

American Locker i-Cool lockers

Data Sheet



i-Cool lockers

Our Click and Collect i-Cool lockers are locker banks used for the handover of foodstuffs and temperature-sensitive goods to the end customer.

Click and Collect locker banks with chilled or temperature-controlled lockers can operate at logistics providers, supermarkets, butchers, shopping centres, pharmacies and online traders, but also at industrial firms and service companies, for delivery and collection of temperature-sensitive products and goods.

A i-Cool locker bank consists of at least one module and a user station, to which further individual modules, also with different temperature ranges, can be connected. We offer modules with a variety of locker sizes and combinations. There are altogether 6 different column types to choose from.

Because each module has its own temperature controller, the i-Cool locker bank can be configured to offer various temperature ranges. A i-Cool locker system is therefore suitable for the handover of chilled or frozen foodstuffs, as well as goods that don't need to be chilled.

Primarily, the chilled modules are manufactured for the foodstuffs industry and use the following temperature ranges:

Freezer - 21 to - 15 C (**6 to 59 F**)
Chilled 3 to 10 C (**37.5 to 50 F**)

Ambient locker modules are available which are visually identical. They can be temperature-controlled or not, or be heated:

Non-temperature controlled Ambient temperature.
Frost protection Temperature does not drop below 0 C (**32 F**).
Heated Temperatur range 5 to 45 C (**41 F to 113 F**).

i-Cool lockers

Modules

The i-Cool locker modules are entirely manufactured from high strength, insulated laminated panels. The double-walled doors are made of 3 mm thick aluminium profiles and are equipped with magnetic seals. Each module has an adjustable, stainless steel plinth.

A module consists of two columns of lockers. The doors have integrated hinges and have an anti-tamper design on the hinge side. Each door opens from the centre of the module.

The door locks are electro-mechanical, and are controlled by the electronics. A colored LED in the central lock cover panel between the doors indicates when and which door is to be opened.

Every module has its own cooling unit – providing the following benefits:

- ◆ Modules with different temperature ranges can be combined
- ◆ Additional modules can be installed at any time
- ◆ The locker bank configuration can be changed
- ◆ Individual modules –when not required– can be switched off
- ◆ Refrigeration specialists are not required at site during installation
- ◆ Cooling units can be easily replaced

The doors of each module have emergency opening, which can only be activated by the Operator. This guarantees that all the doors can be opened if there is a problem, without damaging the locker bank.

The locker housing is supplied in a grey shade (similar to RAL 7037) which is scratch– and abrasion-resistant. The locker doors and top cover panels for the cooling units are powder-coated.

Options:

- ◆ Different RAL shade for the locker doors and top cover panels
- ◆ Temperature indicator in the top cover panel
- ◆ Additional lighting in the top cover panel to support retail signage (recommended for larger systems)

i-Cool lockers

Outdoor Installation

If the locker banks are to be installed outdoors, a number of criteria should be observed:

Direct sunlight onto the locker bank should be kept to a minimum.

The locker bank should have a generous canopy or roof and also offer lateral wind protection.

Customers using the lockers do not want to stand in the rain when collecting their goods. Even items being delivered should not get wet!

Water should not ingress into the locker itself when the door is opened – this is especially important for freezer lockers, where it can lead to problems.

Ideally, the locker bank should be located in a type of “conservatory” or similar, which is hermetically protected from rain.

It is important to clean the locker bank regularly. Moss will form, and leaves and dirt will collect quickly on the locker bank and doors. Customers will only accept a clean, hygienic locker bank.

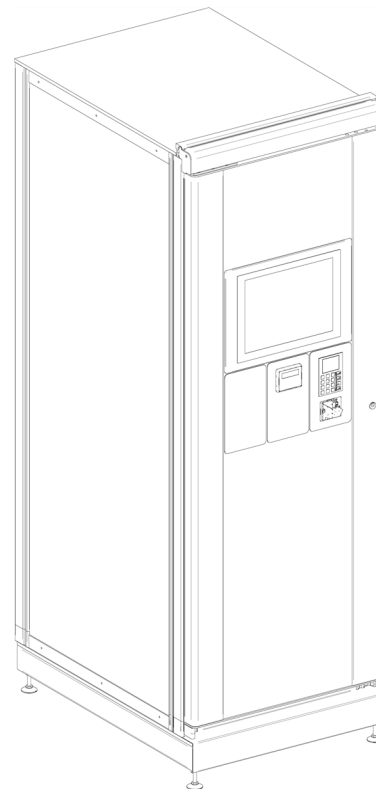
We can also supply complete roofing solutions for locker banks.

Climatic and temperature conditions at the locker location are crucial to the design of the cooling technology.

Please bear in mind that if e.g. outside temperatures are minus 20 degrees Celsius over an extended period, at some point the internal temperature of a locker (plus 3 - plus 10 degrees C) will drop to minus. Systems like this need suitable additional heating, so that the goods don't freeze.

If locker banks are to be installed outdoors or in other climatic zones, different cooling units may be needed – please check with us.

User Station



The locker bank's electronic controls are integrated into the user station.
 The network connections are also located here.

The housing is made of high strength laminate panels – the door is made from 3 mm thick aluminium profile and equipped with a mechanical lock.

Its external appearance is that of a half module.

The user station has space for the operator's mains connection and electric meter or for alarm connections and fuses.

A UPS (uninterrupted power supply) ensures that the electronics (not the cooling units) can finish the current transaction in the event of a power cut.

The user station comprises as standard:

- ◆ 12" touchscreen
- ◆ 2-D scanner
- ◆ UPS
- ◆ Ethernet

The locker bank can be used straight away with a webshop, using the supplied software and a single module, without additional networking. Your existing webshop can be connected.

The user station can be equipped with various additional options.

Additional Options:

- ◆ Alarm contacts
- ◆ Payment terminal CCV OPPC60II
- ◆ Printer
- ◆ Outdoor package
- ◆ Klaxon

External Dimensions (Width x Height x Depth)	(26.97" x 99.61" x 30.32") (685mm x 2530mm x 770mm)
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Weight (lb) & (kg)	552 lb (250kg)
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6-Locker Module

Type XL

The module has six extra large lockers “type XL” which are particularly suitable for the storage and handover of shopping, foodstuffs and larger items.

There is adequate room for very large boxes, and cartons and crates of beer.

This module is used by food retailers, butchers and industrial enterprises to hand over goods.



Model (Column Depth)	External Dimensions (Width x Height x Depth)	Locker Size	Inside Dimensions (Width x Height x Depth)	Volume (Ltrs per Locker)	Weight (lb) & (kg)
540	(53.94" x 99.61" x 33.32") (1370mm x 2530mm x 770mm)	6 x XL	(17.00" x 18.47" x 21.26") (432mm x 469mm x 540mm)	109	(993 lb) (450kg)
700	(53.94" x 99.61" x 36.62") (1370mm x 2530mm x 930mm)	6 x XL	(17.00" x 18.47" x 27.56") (432mm x 469mm x 700mm)	141	(993 lb) (450kg)

Additional Options:

- ◆ Color/Stickers
- ◆ Cover panel for cooling unit

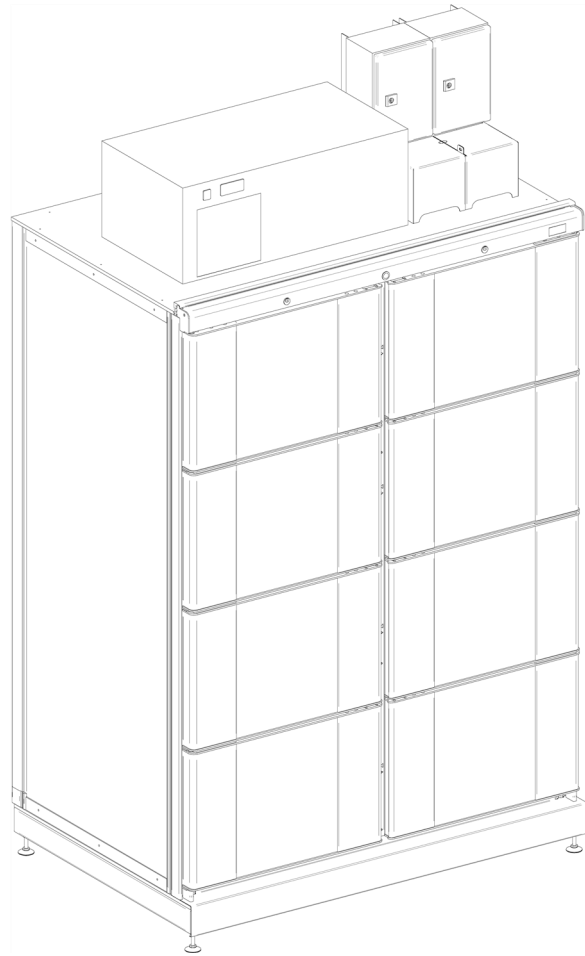
8-Locker Module

Type L

The module consists of eight identical lockers “type L” which are particularly suitable for the storage and hand-over of shopping, foodstuffs and larger items.

There is adequate room for large boxes, larger shopping items, and cartons or crates of beer.

This module is used as standard by food retailers, butchers and industrial enterprises.



Model (Column Depth)	External Dimensions (Width x Height x Depth)	Locker Size	Inside Dimensions (Width x Height x Depth)	Volume (Ltrs per Locker)	Weight (lb) & (kg)
540	(53.94" x 99.61" x 30.32") (1370mm x 2530mm x 770mm)	8 x L	(17.00" x 12.72" x 21.26") (432mm x 323mm x 540mm)	75	(993 lb) (450kg)
700	(53.94" x 99.61" x 36.62") (1370mm x 2530mm x 930mm)	8 x L	(17.00" x 12.72" x 27.56") (432mm x 323mm x 700mm)	97	(993 lb) (450kg)

Additional Options:

- ◆ Color/Stickers
- ◆ Cover panel for cooling unit

8-Locker Combi Module

Type XL/S

Four extra large lockers “type XL” at the top and bottom of the module, together with four small lockers “type S” in the middle, offer an optimum combination for the hand-over of extra large and smaller goods.

Very large boxes, cartons and crates of beer can be stored just as easily as smaller items of shopping and parcels. This module is used by food retailers, butchers and industrial enterprises to hand over goods.



Model (Column Depth)	External Dimensions (Width x Height x Depth)	Locker Size	Inside Dimensions (Width x Height x Depth)	Volume (Ltrs per Locker)	Weight (lb) & (kg)
540	(53.94" x 99.61" x 33.32") (1370mm x 2530mm x 770mm)	4 x XL	(17.00" x 18.47" x 21.26") (432mm x 469mm x 540mm)	109	(993 lb) (450kg)
		4 x S	(17.00" x 6.97" x 21.26") (432mm x 177mm x 540mm)	41	
700	(53.94" x 99.61" x 36.62") (1370mm x 2530mm x 930mm)	4 x XL	(17.00" x 18.47" x 27.56") (432mm x 469mm x 700mm)	141	(993 lb) (450kg)
		4 x S	(17.00" x 6.97" x 27.56") (432mm x 177mm x 700mm)	53	

Additional Options:

- ◆ Color/Stickers
- ◆ Cover panel for cooling unit

10-Locker Module

Type M

The module has ten medium-sized lockers “type M” which are particularly suitable for the storage and handover of shopping and foodstuffs.

There is adequate room for normal shopping and goods.

This module is used by food retailers, butchers and industrial enterprises for the handover of goods.



Model (Column Depth)	External Dimensions (Width x Height x Depth)	Locker Size	Inside Dimensions (Width x Height x Depth)	Volume (Ltrs per Locker)	Weight (lb) & (kg)
540	(53.94" x 99.61" x 30.32") (1370mm x 2530mm x 770mm)	10 x M	(17.00" x 9.29" x 21.26") (432mm x 236mm x 540mm)	75	(993 lb) (450kg)
700	(53.94" x 99.61" x 36.62") (1370mm x 2530mm x 930mm)	10 x M	(17.00" x 9.29" x 27.56") (432mm x 236mm x 700mm)	97	(993 lb) (450kg)

Additional Options:

- ◆ Color/Stickers
- ◆ Cover panel for cooling unit

10-Locker Combi Module

Type L/S

Four large lockers “type L” at the top and bottom of the module, together with six small lockers “type S” in the middle, offer an optimum combination for the handover of large and smaller goods.

Large cartons and boxes and crates can be stored just as easily as smaller items of shopping and parcels.

The combination of lockers in this module makes it ideal for use as a starting module.

Food retailers and butchers use this module as a start-up and standard module.



Model (Column Depth)	External Dimensions (Width x Height x Depth)	Locker Size	Inside Dimensions (Width x Height x Depth)	Volume (Ltrs per Locker)	Weight (lb) & (kg)
540	(53.94" x 99.61" x 33.32") (1370mm x 2530mm x 770mm)	4 x L	(17.00" x 12.72" x 21.26") (432mm x 323mm x 540mm)	75	(993 lb) (450kg)
		6 x S	(17.00" x 6.97" x 21.26") (432mm x 177mm x 540mm)	41	
700	(53.94" x 99.61" x 36.62") (1370mm x 2530mm x 930mm)	4 x L	(17.00" x 12.72" x 27.56") (432mm x 323mm x 700mm)	97	(993 lb) (450kg)
		6 x S	(17.00" x 6.97" x 27.56") (432mm x 177mm x 700mm)	53	

Additional Options:

- ◆ Color/Stickers
- ◆ Cover panel for cooling unit

12-Locker Module

Type S

This module has twelve small lockers “type S” which are particularly suitable for the storage and handover of shopping and food items.

There is adequate room for small shopping items, goods and party catering platters.

Food retailers and butchers use this module as a standard module.



Model (Column Depth)	External Dimensions (Width x Height x Depth)	Locker Size	Inside Dimensions (Width x Height x Depth)	Volume (Ltrs per Locker)	Weight (lb) & (kg)
540	(53.94" x 99.61" x 30.32") (1370mm x 2530mm x 770mm)	12 x S	(17.00" x 6.97" x 21.26") (432mm x 177mm x 540mm)	41	(993 lb) (450kg)
700	(53.94" x 99.61" x 36.62") (1370mm x 2530mm x 930mm)	12 x S	(17.00" x 6.97" x 27.56") (432mm x 177mm x 700mm)	53	(993 lb) (450kg)

Additional Options:

- ◆ Extractable drawer system in the upper and lower lockers
- ◆ Color/stickers
- ◆ Glass windows
- ◆ Cover panel on cooling unit

Information and Additional Options

Various

Miscellaneous Information. Additional Options for Operators and Users.



Advantages

Modules

- ◆ Energy cost saving – modules can be switched off
- ◆ Own cooling unit per module
- ◆ Refrigeration engineers not required at installation
- ◆ Modules are flexible - can be replaced and new ones added
- ◆ Empty lockers can be used for special offers.

Advantages

User Station

- ◆ Can be used immediately, even if you don't have a webshop
- ◆ Simple operation using PIN code or barcode
- ◆ No cash in system, so no risk of break-ins
- ◆ Can be equipped for card payment
- ◆ Special offers can be advertised on the user station screen

Top Front Facing

Additional Option

The cooling units can be covered by front cover panels.

Alarm Contacts

Additional Option

Various potential-free contacts to ensure safety.

- ◆ Alarm contact in the user station
- ◆ Power-off alarm
- ◆ Temperature alarm

Drawer System

Additional Option

To improve the ergonomics, the top and bottom lockers in the “Type S” 12-locker module can have an integrated drawer system.

Card Payment

Additional Option

The user station can be equipped with a PCI compliant card reader.
The payment terminal consists of a keypad, a card reader and an NFC reader.

Colors/Decals

Additional Option

The optical design of the facing can be supplied in various standard and special colors (RAL colors). Personal corporate designs can also be supplied.

The modules can be supplied with decals to indicate the various temperature ranges.

Glass Window

Additional Option

The locker doors can be equipped with glass windows. This option is not available for the freezer module.

Outdoor Options

Additional Option

If the lockers are to be installed in a protected outdoor location, we recommend that the chilled modules and user station are equipped with a heating system. We also offer fully enclosed kiosk installations.

If there are minus outdoor temperatures, this prevents the locker temperature from dropping to a negative range and the contents being spoiled.

Logistics Management System

Integrated Cloud-based Logistics Management

Connecting Consumers to the Food Supply Chain involves innovation in last-mile logistics. It's about time, space and resources.

- > Fast, Convenient, Efficient
- > Integrated end-to-end capabilities—watch costs go down and efficiencies go up

Dealing with American Locker as a single supplier for each element of your e-grocery value chain delivers peace of mind. With the ability to combine picking, packing, optimised transportation routing, 3rd party Logistics & ERP integration, Logistics management with i-Cool lockers, into one integrated offering.

Lockers are increasingly becoming a critical component in managing the cost of last-mile delivery while providing a convenient choice for the customer. We provide a complete software platform that handles full order management, delivery fleet management and locker monitoring.

Integrated credit card pre-payment or payment at the locker can be offered.



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