



Chiller and freezer doors

Access through technology

SALCO 

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About Salco

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



A world of possibilities

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The better cells or cold 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.

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

The 100/140 mm 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 aluminium. The doors are available in a horizontal (single or double) and vertical design. The horizontal design is provided with an anodized aluminium 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 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.



What can we do to serve you?

Ask Salco

+31(0)228 654 200 or
email to info@salco.nl

S-line

For information about PU foamed hinged and sliding doors, see our brochure 'S-line operational, chiller and freezer doors'.

CHILLER DOOR

KH-1010(V)

The door is constructed of a core of 100 mm insulation material, covered with polyester on both sides and finished with anodized aluminium 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.

HIGHLIGHTS

- ✓ Various speed settings possible
- ✓ 100 mm core insulation material
- ✓ Available horizontal and vertical
- ✓ Single and double leaf

KH-1010
Section

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HIGHLIGHTS

- ✓ Can be used in the freezing temperatures
- ✓ Various speed settings possible
- ✓ 140 mm core insulation material
- ✓ Available horizontal and vertical
- ✓ Single and double leaf

FREEZER DOOR

VH-1414(V)

The door is constructed of a core of 140 mm insulation material, covered with polyester on both sides and finished with anodized aluminium 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 framing profiles, the rail system and the control unit. 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.



VH-1414(V)
Standard threshold



VH-1414(V)
Threshold with sliding
dowel construction



VH-1414
Section

STAINLESS STEEL CHILLER AND FREEZER DOOR

KH-0910(V)/VH-0914(V)

For use in the food processing industry Salco supplies special designs in which the framing profiles of the door and the outer frame 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 mm 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).

HIGHLIGHTS

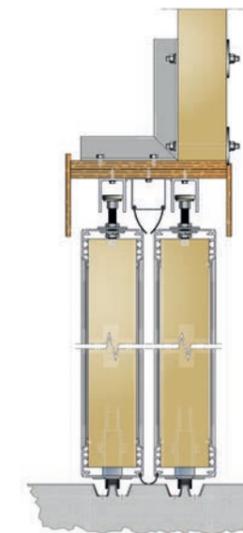
- ✓ Door leaf with robust framing profiles
- ✓ Door leaf covered with polyester or stainless steel 304/316
- ✓ Welded framing angles
- ✓ Available horizontal and vertical



KH-0910
Section

Optimum hygiene

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.



PKD-100s

Section detail bottom
rolling sliding door



PKD-100s

Top view sliding wall

CHILLER SLIDING DOOR/WALL

PKD-100s

Door leaf consisting of steel sandwich panels with a core of 100 mm insulation, finished with aluminium framing profiles (thermal-bridge-free version optional). The door leaf is sealed around by means of double, rubber profiles. Equipped with white panels (RAL 9002) as standard, but also available in various other colours. By adjoining several doors and to have one slide in front of the other, one large sliding wall can be created. As a result, products can be driven in and out quickly and efficiently, and the space can be maximised in terms of width and height. Available in XL sizes (approx. 8.5 metres in height).

The PKD-100s is equipped with a durable, recessed Magnelis steel bottom rail with exceptional corrosion resistance. Also available in kit form including or excluding door leaf panels. Easy to transport and with an attractive price. Applications include cooling or heating cells for flower bulbs, onions, chicory and potato storage.

HIGHLIGHTS

- ✓ Optimum accessibility
- ✓ Available up to very large dimensions
- ✓ Easy to slide by hand
- ✓ Thermal bridge-free optional



See video on salco.nl

HIGH-SPEED (AIRLOCK) DOOR/HATCH

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.

For the construction of the high-speed doors, customers can choose a 100 mm thick door leaf (chiller door) (AL-1010 H/VK), a 140 mm thick door leaf (freezer door) (AL-1414 H/VK) or a 40 mm thick door leaf (AL-0804 H/VK). The vertical (airlock) doors are balanced by counterweights. The airlock hatch (AL-2115V) has been specially developed for the transport of boxes.

HIGHLIGHTS

- ✓ Can be used in the freezing temperatures
- ✓ Suitable for frequent, fully automated use
- ✓ Ultra high speed settings in both horizontal and vertical versions
- ✓ Easy to integrate into the conveyor system
- ✓ Hermetically sealed

Salco works with you
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



RAPID ROLL DOOR DYNAMIC ROLL

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 Dynamic Roll 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. The Dynamic Roll 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 Dynamic Roll is available in various models and can be used in almost every sector.

HIGHLIGHTS

- ✓ Available in different models
- ✓ Self-repairing with a flexible bottom beam
- ✓ Insulated or double-layer for higher temperature fluctuations
- ✓ Foodsafe version available

Would you like
to receive an
appropriate
quotation?

Ask Salco
salco.nl/quotation



OPERATING OPTIONS

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

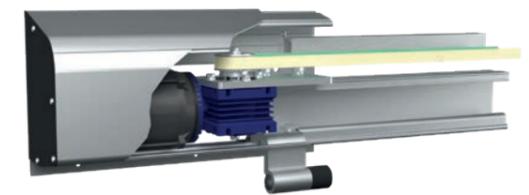
- Soft start/soft stop (frequency regulated), 230V
- Equipped with all safety devices in accordance with CE standard
- Potential-free contact(s) for, for instance, open/closed position, on/off switching of the lighting or cooling installation. Feedback positions to conveyor
- Display (English language)

Options

- Automatic closing system, combined with photocell
- Airlock function
- Half-open position (extra pulse generator)
- Simple problems easily solved on 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/orange/red with timer)



Detail

electrical control
SRA-125Z



Detail

electrical control
SRA-250/350

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 hand or fork-lift truck transmitters
- ✓ Optional radar(s)

DOORS SUPPLIED AS A CONSTRUCTION KIT

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 mm 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.



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

Detailed manuals and films available on salco.nl

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.

Available 24-7

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.

Reduce the risk of malfunctions

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

doorcontrol.eu

Parts

webshop.salco.nl

TECHNICAL SPECIFICATIONS

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

Construction	door leaf constructed of a core of insulation material, covered on both sides with 1,5 mm impact-resistant glass-fibre reinforced foodsafe polyester.
Thickness door leaf	100 mm.
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 chiller door type KH-1010(V), with the following exceptions:

Thickness door leaf	140 mm.
R-value	approx. 5,19 (m ² K/W).
Threshold	not included. Heated threshold at additional price.
Frame heating	included in door frame. Additional heating in the framing profiles, the rail system and the control unit at additional price.
Additional options	flexible threshold (a so called sliding dowel construction).

Stainless steel chiller 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, bumper, finish of the clear opening and rain hood in stainless steel.

High-speed (airlock) door type AL-1010/1414/0804 H (horizontal) and AL-1010/1414/0804 VK and AL-2115 V (vertical)

Construction and options are the same as KH-1010(V)/VH-1414(V). The AL-0804 H/VK has a 40 mm thick door leaf, R-value approx. 1,48 (m² K/W). The vertical design is balanced by counterweights. The AL-2115 V has a 150 mm thick door leaf, R-value approx. 6,21 (m² K/W).

The AL-2115 V has a 150 mm thick door leaf, R-value approx. 6,21 (

Construction	door leaf constructed of sandwich panels, covered on both sides with 0,6 mm sendzimir galvanized and coated steel plate.
Panel thickness	100 mm.
R-value panels	approx. 4,67 (m ² K/W).
Framing	aluminium profiles. Thermal bridge-free at additional price.
Colour of panels	standard colour RAL 9002 (grey white), also available in various other colours.
Glazing	exclusive, door leaf fully closed.
Sealing	all round by means of rubber profiles.
Rail system	Magnelis bottom rolling rail system, tracks placed in the floor. Toprolling at additional price.
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

Rapid roll door type Dynamic Roll

Curtain	fabric reinforced PVC with a weight of 1300 gram/m ² .
Curtain thickness	1,3 mm.
Speed	opening approx. 2,0 m/s, closing approx. 0,8 m/s (adjustable).
Curtain colour	standard colours (approximately) RAL 9006/7035 (aluminium/light grey), 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 5002 (ultramarine blue) or RAL 5012 (light blue).
Window strip	500 mm high, from 1400 mm.
Frame	self-supporting frame.
Frame colour	baseframe galvanized.
Covers colour	galvanized or in standard colour RAL 9010 (white).
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 ≤ 3005 mm photocells in the jambs combined with roll-down protection, with width > 3005 mm light curtain in the jambs.
Additional options	insulated curtain 7 mm 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.

**Salco
industrial
doors**

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