

*Carrier*

Modular Line 2021/22



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Technical data in European numeric signs: decimal comma

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## Application



Dairy products



Cheese



Meat



Minced meat



Cold cuts



Fish



Delicatessen



Beverages



Prepacked  
cheese



Prepacked  
meat



Prepacked  
minced meat



Prepacked  
cold cuts



Prepacked  
fish



Prepacked  
delicatessen



# The EcoDesign regulation

The implementation of the EcoDesign directive for "refrigerated display cabinets with a direct sales function" was adopted by the European Union Commission in October 2019. The application date for the requirements is the 1st of March 2021. The directive applies to newly produced refrigerated cabinets only – the systems, racks and condensing units are covered by other regulations. The compliance is declared by the manufacturer with the declaration of conformity and with providing technical data to a European database called EPREL and the CE-mark. A verification procedure will be applied by the member states.

**All Carrier products presented in this catalogue are EcoDesign compliant.**



## Energy Labelling

The objective of Energy Labelling is to give clear, easy-to-understand label information on the product energy efficiency, and classify products according to their level of efficiency (from G to A), with an overall effect of pulling the market towards more energy efficient products. Products marketed prior to March 2021 are not affected.

ENERGY EFFICIENCY CLASS	ENERGY EFFICIENCY INDEX
<b>A</b>	<b>EEI &lt; 10</b>
<b>B</b>	<b>10 ≤ EEI &lt; 20</b>
<b>C</b>	<b>20 ≤ EEI &lt; 35</b>
<b>D</b>	<b>35 ≤ EEI &lt; 50</b>
<b>E</b>	<b>50 ≤ EEI &lt; 65</b>
<b>F</b>	<b>65 ≤ EEI &lt; 80</b>
<b>G</b>	<b>100 &gt; EEI ≥ 80</b>

## The Label

Each new refrigerating appliance will be supplied with a printed label gathering energy related information:



Supplier's name

Supplier's model identifier

Determined energy efficiency class

Annual energy consumption in kWh

Sum of the display areas with chilled operating temperatures in m<sup>2</sup>

Sum of the display areas with frozen operating temperatures in m<sup>2</sup>

The highest / lowest temperature of the warmest / coldest M-package of the compartment(s) with chilled operating temperatures

The highest / lowest temperature of the warmest / coldest M-package of the compartment(s) with frozen operating temperatures



Inox bumper by local customization



## Semi-Verticals & Multidecks

# Overview Multidecks & Semi-Verticals

Standard front height

## Narrow merchandiser

Maximum product facing in small spaces

## Space optimizer

Maximum floor space productivity optimized for back-to-back installation



E6 Methos 53 open/GD



E6 Methos 63/83 open/GD



E6 Methos GD HY  
(Hypermodularity)



E6 Methos 53/63-GD  
with 400mm doors



E6 Mirado® & E6 Morea®  
open/GS

## Ultrafresh Line



E6 Mirado 64/84® FV



E6 Methos FV

## Prime Line

## Value Line



E6 Mendos® XU &  
E6 MenEco® XU



E6 Optimer® L open/G  
(remote)\*



E6 Mendos® EU/LU &  
E6 MenEco® EU/LU

\* For product information please see Compact Line brochure

Prime Line: Energy efficient design with a wide range of module lengths, options and accessories

Value Line: Focus on essential features with limited range of module lengths, options and accessories

## Optimized for CO<sub>2</sub>OLtec Evo

Adapted for Evolution 6 vertical cabinets, the 2<sup>nd</sup> generation CO<sub>2</sub>OLtec® Evo system operates on natural refrigerant CO<sub>2</sub> and achieves high sustainability and optimal performance while remaining energy efficient in all climates.

### Operation optimizer

Lowest maintenance  
and operation cost

### Ultra low front height

### Narrow displayer

Small footprint at  
highest total  
display area

### Volume seller

Box stacking capability  
with a high turnover



E6 Monaxis® &  
E6 MonaxEco®



E6 Maress® open/GD



E6 Mirado® 63 open/GS



E6 Monaxis®-R &  
E6 Maress®-R



E6 Monaxis® FV



E6 Mirado® 63 FV



E6 Monaxis®-R FV



E6 Mivit® 52 open/GD



E6 Mivit® GD 82

**CO<sub>2</sub>OLtec Evo:** next generation of CO<sub>2</sub> technology which leverages and combines several innovations to optimize the total CO<sub>2</sub> system efficiency:

- Energy saving heat exchangers
- Ejector operation optimized expansion valves
- Extended operation flexibility: All 60 bar CO<sub>2</sub> evaporators now operate with 90 bar expansion valve and 90 bar liquid line

# E6 Mirado® & E6 Morea®

Prime Line

Open semi-vertical multideck with a modern and space optimized design

## Operation optimizer / Space optimizer



## Benefits at a glance

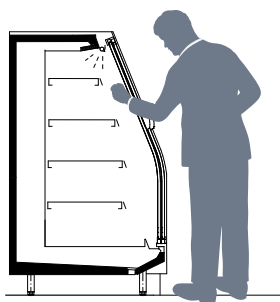
- Maximum display opening by slim canopy
- Ergonomic height
- Floor space efficient design
- Enhanced visibility in the store

## Standard configuration

- Manual night blinds
- Stepped display shelves with 40 mm scanner price rails
- Integrated bumper and single-piece front kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas) / Mirado 63.M1-2 with backwall evaporator (F-gas)
- Multiplex kit

## Customization

- LED selection for canopy lighting, shelf lighting and front shelf lighting
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Plinth bumper for increased protection
- Bottom evaporator (CO<sub>2</sub>) / Mirado 63.M1-2 with backwall evaporator (CO<sub>2</sub>)



The semi-vertical size provides ergonomic height and customer contact on eye level

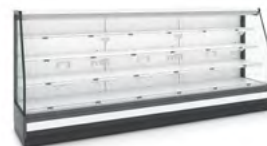


The maximum display opening and the stepped display shelves offer the best presentation of your products



The backwall evaporator of Mirado 63 provides benefits such as a maximum front opening and self cleaning effect by defrosting

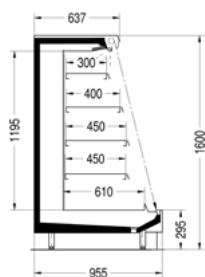
## Technical data



	Customer value	Morea	Mirado
Prime Line	Heavy product load	■	■
	Energy efficiency	■	■
	Streamlined operation	■ ■ ■ ■	■ ■ ■ ■
	Product visibility	■ ■ ■ ■	■ ■ ■ ■
	Installation/Serviceability	■ ■ ■ ■	■ ■ ■ ■
	Floor space productivity	■ ■ ■ ■	■ ■ ■ ■
	Cabinet aesthetics	■ ■ ■ ■	■ ■ ■ ■

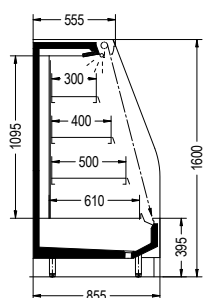
Mirado	84	250	M1	1
Name of product line				
Bottom shelf depth: ~ 800 mm				
Front height: ~ 400 mm				
Cabinet length: ~ 2 500 mm				
Temperature class: M1*				
Revision index: 1				
*Cabinet design according to EN ISO 23953 at climate class 3				

### Operation optimizer

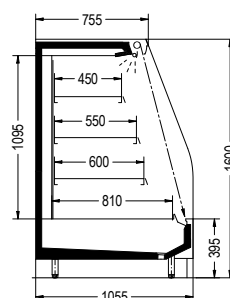


Mirado 63.M1-2

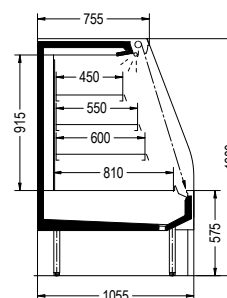
### Space optimizer



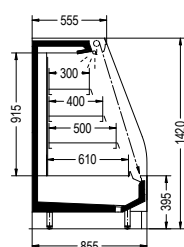
Mirado 64.M1-1



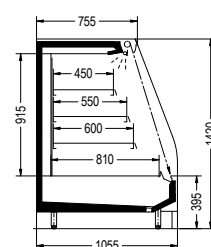
Mirado 84.M1-1



Mirado 86.M1-1



Morea 64.M1-1



Morea 84.M1-1



Supermarket

Hypermarket

Discounter

E6 Mirado® & E6 Morea®	Unit	Mirado®				Morea®	
		63	64	84	86	64	84
Internal height	mm	1195	1095	1095	915	915	915
Bottom shelf depth	mm	610	610	810	810	610	810
Shelf depth (min. / standard / max.)	mm	300 / - / 450	300 / - / 500	450 / - / 600	450 / - / 600	300 / - / 500	450 / - / 600
Shelves (min. / standard / max.)	rows	4 / 4 / 4	3 / 3 / 4	3 / 3 / 4	1 / 3 / 3	1 / 3 / 3	1 / 3 / 3
Module length without endwalls (40mm each)	125	✓	✓	✓	✓	✓	✓
	170	-	✓	-	-	✓	-
	188	✓	✓	✓	✓	✓	✓
	210	-	✓	✓	✓	✓	✓
	250	✓	✓	✓	✓	✓	✓
	375	✓	✓	✓	✓	✓	✓
Temperature class M1 / Storage temp. -1/+1 °C		✓	✓	✓	✓	✓	✓
Energy label*		A G	F	F	G	G	G

\* Label might change depending on configuration

# E6 Mirado® GS & E6 Morea® GS

Prime Line

**Closed semi-vertical multideck with a modern and space optimized design**

## Operation optimizer / Space optimizer



## Benefits at a glance

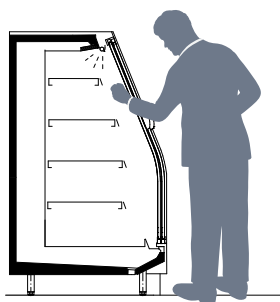
- Maximum display opening by slim canopy
- Ergonomic height
- Floor space efficient design
- Enhanced visibility in the store

## Standard configuration

- Transparent framed sliding glass doors
- Stepped display shelves with 40mm scanner price rails
- Integrated bumper and single-piece front kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas) / Mirado 63-GS.M1-2 with backwall evaporator (F-gas)
- Multiplex kit

## Customization

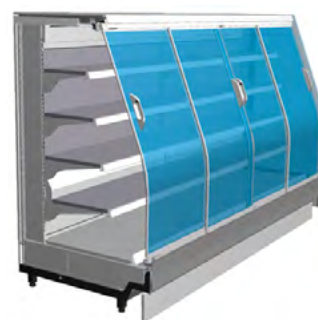
- Horizontal LED lighting for canopy, shelf and front shelf
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Plinth bumper for increased protection
- Bottom evaporator (CO<sub>2</sub>) / Mirado 63-GS.M1-2 with backwall evaporator (CO<sub>2</sub>)



The semi-vertical size provides ergonomic height and customer contact on eye level



The standard bottom evaporator ensures a balanced floor space efficient design for the best placement in the center of your store, no matter if supermarket, hypermarket or discounter



Mirado 63-GS comes with backwall evaporator which provides maximum display opening together with high service durability of fans and evaporator

## Technical data

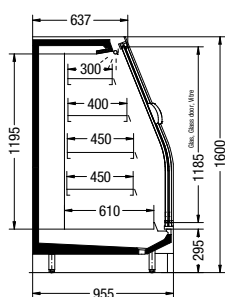


	Customer value	Morea GS	Mirado GS
Prime Line	Heavy product load		
	Energy efficiency		
	Streamlined operation		
	Product visibility		
	Installation/ Serviceability		
	Floor space productivity		
	Cabinet aesthetics		

Mirado	84	GS	250	M1	1
Name of product line					
Bottom shelf depth: 8 ~ 800 mm					
Front height: 4 ~ 400 mm					
Glass door (Sliding)					
Cabinet length: ~ 2 500 mm					
Temperature class: M1*					
Revision index: 1					

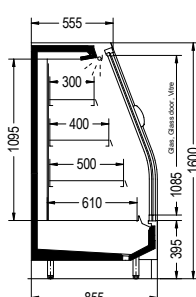
\*Cabinet design according to EN ISO 23953 at climate class 3

### Operation optimizer

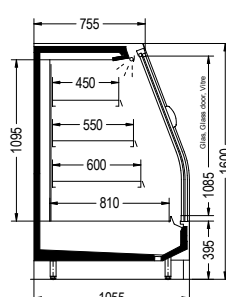


Mirado 63-GS.M1-2

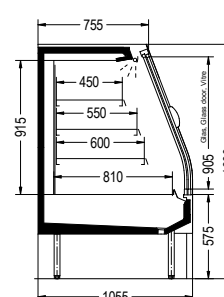
### Space optimizer



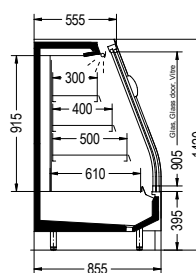
Mirado 64-GS.M1-1



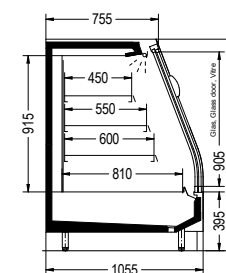
Mirado 84-GS.M1-1



Mirado 86-GS.M1-1



Morea 64-GS.M1-1



Morea 84-GS.M1-1



Supermarket



Hypermarket



Discounter

E6 Mirado® GS & E6 Morea® GS	Unit	Mirado® GS				Morea® GS	
		63	64	84	86	64	84
Internal height	mm	1195	1095	1095	915	915	915
Bottom shelf depth	mm	610	610	810	810	610	810
Shelf depth (min. / standard / max.)	mm	300 / - / 450	300 / - / 500	450 / - / 600	450 / - / 600	300 / - / 500	450 / - / 600
Shelves (min. / standard / max.)	rows	4 / 4 / 4	3 / 3 / 4	3 / 3 / 4	1 / 3 / 3	1 / 3 / 3	1 / 3 / 3
Module length without endwalls (40mm each)	125	✓	✓	✓	✓	✓	✓
	170	-	✓	-	-	✓	-
	188	✓	✓	✓	✓	✓	✓
	210	-	✓	✓	✓	✓	✓
	250	✓	✓	✓	✓	✓	✓
	375	✓	✓	✓	✓	✓	✓
Temperature class M1 / Storage temp. -1/+1 °C		✓	✓	✓	✓	✓	✓
Energy label*		A+ G	A+ G	A+ G	A+ G	A+ G	A+ G

\* Label might change depending on configuration

# E6 Methos

Open multideck with an optimized footprint and best customizable design

## Narrow merchandiser / Space optimizer



## Benefits at a glance

- Highest footprint productivity
- Largest selection of configurations
- Easy access to evaporator and fans
- Optimized design for back-to-back installation

## Standard configuration

- Motorized night blind (30-50 % less energy consumption)
- Display shelves with single side coating and 40 mm scanner price rails
- Integrated bumper and kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Horizontal LED lighting for canopy, shelf and front shelf
- LED lighting DIM module
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper
- Bottom evaporator (CO<sub>2</sub>)



The installed bottom evaporator provides the best floor space productivity among all multideck cabinets for your turnover



Optional external bumper for increased protection of the cabinet



The optimized small footprint design makes the Methos multidecks perfect for space saving back-to-back installations in your market (Inox bumper by local customization)

## Technical data

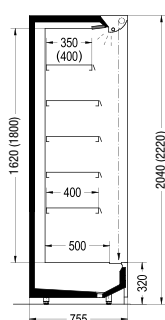
	Customer value	Methos
Prime Line	Heavy product load	■ ■ ■ ■
	Energy efficiency	■ ■ ■ ■ ■
	Streamlined operation	■ ■ ■ ■ ■ ■ ■
	Product visibility	■ ■ ■ ■ ■ ■ ■ ■
	Installation/ Serviceability	■ ■ ■ ■ ■ ■ ■ ■ ■
	Floor space productivity	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
	Cabinet aesthetics	■ ■ ■ ■ ■ ■ ■ ■ ■ ■



Methos	53	250	M1	1	L
<b>Name of product line</b>					
<b>Bottom shelf depth: 5 – 500 mm</b>					
<b>Front height: 3 – 300 mm</b>					
<b>Cabinet length: ~ 2 500 mm</b>					
<b>Temperature class: M1*</b>					
<b>Revision index: 1</b>					
<b>Cabinet height: L = ~ 2 220 mm</b>					

\* Cabinet design according to EN ISO 23953 at climate class 3

### Narrow merchandiser

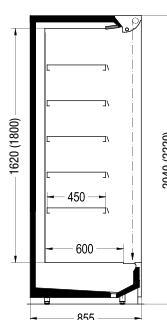


Methos 53.M1/M2-1 (L)



Small Store

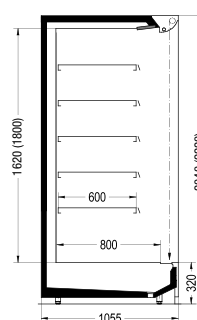
### Space optimizer



Methos 63.M1/M2-1 (L)



Supermarket



Methos 83.M1/M2-1 (L)



Hypermarket

E6 Methos	Unit	53	63	83
Internal height STD-height	mm	1620	1620	1620
Internal height L-height	mm	1800	1800	1800
Bottom shelf depth	mm	500	600	800
Shelf depth (min. / standard / max.)	mm	350 / 350 (400)* / 400	400 / 450 / 500	400 (500)** / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	4 / 4 / 5	3 / 4 / 6	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 6	4 / 5 / 7	4 / 5 / 7
Load per module	kg / 125cm	510	665	820
Module length without endwalls (40mm each)	125	✓	✓	✓
	150	✓	-	-
	170	-	✓	-
	188	✓	✓	✓
	210	-	✓	-
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M1 / Storage temp. -1/+1 °C 		✓	✓	✓
Energy label*** 		F	F	F
Temperature class M2 / Storage temp. 0/+2 °C 		✓	✓	✓
Energy label*** 		G	G	G

\* Alternative shelf depth | \*\* Minimum shelf depth for temperature class M2 | \*\*\* Label might change depending on configuration

# E6 Methos GD

Prime Line

**Closed multideck with an optimized footprint and best customizable design**

## Narrow merchandiser / Space optimizer



## Benefits at a glance

- Highest footprint productivity
- Largest selection of configurations
- Optimized design for back-to-back installation
- Easy access of evaporator and fans

## Standard configuration

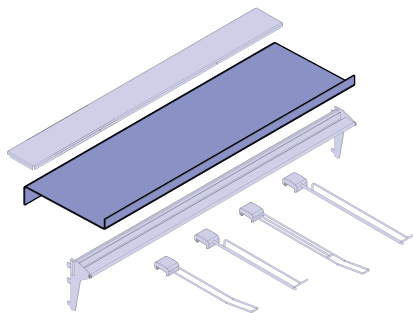
- Insulated all-glass swing door with small dark grey print and mullion
- Display shelves with single side coating and 40 mm scanner price rails
- Integrated bumper and kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Large selection of various door options:
  - Transparent all-glass swing doors with or without mullion
  - Ultra-slim, transparent 400 mm all-glass swing doors with transparent gap cover
- Horizontal LED lighting for canopy, shelf and front shelf
- Vertical LED lighting for door mullion, dividing wall and endwall
- LED lighting DIM module
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper
- Bottom evaporator (CO<sub>2</sub>)
- Hypermodularity with semi-sized shelves of only 625 mm width for highest product facing per m<sup>2</sup>



The installed bottom evaporator provides the best floor space productivity among all multideck cabinets for your turnover



Benefit from the largest selection of configurations to get the perfect cabinet for your requirements



The optimized small footprint design makes the Methos GD multidecks perfect for space saving back-to-back installations in your market (Inox bumper by local customization)

## Technical data

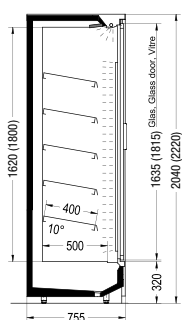
	Customer value	Methos GD
Prime Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



Methos	83	-	GD	-	250	M0	-	1	L
Name of product line									
Bottom shelf depth: 8 ~ 800 mm									
Front height: 3 ~ 300 mm									
Glass door									
Cabinet length: ~ 2 500 mm									
Temperature class: M0*									
Revision index: 1									
Cabinet height: L = ~ 2 220 mm									

\*Cabinet design according to EN ISO 23953 at climate class 3

### Operation optimizer

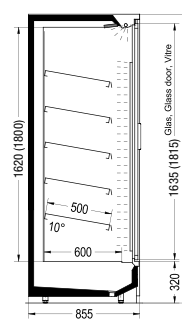


Methos 53-GD.M0/M1-1 (L)

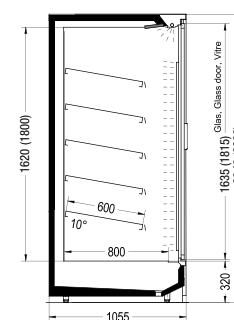


Small Store

### Space optimizer



Methos 63-GD.M0/M1-1 (L)



Methos 83-GD.M0/M1-1 (L)



Supermarket



Hypermarket

E6 Methos GD	Unit	53	63	83	Hypermodularity		
		53	63	83	53	63	83
Internal height STD-height	mm	1620	1620	1620	1620	1620	1620
Internal height L-height	mm	1800	1800	1800	1800	1800	1800
Bottom shelf depth	mm	500	600	800	500	600	800
Shelf depth (min. / standard / max.)	mm	350 / 400 / 400	400 / 500 / 550	400 / 600 / 600	350 / 400 / 400	400 / 500 / 550	400 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	4 / 4 / 5	3 / 4 / 6	3 / 4 / 6	4 / 4 / 5 *	3 / 4 / 6 *	3 / 4 / 6 *
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 6	4 / 5 / 7	4 / 5 / 7	4 / 5 / 6 *	4 / 5 / 7 *	4 / 5 / 7 *
Load per module	kg / 125cm	510	665	730	510	665	730
Module length without endwalls (40 mm each)	125	✓	✓	✓	✓	✓	✓
	150	✓	-	-	-	-	-
	170	-	✓	-	-	-	-
	188	✓	✓	✓	✓	✓	✓
	210	-	✓	-	-	-	-
	250	✓	✓	✓	✓	✓	✓
	375	✓	✓	✓	✓	✓	✓
Temperature class M0 / Storage temp. -2/0 °C		✓	✓	✓	✓	✓	✓
Energy label**							
Temperature class M1 / Storage temp. -1/+1 °C		✓	✓	✓	✓	✓	✓
Energy label**							

\* Per module two 625 mm display shelves per row useable \*\* Label might change depending on configuration

# Experience the full variety of E6 Methos GD

## E6 Methos GD Hypermodularity



Modular shelves offer tailored options for the storage of refrigerated products

### Benefits at a glance

- Modular semi-sized shelves of only 625 mm width for individual product presentation
- High product facing per m<sup>2</sup>
- Easy to convert to a Methos GD with standard display shelves

E6 Methos GD HY		53	63	83
Available module lengths without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓

## E6 Methos GD with 400 mm Doors\*

\* In plan



### Benefits at a glance

- Slim 400 mm doors for high footprint sales productivity
- Space saving design for small stores with narrow aisles
- Full transparent door parts for better product visibility



Opened 400 mm slim doors provide 35 % floor space saving compared to 625 mm standard doors

E6 Methos GD with 400 mm Doors	53	63
Available module lengths without endwalls (40 mm each)	125	63
	250	✓
	375	✓



Wood optic cladding made by local customization

# E6 Monaxis®

Prime Line

Open multideck for best product presentation with lowest life cycle costs

## Operation optimizer



## Benefits at a glance

- Lowest life cycle costs
- Best maintenance conditions
- Energy efficient design
- Attractive product presentation

## Standard configuration

- Low front height (295 mm)
- Carrier's Temperature Equalizer System
- Double air curtain for cabinets with temperature class M1 (approx. 10 % less energy consumption)
- Display shelves with 40 mm scanner price rails and product stoppers
- Integrated front bumper and kickplate
- Energy efficient EC fans
- Back wall evaporator (F-gas)
- Multiplex kit

## Customization

- Night blind options:
  - Motorized (30-50 % less energy consumption)
  - Motorized with efficient cover (40-70 % less energy consumption)
- Horizontal LED lighting for canopy, shelf and front shelf
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper and endwall
- Plinth front bumper and endwall
- Back wall evaporator (CO<sub>2</sub>)



The back wall evaporator enables easy installation and maintenance due to a total clearance height of 125 mm



The closed motorized nightblind with efficient cover saves 40-70 % energy compared to the open operation



Easy to clean bottom area by back wall evaporator with simple access of the expansion valve

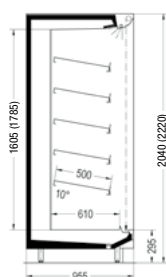


	Customer value	Monaxis				
Prime Line	Heavy product load					
	Energy efficiency					
	Streamlined operation					
	Product visibility					
	Installation/ Serviceability					
	Floor space productivity					
	Cabinet aesthetics					

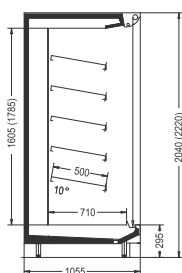
	Monaxis	83	250	M1	1	DL
Name of product line						
Bottom shelf depth: 8 ~ 800 mm						
Front height: 3 ~ 300 mm						
Cabinet length: ~ 2 500 mm						
Temperature class: M1*						
Revision index: 1						
Dual air curtain						
Cabinet height: L = ~ 2 220 mm						

\*Cabinet design according to EN ISO 23953 at climate class 3

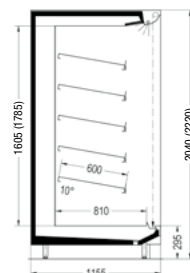
## Operation optimizer



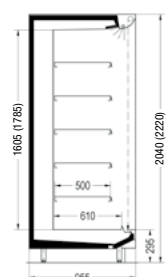
Monaxis 63.M1-1 D (DL)



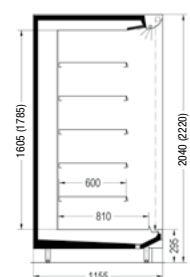
Monaxis 73.M1-1 D (DL)



Monaxis 83.M1-1 D (DL)



Monaxis 63.M2-1 (L)



Monaxis 83.M2-1 (L)

























Supermarket



Hypermarket



Discounter

E6 Monaxis®	Unit	63	73	83
Internal height STD-height	mm	1605	1605	1605
Internal height L-height	mm	1785	1785	1785
Bottom shelf depth	mm	610	710	810
Shelf depth (min. / standard / max.)	mm	350 / 500 / 500	350 / 500 / 500	450 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 6	3 / 4 / 6	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 7	4 / 5 / 7	4 / 5 / 7
Load per module	kg / 125cm	690	690	850
Module length without endwalls (40mm each)	125	✓	✓	✓
	188	✓	✓	✓
	210	-	✓	-
	230	✓	-	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M1 / Storage temp. -1/+1 °C          		✓	✓	✓
Energy label*				
Temperature class M2 / Storage temp. 0/+2 °C       		✓	-	✓
Energy label*			-	

\* Label might change depending on configuration

# E6 MonaxEco<sup>®</sup>

Prime Line

**Closed multideck with attractive design and lowest life cycle costs**

## Operation optimizer



## Benefits at a glance

- Lowest life cycle costs
- Best maintenance conditions
- Energy efficient design
- Attractive product presentation

## Standard configuration

- Low front height (295 mm)
- Carrier's Temperature Equalizer System
- Insulated all-glass swing door with small dark grey print and mullion
- Display shelves with 40 mm scanner price rails
- Integrated front bumper and kickplate
- BREEZtec EC fans (Carrier's Next Generation Air Circulation System)
- Back wall evaporator (F-gas)
- Multiplex kit

## Customization

- Large selection of door options:
  - Transparent all-glass swing door with or without mullion
  - Transparent, anti reflex coated all-glass swing door with or without mullion
- Horizontal LED lighting for canopy, shelf and front shelf
- Vertical LED lighting for door mullion, dividing wall and endwall
- LED lighting DIM module
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper and endwall
- Plinth front bumper and endwall
- Back wall evaporator (CO<sub>2</sub>)



The back wall evaporator enables easy installation and maintenance due to a total clearance height of 125 mm



The low front height of 295 mm provides for attractive cabinet aesthetics



Low energy consumption and short maintenance time secure extreme low life cycle costs

## Technical data

	Customer value	MonaxEco
Prime Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/ Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



MonaxEco 83 . 250 M0 - 1 L

### Name of product line

Bottom shelf depth: 8 – 800 mm

Front height: 3 ~ 300 mm

Cabinet length: ~ 2 500 mm

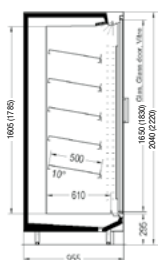
Temperature class: M0\*

Revision index: 1

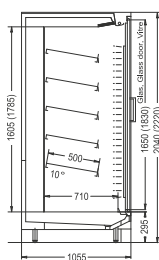
Cabinet height: L = ~ 2 220 mm

\*Cabinet design according to EN ISO 23953 at climate class 3

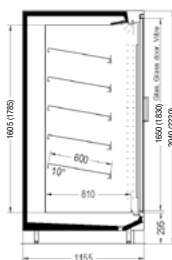
## Operation optimizer



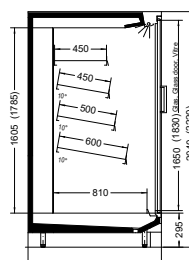
MonaxEco 63.M0-1 (L)



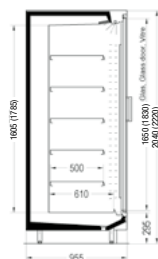
MonaxEco 73.M0-1 (L)



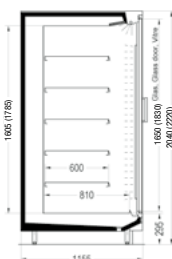
MonaxEco 83.M0-1 (L)



MonaxEco 83.S0-1 (L)



MonaxEco 63.M2-1 (L)



MonaxEco 83.M2-1 (L)



Supermarket



Hypermarket



Discounter

E6 MonaxEco*	Unit	63	73	83
Internal height STD-height	mm	1605	1605	1605
Internal height L-height	mm	1785	1785	1785
Bottom shelf depth	mm	610	710	810
Shelf depth (min. / standard / max.)	mm	350 (400)* / 500 / 500	350 / 500 / 500	450 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 6	3 / 4 / 6	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 7	4 / 5 / 7	4 / 5 / 7
Load per module	kg / 125cm	690	690	850
Module length without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	230	✓	-	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M0 / Storage temp. -2/0 °C		✓	✓	✓
Energy label ***		A D	A D	A D
Temperature class M2 / Storage temp. 0/+2 °C		✓	-	✓
Energy label***		A C	-	A D
Temperature class S0 / Storage temp. -2/-1 °C**		-	-	✓
Energy label***		-	-	A D

\* Minimum shelf depth for temperature class M2 | \*\* Recommended according German standard DIN 10508 \*Food hygiene – Temperature requirements for foodstuffs"

\*\*\* Label might change depending on configuration

# E6 Maress<sup>®</sup> & E6 Maress<sup>®</sup> GD

Prime Line

Open/closed multideck for heavy product load with optimized life cycle cost

## Volume seller



## Benefits at a glance

- Maximum front opening
- Perfect design for heavy product load & box stacking
- Short service and maintenance times
- Optimized life cycle cost

## Standard configuration

- Ultra-low front (220 mm)
- Carrier's Temperature Equalizer System
- Open cabinets with double air curtain (approx. 10 % less energy consumption)
- Closed cabinets with insulated all-glass swing door with small dark grey print and mullion
- Display shelves (open cabinet with additional heavy-duty bottom display deck)
- Integrated front bumper and kickplate
- BREEZtec EC fans (Carrier's Next Generation Air Circulation System)
- Back wall evaporator (F-gas)
- Multiplex kit
- Maress 82.M2-2 D with motorized night blind (30-50 % less energy consumption)

## Customization

- Night blind options for open cabinets:
  - Motorized (30-50 % less energy consumption)
  - Motorized with efficient cover (40-70 % less energy consumption)
- Closed cabinets with large selection of door options:
  - Transparent all-glass swing door with or without mullion
  - Transparent, anti reflex coated all-glass swing door with or without mullion
- Horizontal LED lighting for canopy, shelf and front shelf
- Closed cabinets with vertical LED lighting for door mullion, dividing wall and endwall
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced bumper for endwall
- Back wall evaporator (CO<sub>2</sub>)



The back wall evaporator enables easy installation with short service and maintenance times



The ultra-low front height of only 220 mm provides a maximum front opening



The Maress product family is perfectly designed for heavy product load and stacking of boxes

## Technical data

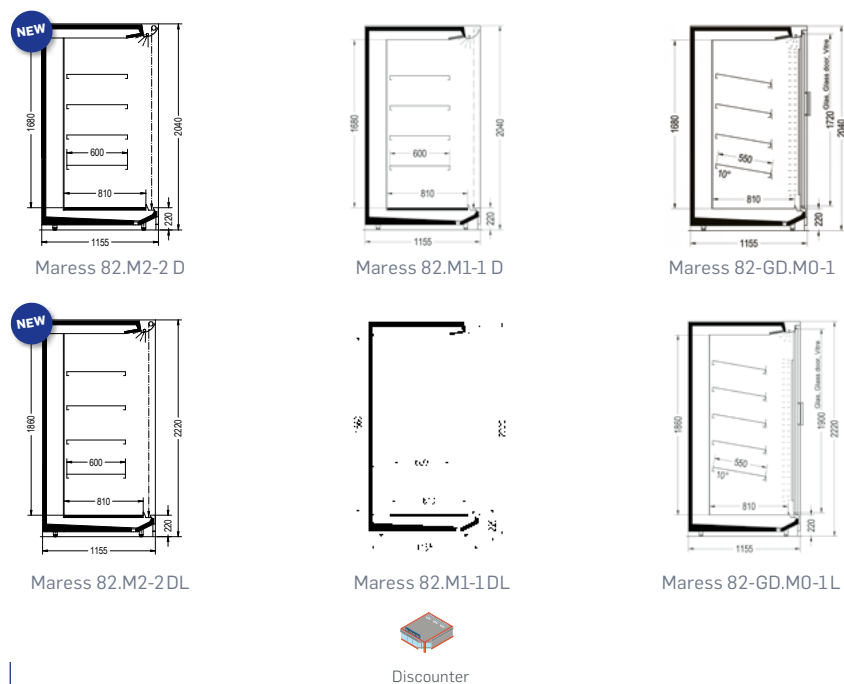
	Customer value	Maress	Maress GD
Prime Line	Heavy product load		
	Energy efficiency		
	Streamlined operation		
	Product visibility		
	Installation/Serviceability		
	Floor space productivity		
	Cabinet aesthetics		



Maress	82	375	M2	2	DL
Name of product line					
Bottom shelf depth: ~ 800 mm					
Front height: ~ 200 mm					
Cabinet length: ~ 3 750 mm					
Temperature class: M2*					
Revision index: 2					
Dual air curtain					
Cabinet height: L = ~ 2 220 mm					

\*Cabinet design according to EN ISO 23953 at climate class 3

## Volume seller



E6 Maress® & E6 Maress® GD	Unit	Maress®		Maress® GD
		82	82	82
Internal height STD-height	mm	1680	1680	1680
Internal height L-height	mm	1860	1860	1860
Bottom shelf depth	mm	810	810	810
Shelf depth (min. / standard / max.)	mm	500 / 600 / 600	500 / 600 / 600	450 / 550 / 600
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 7	3 / 4 / 7	2 / 4 / 7
Shelves L-height (min. / standard / max.)	rows	3 / 4 / 8	3 / 4 / 8	2 / 5 / 8
Load per module	kg / 125 cm	1160	1160	850
Module length without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M0 / Storage temp. -2/0 °C 		-	-	✓
Energy label* 		-	-	
Temperature class M1 / Storage temp. -1/+1 °C 		-	✓	-
Energy label* 		-		-
Temperature class M2 / Storage temp. 0/+2 °C 		✓	-	-
Energy label* 			-	-

\* Label might change depending on configuration

# E6 Monaxis<sup>®</sup>-R & E6 Maress<sup>®</sup>-R

Prime Line

Open roll-in multideck with a robust & energy efficient design

## Volume seller



## Benefits at a glance

- Robust cabinet for heavy product load
- Fast and easy loading
- Hygienic cabinet design

## Standard configuration

- Motorized night blind (30-50 % less energy consumption)
- Two liftable front heights:
  - Monaxis-R with low front height (295 mm)
  - Maress-R with ultra-low front height (220 mm)
- Easy to use front lift allows use of roll-in trolley
- Carrier's Temperature Equalizer System
- Dual air curtain for approx. 10% less energy consumption
- Display shelves with wire fences (lower shelf with air control), Monaxis-R with 40 mm scanner price rails
- Integrated front bumper and kickplate
- Energy efficient EC fans
- Back wall evaporator (F-gas)
- Multiplex kit

## Customization

- Motorized night blind with efficient cover (40-70 % less energy consumption)
- Horizontal LED lighting for canopy, shelf and front shelf
- Monaxis-R with LED lighting DIM module
- Large selection of shelves, price rails & front stopper
- Reinforced front bumper and endwalls
- Back wall evaporator (CO<sub>2</sub>)



Robust cabinet design for heavy product load and box stacking



The easy-to-handle, movable front mechanism, allows the use of roll-in trolleys or pallets for stocking of heavy stacked products



The dual air curtain provides optimized temperature distribution inside the Roll-in cabinet

## Technical data

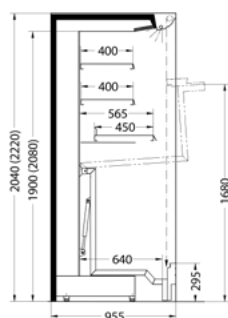


	Customer value	Monaxis®-R	Maress®-R
Prime Line	Heavy product load	■	■
	Energy efficiency	■	■
	Streamlined operation	■	■
	Product visibility	■	■
	Installation/Serviceability	■	■
	Floor space productivity	■	■
	Cabinet aesthetics	■	■

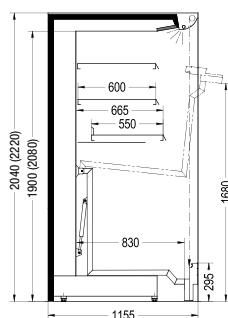
Monaxis	83	R	250	M2	1	DL
Name of product line						
Bottom shelf depth: 8 ~ 800 mm						
Front height: 3 ~ 300 mm						
Cabinet type: R – Roll-in						
Cabinet length: ~ 2 500 mm						
Temperature class: M2*						
Revision index: 1						
Dual air curtain						
Cabinet height: L = ~ 2 220 mm						

\*Cabinet design according to EN ISO 23953 at climate class 3

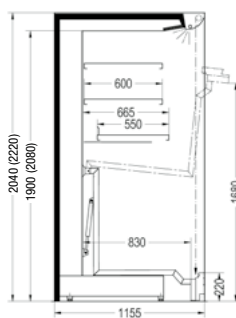
## Volume seller



Monaxis 63-R.M2-1 D (L)



Monaxis 83-R.M2-1 D (L)



Maress 82-R.M2-1 D (L)



Hypermarket



Discounter

E6 Monaxis®-R & E6 Maress®-R	Unit	Monaxis®-R		Maress®-R
		63	83	82
Internal height STD-height	mm	1900	1900	1900
Internal height L-height	mm	2080	2080	2080
Inside bottom depth	mm	640	830	830
Shelf depth (min. / standard / max.)	mm	400 / 400 (450)* / 550	500 / (550)* 600 / 600	500 / (550)* 600 / 600
Shelves STD-height (min. / standard / max.)	rows	1 / 2 / (6)**	1 / 2 / (6)**	1 / 2 / (6)**
Shelves L-height (min. / standard / max.)	rows	2 / 3 / (6)**	2 / 3 / (6)**	2 / 3 / (6)**
Load per module	kg / 125cm	600	600	600
Module length without endwalls (40 mm each)	250	✓	✓	✓
	280	✓	✓	✓
	375	✓	✓	✓
Temperature class M2 / Storage temp. 0/+2 °C		✓	✓	✓
Energy label***		F	F	F

\* Air guided shelf above roll-in trolley | \*\* Without roll-in trolley | \*\*\* Label might change depending on configuration

# E6 Mendos®

Value Line

## Basic open multideck with the highest footprint productivity

### Narrow merchandiser / Space optimizer



### Benefits at a glance

- Very high footprint productivity
- Optimized design for back-to-back installations
- Easy access of evaporator and fans

### Standard configuration

- Motorized night blind (30-50 % less energy consumption)
- Display shelves with single side coating and 40 mm scanner price rails
- Integrated bumper and kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

### Customization

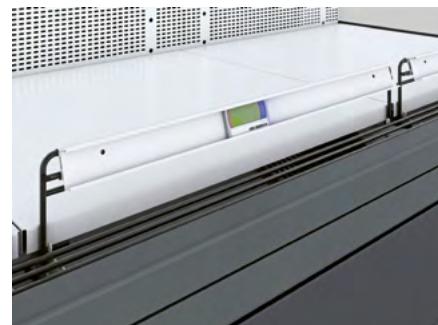
- Horizontal LED lighting for canopy, shelf and front shelf
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper
- Bottom evaporator (CO<sub>2</sub>)
- Transparent raised front to reduce energy consumption



The installed bottom evaporator provides the best floor space productivity among all multideck cabinets for your turnover



Backwall mirrors greatly enhance product visibility



Product stoppers protect air flow and improve presentation

## Technical data

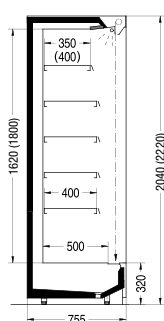


VALUE LINE	Customer value	Mendos			
	Heavy product load	■	■	■	■
	Energy efficiency	■	■	■	■
	Streamlined operation	■	■	■	■
	Product visibility	■	■	■	■
	Installation/Serviceability	■	■	■	■
	Floor space productivity	■	■	■	■
	Cabinet aesthetics	■	■	■	■

Mendos	XU	250	EP	A	L
Name of product line					
Bottom shelf depth:					
X ~ 500, E ~ 600, L ~ 800 mm					
Front height: U ~ 320 mm					
Cabinet length: ~ 2 500 mm					
Temperature class:					
XP ~ M0, HP ~ M1, EP ~ M2*					
Revision index: A					
Cabinet height: L ~ 2 220 mm					

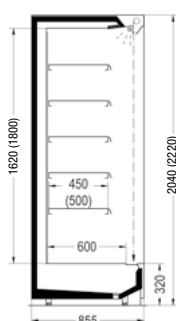
\*Cabinet design according to EN ISO 23953 at climate class 3

### Narrow merchandiser

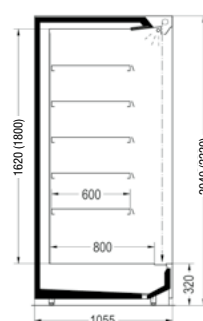


Mendos XU.HP/EP-A (L)

### Space optimizer



Mendos EU.EP-A (L)



Mendos LU.EP-A (L)



Small Store



Supermarket



Hypermarket

E6 Mendos®	Unit	XU (53)	EU (63)	LU (83)
Internal height STD-height	mm	1620	1620	1620
Internal height L-height	mm	1800	1800	1800
Bottom shelf depth	mm	500	600	800
Shelf depth (min. / standard / max.)	mm	350 / 350 (400)* / 400	400 / 450 / 500	500 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	4 / 4 / 5	3 / 4 / 6	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 6	4 / 5 / 7	4 / 5 / 7
Load per module	kg / 125cm	510	665	820
Module length without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M1 / Storage temp. -1/+1 °C 		✓	-	-
Energy label** 			-	-
Temperature class M2 / Storage temp. 0/+2 °C 		✓	✓	✓
Energy label** 				

\* Alternative shelf depth | \*\* Label might change depending on configuration

## Basic closed multideck with the highest footprint productivity

### Narrow merchandiser / Space optimizer



### Benefits at a glance

- Very high footprint productivity
- Optimized design for back-to-back installations
- Easy access of evaporator and fans

### Standard configuration

- Insulated all-glass swing door with small light grey print and mullion
- Display shelves with single side coating and 40 mm scanner price rails
- Integrated bumper and kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

### Customization

- Horizontal LED lighting for canopy, shelf and front shelf
- Vertical LED lighting for door mullion, dividing wall and endwall
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper
- Bottom evaporator (CO<sub>2</sub>)



The installed bottom evaporator provides the best floor space productivity among all multideck cabinets for your turnover



All-glass doors with light grey print provide a seamless produce view



Display grids and product stoppers are available for base shelves

## Technical data

	Customer value	MenEco
VALUE LINE	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/ Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



MenEco LU . 375 HP - A L

### Name of product line

Eco: Closed cabinet with Glass Door

### Bottom shelf depth:

X ~ 500, E ~ 600, L ~ 800 mm

Front height: U ~ 320 mm

Cabinet length: ~ 3 750 mm

### Temperature class:

XP ~ M0, HP ~ M1, EP ~ M2\*

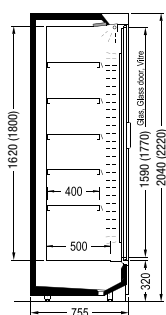
Revision index: A

Cabinet height: L ~ 2 220 mm

\*Cabinet design according to EN ISO 23953 at climate class 3

### Narrow merchandiser

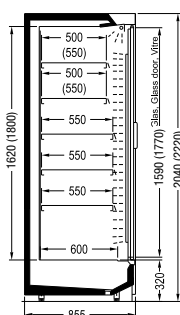
### Space optimizer



MenEco XU.XP-A (L)



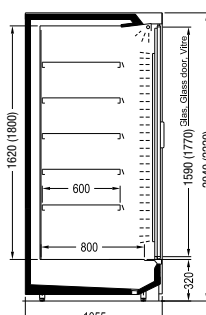
Small Store



MenEco EU.HP-A (L)



Supermarket



MenEco LU.HP-A (L)



Hypermarket

E6 MenEco®	Unit	XU (53)	EU (63)	LU (83)
Internal height STD-height	mm	1620	1620	1620
Internal height L-height	mm	1800	1800	1800
Bottom shelf depth	mm	500	600	800
Shelf depth (min. / standard / max.)	mm	350 / 400 / 400	400 / 500 (550)* / 550	400 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	4 / 4 / 5	3 / 4 / 6	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 6	4 / 5 / 7	4 / 5 / 7
Load per module	kg / 125cm	510	665	730
Module length without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M0 / Storage temp. -2/0 °C		✓	-	-
Energy label**		A ↑ G C	-	-
Temperature class M1 / Storage temp. -1/+1 °C		-	✓	✓
Energy label**		-	A ↑ G D	A ↑ G D

\* Alternative shelf depth | \*\* Label might change depending on configuration

# E6 Mivit<sup>®</sup> & E6 Mivit<sup>®</sup> GD

Value Line

Basic multideck design with high standards

Narrow displayer / Volume seller



## Benefits at a glance

- Maximum front opening
- Open/closed E6 Mivit 52 with slim footprint at highest total display area
- E6 Mivit 82 GD designed for box stacking capacity for high turnover

## Standard configuration

- Ultra-low front (220 mm)
- Closed cabinets with insulated all-glass swing door with small light grey print and mullion
- Display shelves and 40 mm scanner price rails
- Integrated bumper and kickplate
- Back evaporator (F-gas)
- Multiplex kit
- Mivit 52 open & closed with BREEZtec EC fans (Carrier's Next Generation Air Circulation System)

## Customization

- Night blind options for open cabinets:
  - Motorized (30-50 % less energy consumption)
  - Motorized with efficient cover (40-70 % less energy consumption)
- Transparent all-glass swing door with solid mullion for closed cabinets
- Horizontal LED lighting for canopy, shelf and front shelf
- Closed cabinets with vertical LED lighting
- Back wall evaporator (CO<sub>2</sub>)
- Transparent raised front for Mivit 52 to reduce energy consumption



The back wall evaporator provides maximum display opening and self cleaning effect by defrosting



The ultra-low front height of only 220 mm provides a maximum front opening



Easy to clean bottom area by back wall evaporator with simple access of the expansion valve

## Technical data

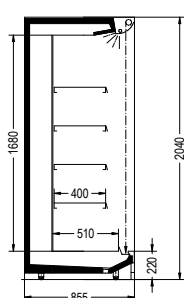


	Customer value	Mivit	Mivit GD
Value Line	Heavy product load	■	■
	Energy efficiency	■	■
	Streamlined operation	■	■
	Product visibility	■	■
	Installation/ Serviceability	■	■
	Floor space productivity	■	■
	Cabinet aesthetics	■	■

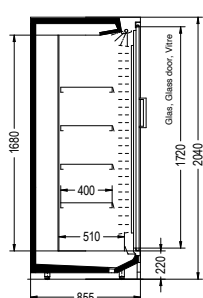
Mivit	52	-	GD	375	M2	-	1	L
Name of product line								
Bottom shelf depth: 5 ~ 500 mm								
Front height: 2 ~ 200 mm								
Glass door								
Cabinet length: 3 750 mm								
Temperature class: M2*								
Revision index: 1								
Cabinet height: L = ~ 2 220 mm								

\*Cabinet design according to EN ISO 23953 at climate class 3

### Narrow displayer

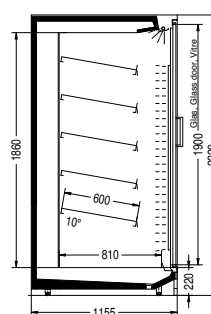


Mivit 52.M2-1

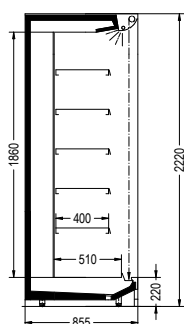


Mivit 52.GD.M2-1

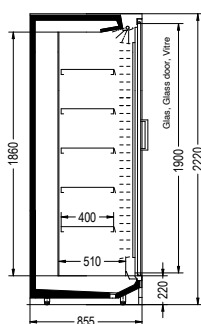
### Volume seller



Mivit 82.GD.M2-1L



Mivit 52.M2-1L



Mivit 52.GD.M2-1L



Small Store



Discounter

E6 Mivit® & E6 Mivit GD®	Unit	Mivit®	Mivit® GD	
		52	52	82
Internal height STD-height	mm	1680	1680	-
Internal height L-height	mm	1860	1860	1860
Bottom shelf depth	mm	510	510	810
Shelf depth (min. / standard / max.)	mm	350 / 400 / 400	350 / 400 / 400	450 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 7	3 / 4 / 7	-
Shelves L-height (min. / standard / max.)	rows	3 / 5 / 8	3 / 5 / 8	3 / 5 / 8
Load per module	kg / 125cm	560	560	850
Module length without endwalls (40 mm each)	125	✓	✓	-
	188	✓	✓	-
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class M2 / Storage temp. 0/+2 °C		✓	✓	✓
Energy label*		A G E	A G C	A G D

\* Label might change depending on configuration

# E6 Mirado® FV

**Ultrafresh Line**

Open semi-vertical multideck with optimized design for ultrafresh goods

Space optimizer / Operation optimizer



## Benefits at a glance

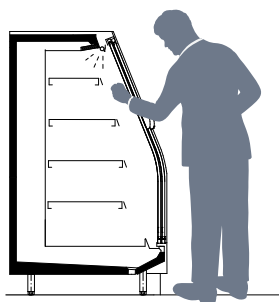
- Maximum display opening by slim canopy
- Ergonomic height
- Special shelving for F&V presentation
- Enhanced visibility in the store

## Standard configuration

- Stepped display shelves with 50 mm wire fence
- Sheet metal design for rear wall
- Integrated bumper, integral bumper and single-piece front kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas) / Mirado 63.M1-2 with back wall evaporator (F-gas)
- Multiplex kit

## Customization

- Manuel night blinds
- LED selection for canopy lighting, shelf lighting and front shelf lighting
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Plinth bumper for increased protection
- Bottom evaporator (CO<sub>2</sub>) / Mirado 63.M1-2 with backwall evaporator (CO<sub>2</sub>)
- Stepped display shelves with brackets (up to 27°) and reinforced scanner price rails



The semi-vertical size provides ergonomic height and customer contact on eye level

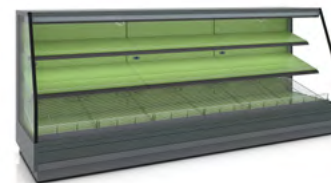


The maximum display opening and the stepped display shelves offer the best presentation of your products



Display shelves with brackets (up to 27°) and reinforced scanner price rails for best product presentation

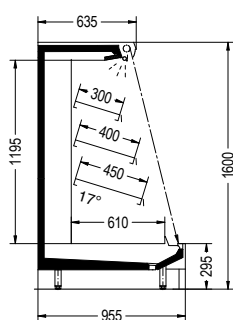
## Technical data



	Customer value	Mirado FV
Ultrafresh Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/Serviceability	
	Floor space productivity	
	Cabinet aesthetics	

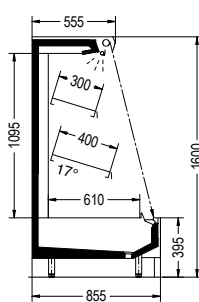
Mirado	84	250	S3	1	FV
Name of product line					
Bottom shelf depth: 8 ~ 800 mm					
Front height: 4 ~ 400 mm					
Cabinet length: ~ 2 500 mm					
Temperature class: S3					
Revision index: 1					
Fruit and vegetables					

### Space optimizer

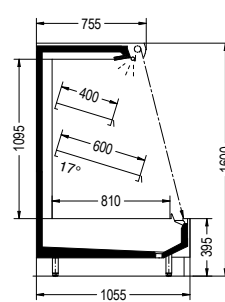


Mirado 63.S3-1FV

### Operation optimizer



Mirado 64.S3-1FV



Mirado 84.3.S3-1FV



E6 Mirado* FV	Unit	63	64	84
Internal height	mm	1195	1095	1095
Bottom shelf depth	mm	610	610	810
Shelf depth (min. / standard / max.)	mm	300 / - / 500	300 / - / 500	300 / - / 600
Shelves (min. / standard / max.)	rows	1 / 3 / 4	1 / 2 / 4	1 / 2 / 4
Module length without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class S3* / Storage temp. +5/+12 °C		✓	✓	✓

\* Cabinets with storage temperature above +10 °C are not within the scope of "Commission Delegated Regulation (EU) 2019/2018 supplementing Regulation (EU) 2017/1369 with regard to energy labelling of refrigerating appliances with a direct sales function"

# E6 Methos FV

Ultrafresh Line

Open multideck with optimized design for ultrafresh goods

Narrow merchandiser / Space optimizer



## Benefits at a glance

- Highest footprint productivity
- Largest selection of configurations
- Easy access of evaporator and fans
- Special shelving for F&V presentation

## Standard configuration

- Display shelves with 50 mm wire fence
- Sheet metal design for rear wall
- Integrated bumper and kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Display shelves with brackets (up to 27°) and reinforced scanner price rails
- Motorized (30-50 % less energy consumption)
- Horizontal LED lighting for canopy, shelf and front shelf
- LED lighting DIM module
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper
- Bottom evaporator (CO<sub>2</sub>)



The installed bottom evaporator provides the best floor space productivity among all multideck cabinets for your turnover



Display shelves with brackets (up to 27°) and reinforced scanner price rails for best product presentation



The optimized small footprint design makes the Methos FV perfect for installations in smaller markets and spaces

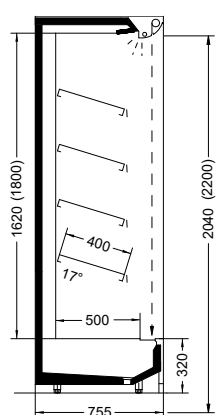
## Technical data

	Customer value	Methos FV
Ultrafresh Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



Methos	53	-	250	-	S3	1	-	FV
Name of product line								
Bottom shelf depth: ~ 500 mm								
Front height: ~ 300 mm								
Cabinet length: ~ 2 500 mm								
Temperature class: S3								
Revision index: 1								
Fruit and vegetables								

### Narrow merchandiser

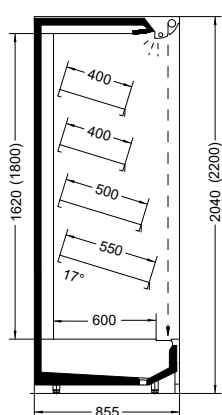


Methos 53.S3-1FV (L)



Small Store

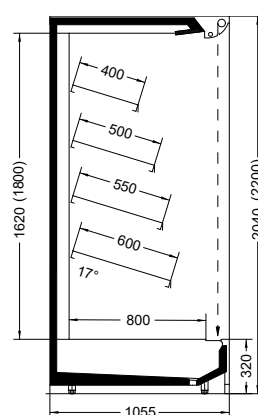
### Space optimizer



Methos 63.S3-1FV (L)



Supermarket



Methos 83.S3-1FV (L)



Hypermarket

E6 Methos FV	Unit	53	63	83
Internal height STD-height	mm	1620	1620	1620
Internal height L-height	mm	1800	1800	1800
Bottom shelf depth	mm	500	600	800
Shelf depth (min. / standard / max.)	mm	300 / - / 500	300 / - / 600	300 / - / 600
Shelves STD-height (min. / standard / max.)	rows	2 / 3 / 6	2 / 3 / 6	2 / 3 / 6
Shelves L-height (min. / standard / max.)	rows	2 / 4 / 7	2 / 4 / 7	2 / 4 / 7
Load per module	kg / 125cm	510	665	820
Module length without endwalls (40 mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class S3* / Storage temp. +5/+12 °C		✓	✓	✓

\* Cabinets with storage temperature above +10 °C are not within the scope of "Commission Delegated Regulation (EU) 2019/2018 supplementing Regulation (EU) 2017/1369 with regard to energy labelling of refrigerating appliances with a direct sales function"

# E6 Monaxis® FV & E6 Monaxis®-R FV

Open multideck with optimized design for ultrafresh goods

Ultrafresh Line

Operation optimizer / Volume seller



## Benefits at a glance

- Lowest life cycle costs
- Best maintenance conditions
- Hygienic interior design
- Special shelving for F&V presentation

## Standard configuration

- Low front height (295 mm)
- Display shelves with 50 mm wire fence
- Sheet metal design for rear wall
- Integrated front bumper and kickplate
- Energy efficient EC fans
- Back wall evaporator (F-gas)
- Multiplex kit

## Customization

- Display shelves with brackets (up to 27°) and reinforced scanner price rails
- Night blind options:
  - Motorized (30-50 % less energy consumption)
  - Motorized with efficient cover (40-70 % less energy consumption)
- Horizontal LED lighting for canopy, shelf and front shelf
- LED DIM module
- Front glazing
- Stainless steel interior
- Large selection of shelves, hooks, price rails and front stoppers
- Reinforced front bumper and endwall
- Plinth front bumper and endwall
- Back wall evaporator (CO<sub>2</sub>)



E6 Monaxis-R 80 FV with fruit and vegetables trolleys allow fast stocking and easy cleaning



Display shelves with brackets (up to 27°) and reinforced scanner price rails for best product presentation



Easy to clean bottom area by back wall evaporator with simple access of the expansion valve

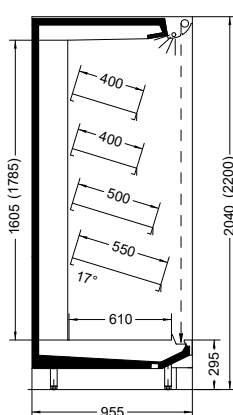
## Technical data

[illegible]

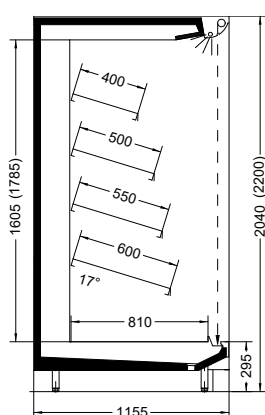
The diagram illustrates the mapping of product specifications to a code structure. The specifications are listed on the left, and the code structure is shown on the right. Lines connect each specification to its corresponding value in the code structure.

Specification	Code Structure Value
Name of product line	Monaxis
Bottom shelf depth: ~ 600mm	63
Front height: ~ 300mm	375
Cabinet length: 3 750mm	S3
Temperature class: S3	1
Revision index: 1	FV
Fruit and vegetables	

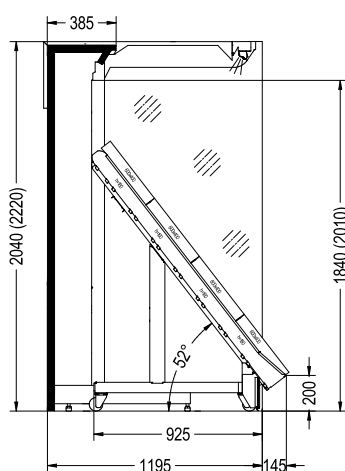
## Operation optimizer



Monaxis 63.S3-1FV (L)







Monaxis 83.S3-1FV (L)



Monaxis-R 80.S3-1FV (L)



E6 Monaxis® FV & E6 Monaxis®-R FV	Unit	63	83	R-80
Internal height STD-height	mm	1605	1605	1900
Internal height L-height	mm	1785	1785	2080
Bottom shelf depth	mm	610	810	830*
Shelf depth (min. / standard / max.)	mm	300 / - / 600	300 / - / 600	300 / - / 600
Shelves STD-height (min. / standard / max.)	rows	2 / 3 / 6	2 / 3 / 6	Roll-in trolley
Shelves L-height (min. / standard / max.)	rows	2 / 4 / 7	2 / 4 / 7	Roll-in trolley
Load per module	kg / 125 cm	690	850	600
Module length without endwalls (40mm each)	125	✓	✓	✓
	188	✓	✓	✓
	250	✓	✓	✓
	375	✓	✓	✓
Temperature class S3** / Storage temp. +5/+12 °C    		✓	✓	✓

\* Bottom depth | \*\* Cabinets with storage temperature above +10 °C are not within the scope of "Commission Delegated Regulation (EU) 2019/2018 supplementing Regulation (EU) 2017/1369 with regard to energy labelling of refrigerating appliances with a direct sales function"

# E6 Program Features

All 60 bar CO<sub>2</sub> evaporators operate with 90 bar expansion valve and 90 bar liquid line

## Benefits

- Modern design concept
- Increased display area
- Flexibility in merchandising
- EN ISO 23953 classification
- Energy & service efficiency
- Reduced lifecycle cost

Approx. 11%  
larger glass area

25 mm shelf  
spacing

Numbered shelving

Price rail located  
close to products;  
stopper included

Improved  
lighting

## BREEZtec

### Carrier's Next Generation Air Circulation System

#### Energy & economical efficiency

- Reduction of energy consumption from 30 to 45% compared to conventional EC fans<sup>1</sup>
- Energy cost savings per cabinet result from 50 to 70 Euro per year<sup>2</sup>
- Designed for a high service durability

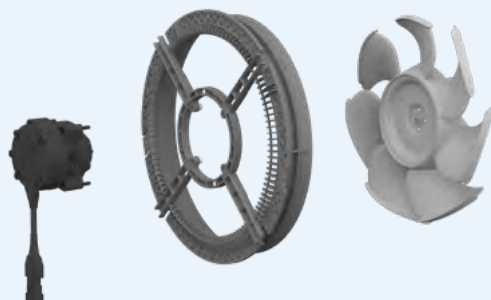
#### Operation & noise emissions

- Provides homogeneous and highly efficient temperature distribution by combining Carrier Temperature Equalizer System (TES) and EC fan motors
- Reduced sound pressure level by up to -4dBA
- Better noise quality by smooth spectrum with lower tonal content

#### Application

The new BREEZtec air circulation system is optimized for all remote E6 Multidecks and E6 Semi-Verticals with back evaporator design.

Latest EC fan motor technology with new Carrier patented fan housing and fan blade design for improved energy efficiency and reduced noise emission.



Remote multideck with back evaporator design showing the position of the new Carrier fan technology and the optimized air circulation inside the cabinet for a better homogeneous product storage temperature.



Premium Power LED  
for Canopy

Temperature Equalizer System  
+ dual air curtain

Modern clean  
design

Optimized  
air management

Minimum distance  
bottom shelf to  
lowest shelf level:  
295mm

Higher evaporating  
temperature

Cabinets fulfill  
temperature  
class M0, M1 or M2  
according to  
EN ISO 23953

Insulated all-glass  
doors (standard or  
transparent framed)



# E6 Glass Door Program Multidecks

To increase display area and maximize the visibility of the products with the optimized energy efficiency



**Swing Fully Transparent Door with Transparent Gap Cover**

Best product visibility

**Swing Fully Transparent Door with Solid Mullion**



High product visibility & high energy efficiency

E6 Multideck & E6 Semi-Vertical	Glass Door Type					
	Swing All-glass Frameless Door with small Dark grey Print	Swing All-glass Frameless Door with small Light grey Print	Swing Fully Transparent Door	Swing Fully Transparent Door with Anti-reflex coating	Fully Transparent 400 mm Door	Sliding Fully Transparent Door
Methos GD	✓	-	✓	✓	✓	-
Methos GD HY	✓	-	✓	✓	-	-
MonaxEco	✓	-	✓	✓	-	-
Maress GD	✓	-	✓	✓	-	-
MenEco	-	✓	-	-	-	-
Mivit GD *	-	✓	✓	-	-	-
Optimer LG (remote)	✓	-	✓	✓	-	-
Morea GS	-	-	-	-	-	✓
Mirado GS	-	-	-	-	-	✓

All types of Transparent Doors are available with Solid Mullion and Transparent Gap Cover

\*Available with Solid Mullion only

Glass Door Type	Swing All-glass Frameless Door with small Dark grey Print	Swing All-glass Frameless Door with small Light grey Print	Swing Fully Transparent Door	Swing Fully Transparent Door with Anti-reflex coating	Fully Transparent 400mm Door
Gas Inside	Argon	Argon	Argon	Argon	Argon
Ug value [W/m²K]*	1,1	1,1	1,1	<1,8	1,1
Light Transmittance [%]	80	80	80	92	80
Outdoor reflectance [%]	12	12	12	4	12
Multidecks application	ALL except MenEco, Mivit GD	MenEco, Mivit GD	ALL except MenEco	ALL except MenEco, Mivit GD	Methos GD

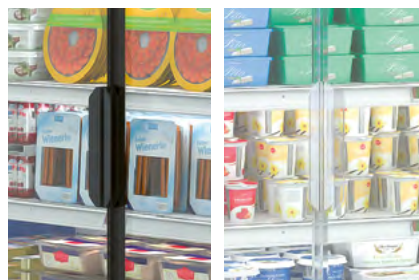
\*The lower the Ug value, the lower the energy loss due to heat transmission through the glass

## Door handle options



### MonaxEco, Maress GD, Mivit GD

- Light grey
- Transparent
- Dark grey



### Methos GD

- Dark grey
- Transparent



### MenEco

- Light grey

Best energy efficiency



**Swing All-glass Frameless Door  
with small Dark grey Print with  
Solid Mullion**

Best energy efficiency



**Swing All-glass Frameless Door  
with small Light grey Print with Solid Mullion**

# E6 Light Program Multidecks & Semi-Verticals

## Glass Door Multidecks



### Canopy lighting

- Premium Power LED
- Premium LED
- Smart LED

### Vertical lighting

- Premium LED (Solid mullion)
- Premium SLIM LED \* (Integrated in transparent gap cover with no glare, no dots, no additional canopy needed)
- Smart LED

\*Available for Methos GD, Monaxeco, Maress GD with Transparent Doors and Transparent Gap Cover

### Canopy lighting

- Premium Power LED
- Premium LED
- Smart LED

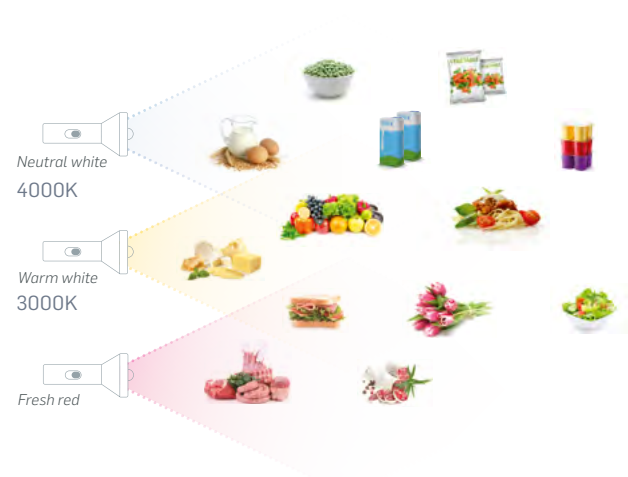
### Shelf lighting

- Premium Front Shelf LED
- Premium LED
- Smart LED

Possible Light Combinations		PREMIUM LED					SMART LED		
		Premium Vertical LED *	Premium Canopy LED	Premium Power Canopy LED	Premium Front Shelf LED	Premium Shelf LED	Smart Vertical LED **	Smart Canopy LED	Smart Shelf LED
PREMIUM LED	Premium Vertical LED *	✓	✓	✓	-	-	-	-	-
	Premium Canopy LED	✓	✓	-	✓	✓	-	-	-
	Premium Power Canopy LED	✓	-	✓	✓	✓	-	-	-
	Premium Front Shelf LED	-	✓	✓	✓	-	-	-	-
	Premium Shelf LED	-	✓	✓	-	✓	-	-	-
SMART LED	Smart Vertical LED **	-	-	-	-	-	✓	✓	-
	Smart Canopy LED	-	-	-	-	-	✓	✓	✓
	Smart Shelf LED	-	-	-	-	-	-	✓	✓

\* only for closed multidecks \*\* only for closed multidecks with solid mullion

### Available colors Premium LED\*:



\* LED mix between Premium range and Smart LED range not possible

## Open Multidecks



### Canopy lighting

- Premium Power LED
- Premium LED
- Smart LED

### Shelf lighting

- Premium Front Shelf LED
- Premium LED
- Smart LED

## Available colors Smart LED\*:



## Semi-Verticals (open / glass door)



### Canopy lighting

- Premium LED
- Smart LED

### Shelf lighting

- Premium Front Shelf LED
- Premium LED
- Smart LED

## Premium LED Features

- Best possible product illumination thanks to a special optic
- High color performance CRI 94
- Very long lifetime 94 000 hours L80 B10
- Robust aluminium housing
- Full color range of all options

## Smart LED Features

- Efficient LED lamp with bright illumination
- Plastic housing
- Neutral white for all products
- Best value for price

# E6 Color Concept Multidecks

## Plastic parts

Deep Black (FA 9005)	
Anthracite (FA 7016)	
Grey (FA 0502)	
Nimbus Grey (FA 0633)	
Stratus Grey (FA 0632)	
Cirrus Grey (FA 0631)	
Traffic Red (FA 0411)	

## Grid & wire

Deep Black (FA 9005)	
White Aluminium (FA 9006)	
Signal White (FA 0605)	



Front	Standard color	Optional color
Price rails	Signal White	Traffic Red, Deep Black, White Aluminium
Return air grille	Stratus Grey, Signal White	See Carrier Colors Guide
Front bumper	Stratus Grey	Grey, Cirrus Grey, Traffic Red, Deep Black, Anthracite
Plinth panel	Nimbus Grey	Grey, Cirrus Grey, Stratus Grey, Traffic Red, Deep Black, Anthracite
Kickplate	Nimbus Grey	See Carrier Colors Guide
Cover front	Stratus Grey	See Carrier Colors Guide



Exterior	Standard color	Optional color
Canopy panel	Nimbus grey	See Carrier Colors Guide
Endwall, external		
Endwall cover base section	Stratus Grey	See Carrier Colors Guide

Interior	Standard color	Optional color
Display shelves	Signal White	See Carrier Colors Guide
Air baffle plate		
Bottom deck		
Ceiling panelling		
Endwall, internal (non-glazed, part-glazed)	Signal White	Cirrus Grey, Stratus Grey, Deep Black, Grey, Anthrazit
Endwall, internal (panorama and mirrored)	Stratus Grey	Anthracite

# Endwalls

## E6 Semi-Verticals & E6 Multidecks

Cabinets	Endwall Type						Dividing Wall Type		
	Rectangular				Contoured		Rectangular		
	Panorama	Part-glazed	Non-glazed	Internally mirrored	Panorama	Mirrored on both sides	Panorama	Internally mirrored on both sides	"Non-glazed/mirrored"
Methos / Methos GD (HY) / Methos FV	✓	✓	✓	✓	-	-	✓	✓	-
Monaxis / MonaxEco / Monaxis FV	✓	✓	✓	✓	-	-	✓	✓	✓*
Maress / Maress GD	✓	✓	✓	✓	-	-	✓	✓	✓
Monaxis-R	✓	✓	✓	✓	-	-	-	-	✓
Monaxis-R FV	✓	✓	✓	✓	-	-	-	-	✓
Maress-R	✓	✓	✓	✓	-	-	-	-	✓
Mendos / MenEco	✓	-	✓	✓	-	-	✓	✓	-
Mivit / Mivit GD	✓	✓	✓	✓	-	-	✓	✓	-
Mirado / Mirado GS / Mirado FV	-	-	-	✓	✓	✓	-	-	✓**
Morea / Morea GS	-	-	-	✓	✓	✓	-	-	✓

\* Multiplexing with Velando | \*\* Not available for Mirado 86 (GS)

FV = Fruit & Vegetables

HY = Hypermodularity

### Examples per product family:

#### E6 Mirado 63 GS



Panorama



Mirrored on both sides



Non-glazed / internally mirrored

#### E6 Morea 84 GS



Panorama



Mirrored on both sides



Non-glazed / internally mirrored

#### E6 Methos 53-GD



Panorama



Part-glazed



Non-glazed / internally mirrored

#### E6 MonaxEco 63



Panorama



Part-glazed



Non-glazed / internally mirrored

#### E6 Maress 82-GD



Panorama



Part-glazed



Non-glazed / internally mirrored

#### E6 Mivit 52-GD



Panorama



Non-glazed / internally mirrored

#### E6 MenEco XU



Panorama



Non-glazed / internally mirrored

Prime Line

Value Line

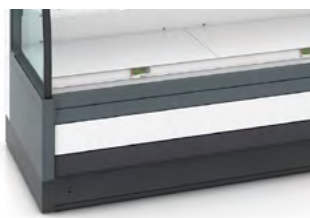
# Bumpers

## E6 Semi-Verticals & E6 Multidecks

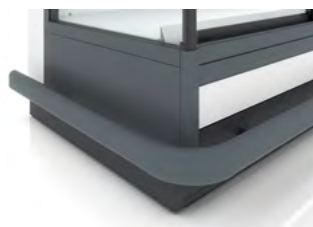
### Examples per product family:

**E6 Mirado / Mirado GS**  
**E6 Morea / Morea GS**  
**E6 Mirado FV**

**E6 Monaxis / MonaxEco**  
**E6 Monaxis FV**



Front bumper (standard) and  
integral bumper (standard)\*



Plinth bumper for the front and  
endwall\*



Front bumper (standard)

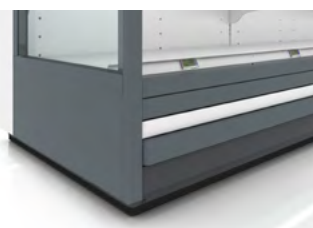


Front bumper for endwall  
(additional)

**E6 Methos / Methos GD**  
**E6 Methos FV**



Front bumper (standard)\*



Front bumper (additional)\*

**E6 Maress / Maress GD**  
**E6 Mivit / Mivit GD**



Front bumper (standard)

**E6 Monaxis-R**



Front bumper (standard)

**E6 Mendos / MenEco**



Front bumper (standard)\*

**\*White front parts**  
 Paintable metal sheet.  
 Customization possible  
 according to Carrier's Powder  
 paint selection guide



Bumpers	E6 Mirado	E6 Mirado-GS	E6 Morea	E6 Morea-GS	E6 Methos	E6 Methos GD	E6 Monaxis	E6 MonaxEco	E6 Maress	E6 Maress GD	E6 Monaxis-R	E6 Maress-R	E6 Mendos	E6 MenEco	E6 Mivit	E6 Mivit GD	E6 Mirado FV	E6 Methos FV	E6 Monaxis FV
<b>Bumpers (standard)</b>																			
Front bumper (stratus grey)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Integral bumper (nimbus grey)	●	●	●	●													●		
<b>Bumpers (optional) Front bumpers additional</b>																			
Front bumper	○	○	●	●	●	●	●	●									○	●	●
Front bumper, Form A					●	●							●	●				●	
<b>Endwall bumpers</b>																			
Bumper for endwall with corner piece							○	○	●	●	●	●			●	●			●
<b>Plinth bumpers</b>																			
Plinth bumper	○	○	●	●			●	●									●		●
Plinth bumper for endwall with corner piece	○	○	●	●			●	●									●		●

● Available ○ Available for specific cabinets or length

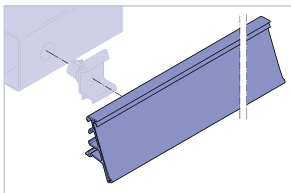
# Accessories

## E6 Semi-Verticals & E6 Multidecks

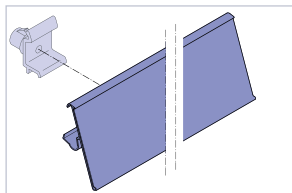
### Price Marking

Accessories	E6 Mirado	E6 Mirado GS	E6 Morea	E6 Morea GS	E6 Method	E6 Method GD	E6 Monaxis	E6 MonaxisEco	E6 Maress	E6 Maress GD	E6 Monaxis-R	E6 Maress-R	E6 Mendos	E6 MenEco	E6 Mivit	E6 Mivit GD	E6 Mirado FV	E6 Method FV	E6 Monaxis FV
<b>Scanner pricing rails</b>																			
Scanner pricing rail 40 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scanner pricing rail 40 mm (27°)																	•	•	•
Scanner pricing rail 50/52 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Scanner pricing rail 60 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scanner pricing rail 60 mm (27°)																	•	•	•
Scanner pricing rail 2x40 mm							•	•	•	•	•	•	•	•	•	•			
Scanner pricing rail, 40 mm with product stop	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
<b>Pricing rail holders</b>																			
Pricing rail holder, Form R (ESL)	•	•	•	•	•	•	•	•	•	•	•	•	○	○	•	•			
Pricing rail holder, ALU, 58 mm										•		•							
Holder for pricing tags for display shelf	•	•	•	•	•	•	•	•	•	•					•	•			
Holder for price tickets	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holder pricerail, flush, Form K	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•
Holder pricerail, upraised, Form K	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•
Holder pricerail, Form K							•	○											•
Holder for pricing tags, triple, for display shelf	•	•	•	•	•	•	•	•		•			•	•	•	•	•	•	•
Scanner pricing rail 58 mm with holder									•	•		•							
<b>Price marking, other</b>																			
Pricing rail for electronic marking (ESL)					•	•	•	•	•	•	•	•			•	•			
Pricing rail for electronic marking, Form F (ESL)	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•
Universal price holder for shelf, Form F (ESL)	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•
Bracket for pricing rail									•	•		•							
Scanner rail, 68 mm (0° / 15°), Form AL							•		•	•	•	•			•	○			•
<b>Cabinet front scanner pricing rails</b>																			
Pricing rail for bottom shelf 40 mm					•	•				•	•	•	•	•	•	•		•	
Pricing rail for bottom shelf 52 mm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pricing rail for bottom shelf 60 mm	•	•	•	•	•	•	•	○	•	•	•	•	•	•	•	•	•	•	•
<b>Cabinet front pricing rail holders</b>																			
Holder Price rail elec. mark., base shelf, Form F (ESL)	•	•	•	•	•	•	•	○					•	•	•	•	•	•	•
Holder Price rail elec. mark., base shelf, Form A (ESL)	○	○	•	•	•	•							•	•			○	•	
Universal price rail holder, base shelf, Form F	○	○	•	•	•	•							•	•			○	•	
Holder price rail bottom deck											•	•							

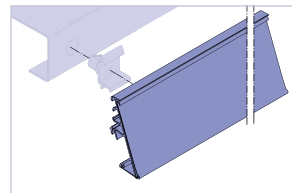
• Available    ○ Available except special dimensions



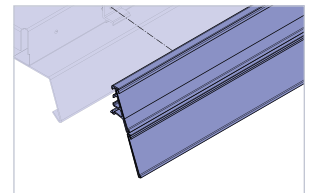
Scanner pricing rail 40 mm



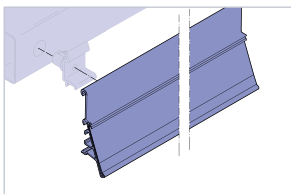
Scanner pricing rail 50/52 mm



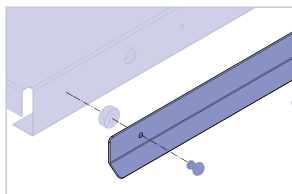
Scanner pricing rail 60 mm



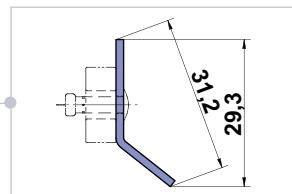
Scanner pricing rail 2x40 mm



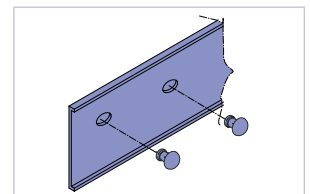
Scanner pricing rail, 40 mm, with product stop



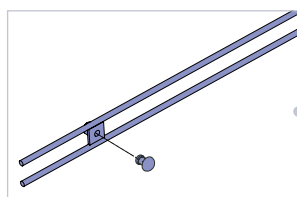
Pricing rail holder, Form R (ESL), Fig. 1



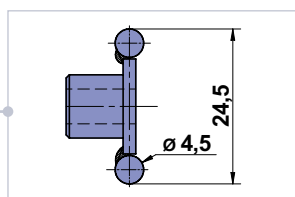
Pricing rail holder, Form R (ESL), Fig. 2



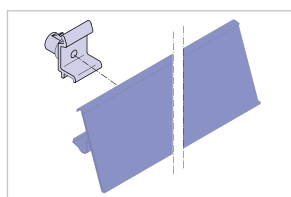
Pricing rail holder, ALU, 58 mm



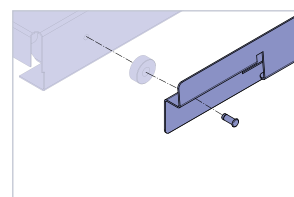
Holder for pricing tags for display shelf, Fig. 1



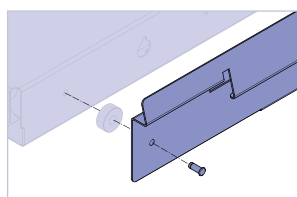
Holder for pricing tags for display shelf, Fig. 2



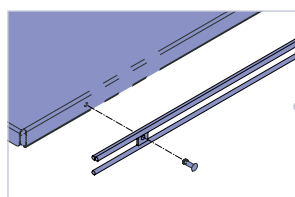
Holder for price tickets



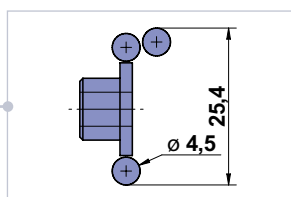
Holder pricerail, flush, Form K



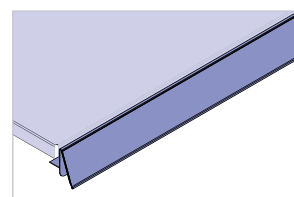
Holder pricerail, upraised, Form K



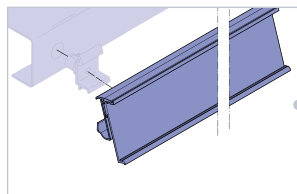
Holder for pricing tags, triple, for display shelf, Fig. 1



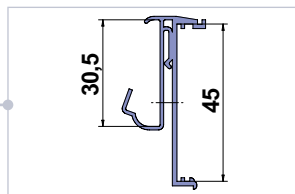
Holder for pricing tags, triple, for display shelf, Fig. 2



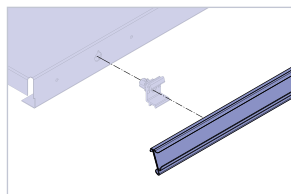
Scanner pricerail 58 mm with holder



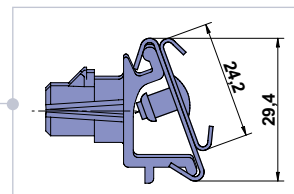
Pricing rail for electronic marking (ESL), Fig. 1



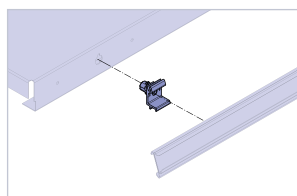
Pricing rail for electronic marking (ESL), Fig. 2



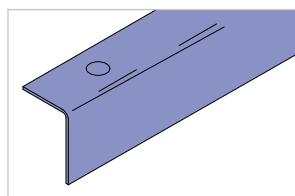
Pricing rail for electronic marking, Form F (ESL), Fig. 1



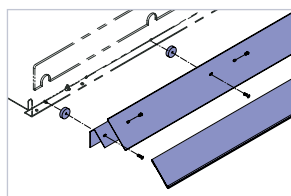
Pricing rail for electronic marking, Form F (ESL), Fig. 2



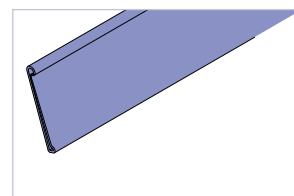
Universal price holder for shelf, Form F (ESL)



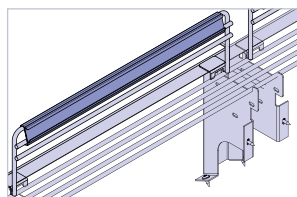
Bracket for pricerail



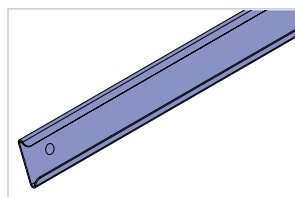
Scanner rail, 68 mm (0° / 15°), Form AL



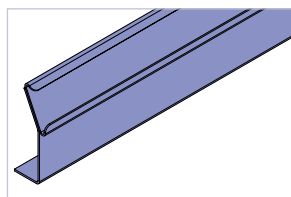
Pricing rail for bottom shelf, 40, 52, 60 mm



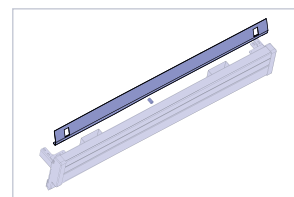
Holder Price rail elec. mark., base shelf, Form F (ESL)



Holder Price rail elec. mark., base shelf, Form A (ESL)



Universal price rail holder, base shelf, Form F



Holder pricerail bottom deck

Appearance and measurement may slightly differ



# Accessories

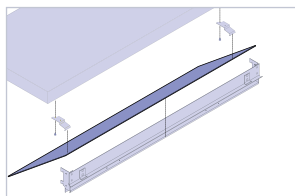
## E6 Semi-Verticals & E6 Multidecks

### Display Shelves & Mirrors

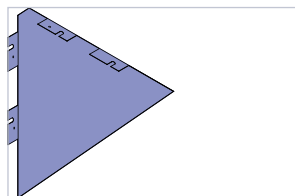
Accessories	E6 Mirado	E6 Mirado GS	E6 Morea	E6 Morea GS	E6 Methos	E6 Methos GD	E6 Monaxis	E6 MonaxEco	E6 Maress	E6 Maress GD	E6 Monaxis-R	E6 Maress-R	E6 Mendos	E6 MenEco	E6 Mivit	E6 Mivit GD	E6 Mirado FV	E6 Methos FV	E6 Monaxis FV
Mirrors					o	o	o	o	o	o			o	o		o		o	o
Lateral mirror trim					o	o	o	o	o	o			o	o		o		o	o
Display shelves	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	•	o	•
Display shelves with single side coating					o	o							o	o			•	o	•
Display shelves with CrNi	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	•	o	•
Slim line display shelves	o	o	o	o	o	o	o	o		o	o		o	o	o	o	•	o	•
Slim line display shelves CrNi	o	o	o	o	o	o	o	o		o	o		o	o	o	o	•	o	•
Beverages shelves					o	o	o	o					o	o	o	o			
Heavy duty shelves / brackets					o	o	o	o	o		o	o	o	o	o	o			
Display shelves with air control											o	o							
Glass shelves	o	o	o	o			o	o								o	•	o	•
Display shelf end cover	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	•
Wire divider	o	o	o		o	o	o	o	•	•	o	•	o	o	o	o	o	o	o
Wire fences	o	o	o	o	•	•	•	•	•	•	o	•	•	•	•	o	o	o	o
Glass fences	o	o	o	o	•	•	•	•	•	•	•	•	•	•	•	o	o	o	o
Hook displays, support rail	o	o	o	o	o	o	o	o		•			o	o		o			
Hook displays, air baffle of acrylic glass	o	o	o	o	o	o	•	•					o	o		o			
Hook displays, hooks	•	•	•	•	•	•	•	•		•			•	•		o			
Scan hook 400 mm	•	•	•	•	•	o	•	•		•			o	o		o			
Scan hook 500 mm	•	•	•	•	•	•	•	•		•			•	•		o			
Euro hook 400 mm	•	•	•	•	•	o	•	•		•			o	o		o			
Euro hook 500 mm	•	•	•	•	•	o	•	•		•			o	o		o			
Cover for hook display 600 mm	o	o	o	o	o	o	o	o		•			o	o		o			

• Available    o Available except special dimensions

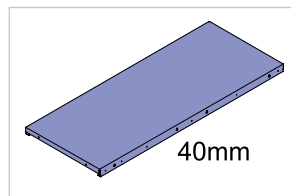




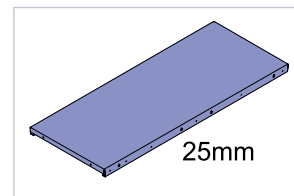
Mirror, 330, 450, 580mm



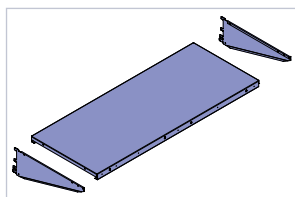
Lateral mirror cover,  
330, 450, 580mm



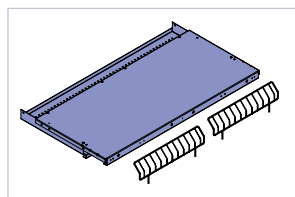
Display shelf / single side  
coating / CrNi, 300, 350, 400,  
450, 500, 550, 600mm



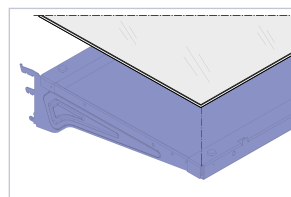
Slim Line display shelf / CrNi,  
300, 350, 400, 450, 500, 550,  
600mm



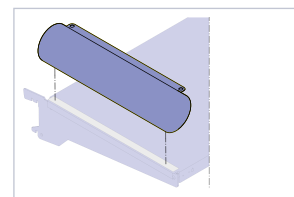
Heavy duty shelf, 350, 400 mm /  
Heavy duty brackets



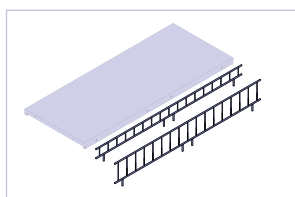
Display shelf with air  
control, 650mm



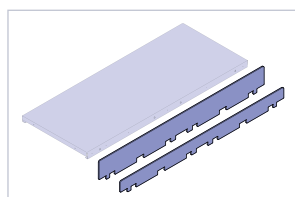
Glass shelf, 300, 350, 400,  
450, 500mm



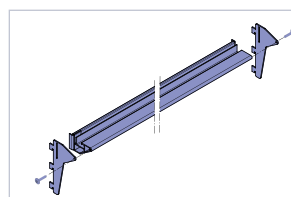
Display shelf cover 350, 400,  
450, 500, 550, 600mm



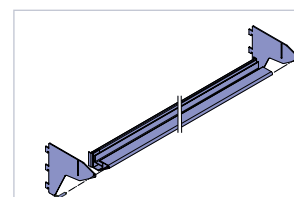
Wire fence 50, 100mm



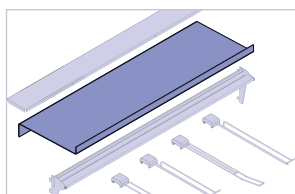
Glass fence 30, 50, 70,  
100 mm / Glass fence slim  
line 50, 70, 100mm



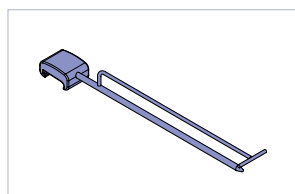
Hook support rail,  
400/500mm



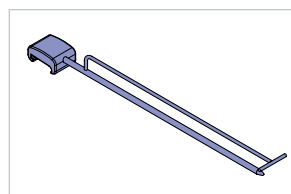
Hook display, 600mm



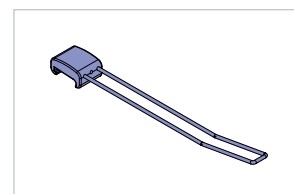
Air baffle of acrylic glass,  
400, 500/600mm



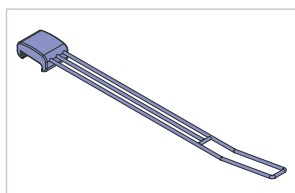
Scan hook, 400mm



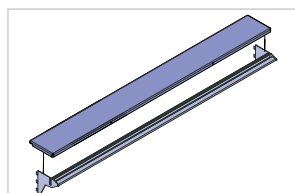
Scan hook, 500mm



Euro hook, 400mm



Euro hook, 500mm



Cover for hook display,  
600mm

Appearance and measurement may slightly differ





## Vertical Freezers

# Product Overview E6 Vertical Freezers

## Narrow merchandiser

Maximum product facing in small spaces

## Space optimizer

Maximum floor space productivity optimized for back-to-back installation



E6 Velando 53



E6 Velando QL AA CE 191



E6 Velando CS\*



Prime Line: Energy efficient design with a wide range of module lengths, options and accessories

Value Line: Focus on essential features with limited range of module lengths, options and accessories

## Flexible merchandiser

Includes smart features



E6 Velando AF



E6 Virando 63



E6 Velando QL AA CE 235



E6 Velando SG 63

\* For product information please see Compact Line brochure

# E6 Virando® 63

Prime Line

Semi-vertical freezer for the new center of your market

NEW



## Benefits at a glance

- Large loading volume at low height
- Ideally suited for market center installations
- Perfectly combinable with chiller semi-verticals from E6 Mirado® range

## Standard configuration

- Black Anti-Fog (AF) all-glass doors
- Black ergonomic door handles
- Wire shelves with front-to back rods
- Vertical LED lighting for mullions
- Integrated bumper and kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Horizontal LED lighting for canopy
- Large selection of display baskets, wire shelves, bottom racks and wire dividers
- Plinth front bumper and endwalls
- Bottom evaporator (CO<sub>2</sub>)



Perfectly combinable with semi-vertical chiller E6 Mirado® to present a large range of products in small place



Semi-vertical low height of only 1,60m enhances vision and display in your market and improves the contact between customers



Wide range of accessories with wire shelves, display baskets and telescopic display baskets for easy loading

## Technical data

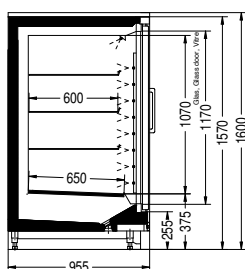
	Customer value	Virando 63
Prime Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/ Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



Virando	63	390	L1	1
Name of product line				
Bottom shelf depth: 6 ~ 6800 mm				
Front height: 3 ~ 300 mm				
Cabinet length: ~ 3 900 mm				
Temperature class: L1*				
Revision index: 1				

\*Cabinet design according to EN ISO 23953 at climate class 3

### Flexible merchandiser



Virando 63.L1-1



#### Concept study:

Freezer section with E6 Velando AF, E6 Virando 63 & E6 Irios GL with wood cladding option

E6 Virando®	Unit	63.L1-1
Internal height	mm	1045
Bottom shelf depth	mm	650
Shelf depth	mm	500 / 600 / 600
Shelves	rows	2 / 3 / 5
Module length (door) without endwalls (50 mm each)	2D-156	✓
	3D-235	✓
	4D-313	✓
	5D-390	✓
Temperature class L1 / Storage temp. -22/-24 °C		✓
Energy label*		

\* Label might change depending on configuration

# E6 Velando<sup>®</sup> 53

Prime Line

**Narrow vertical freezer with outstanding footprint productivity for limited space**

Narrow merchandiser



## Benefits at a glance

- Large loading volume for a narrow footprint
- High footprint sales productivity
- Excellent product visibility

## Standard configuration

- Total depth of only 765 mm
- Anti-Fog (AF) doors with aluminium frame
- Ergonomic door handles
- Slim brackets with 25 mm shelf spacing and numbering
- Vertical LED lighting
- Bottom evaporator (F-gas)
- Energy efficient EC fans

## Customization

- Panorama endwalls
- Bottom display baskets
- External bumper for increased protection
- Bottom evaporator (CO<sub>2</sub>)



Narrow freezer with a total depth of only 765 mm



Panorama endwall for a better product visibility



Slim brackets with 25 mm shelf spacing for an improved loading of products

## Technical data

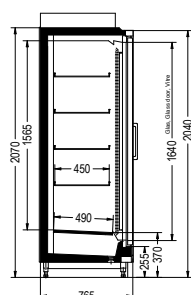
	Customer value	Velando 53
Prime Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/ Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



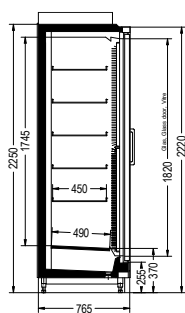
Velando	53	390	L1	1	L
Name of product line					
Bottom shelf depth: 5 ~ 500 mm					
Front height: 3 ~ 300 mm					
Cabinet length: ~ 3 900 mm					
Temperature class: L1*					
Revision index: 1					
Cabinet height: L = ~ 2 220 mm					

\*Cabinet design according to EN ISO 23953 at climate class 3

### Narrow merchandiser



Velando 53.L1-1



Velando 53.L1-1L



Small Store



Supermarket



E6 Velando 53 is the narrow freezer solution for small stores and supermarkets (20% less floor space vs. E6 Velando AF)

E6 Velando® 53	Unit	53.L1-1
Internal height STD-height	mm	1565
Internal height L-height	mm	1745
Bottom shelf depth	mm	490
Shelf depth	mm	450
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 5
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 6
Load per module	kg / 79 cm	290 (320)*
Module length (door) without endwalls (50 mm each)	2D-156	✓
	3D-235	✓
	4D-313	✓
	5D-390	✓
Temperature class L1 / Storage temp. -22/-24 °C		✓
Energy label**		

\* For cabinets with two endwalls | \*\* Label might change depending on configuration

# E6 Velando® AF

Prime Line

Premium vertical freezer with large storage capacity

## Space optimizer



## Benefits at a glance

- Enhanced visibility of presented goods
- Large storage capacity
- Simplified maintenance
- Lower energy consumption with optional High Efficiency Frame

## Standard configuration

- Anti-Fog (AF) non-heated passive glass doors
- Ergonomic door handles
- Vertical LED lighting
- Two piece cabinet front with bumper profile
- Single piece front kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- High Efficiency Frame (HEF) reduces energy consumption
- Panorama and non-glazed endwalls
- Horizontal LED lighting for canopy
- Large selection of display baskets, wire shelves, bottom racks, wire dividers and pricing rails
- Bulk section with telescopic basket
- Plinth front bumper and endwalls
- Bottom evaporator (CO<sub>2</sub>)



Wide range of accessories with wire shelves, display baskets and telescopic display baskets for easy loading



The optional High Efficiency Frame with glass fiber-reinforced plastic significantly reduces the vertical freezers energy consumption



E6 Velando AF with High Efficiency Frame (HEF) provides the best energy performance within freezer cabinet portfolio

## Technical data

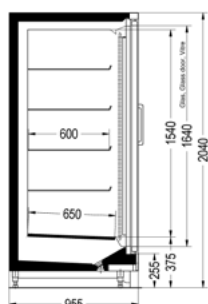


	Customer value	Velando AF
Prime Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/Serviceability	
	Floor space productivity	
	Cabinet aesthetics	

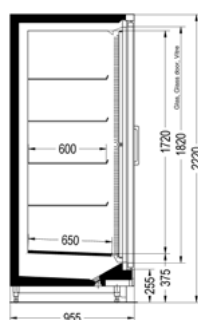
Velando	AF	5D	390	B8	L
Name of product line					
Glass door: AF = Anti-fog					
Number of doors: 5					
Cabinet length: ~ 3 900 mm					
Revision index: B					
Temperature range: 8 (-22/-24 °C)					
Cabinet height: L ~ 2 200 mm					

\*Cabinet design according to EN ISO 23953 at climate class 3

## Space optimizer



Velando AF.B8



Velando AF.B8L



Supermarket



Hypermarket

E6 Velando®	Unit	AF.B8 HEF	AF.B8
Internal height STD-height	mm	1540	1540
Internal height L-height	mm	1720	1720
Bottom shelf depth	mm	650	650
Shelf depth (min. / standard / max.)	mm	550 / 600 / 600	550 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 6	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 7	3 / 4 / 7
Load per module	kg / 79 cm	290 (320)*	290 (320)*
	2D-156	✓	✓
	3D-235	✓	✓
	4D-313	✓	✓
	5D-390	✓	✓
Temperature class L1 / Storage temp. -22/-24 °C		✓	✓
Energy label**		A B D	A B E

\* For cabinets with two endwalls | \*\* Label might change depending on configuration

# E6 Velando® QL AA CE

Prime Line

Energy efficient vertical freezer perfectly fitted for gondola set up

Narrow merchandiser/ Flexible merchandiser



## Benefits at a glance

- Energy efficient design
- Optimized for back-to-back set up
- High floor space productivity

## Standard configuration

- High Efficiency Frame (HEF)
- Anti-Fog All-glass (AA) doors with heated all-glass frame
- Ergonomic door handles
- Panorama endwalls
- Vertical LED lighting
- Wire shelves and bottom basket
- Cabinet front with bumper profile
- Single piece front kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Large selection of display baskets, wire shelves, bottom racks, wire dividers and pricing rails
- Plinth bumper for increased protection
- Bottom evaporator (CO<sub>2</sub>)



Perfectly fitted for a gondola set up with E6 Velando® to complete the cabinet line



The High Efficiency Frame with glass fiber-reinforced plastic significantly reduces the vertical freezers energy consumption



The slim doors of the 3D-191 version fits well in limited store space

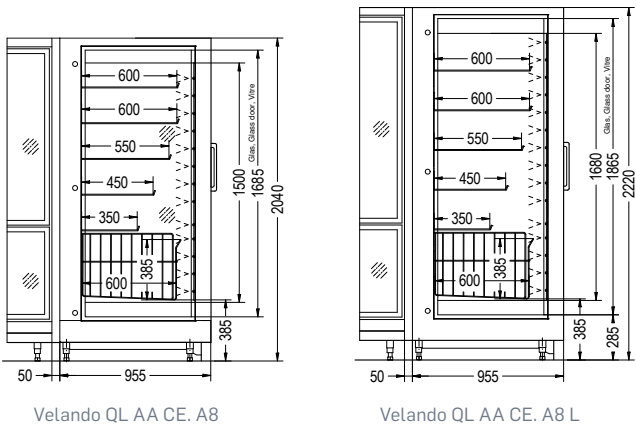
Technical data



Customer value		Velando QL AA CE				
Prime Line	Heavy product load					
	Energy efficiency					
	Streamlined operation					
	Product visibility					
	Installation/ Serviceability					
	Floor space productivity					
	Cabinet aesthetics					

Velando QL	AA	3D	CE235	A8	1
Name of product line					
Glass door: AA = Anti-fog, All-glass					
Number of doors: 3					
CE = Crown end version					
Cabinet length: ~ 2 350 mm					
Revision index: A					
Temperature range: 8 (Storage temp. -22/-24 °C)					
Cabinet height: L = ~ 2 220 mm					
*Cabinet design according to EN ISO 23953 at climate class 3					

Narrow merchandiser/ Flexible merchandiser



E6 Velando® QL CE	Unit	AA.A8 HEF
Internal height STD-height	mm	1540
Internal height L-height	mm	1720
Bottom shelf depth	mm	650 (600)*
Shelf depth (min. / standard / max.)	mm	350 / - / 600
Shelves STD-height (min. / standard / max.)	rows	4 / 5 / 6
Shelves L-height (min. / standard / max.)	rows	4 / 5 / 7
Load per module	kg / 79cm	260
Module length (doors) without endwalls (50mm each)	CE 3D-191	430 l**
	CE 3D-235	532 l**
Temperature class L1 / Storage temp. -22/-24 °C		✓
Energy label***		A t G E

\* Basket depth | \*\* Basket volume | \*\*\* Label might change depending on configuration

# E6 Velando® SG 63

Value Line

Basic vertical freezer with high standards for your sales

## Space optimizer



## Benefits at a glance

- Enhanced visibility of presented goods
- Large storage capacity
- Simplified maintenance

## Standard configuration

- Heated standard glass doors (SG)
- Ergonomic door handles
- Vertical LED lighting
- Two piece cabinet front with bumper profile
- Single piece front kickplate
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Panorama and non-glazed endwalls
- Horizontal LED lighting for canopy
- Large selection of display baskets, wire shelves, bottom racks, wire dividers and pricing rails
- Bulk section with telescopic basket
- Plinth front bumper and endwalls
- Bottom evaporator (CO<sub>2</sub>)



Wide range of accessories with wire shelves, display baskets and telescopic display baskets for easy loading



Slim brackets with 25 mm shelf spacing for an improved loading of products



The optional plinth bumper provides an increased cabinet protection

## Technical data

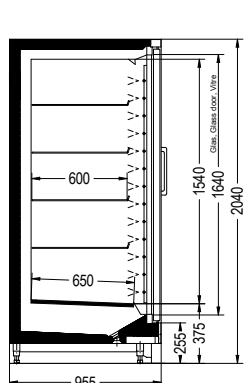


	Customer value	Velando SG 63
Value Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/Serviceability	
	Floor space productivity	
	Cabinet aesthetics	

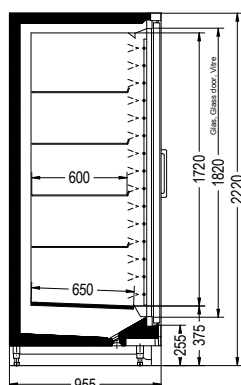
Velando	SG	63	390	L1	1	L
Name of product line						
Glass door: SG = Standard glass						
Bottom shelf depth: 6 ~ 600 mm						
Front height: 3 ~ 300 mm						
Cabinet length: ~ 3 900 mm						
Temperature class: L1*						
Revision index: 1						
Cabinet height: L= ~ 2 220 mm						

\*Cabinet design according to EN ISO 23953 at climate class 3

### Space optimizer



Velando SG 63.L1-1



Velando SG 63.L1-1L



Supermarket



Hypermarket

E6 Velando® SG	Unit	63.L1-1
Internal height STD-height	mm	1540
Internal height L-height	mm	1720
Bottom shelf depth	mm	650
Shelf depth (min. / standard / max.)	mm	550 / 600 / 600
Shelves STD-height (min. / standard / max.)	rows	3 / 4 / 6
Shelves L-height (min. / standard / max.)	rows	3 / 4 / 7
Load per module	kg / 79cm	290 (320)*
Module length (door) without endwalls (50mm each)	2D-156	✓
	3D-235	✓
	4D-313	✓
	5D-390	✓
Temperature class L1 / Storage temp. -22/-24 °C		✓
Energy label**		A++ G

\* For cabinets with two endwalls | \*\* Label might change depending on configuration

# E6 Color Concept Vertical Freezers

Plastic parts	
Deep Black (FA 9005)	
Anthracite (FA 7016)	
Grey (FA 0502)	
Stratus Grey (FA 0632)	
Cirrus Grey (FA 0631)	
Traffic Red (FA 0411)	

Grid & wire	
Deep Black (FA 9005)	
White Aluminium (FA 9006)	
Signal White (FA 0605)	

Exterior	Standard color	Optional colors
Canopy panel	Signal White	See Carrier Colors guide
Endwall		



Front	Standard color	Optional colors
Price rails	Signal White	Deep Black
Return air grille	Deep Black	See Carrier Colors Guide
Plinth bumper (not shown)	Stratus Grey	-
Decor front panel	Stratus Grey	Grey, Cirrus Grey, Traffic Red, Deep Black, Anthracite
Kickplate	Nimbus Grey	See Carrier Colors Guide



Interior	Standard color	Optional colors
Display shelves	Signal White	See Carrier Colors Guide
Air baffle plate		
Bottom deck		
Ceiling panelling	Stratus Grey	Signal White, Deep Black
Endwall (solid)		
Endwall (panorama)	Stratus Grey	-
Grid, Divider, Wire, Basket	Signal White	Deep Black, White Aluminium

## Door handle options

### Velando



White Aluminium/  
Stratus Grey

### Velando QL CE



Deep Black/  
Stratus Grey

## Door design options

### Velando



Aluminium or Black design

### Velando QL CE



Black or Aluminium All-glass  
door design

Doors	Standard color	Optional colors
Frame (Standard)	White Aluminium	-
Frame (HEF)	Black	-
Door (Frame)	Matt Silver/Telegrey	Black
Door (Frame) QL	Black	Matt Silver/Telegrey
Door handle (Holders/Tube)	Stratus Grey	-
Door handle (Holders/Tube) QL	Stratus Grey	Deep Black

# E6 Light & Glass Door Program

## Vertical Freezers

E6 Virando 63 with vertical & horizontal LED lighting



E6 Velando 53 with vertical & horizontal LED lighting



E6 Velando AF with vertical & horizontal LED lighting



Cool white  
5000 K/ 5600 K

Neutral white  
4000 K

PRODUCT LINE	E6 VIRANDO 63	E6 VELANDO 53	E6 VELANDO AF	E6 VELANDO AF (HEF)	E6 VELANDO QL AA CE	E6 VELANDO SG 63
LED TYPE						
VERTICAL/DOOR MULLION						
Premium LED						
5000 K	✓	✓	✓	✓	✓	✓
4000 K	-	-	-	✓	-	-
Exclusive LED						
5600 K	✓	✓	✓	-	-	✓
Smart LED						
4000 K	-	✓	✓	-	-	✓
HORIZONTAL/CANOPY						
Premium LED						
5000 K	✓	✓	✓	✓	✓	-

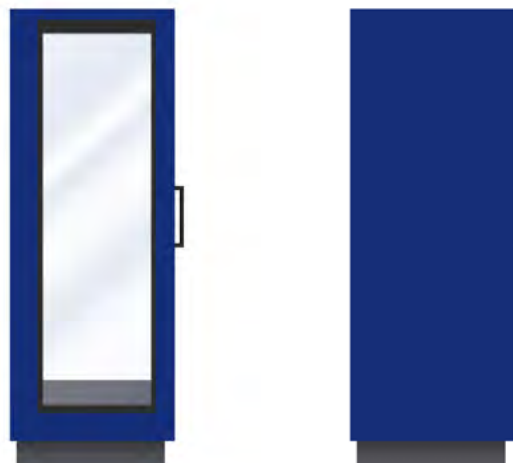
Vertical Freezer	Glass Door Type					
	Anti-Fog (AF)		Anti-Fog All-glass (AA)		Standard Glass (SG)	
	"Non-heated Passive Door"		"Heated Door (Frame Only)"		Heated Door	
	Aluminium Frame		All-glass Frame		Aluminium Frame	
	White-aluminium	Black	White-aluminium	Black	White-aluminium	Black
E6 Virando 63	-	-	-	✓	-	-
E6 Velando 53	✓	✓	-	-	-	-
E6 Velando AF	✓	✓	-	-	-	-
E6 Velando QL AA CE	-	-	✓	✓	-	-
E6 Velando SG 63	-	-	-	-	✓	✓
E6 Velando CS (remote)	-	-	-	-	✓	✓

# Endwalls E6 Vertical Freezers

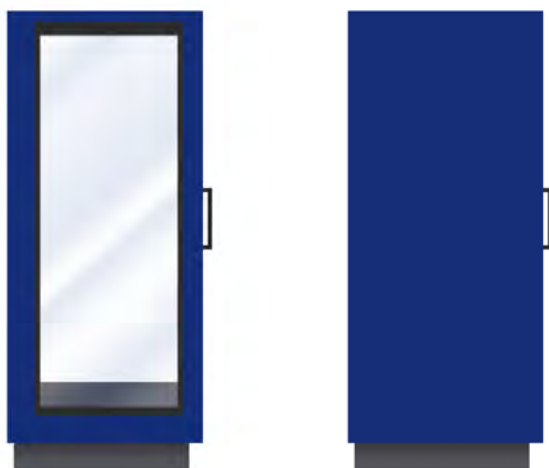
**E6 Virando 63**



**E6 Velando 53**



**E6 Velando AF / E6 Velando SG 63 / E6 Velando QL AA CE\***



\* Only with panorama endwall



**Concept study:**  
Vertical freezer and island multiplexed with part-glazed dividing wall

Vertical Freezer	Endwall Type		Dividing Wall Type	
	Panorama	Non-glazed	Non-glazed for	Part-glazed for
E6 Virando 63	✓	✓	-	-
E6 Velando 53	✓	✓	✓	-
E6 Velando AF	✓	✓	✓	✓*
E6 Velando QL AA CE	✓	-	-	-
E6 Velando CS (remote)	✓	✓	-	-
E6 Velando SG 63	✓	✓	✓	✓*

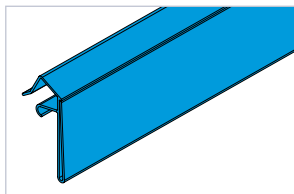
\* Multiplexing with Irios GL+

# Accessories E6 Vertical Freezers

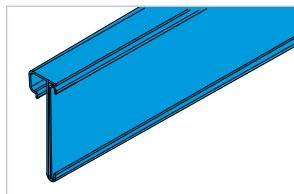
## Price Marking

Accessories	E6 Virando 63	E6 Velando 53	E6 Velando AF	E6 Velando QL AA CE	E6 Velando SG 63
<b>Scanner pricing rails at wire shelf</b>					
Scanner pricing rail, 38 mm, 1 door	•	•	•	•	•
Scanner pricing rail, 40 mm, 1 door	•	•	•	•	•
Scanner pricing rail, 52 mm, 1 door			•	•	•
Scanner pricing rail, 60 mm, 1 door	•	•	•	•	•
<b>Scanner pricing rails at bottom wire shelf</b>					
Scanner pricing rail, 38 mm, for bottom rack, 1 door	•	•	•		•
Scanner pricing rail, 40 mm, for bottom rack, 1 door				•	
Scanner pricing rail, 52 mm, for bottom rack, 1 door			•	•	•
Scanner pricing rail, 60 mm, for bottom rack, 1 door	•	•	•	•	•
<b>Pricing rail holders at wire shelf</b>					
Pricing rail holder, Form R, rack 1 door	•	•	•	•	•
<b>Price marking, others</b>					
Holder advertising			○		○
Pricing rail for electronic marking, Form F, end-to-end	•	•	•		•
Pricing rail for electronic marking, Form F, front-back			•	•	•
Pricing rail for electronic marking, Form F, basket	•	•	•		•
Pricing rail marking, Form K, bottom basket			•	•	•

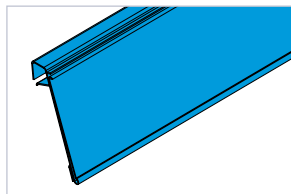
• Available    ○ Available except special dimensions



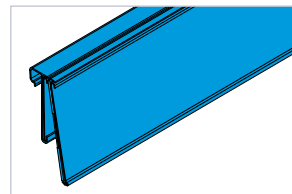
Scanner pricing rail, 38mm,  
1 door



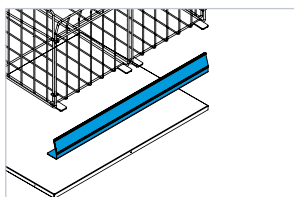
Scanner pricing rail, 40mm,  
1 door



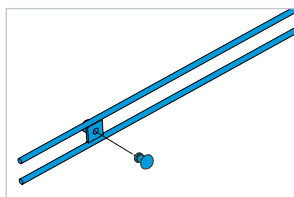
Scanner pricing rail, 52mm,  
1 door



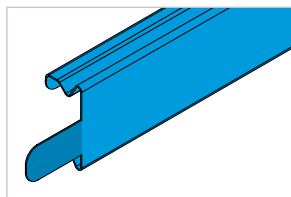
Scanner pricing rail, 60mm,  
1 door



Scanner pricing rail, 38, 40, 52,  
60mm, for bottom rack, 1 door



Holder for pricing tags for  
display shelf, Length 078

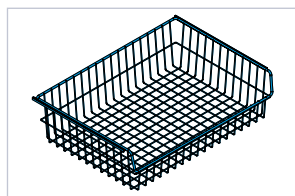


Pricing rail holder,  
form R, rack 1 door

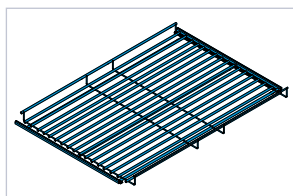
## Display Shelves

Accessories	E6 Virando 63	E6 Velando 53	E6 Velando AF	E6 Velando QL-AA CE	E6 Velando SG 63
<b>Display baskets</b>					
Display basket, depth 530 mm, height 200 mm, 1 door			●		●
Display basket	○	○	●	●	●
<b>Wire shelves</b>					
Wire shelf, rods end-to-end	●	●	●	●	●
Wire shelf, rods front-back	●	●	●	●	●

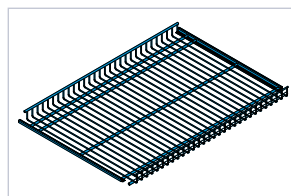
● Available    ○ Available except special dimensions



Display basket, depth 350,  
400, 450, 500, 530 mm



Wire shelf, rods end-to-end



Wire shelf, rods front-back

Appearance and measurement may slightly differ

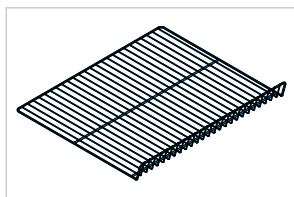
# Accessories E6 Vertical Freezers

## Tub Accessories

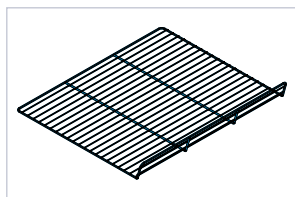
Accessories	E6 Virando 63	E6 Velando 53	E6 Velando AF	E6 Velando QL-AA CE	E6 Velando SG 63
<b>Bottom racks</b>					
Bottom rack rods front-back, with product stop, 1 door	•	•	•		•
Bottom rack rods end-to-end, with product stop, 1 door	•	•	•		•
Wire shelf, rods end-to-end, Length 63 (vertical)	•		•		•
Wire shelf, rods front-back, Length 63 (vertical)	•		•		•
<b>Bottom display baskets</b>					
Bottom display basket, 1 door	•	•	•		•
Bottom display basket, lower front, 1 door	•	•	•		•
Bottom display basket, telescopic	•		•	•	•
Bottom, goods basket (2 pcs.) per 1 door			•	•	•
<b>Wire dividers</b>					
Wire divider for endwall		•			•
Wire divider for bottom basket	•	•	•		
Wire divider for bottom basket low front	•	•	•		•
Wire divider for bottom deck, end-to-end	•	•	•		
Wire divider, front-back	•	•	•		•
Wire divider for telescopic, display basket				•	
Wire divider for goods basket				•	
Plexi divider for bottom deck			•	•	•

• Available

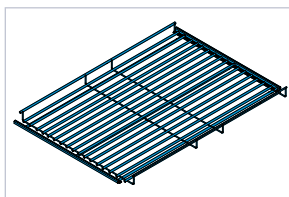




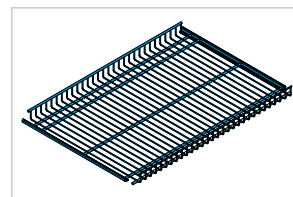
Bottom rack rods front-back,  
with product stop, 1 door



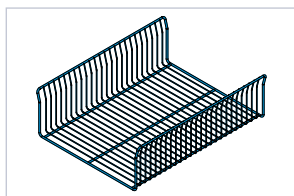
Bottom rack rods end-to-end,  
with product stop, 1 door



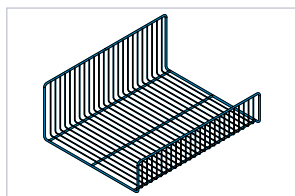
Wire shelf, rods end-to-end,  
Length 63 (vertical)



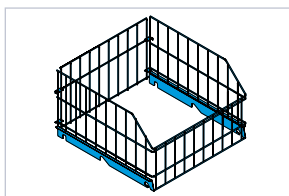
Wire shelf, rods front-back,  
Length 63 (vertical)



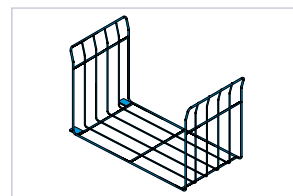
Bottom display basket,  
1 door



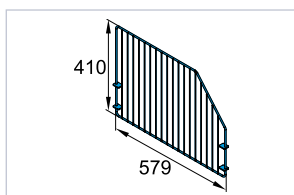
Bottom display basket,  
lower front, 1 door



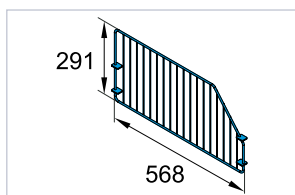
Bottom display basket,  
telescopic



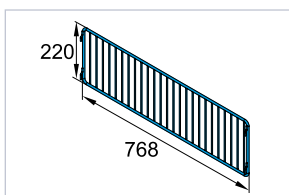
Bottom, goods basket  
(2 pcs.) per 1 door



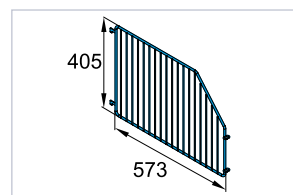
Wire divider for bottom  
basket



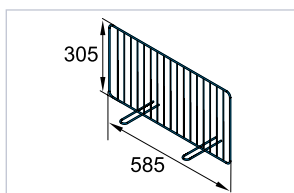
Wire divider for bottom  
basket in low front



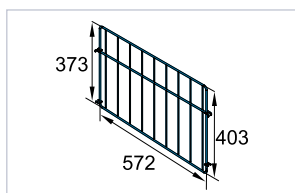
Wire divider for bottom  
deck, end-to-end



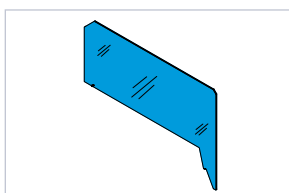
Wire divider, front-back



Wire divider for telescopic,  
display basket



Wire divider for goods  
basket



Plexi divider for bottom deck

Appearance and measurement may slightly differ



Wood optic cladding and exterior bumpers by local customization



Islands

# Product Overview Islands

## Freezer Islands

### Flexible merchandiser

Includes smart features

### Narrow merchandiser

Requests limited floor space to operate

### Space optimizer

Maximum floor space productivity

Prime Line



E6 Irios GL

Flexible merchandiser



Ivando SG4-GL+.C8



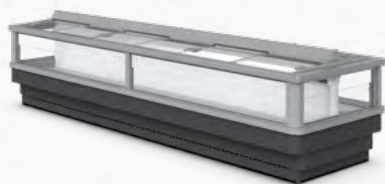
Irios SG4-GL+.C8

Value Line

Narrow merchandiser



Wisalo SG4-GL+.C8



AIB SG2/SG4-GL+.L1-1\*

Prime Line: Energy efficient design with a wide range of module lengths, options and accessories

Value Line: Focus on essential features with limited range of module lengths, options and accessories

## Chiller Islands

### Flexible merchandiser

Includes smart features

### Narrow merchandiser

Requests limited floor space to operate

### Space optimizer

Maximum floor space productivity



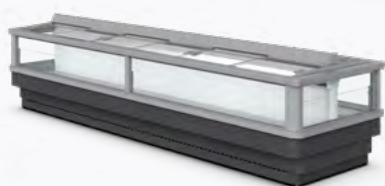
EasyGo.M2-1



Ivando SG4-GL+.C4



Irios SG4-GL+.C4



AIB SG2-GL+.M1-1\*

\*AIB SG2-GL+ with smaller glass front as illustrated

Flexible merchandiser

Narrow merchandiser

Islands

# E6 Irios® GL

Prime Line

Closed island – transparency on the next level



## Benefits at a glance

- Increased transparency for better product visibility from all sides
- Comfortable and ergonomic product access
- Modern square design & various customization options for individual style

## Standard configuration

- Glass lids available with Push-T, Push-3 or Sliding system
- Slim handrail located on lower level at only 89,5 cm height for better product access
- Exterior color in dark grey or light grey
- Fully glazed panorama endwalls
- Improved LED handrail lighting
- Integrated bumper
- Transparent handle
- Interior price rail near handrail

## Customization

- Transparent profiles for glass lids
- External bumper for increased protection
- Customizable claddings for example in wooden pattern
- Improved LED lighting for sidewalls and canopy (middle beam)
- Gable price rail with two or three partitions (40 mm or 52 mm)
- Square stainless-steel bumper for increased protection
- Removable 1,25 m transparent superstructure shelf with price rails for product load up to 60 kg/module



15% larger glass surfaces and improved LED lighting on handrails, middle beam and sidewalls for excellent product visibility



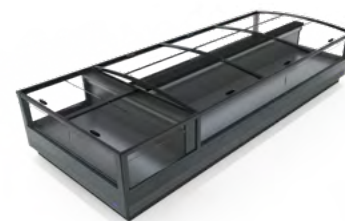
Easy to open, curved glass lids reducing light reflections and transparent profiles provide perfect transparency



Fully glazed panorama endwalls and sidewalls with optional cladding in wooden pattern and stainless steel bumpers

## Technical data

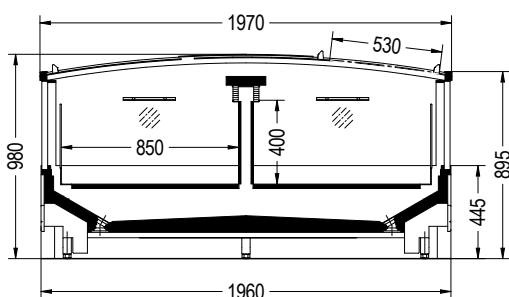
	Customer value	Irios GL
Prime Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/ Serviceability	
	Floor space productivity	
	Cabinet aesthetics	



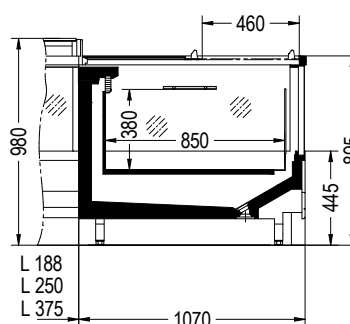
Irios	GL	375	L1	1
Name of product line				
Cabinet top: Glass lids				
Cabinet length: ~ 3 750 mm				
Temperature class: L1*				
Revision index: 1				

\*Cabinet design according to EN ISO 23953 at climate class 3

## Space optimizer



Irios GL



Irios GL CE



E6 Irios GL	Unit	188	250	375	CE183
Height	mm	980	980	980	895
Depth	mm	1970	1970	1970	1070
Length without endwalls (65 mm each)	mm	1875	2500	3750	1830
Useful volume	l	1280	1700	2550	590
Temperature class L1 / Storage temp. -22/-24 °C		✓	✓	✓	✓
Energy label*		A G E	A G E	A G E	A G E

\* Label might change depending on configuration

## Open chiller island – highlighting your special products

### Space optimizer



### Benefits at a glance

- Modern squared design with frameless 360° glazing
- Excellent display for pre-packaged products
- Enhanced product visibility with various cladding options

### Standard configuration

- Single front glass panel
- Panoramic endwall
- Paintable metal front panel for individual style
- Fully glazed panorama endwalls
- Energy-efficient EC fans
- Bottom evaporator (F-gas)

### Customization

- Wooden front panel
- Squared stainless steel bumpers on the fronts and sides, 20x20mm (polished or brushed)
- External bumper for increased protection
- Stainless steel interior
- Premium LED for canopy (middle beam)
- Plinth lighting with Premium LED for an attractive store atmosphere
- Bottom evaporator (CO<sub>2</sub>)



Cladding options available in wood or metal with or without stainless steel bumpers



Optional external lighting at the bottom of the island provides an inviting ambience in the store



Frameless front single glazing and panoramic endwalls ensure best product visibility

Technical data

Customer value		EasyGo			
Prime Line	Heavy product load				
	Energy efficiency				
	Streamlined operation				
	Product visibility				
	Installation/ Serviceability				
	Floor space productivity				
	Cabinet aesthetics				

EasyGo

375

M2

1

Name of product line

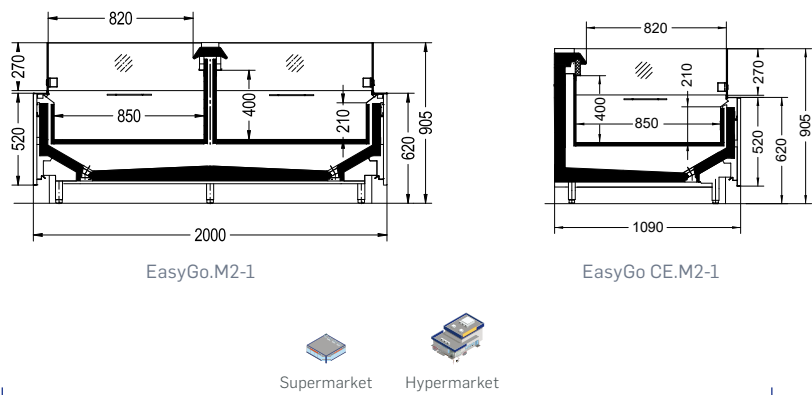
Cabinet length: ~ 3 750 mm

Temperature class: M2\*

Revision index: 1

\*Cabinet design according to EN ISO 23953 at climate class 3

Space optimizer



EasyGo	Unit	188	250	375	CE183
Height	mm	905	905	905	905
Depth	mm	2000	2000	2000	1090
Length without endwalls (90 mm each)	mm	1875	2500	3750	1830
Useful volume	l	1280	1700	2550	620
Temperature class M2 / Storage temp. 0/+2 °C		✓	✓	✓	✓
Energy label*		<div>A+G</div>	<div>A+G</div>	<div>A+G</div>	<div>A+G</div>

\* Label might change depending on configuration

# Irios® GL+

Value Line

## Closed freezer and chiller island with classic basic design

### Space optimizer



### Benefits at a glance

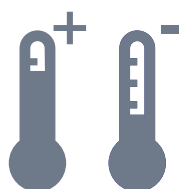
- Available as freezer and chiller cabinet
- Large product facing area
- Flexible layout
- Heavy product load

### Standard configuration

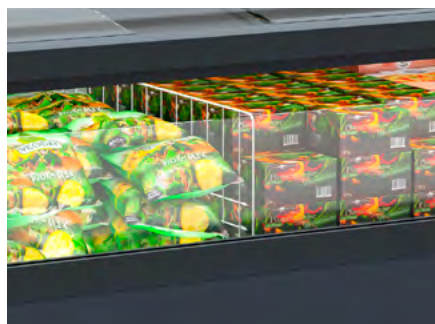
- Curved, frameless sliding glass lids for longitudinal cabinet
- Flat sliding glass lids for crown end
- Insulating front glass with 385 mm height
- White powder-coated internal fittings
- Superstructure for price rails with two partitions
- Single-piece kickplates
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

### Customization

- Push-2 or Push-3 glass lids
- Aluminium handrail
- LED lighting for handrail & front and back
- Island superstructures for optimized footprint productivity
- Large selection of wire shelves, covers, product divider and price rails
- Reinforced front bumper, endwall and dividing wall
- Plinth front bumper and endwall
- Bottom evaporator (CO<sub>2</sub>)



Irios GL+ is available in temperature class M2 and L1 to present normal or low temperature goods



The durable design is perfectly suitable for heavy product loads



Superstructures for price rails with 3 partitions and additional dry superstructure shelf to extend your sales per m<sup>2</sup>

## Technical data

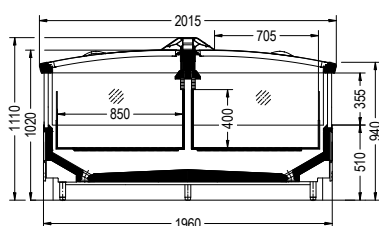


	Customer value	Irios GL+
Value Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/Serviceability	
	Floor space productivity	
	Cabinet aesthetics	

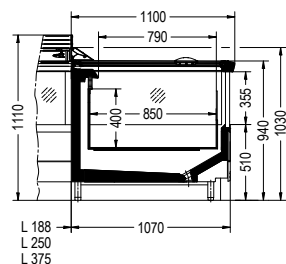
	Irios	SG4	GL+	375	C8
Name of product line					
Glass design: Standard glass					
Glass height: ~ 400 mm					
Cabinet top: Glass lids					
Cabinet length: ~ 3 750 mm					
Revision index: C					
Temperature range: 8 (storage temp. -22/-24 °C)					

\*Cabinet design according to EN ISO 23953 at climate class 3

## Space optimizer



Irios SG4-GL+.C4/8 e\*cube



Irios SG4-GL+.CE183 C4/8 e\*cube



Supermarket



Hypermarket

Irios GL+	Unit	188	250	375	CE183
Height	mm	1020	1020	1020	940
Depth	mm	1960	1960	1960	1070
Length without endwalls (65 mm each)	mm	1875	2500	3750	1830
Useful volume	l	1280	1700	2550	620
Temperature class M2 / Storage temp. 0/+2 °C 		✓	✓	✓	✓
Energy label* 					
Temperature class L1 / Storage temp. -22/-24 °C 		✓	✓	✓	✓
Energy label* 					

\* Label might change depending on configuration

# Ivando® GL+ & Wisalo® GL+

Value Line

**Closed island with dual compartment for high sales flexibility**

## Flexible merchandiser



## Benefits at a glance

- Ivando GL+ with dual compartments allows the use of two temperature ranges in one island
- Wisalo GL+ for an optimal freezer solution for wallside displays
- High cabinet flexibility

## Standard configuration

- Ivando GL+ with two separately refrigerated display compartments
- Ivando GL+ & Wisalo GL+ with curved, frameless sliding glass lids
- Flat sliding glass lids for Ivando GL+ crown end
- Insulating front glass with 385 mm height
- White powder-coated internal fittings
- Superstructure for price rails with two partitions
- Single-piece kickplates
- Energy efficient EC fans
- Bottom evaporator (F-gas)
- Multiplex kit

## Customization

- Push-2 or Push-3 glass lids
- Aluminium handrail
- LED lighting for handrail & front and back
- Large selection of wire shelves, covers, product divider and price rails
- Reinforced front bumper, endwall and dividing wall
- Plinth front bumper and endwall
- Bottom evaporator (CO<sub>2</sub>)



The two separately refrigerated display compartments permit joint presentation of normal and low temperature products in one cabinet



The classic island design with large-sized glass panels provides a clear view of the product variety even from long distances



The wallside display of Wisalo GL+ is the optimal supplement for the freezer solution in your market

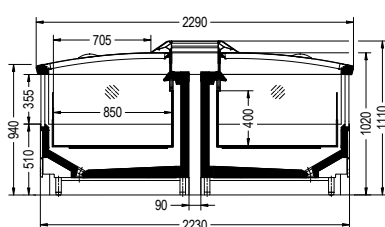
## Technical data

	Customer value	Ivando GL+
Value Line	Heavy product load	
	Energy efficiency	
	Streamlined operation	
	Product visibility	
	Installation/ Serviceability	
	Floor space productivity	
	Cabinet aesthetics	

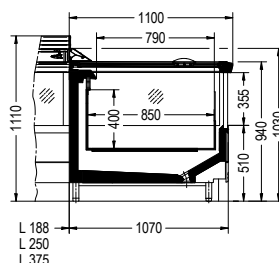


Ivando	SG4	GL+	250	C8
Name of product line				
Cabinet design: Standard glass				
Glass height ~ 400 mm				
Cabinet top: Glass lids				
Cabinet length: ~ 2 500 mm				
Revision index: C				
Temperature range: 8 (Storage temp. -22/-24 °C)				

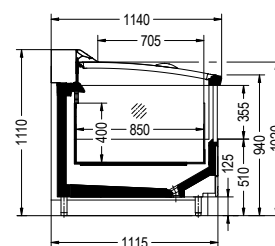
### Flexible merchandiser



Ivando SG4-GL+.C4/8 e\*cube



Ivando SG4-GL+.CE210 C4/8 e\*cube



Wisalo SG4-GL+.C8 e\*cube



### Narrow merchandiser

Ivando GL+ & Wisalo GL+	Unit	Ivando GL+				Wisalo GL+		
		188	250	375	CE210	188	250	375
Height	mm	1020	1020	1020	940	1020	1020	1020
Depth	mm	2230	2230	2230	1070	1115	1115	1115
Length without endwalls (65 mm each)	mm	1875	2500	3750	2100	1875	2500	3750
Useful volume	l	1280	1700	2550	725	640	850	1275
Temperature class M2 / Storage temp. 0/+2 °C 		✓	✓	✓	✓	-	-	-
Energy Label* 		A+ E	A+ E	A+ E	A+ D	-	-	-
Temperature class L1 / Storage temp. -22/-24 °C 		✓	✓	✓	✓	✓	✓	✓
Energy Label* 		A+ F	A+ F	A+ F	A+ F	A+ F	A+ F	A+ F

\* Label might change depending on configuration

# AIB GL+

Value Line

## Closed island with small footprint for narrow aisles

### Narrow merchandiser



### Benefits at a glance

- Narrow depth for small footprint and flexible use
- Available as frozen & chiller island
- Two different models with single or double compartment
- Classic reliable island design

### Standard configuration

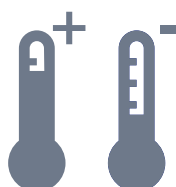
- Insulating front glass with 190 mm (SG2) or 380 mm (SG4) height
- Frameless sliding glass lids with safety glass
- White powder-coated internal fittings
- Superstructure for price rails with two partitions
- Integrated bumpers and single-piece kickplates
- Energy-efficient EC fans
- Bottom-evaporator (F-gas)
- Multiplex kit

### Customization

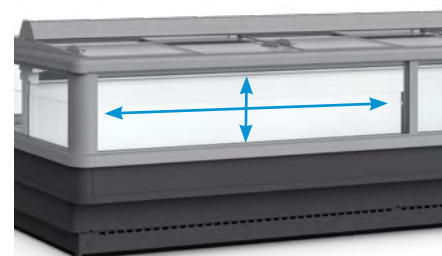
- Horizontal LED lighting for handrail
- Island superstructure for more non tempered display space (only AIB SG2-GL+)
- Large selection of wire shelves, wire dividers and price rails
- Bumper for endwall
- Bottom evaporator (CO<sub>2</sub>)



The narrow depth of only 1490 mm provides a small footprint and allows use in limited store spaces



AIB SG2-GL+ is available in temperature class M1 and L1 to present normal or low temperature goods



AIB SG4-GL+ comes with high and large glass panels for best product visibility

## Technical data

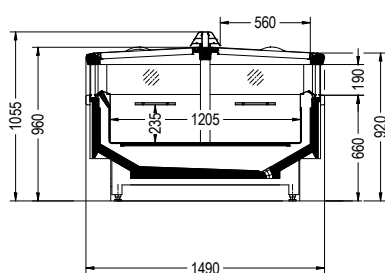


Customer value		AIB GL+	
Value Line	Heavy product load		
	Energy efficiency		
	Streamlined operation		
	Product visibility		
	Installation/ Serviceability		
	Floor space productivity		
	Cabinet aesthetics		

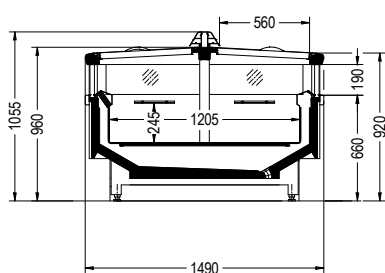
AIB	SG4	GL+	375	L1	1
Name of product line					
Cabinet design: Standard glass					
Glass height: ~ 400 mm					
Cabinet top: Glass lids					
Cabinet length: ~ 3 750 mm					
Temperature class: L1*					
Revision index: 1					

\*Cabinet design according to EN ISO 23953 at climate class 3

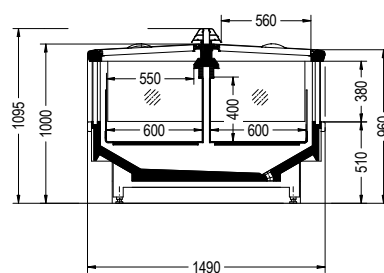
### Narrow merchandiser



AIB SG2-GL+.M1-1



AIB SG2-GL+.L1-1



AIB SG4-GL+.L1-1

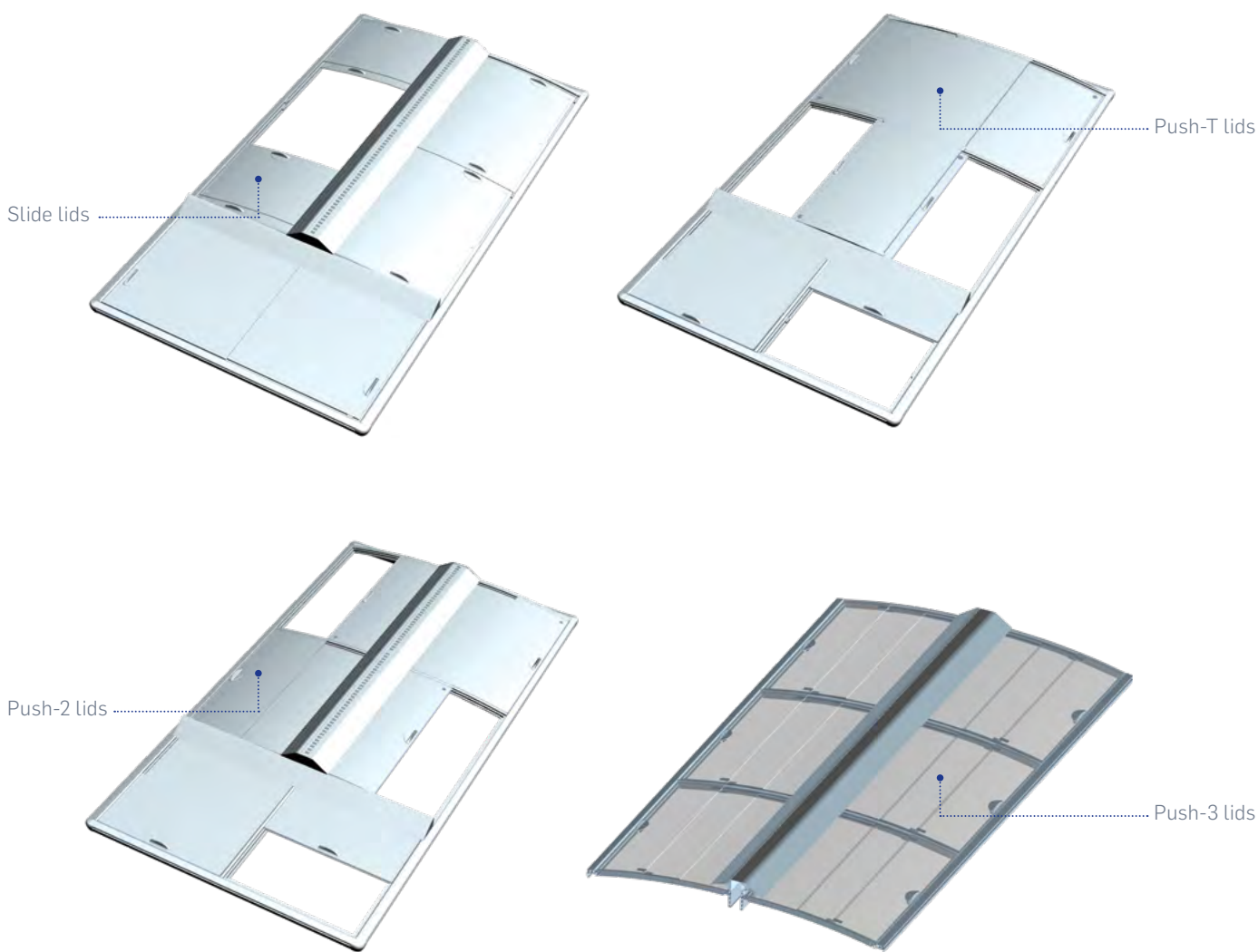


AIB GL+	Unit	SG2		SG4	
		250	375	250	375
Height	mm	960	960	1000	1000
Depth	mm	1490	1490	1490	1490
Length without endwalls (105 mm each)	mm	2500	3750	2500	3750
Useful volume	l	903* / 738**	1355* / 1107**	1200	1800
Temperature class M1 / Storage temp. -1/+1 °C 		✓	✓	-	-
Energy label*** 				-	-
Temperature class L1 / Storage temp. -22/-24 °C 		✓	✓	✓	✓
Energy label*** 					

\* At temperature class M1 | \*\* At temperature class L1 | \*\*\* Label might change depending on configuration

# Glass Lid Program

Combination examples for island installations with crown end units:

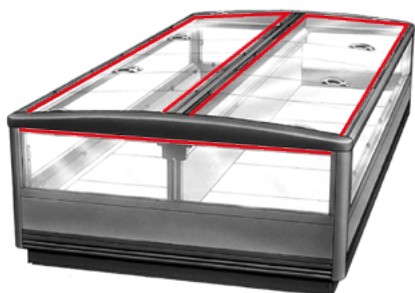


Overview of available glass lid types per cabinet family:

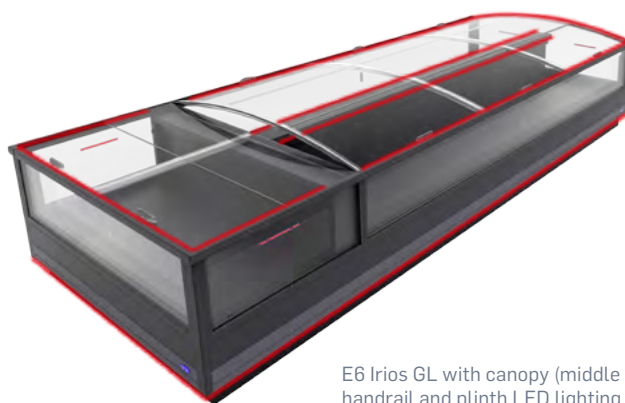
Islands	Lid shape	Glass Lid Type			
		Slide	Push-2	Push-3	Push-T
E6 Irios GL	curved	✓*	-	✓*	✓
E6 Irios GL CE	straight	✓*	-	✓	-
Irios GL+	curved	✓	✓	✓	✓
Irios GL+ CE	straight	✓	✓	✓	-
Ivando GL+	curved	✓	✓	✓	-
Ivando GL+ CE	straight	✓	✓	✓	-
Wisalo GL+	curved	✓	✓	✓	-
AIB GL+	curved	✓	-	-	✓*

\* In plan

# Light Program Islands



Irios GL+ with canopy (middle beam) & handrail LED lighting (Lighting front and back)



E6 Irios GL with canopy (middle beam), handrail and plinth LED lighting



AIB GL+ with handrail LED lighting for front and endwall



EasyGo with canopy (middle beam) & plinth LED lighting



PRODUCT LINE	E6 Irios	EasyGo	Irios GL+	Ivando GL+	Wisalo GL+	AIB GL+
LED TYPE						
HANDRAIL (FRONT AND ENDWALL)						
Premium LED						
5000/5700 K	✓	-	✓	✓	✓	✓
4000 K	✓	-	✓	✓	✓	✓
3000 K	✓	-	✓	✓	✓	✓
FRESH RED	✓	-	✓	✓	✓	✓
CANOPY & HANDRAIL (LIGHTING FRONT AND BACK)						
Premium LED						
5000/5700 K	✓	✓*	✓	✓	✓	-
4000 K	✓	✓*	✓	✓	✓	-
3000 K	✓	✓*	✓	✓	✓	-
FRESH RED	✓	✓*	✓	✓	✓	-
PLINTH						
Premium LED						
5000/5700 K	✓	✓	-	-	-	-
4000 K	✓	✓	-	-	-	-
3000 K	✓	✓	-	-	-	-
FRESH RED	✓	✓	-	-	-	-

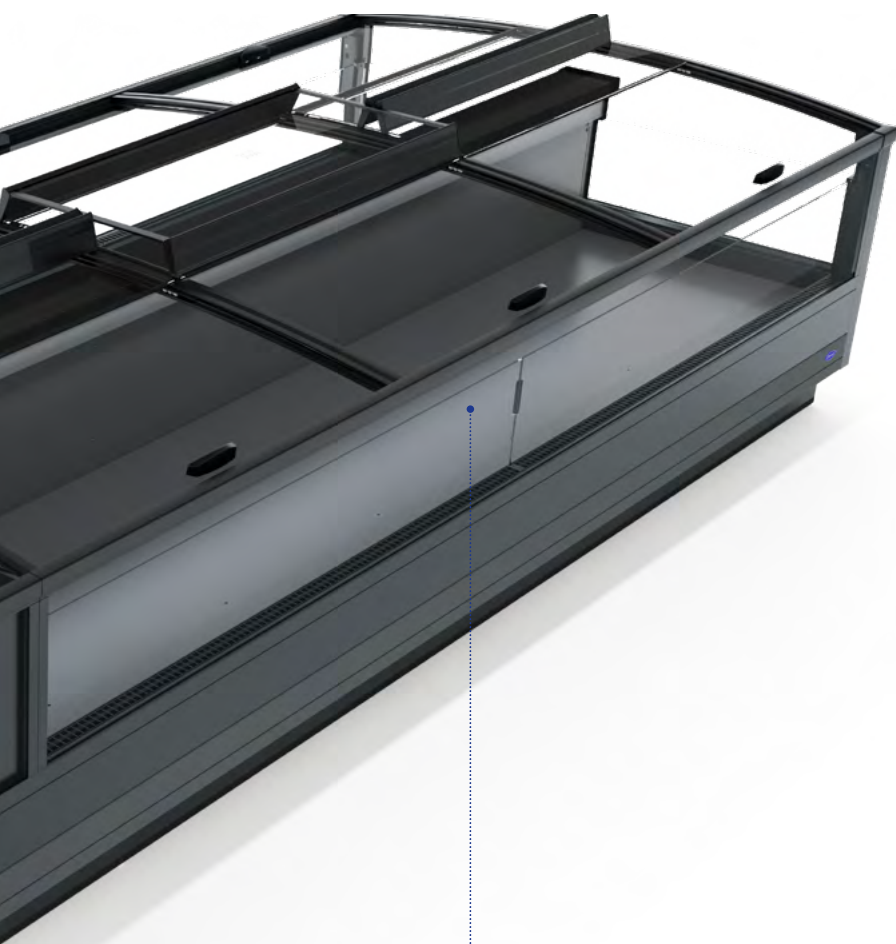
\* Canopy only

# Color Concept E6 Irios GL

Exterior (Cabinet Top)	Standard color	Optional color
Handrail Decor Profile	Anthracite	Window Grey
Handrail Decor Profile Corner (Crown End)	Anthracite	Window Grey
Horizontal Lids Running Profile	Anthracite	Window Grey
Lids Profile	Anthracite	Window Grey, Transparent
Lids Handle	Anthracite	Window Grey, Transparent
Price Rails	Anthracite	Window Grey



Exterior (Cabinet Front)	Standard color	Optional color
Corner Profile	Anthracite	Window Grey
Glass Trim Profile	Anthracite	Window Grey
Front Panel	Anthracite	See Carrier Colors Guide
Front Bumper	Stratus Grey	Anthracite, Cirrus Grey, Jet Black
Kickplate	Anthracite	See Carrier Colors Guide



Front panels with optional cladding in wooden pattern and stainless steel bumpers

Interior	Standard color	Optional color
Air Return Grid	Anthracite	See Carrier Colors Guide
Interior Plastic	Anthracite	Window Grey
Endwall / Backwall (Crown End)	Jet Black	Stratus Grey, Signal White
Grid, Wire Basket	Jet Black	White Aluminium, Signal White

# Color Concept Islands GL+

Exterior	Standard color	Optional colors
Handrail	Anthracite	Signal Grey
Endwall	White	See Carrier Colors Guide
Exterior		

## Plastic & aluminium parts (handrails)

Anthracite (FA 7016)	
Anthracite (Aluminium) (FA 7016)	
Signal Grey* (FA 7004)	

## Grid & wire

Deep Black (FA 9005)	
White Aluminium (FA 9006)	
White (FA 0117)	



Front	Standard color	Optional colors
Kickplate	Duran Grey	See Carrier Colors Guide
Color strip front	Herlit Grey	
Decor front panel	White	
Return air grille	Herlit Grey	
Moulded section for front	Duran Grey	White, Herlit Grey, Deep Black, Anthracite, Traffic Red, Grey

Interior	Standard color	Optional colors
Bottom deck		
Interior equipment	White	See Carrier Colors Guide
Air baffle plate		
Endwall	White	Herlit Grey, Deep Black, Grey
Grid, Wire, Basket	White	Deep Black, White Aluminium



Standard handle  
for all glass lid options



Handle color: Anthracite

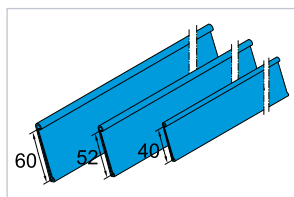
# Island Accessories

## Price Marking

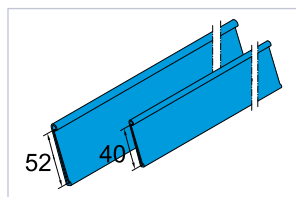
Accessories	E6 Irios GL	E6 Irios GL CE	EasyGo	EasyGo CE	Irios GL+	Irios GL+ CE	Ivando GL+	Ivando GL+ CE	Wisalo GL+	AIB SG2-GL+	AIB SG4-GL+
Scanner pricing rails											
Scanner pricing rail, 40 mm	•	•	•	•	•	•	•	•	•	•	•
Scanner pricing rail, 40 mm (handrail lighting)	•	•									
Scanner pricing rail, 52 mm	•	•	•	•	•	•					
Scanner pricing rail, 52 mm (handrail lighting)					•	•					
Scanner pricing rail, 60 mm	•	•	•		•	•	•	•	•	•	•
Pricing rail holders											
Pricing rail for electronic marking, Form F			•	•							
Superstructures for scanner pricing rails											
Superstructure for pricing rail 2 partitions	•	•			•		•		•	•	•
Superstructure for pricing rail 3 partitions	•	•			•	•	•	•	•	•	•
Superstructure for pricing rail 2 partitions M					•		•		•	•	•
Superstructure for pricing rail 3 partitions M					•	•	•	•	•	•	•
Superstructure for pricing rail 2 partitions with holders for signage	•	•									
Superstructure for pricing rail 3 partitions with holders for signage	•	•									

• Available

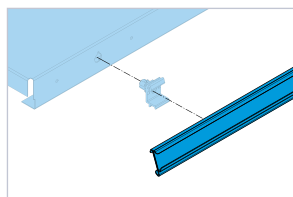




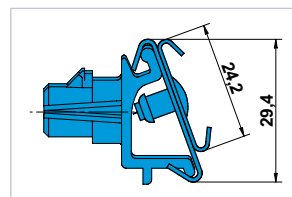
Scanner pricing rail, 40, 52, 60 mm



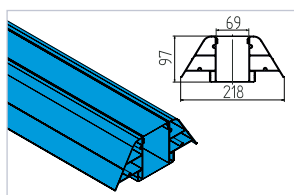
Scanner pricing rail, 40, 52 mm (handrail lighting)



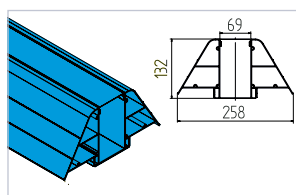
Pricing rail for electronic marking, Form F (ESL), Fig. 1



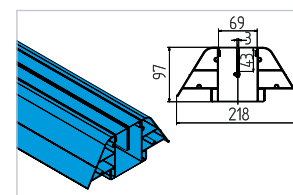
Pricing rail for electronic marking, Form F (ESL), Fig. 2



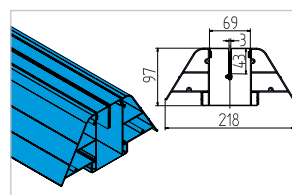
Superstructure for pricing rail 2 partitions\*



Superstructure for pricing rail 3 partitions\*



Superstructure for pricing rail 2 partitions M\*



Superstructure for pricing rail 3 partitions M\*

Appearance and measurement may slightly differ  
\*Illustration example for Push-T lids

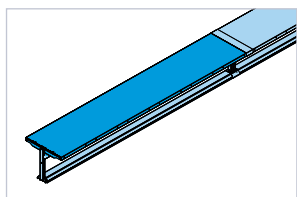


# Island Accessories

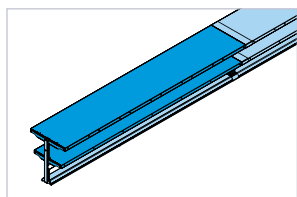
## Island/Centre Superstructures

Accessories	Irios GL+	Irios GL+ CE	Ivando GL+	Ivando GL+ CE	Wisalo GL+	AIB SG2-GL+	AIB SG4-GL+
Island superstructures, 1-tier							
Island superstructure, 1280/700	•						
Island superstructure, 1-tier, 1380/550						•	
Island superstructure, 1-tier, 1400/700	•						
Island superstructure, 1-tier, 1600/550						•	
Island superstructures, 2-tier							
Island superstructure, 2-tier, 1600/550/350						•	
Island superstructure, 2-tier, 1600/700/550	•						
Superstructure lighting, 1-row above, Premium LED	•					•	
Superstructure lighting, 1-row bottom, Premium LED						•	
Panels for island/centre superstructures							
End trim for island superstructure, 1-tier, right/left	•					•	
End trim for island superstructure, 2-tier, right/left	•					•	
Price marking							
Scanner pricing rail, 40 mm, island superstructure	•	•	•	•	•	•	•
Scanner pricing rail, 52 mm, island superstructure	•	•	•	•	•	•	•
Scanner pricing rail, 60 mm, island superstructure	•	•	•	•	•	•	•

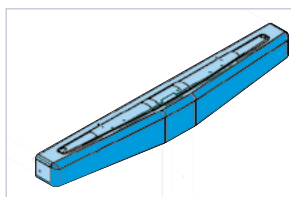
• Available



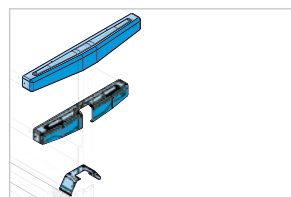
Island superstructure, 1-tier



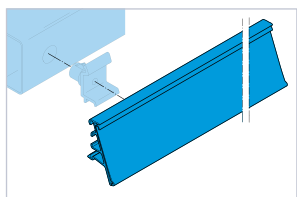
Island superstructure, 2-tier



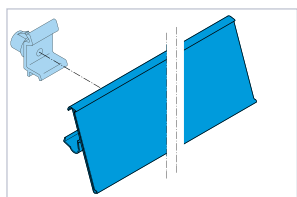
End trim for island superstructure,  
1-tier, right/left



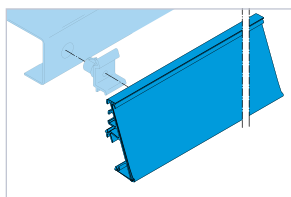
End trim for island superstructure,  
2-tier, right/left



Scanner pricing rail, 40 mm,  
island superstructure



Scanner pricing rail, 52 mm,  
island superstructure



Scanner pricing rail, 60 mm,  
island superstructure

Appearance and measurement may slightly differ



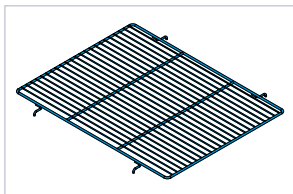
Wooden cladding by local customization

# Island Accessories

## Tub Accessories

Accessories	E6 Irios GL	E6 Irios GL CE	EasyGo	EasyGo CE	Irios GL+	Irios GL+ CE	Ivando GL+	Ivando GL+ CE	Wisalo GL+	AIB SG2-GL+	AIB SG4-GL+
Bottom rack											
Wire shelf, rods front-back, Length 63	•	•	•		•	•	•	•	•		•
Wire shelves											
Wire shelf, rods end-to-end, Length 63			•	•						◦	
Wire shelf, rods front-back, Length 72							•				
Wire shelf, 1/2 depth, height-adjustable, rods front-back										•	•
Wire dividers											
Product divider for single-serving packages, Length 205 mm	•	•	•	•	•	•	•	•	•		
Wire divider for endwall	•	•	•	•	•	•	•	•	•	•	•
Wire divider, end-to-end, 1250 mm										•	
Wire divider, front-back	•	•	•	•	•	•	•	•	•	•	•
Ice cream divider (vertical)					•	•	•	•	•	•	•
Ice cream divider (horizontal)					•	•	•	•	•	•	•
Basket for ice cream	•	•			•	•	•	•	•	•	•
Ice cream divider	•	•			•	•	•	•	•	•	•

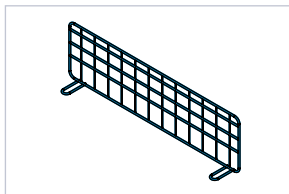
• Available    ◦ Available except special dimensions



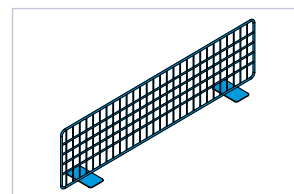
Wire shelf, rods front-back /  
1/2 depth height-adjustable



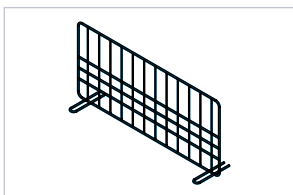
Product divider for single-  
serving packages,  
Length 205 mm



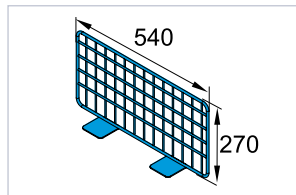
Wire divider for endwall



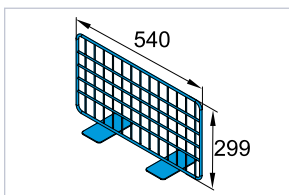
Wire divider, end-to-end,  
1250 mm



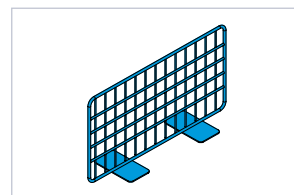
Wire divider, front-back



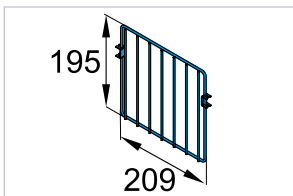
Wire divider, endwall, 1/2 depth



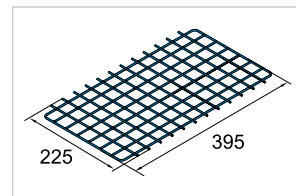
Wire divider, front-back,  
1/2 depth



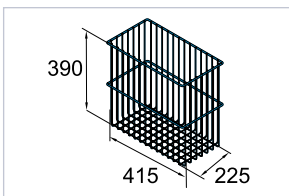
Wire divider, end-to-end,  
625 mm



Ice cream divider (vertical)



Ice cream divider (horizontal)



Basket for ice cream



Ice cream divider

\* Appearance and measurement may slightly differ



Plinth bumper at bottom by local customization

# Powder Paint Selection Guide

When it comes to customization, Carrier offers a wide range of possibilities in the design of each product – from the front aesthetic to the endwalls and pedestals. These are available in a variety of designs, material finishings and colors. Through the creative use of colors, you can illustrate an inviting and pleasant atmosphere that evokes positive emotions. Shades of reds can express passion, enthusiasm, and energy; whereas blue and green express nature and freshness.

## Essential colors

Benefit from a nice design at the best price level



## Smart colors

Make the cabinet your style at the best value for money



## Exclusive colors

Differentiate your market and customize your cabinet in a wide range of colors. Contact your local sales representative for more information.

# A wide spectrum of colors and shades to set your store's ambiance await you...

## The natural way



## A promotion world



## The premium retailer



# Excellence in tests and qualification of cabinets

Outstanding technology based on 60 years development experience

With around twenty testing rooms, Carrier is one of the best-equipped manufacturers in Europe. Most testing rooms are equipped, according to the ISO 23953 standard (refrigerated display cabinets classification, requirement and test conditions), to ensure comparable and good product performance. Besides fulfilling ISO 23953 requirements, Carrier has its own internal tests, standards and requirements that each cabinet has to pass before going to market. This ensures the right quality and is reflected in robust, reliable products to maximize the lifetime of each refrigerated display cabinets.

## Measuring temperature performance

Carrier declares the temperature performance of the cabinet, according to the ISO 23953 standard, which defines the refrigerated cabinet requirements and test conditions.

### ISO 23953 - Refrigerated display cabinets classification, requirement and test conditions

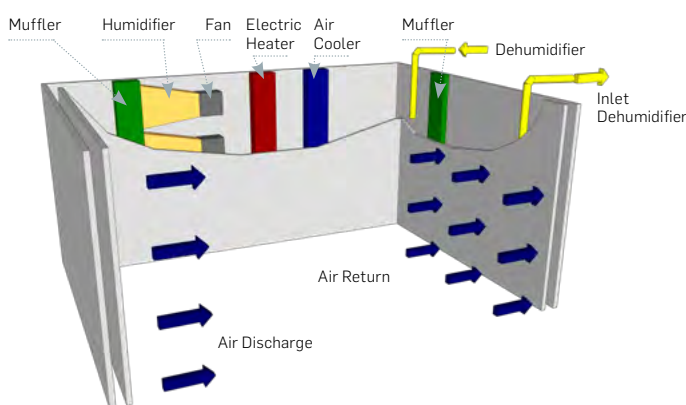
The refrigerated display cabinets are classified according to the standard ISO 23953. This standard defines the classification, requirement and test conditions for representative refrigerated display cabinets including: the minimum size of the test room, side air-flow, light intensity, temperature and humidification control, calibrated measurements, etc.

Thanks to ISO 23953, customers can compare temperature classification according to the same testing procedure for all manufacturers in Europe who strictly follow the standard.

### Climate room requirements and setup

ISO 23953 defines exactly the requirements and tolerances of a climate room including:

- Size of the room
- Side airflow speed and direction relative to the cabinet
- Calibration of the measurement equipment
- Where to place the cabinet in the climate room
- Color of room and light intensity



Example of Carrier testing room. The above picture illustrates how a climate room for testing the refrigeration equipment looks like.

### Climate class – describes the environment outside of the cabinet

Of the several climate classes available under the standard, commercial refrigeration usually performs class 3 to measure and declare the temperature performance.

Example: "climate class 3"  
Temperature: 25 °C  
Rel. humidity: 60 %

### Temperature class – describes the temperature performance inside the cabinet

The temperature performance is tested in a cabinet with product-simulation models which are called M-package. The M-package simulates thermal characteristic of meat products.

Cabinet temperature performance means:

- How well the cabinet holds the temperature of a chilled or frozen product – simulation models at lab climate conditions
- How small the cabinet storage temperature deviation of product is – simulation models at lab climate conditions
- Temperature performance is tested by simulating different operation use cases: shop closed (light off, night curtain down, no door opening) shop open and commissioning of cabinet (doors / lids long open) shop open consumer take products (regular door / lid opening)

There are three main temperature class groups: Low, Medium and High temperature. These main groups are split in different temperature classes indicated by a number following the group letter: Example M2. The higher the number the higher the difference between the lowest M-package temperature and highest M-package temperature.

Example: "Temperature Class M2"  
(Medium temperature class 2)  
Warmest M-package: max. +7 °C  
Coldest M-package: min. -1 °C

### Link between climate class and temperature class

Because the temperature inside a cabinet is strongly influenced by the environment's temperature and humidity, the temperature class is only a meaningful declaration if it is linked to a climate class. For this reason, a full cabinet declaration always consists out of climate class and temperature class.

Example "3M2" (At climate class 3, the cabinet reaches temperature performance M2)  
3= climate class (certain ambient test condition during testing)  
M2= Temperature class (specified highest and lowest M-package temperature)

## Laboratory vs. operation in real store environment

According to the ISO 23953-2 standard Appendix B, there are significantly different operation conditions between lab and store operation, especially for remote cabinets. The following section describes and explains the difference to the application in the field.

### Difference between laboratory and store data for remote cabinets

The conditions of a remote cabinet in the store differ very much from the lab conditions. Usually the cabinets in a store are multiplexed, located against a wall and the ambient conditions are lower. Using direct lab data for remote cabinets would lead to an oversizing of piping and compressor racks. Based on this, Carrier provides E6 remote cabinets in the technical data sheets rack sizing data for the standard configuration at store condition 25°C / 60% rel. H. and 22°C / 55% rel. h. This data is available and optimized for each investment and life cycle.

Based on Carrier's leading expertise in refrigerant system design, our general recommendation is:

- Rack design data 25/60 application:  
Stores in warm climates, stores with difficult climate situations, cabinet in a non-ideal place (high humidity, high temperature, close to a door etc...)
- Rack design data 22/55 application:  
Store in middle and north Europe, stores with moderate climate (with air conditions, multiplexing remote cabinets)

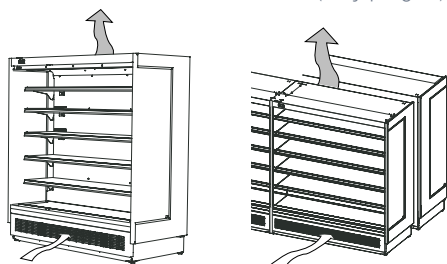
### Technical data for plug-in cabinets

To have comparable energy consumption within the Carrier range, we specify the energy consumption for the standard configuration of plug-in cabinets according to ISO 23953 and climate class 3 conditions. This makes the data comparable; however, the real energy consumption in a store is usually lower.

### Influence of the cabinet installation on the performance

The installation can have major effects on the energy and temperature performance. There are some requirements, which need to be kept to ensure that the cabinets are working properly.

- Do not install the cabinet outside or next to heating radiators or other heat sources
- Keep a distance from the wall as indicated in the operating manual
- Avoid direct sunlight radiation impact
- Keep free the air intake and outlet area (only plug-in)



Example of a plug-in cabinet which needs free air flow on front and top of cabinet.

## Carrier internal testing

To ensure a long life-time and proper operation, Carrier has defined internal standards for robustness and stress tests of cabinets as well as components.

### Static robustness test

To test the cabinet and shelf strength, all shelves are loaded with a certain weight for several days. The deflection of brackets and shelves is checked under load and after unloading the cabinet. Only if the cabinet deflection and deformation stays within the small tolerances defined by the Carrier quality department, the cabinet will be released to the market. With high requirements on cabinet stability and strength, Carrier ensures a high-quality product that is safe and stable for years of operation.

### Dynamic testing of doors and lids

The door opening test makes it possible to simulate several years of usage that our doors, hinges, and handles are likely to experience within just a few weeks. During the test, the system is continuously monitored and checked in terms of abrasion, break / damage and deformation. The system will only pass the internal qualification if it can resist several simulated years in the tough life of a supermarket.

For double glass doors, Carrier requires additional tests to ensure that the sealing works properly and the doors do not get condensation between the glasses after some years.

### Packaging and shipping test

Before each serial launch, Carrier conducts a special packaging and transportation test. This happens with one or several cabinets in a truck going on a defined road with various road conditions. After the transport, the cabinet and the packaging are checked visually. This ensures that the cabinets will arrive to our customers in the same condition as they were packaged in the factory.

## CE (Conformité Européenne) certification

The Carrier cabinets are compliant with the relevant standards or parts of the standards as confirmed with the CE declaration of conformity:

- ISO 23953-1 (Refrigerated display cabinets, general)
- ISO 23953-2 (Refrigerated display cabinets, requirement)
- EN 60335-1 (Household and similar electrical appliances. Safety. General requirements)
- EN 60335-2-89 (safety requirement for household and similar electrical appliances, particularly for commercial refrigerating appliances)

To ensure maximum safety, all plug-in cabinets with flammable refrigerant are additionally CE certified by an independent body.

## Factory certifications

All Carrier cabinet factories have a certified quality management and environmental management systems

- EN ISO 9001 (General quality management system)
- EN ISO 14001 (Environmental management systems)

# Plug-in & remote cabinets in comparison

We can split the refrigerated display cabinets into two types. Remote cabinets have a common central condensing system which supplies several units with the refrigerant. The cabinets have a fixed location and are connected with pipes and wires to the central compressor rack and controller unit. Plug-in cabinets work like a household fridge and have the compressor, condenser and controller unit built into the cabinet itself; they only need a power supply. Both systems come with several advantages and trade-offs.

## Plug-in system

### Advantages:

- No piping / installation needed
- No machinery room
- Very flexible layout changes

### Trade-offs:

- Head rejection in store (bigger air condition needed)
- Less space inside the cabinet
- Regular cleaning of condenser
- Higher energy consumption



Plug-in cabinet with characteristic machine compartment, which includes compressor, drip water evaporation and condenser.

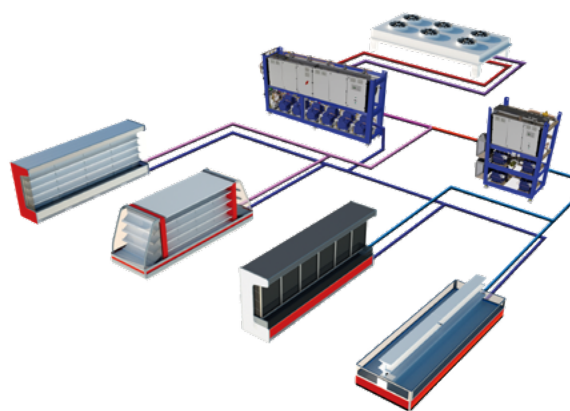
## Remote system

### Advantages:

- Lower system energy consumption
- Low-noise
- Large usable volume for products
- Wide range of multiplexing options
- Open Cabinet de-humidify store climate

### Trade-offs:

- Installation needed
- Fixed installation, not flexible



Remote cabinets connected to the central rack with the gas cooler

# Carrier's small store program

Carrier has developed a program that offers solutions for the specific conditions and requirements of small store formats. The chillers and freezer display cabinets in Carrier's small store program provide optimal presentation of food in limited retail space – small dimensioned and in homogeneous design.

A variety of lengths allow for the ideal adaptation of the cabinets to any given store dimensions (such as wall lengths). The combination of remote and plug-in solutions are well suited to the small store concept with building restrictions and are flexible enough to accommodate changes or enlargement of the refrigerated or frozen food range. Carrier's small store program has been designed with forthcoming environmental legislation in mind – both the remote as well as the plug-in cabinets can be operated with natural refrigerants.

**Remote and plug-in**  
(Mendos® XU & Velando® CS)



**Pure plug-in**  
(Optimizer® L & Velando® CS)



**Pure remote**  
(Mendos® XU & Velando® CS)





Irios GL+ with E6 Velando AF.  
corner bumpers by local costumization



E6 Monaxis

OBST + GEMÜSE



E6 Mirado and E& Mirado GS



WURST

FLEISCH

SB-Wurst

FISCH

Irios GL+ with E6 Mirado GS, E6 Monaxis  
and Danaos Easy Opening counter



E6 Methos GD. Inox bumpers  
by local customization



Ivando GL+



E6 Methos GD with E6 Methos  
as crown end. Inox bumpers by  
local customization



Irios GL+ with E6 Velando® 53.  
Inox bumpers by local customization

# Complete & Sustainable Refrigeration Solutions for Food Retailers

## Project Planning

- Display cabinets to maximize merchandising opportunities
- Energy and environmental impact consulting and analysis
- Optimal refrigeration technology solutions for each store type
- Complete project design and documentation



## Product Development & Manufacturing

- Next-generation display cabinets to help increase sales
- Advanced refrigeration technology and integrated systems
- Energy-efficient solutions for the system lifecycle
- Sustainable natural refrigerant technologies



## Lifecycle Care

- Preventative maintenance program
- 24/7 call center and service assistance
- Remote monitoring to ensure optimized performance
- System modernization for improved efficiency

## Installation

- Approach tailored to unique customer requirements
- Experienced teams with standard work processes
- A focus on quality throughout the process
- Limited on-site time for minimal business disruption



Carrier Commercial Refrigeration is a leading supplier of high-efficiency turnkey refrigeration systems and services in the food retail industry.

[www.carrier-refrigeration.com](http://www.carrier-refrigeration.com) | [www.carrier.com](http://www.carrier.com)

