:	
Thickness door leaf	: 140mm.
R-value	: approx. 5,19 (m ² K/W).
Threshold	: not included. Heated threshold at additional price.
Frame heating	: included in door frame. Extra heating elements in the door leaf at additional price.
Additional options	: flexible threshold (a so called sliding dowel construction).

Stainless steel refrigeration and freezer door type KH-0910(V)/VH-0914(V)

Construction and options are the same as KH-1010(V)/VH-1414(V), with the following exceptions:	
Framing	: stainless steel 304 profiles, thermal bridge-free.
Door frame	: profiles covered with stainless steel 304 with a complete thermal bridge-free fit to the wall.
Additional options	: door leaf covered with stainless steel 304, drop/lift rail system, bumper, finish of the clear opening and rain hood in stainless steel 304.



Rapid roll door type SR-2020

Curtain	: fabric reinforced PVC with a weight of 1300 gram/m ² .
Curtain thickness	: 1,3mm.
Speed	: opening approx. 2,0 m/s, closing approx. 0,8 m/s (adjustable).
Curtain colour	: standard colours (approximately) RAL 9010 (white), RAL 1015 (light ivory), RAL 1003 (yellow), RAL 2004 (orange), RAL 3002 (red), RAL 6026 (green), RAL 7042 (traffic grey), RAL 7037 (dust grey), RAL 7035 (light grey), RAL 5012 (ultramarine blue) or RAL 5002 (light blue).
Window track	: 500mm high, from 1400mm.
Frame	: self-supporting frame.
Colour frame/covers	: galvanized or in standard colour RAL 3000 (red), RAL 5010 (blue), RAL 9010 (white), RAL 7037 (dust grey), RAL 9005 (black).
Motor hood	: galvanized or in RAL 9005 (black).
Guides	: patented guide system of high-performance self-lubricating polyethylene provided with zipper on the curtain.
Sealing	: flexible bottom beam (no hard parts in the curtain ensuring 100% safety).
Operation	: electrically operated with frequency regulator (400 Volt).
Protection	: self-repairing with normal use. With width ≤ 3005mm photocells in the jambs combined with roll-down protection, with width > 3005mm light curtain in the jambs.
Additional options	: insulated curtain 7mm or double curtain, special designs for use in cleanrooms and the food industry (stainless steel 304/316), heating in motor and guides for use in refrigerating conditions and more.

High-speed (airlock) door type AL-1010/1414/0804 H (horizontal) and AL-1010/1414/0804 VK (vertical)

Construction and options are the same as KH-1010(V)/VH-1414(V). The AL-0804 H/VK has a 40mm thick door leaf, R-value approx. 1,48 (m ² K/W).	
The vertical design is balanced by counterweights.	

Refrigeration sliding door/wall using sandwich panels type PKD-100

Construction	: door leaf constructed of sandwich panels, covered on both sides with 0.6mm sendzimir galvanized and coated steel plate.
Thickness door leaf	: 100mm.
R-value panels	: approx. 4,67 (m ² K/W).
Framing	: anodized aluminium profiles provided with synthetic strip in RAL 3002 (red).
Colour of door leaf	: standard colour RAL 9002 (grey white). Door leaf finished in colour to be specified at additional price.
Glazing	: exclusive, door leaf fully closed.
Sealing	: all round by means of double rubber profiles.
Rail system	: top or bottom rolling in galvanized steel finish.
Operation	: manually operated. Electrical operation at additional price.
Locks	: pin lock on the in- or outside to secure the door.
Additional options	: cover / rain hood, double-door version, pass door, bottom rail with gutter construction and more

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