

KEEP COOL® PRODUCT CATALOGUE

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KEEP COOL®

We have created the framework...

... the customer chooses the solution!

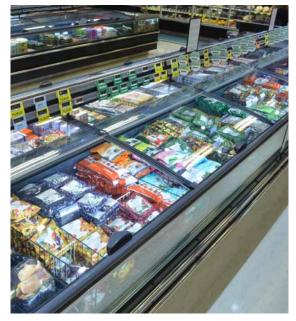
 $\mathsf{KEEP}\ \mathsf{COOL}^{\odot}$ is an effective glass cover for commercial refrigeration – developed, designed and produced in Denmark.

KEEP COOL[®] is a flexible glass cover solution with a wide range of configuration possibilities, each matching different criteria, requests and demands.

The customer creates his personalised solution through our Design Your Own Cover™ concept, which represents a number of design choices, each of which contributes different qualities with regard to design and use. KEEP COOL[®] is modular and customised with a perfect fit for each island. We have much experience with glass covers for any store layout, which includes special solutions with construction pillars, cable pillars, superstructure or the like.







KEEP COOL® Curve - Beautiful Curves, Elegant Design

Properties:

- Slightly curved glass
- Flexible design
- Energy savings of up to 50%
- Significantly improved food quality
- Exotics (pillars, superstructure etc.)

Please refer to pages 16-17 for more information on exotics (special solutions).

Design options (Design Your Own Cover[™]):

- Glass length: 625 mm or 1250 mm
- Glass combination: 2-glass or 3-glass
- Handrails: PVC or aluminium
- Colours (PVC): RAL 7015, RAL 7046 or RAL 9005

Please refer to pages 6-9 for more information on the Design Your Own Cover^ ${\rm TM}$ concept and design selection.







KEEP COOL® Plane - Discreet Design, Attractive Price

Properties:

- Flat glass
- Flexible design
- Energy savings of up to 50%
- Significantly improved food quality
- Exotics (pillars, superstructure etc.)

Please refer to pages 16-17 for more information on exotics (special solutions).

Design options (Design Your Own Cover[™]):

- Glass length: 625 mm or 1250 mm
- Glass combination: 2-glass or 3-glass
- Hand rails: PVC or aluminium
- Colours (PVC): RAL 7015, RAL 7046 or RAL 9005

Please refer to pages 6-9 for more information on the Design Your Own Cover^{\rm TM} concept and design selection.

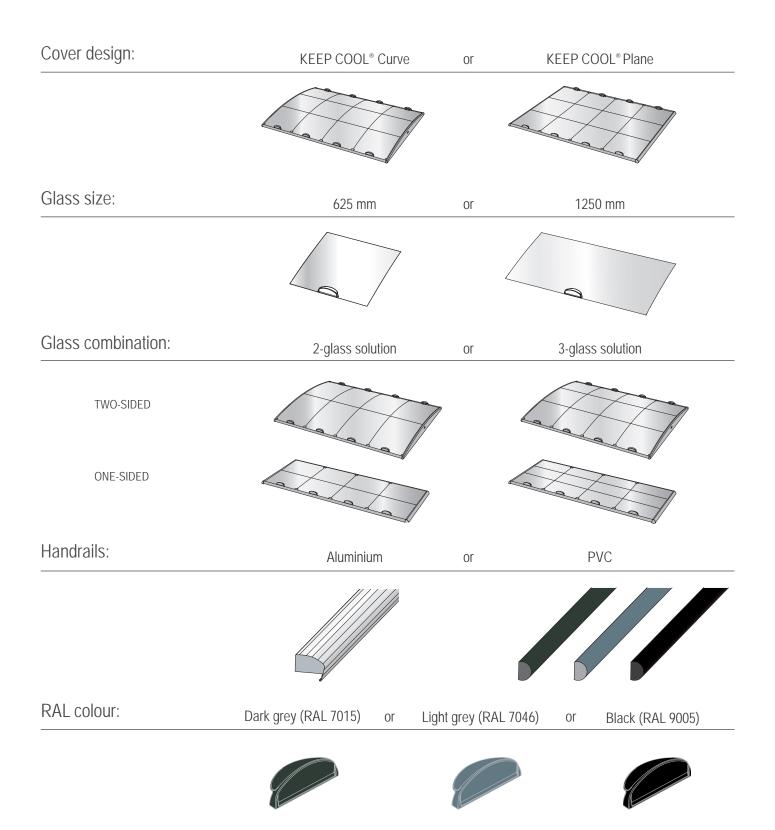
Design Your Own Cover™

Design Your Own Cover[™] is based on a flexible design, which allows for step-by-step configurations to a range of very different solutions.

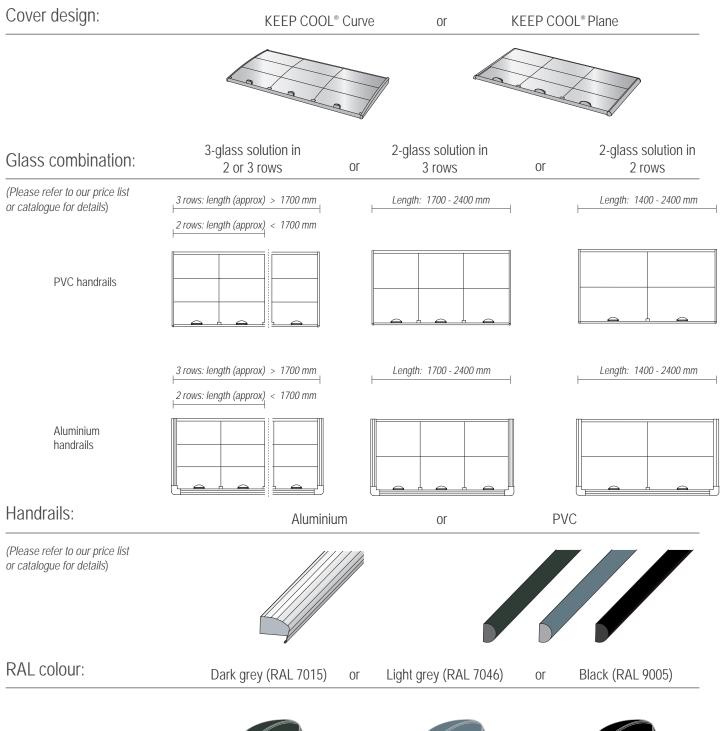
The procedure is simple: First, choose design between KEEP COOL[®] Curve (with slightly curved glass) or KEEP COOL[®] Plane (with flat glass). The final solution is then created with a few configuration selections, each matching different requests and demands to functionality, use or design.

Please refer to pages 8-9 for a selection guide, describing relevant considerations for the choices listed below.

Choose design - Island | Against Wall | Combi









How To Choose Glass Cover - a selection guide

The overview below describes differences and advantages of the various configurations.

Cover design:	
KEEP COOL [®] Curve:	 Curved glass Elegant design
KEEP COOL® Plane:	 Flat glass Discreet design Inexpensive variant
Glass size:	
625 mm glass:	 Shorter glass length makes room for more customers at the same time, which ensures efficient customer service. Particularly suitable for stores and supermarkets with large foot traffic Light, easy-sliding glass
1250 mm glass:	 Optimised product visibility Large opening Attractive price
Handrails:	
Aluminium handrail:	 Full integration with the island (the island's existing handrail is completely concealed) Exclusive design
PVC handrail:	 Minimalistic design Placed on the existing handrail Attractive price



Glass combination:

2-sided (island):

2-glass solution:

- 50% opening from one side at the time (the glass slides across the opposite side)
- Particularly suitable for narrow islands, where a 3-glass solution will result in a very narrow opening
- Only possible solution between 90 110 cm due to the opening, but available up to 160 cm

3-glass solution:

- 33% opening on both sides
- Recommended where possible, since all sliding glass may be operated simultaneously (no conflict with the opposite side)





1-sided (against wall):

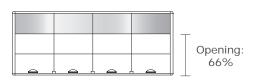
2-glass solution:

- 50% opening (of the furniture width)
- Fewer glass, lower price



3-glass solution:

- 66% opening (of the furniture width)
- Available only for 625 mm glass



Extras

BEHR's selection of extras allows for customisation of each cover for each island with regard to different functionalities.

Our product range responds to different needs, and we provide both efficient LED solutions, pricing systems and different security devices.

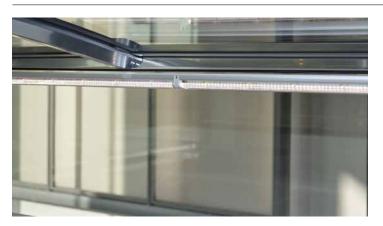
Choose extras





Safety stops

- Prevents "finger pinches"
- Available in RAL 7015, RAL 7046 and RAL 9005





Placed under the handrail

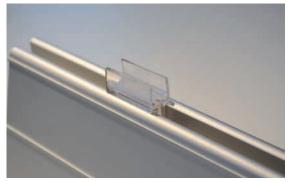
BEHR LED Placed under each cross profile

PRICE PROFILES

Philips LED.



BEHR A4 frame

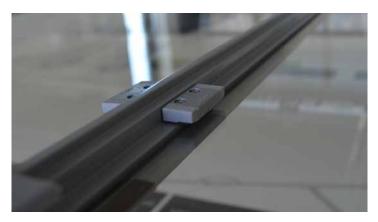


Clips for standard, non-BEHR frames

LOCK PLATES and SAFETY STOPS



Lock plates (keep the sliding glass in the frame system)



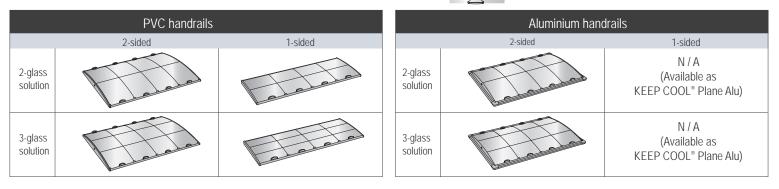
Safety stops (stops the sliding glass a few cm before the top glass)

KEEP COOL[®] Curve Variants

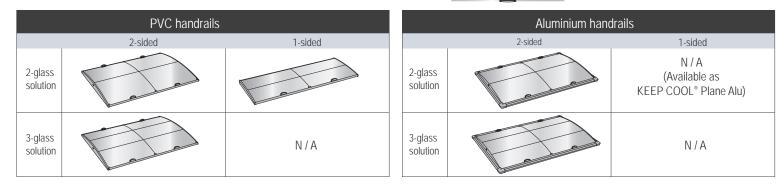
Below please find an overview of the available cover variants for KEEP COOL[®] Curve 2-sided and 1-sided with 625 mm and 1250 mm glass modules.



KEEP COOL[®] Curve / 625 mm glass modules:



KEEP COOL[®] Curve / 1250 mm glass modules:

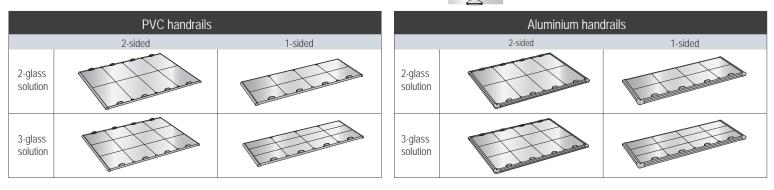


KEEP COOL[®] Plane Variants

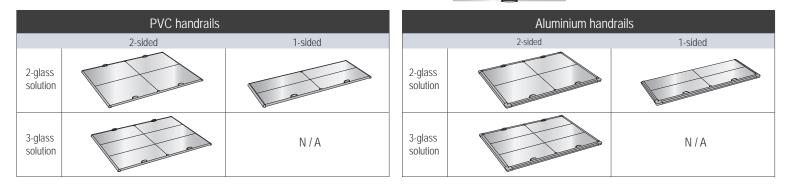
Below please find an overview of the available cover variants for KEEP COOL[®] Plane 2-sided and 1-sided with 625 mm and 1250 mm glass modules.



KEEP COOL[®] Plane / 625 mm glass modules:



KEEP COOL[®] Plane / 1250 mm glass modules:





Flexible end units

KEEP COOL[®] Curve and KEEP COOL[®] Plane end units are both available as 2-glass and 3-glass solutions in two or three rows.

PLEASE NOTE:

- Free choice for glass combination within the available length intervals (indicated in the table below).
- Solutions with integrated handrails in aluminium are for total layouts (must encircle both island and end unit).
- KEEP COOL[®] Curve Alu is available only with KEEP COOL[®] Plane Alu end unit.

	KEEP COOL [®] Curve a	nd KEEP COOL [®] Plane	e end units
	3-glass solution in 2 or 3 rows (Two rows: length approx < 1700 mm Three rows: length approx > 1700 mm)	2-glass solution in 3 rows (length: 1700-2400 mm)	2-glass solution in 2 rows (length: 1400-2400 mm)
PVC handrails	L: > 1700 mm (indicative) L: < 1700 mm (indicative) L: < 1700 mm (indicative)	L: 1700 - 2400 mm	L: 1400 - 2400 mm
Aluminium handrails	L: > 1700 mm (indicative)	L: 1700 - 2400 mm	L: 1400 - 2400 mm

Please refer to our price list for all details regarding end units







END UNIT: KEEP COOL® Curve 3-glass in 3 rows



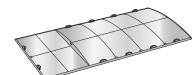
End units may be configured freely according to the table on page 14.

Below are listed a few selected examples of possible layouts (island with end unit).





END UNIT: KEEP COOL® Plane 2-glass in 2 rows

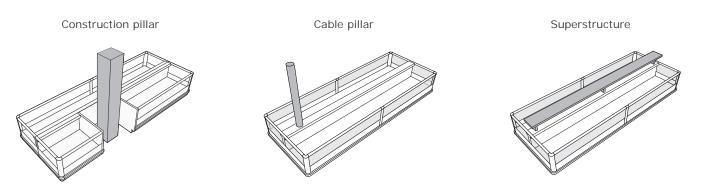


KEEP COOL[®] Curve is available with KEEP COOL[®] Curve and KEEP COOL[®] Plane end units

Selected examples

KEEP COOL® Exotics

Perfectly fitted glass covers is our expertise – also for spe-cial solutions. KEEP COOL[®] is tailored for each island and is also customisable for islands with construction pillars, cable pillars, superstructure etc.





Problem: Construction pillar Solution: One-sided cover (3-glass solution) integrated in a two-sided solution



Problem: Solution:





Problem: Solution: Cable pillar Customised gables



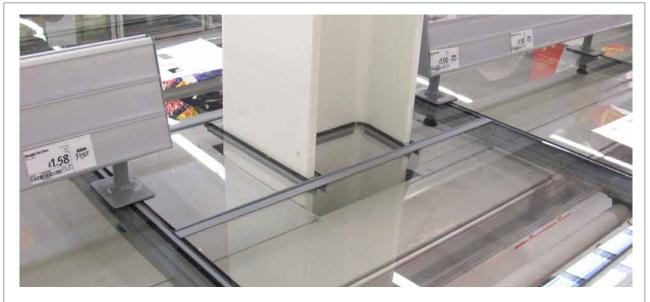
Problem: Cable pillar Solution: Customised gables and price profiles



Problem: Superstructure Solution: Customised cover

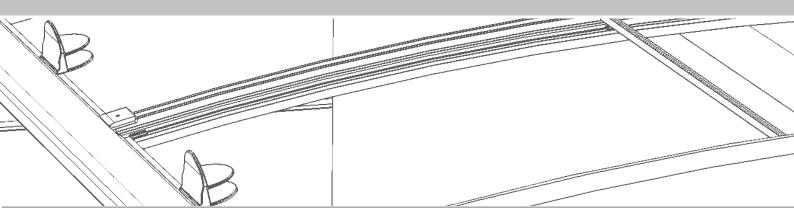


Problem:Cable pillar in the centre of the islandSolution:Customised top glass and one-sided module on both sides in the row where the pillar is located



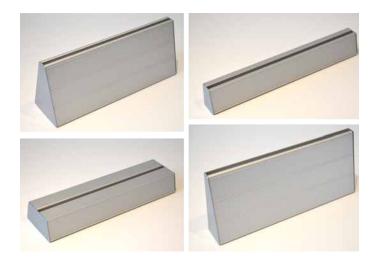
Problem:Construction pillar in the centre of the islandSolution:Customised top glass and one-sided module on both sides in the row, where the pillar is located

KEEP COOL® TECHNICAL SPECIFICATIONS



Product name:	KEEP COOL [®] Curve	KEEP COOL [®] Plane
Variants:	KEEP COOL [®] Curve 625 KEEP COOL [®] Curve 1250 KEEP COOL [®] Curve Alu 625 KEEP COOL [®] Curve Alu 1250 KEEP COOL [®] Curve end unit	KEEP COOL [®] Plane 625 KEEP COOL [®] Plane 1250 KEEP COOL [®] Plane Alu 625 KEEP COOL [®] Plane Alu 1250 KEEP COOL [®] Plane end unit KEEP COOL [®] Plane Alu end unit
Characteristics:	Curved glass Modern, elegant design Easy, ergonomic, user-friendly operation	Flat glass Modern, elegant design Easy, ergonomic, user-friendly operation
Properties:	Adjustable to all islands with parallel edges. Unrestricted access to the entire island at all times (2-sided 3-glass solution). Easy operation (4 low-friction sliding shoes on all glass).	
Use:	KEEP COOL [®] glass covers are used for ventilated horizontal display units in public sales areas. Works with coolers (\geq 0°C) and freezers (\geq -24°C. The panel heating must be switched on). The environment temperature must be under 24°C and 55% R.H. (Climate class 8).	
Limitations:	The covers are not designed to carry extra load. Do not place items on the covers. Do not place boxes on the covers during re-fill. Do not use them as display/shelf area.	
Dimensions:	The covers are manufactured to fit the dimensions of the island. The opening of 3-glass solutions with 625 mm modules is approx 600 mm x 1/3 of the island width. The opening of 3-glass solutions with 1250 mm modules is approx 1225 mm x 1/3 of the island width. The opening of 2-glass solutions with 625 mm modules is approx 600 mm x 1/2 of the island width. The opening of 2-glass solutions with 1250 mm modules is approx 1225 mm x 1/2 of the island width.	
Weight:	A 625 mm glass weighs approx 2,5 Kg. A 1250 mm glass weighs approx 5 kg.	
Materials:	4 mm single layer, low-energy security glass. Plastic (mainly PVC). Anodised aluminium.	
Colours:	PVC: RAL 7015 or RAL 7046 or RAL 9005. KEEP COOL [®] Curve gables: RAL 9006. KEEP COOL [®] Plane gables: RAL 7015 or RAL 7046 or	or RAL 9005.
Extras (surcharge):	 LED Price profiles: 1-sided and 2-sided 1-level and 3-levels A4 frames Clips for standard (non-BEHR) A4 frames Lock plates (prevent lifting up sliding glass from the frame system): RAL 7015 /RAL 7046 /RAL 9005 Safety stops: RAL 7015 /RAL 7046 /RAL 9005 	
Electrical:	No	
Expected life span:	Minimum 10 years or 300.000 openings.	
Savings:	Energy savings of up to 50% (requires technical adjustments of the freezer island and possibly an ad- justment of the cooler sytem).	
Safety certificates:	Produced and tested according to <i>General Product Safety Directive (2001/95/EC)</i> . Security glass <i>EN 12150 / ANSI Z97.1</i> .	
Warranty:	24 months. Please refer to our Terms of Sales and Delivery.	
Order:	Contact us for a measuring guide and an offer: sale	s@behr.dk.

TECHNICAL SPECIFICATIONS | PRICE PROFILES



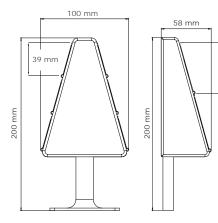
52 mm

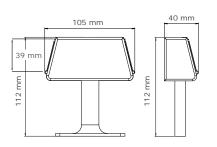
BEHR price profiles are available as one-sided or two-sided in 1-level or 3-levels (with room for either 1 or 3 data strips). They are as standard delivered with data strips of 39 mm or 52 mm as well as BEHR's A4 frames that fit the price profile without the use for clips.

The price profile is suitable for ESL systems:



Dimensions:





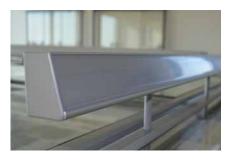
BEHR price profiles and extras:



Price profile (two-sided) in 3 levels



BEHR A4 frames fit perfectly in the price profile without the use for clips



Price profile (one-sided) in 1 level



Clips for standard non-BEHR frames Transparent

Specifications:

Product name	BEHR Price profiles
Dimensions:	Height and width: See illustration above. Length: Adjusted to the length of the island.
Materials:	Anodised aluminium.
Colours:	As standard delivered in anodised aluminium. On request and at large volumes available powder coated in other colours (surcharge).

DESIGN YOUR PRICE PROFILE:

- One-sided or two-sided
- Two different heights
- Data strips included
- As standard delivered in anodised aluminium
- Available powder coated in other colours at surcharge (large volumes)
- Delivered with BEHR A4 frames
- May be used with standard display frames with BEHR's specially designed clips

TECHNICAL SPECIFICATIONS | PHILIPS LED

Position:

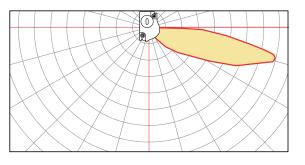
Philips InteGrade LED engines NB (narrow beam) is an efficient high-quality LED system with an impressive effect.

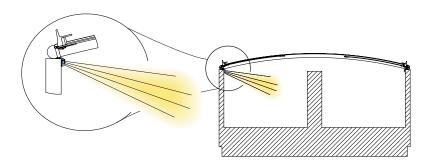
Philips InteGrade LED NB is delivered on a fitting profile, which is easily and discreetly mounted under the cover handrail. The narrow beam is focused in the desired direction, which ensures an efficient lighting of the product display.



Light beam:

Narrow beam focused at the product display. Cross section:





The LED bar is placed in an adapter under the handrail.

Specifications:

Product name:	Philips LED
Features:	LED system with a powerful narrow beam. Fully integrated LED systems. Produced by Philips, developed specifically for use in coolers and freezers.
Use:	Lighting for commercial horizontal and vertical display units in public sales and display areas. Retrofit possible. Temperatures between -30°C to +30°C.
Dimensions:	B: 11 mm (max) H: 18,5 mm L: Adapted to the length of the refrigerator or freezer unit.
Materials:	SMD LED. Anodised aluminium.
Colours:	Neutral white (4000 K). Suitable for all product types. WWR - Warm White/Red. Especially suitable for meat products.
Electrical:	24 VDC, constant voltage. Neutral white: 575 mm LED bar = 7 W 140 mm LED bar = 1.6 W WWR: 575 mm LED bar = 7,5 W 140 mm LED bar = 2 W
Espected life span:	Expected life span: 50.000 hours (70% lumen after 50.000 hours of operation).
Savings:	Energy savings of up to 55% compared to T5 flourescent lights (source: Philips).
Safety certificates:	 ENEC, UL, CE Product safety class III In accordance with the RoHS Directive (2002/95/EC) In accordance with the WEEE Directive (2002/95/EC)
Installation:	Delivered pre-assembled and ready for installation. Installed with mounting rails. Power connection must be performed by authorised electrician.
Care and cleaning:	Clean LED and aluminium bars when needed. Use a soft microfiber cloth and a mild cleaning agent (e.g. window cleaner).
Warranty:	5 years Philips warranty (InteGrade LED engine in combination with Philips cables and Philips LED power driver).

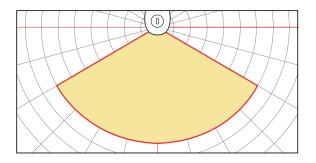
TECHNICAL SPECIFICATIONS | BEHR LED

BEHR LED was created specifically for KEEP COOL[®]. BEHR LED has a 120° light beam and is fitted discreetly on integrated LED bars under each cross profile, which ensures a uniform and efficient lighting of the product display.

Due to the placement of the LED bars under the cross profiles, they are particularly suitable for covers with 625 mm modules, where the proximity of the cross profiles ensures a uniform intensity of the light over the entire product display.

Light beam:

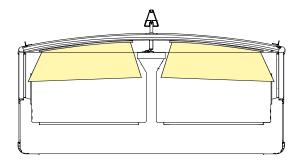
 120° light beam. LED bar placed under the cross profile. Cross section:





Position:

The LED bar is placed in a mounting rail under the cross profile



Specifications:

Product name:	BEHR LED
Features:	Fully integrated LED systems. Excellent, uniform lightling of the entire product display. Produced by BEHR A/S, designed specifically for KEEP COOL®.
Use:	Lighting for commercial horizontal and vertical display units in public sales and display areas. Mounted and installed on BEHR products. Retrofit possible. Temperatures between -24°C to +30°C.
Dimensions:	B: 13 mm H: 7 mm L: Adapted to the width of the refrigerator or freezer unit
Materials:	SMD LED. Anodised aluminium. Waterproof (IP 65).
Colours:	Neutral white (3700° K). Suitable for all product types. WWR - Warm White/Red. Especially suitable for meat products.
Electrical:	24 VDC, constant voltage. 600 mm LED bar = 8 W
Espected life span:	50.000 hours
Savings:	More energy efficient light with LED compared to other light sources.
Safety certificates:	 In accordance with the CE/EMC (EU Directiv 2004/108/EC) In accordance with the RoHS Directive (EU Directiv 2002/95/EC) In accordance with the WEEE Directive (EU Directiv 2002/96/EC)
Installation:	Delivered pre-assembled and ready for installation. Mounted with included brackets. Power connection must be performed by authorised electrician.
Care and cleaning:	Clean LED and aluminium bars when needed. Use a soft microfiber cloth and a mild cleaning agent (e.g. window cleaner).
Warranty:	24 months with cables and power supply approved by BEHR.

Useful Information



MEASUREMENTS

Download our Measuring Guide from our website or contact our Sales Department to order a copy: <u>sales@behr.dk.</u>

All measurements are used for production purposes, please be accurate.

The Measuring Guide is also applicable to special solutions.



INSTALLATION

The covers are delivered pre-fabricated and ready for installation. The cover is fitted with double adhesive tape on top of the island.

Installation must be performed by an authorised BEHR installation partner.

A Fitting Instruction is available for download from our website or on request from our Sales Department on <u>sales@behr.dk</u>.

Please refer to the document "Important Information" for further information on preparation.

TECHNICAL ADJUSTMENTS

After installation, the air speed in the **freezer** must be adjusted, and the defrosting frequency reduced.



Technical adjustments instructions are delivered with the product.

PLEASE NOTE: The technical adjustments are necessary in order to obtain optimum energy savings and to avoid condensation/ice on the covers. The 24 months warranty is subject to the performance of the technical adjustments immediately after installation of the covers.

Please refer to our Terms of Sales and Delivery, available from our Sales Department on: <u>sales@behr.dk.</u>

CLEANING

Clean glass and sliding tracks regularly with a soft micro fibre cloth and a mild cleaning agent (e.g. window cleaner).

Avoid use of harsh and abrasive detergents (e.g. solvent, acidic, ammoniac, chloric or oil based).

Do not use steam or high pressure water. Aluminium parts can be polished with vinyl- or car wax.

A user guide is delivered with the product.



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