

# COOL LOCKERS

## Data sheet

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# 1. COOL LOCKERS - Description

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The cool lockers locker system is a state-of-the-art, electronically controlled solution for the secure and unattended transfer of temperature-sensitive and normal goods. Developed using state-of-the-art technology, it offers a wide range of possible applications.

**Versatile applications:**

- Supermarkets, butchers, shopping centers, pharmacies and online retailers use the cool lockers as practical pick-up stations.
- Industrial companies and service areas use them for the return and delivery of temperature-sensitive items.

**Modular system:** A system consists of at least one module and one user station. Additional modules with different temperature zones and locker sizes can easily be connected. A total of seven different module types are available.

**Flexible temperature control:** Thanks to each module's own temperature control unit, the system can cover all temperature ranges and can be used both indoors and in portected outdoor areas.

**User-friendliness:** The doors of the cool lockers are closed as standard and the touchscreen enables intuitive operation. The modern software offers numerous functions and can be quickly integrated into existing ERP systems, online stores and IT systems via the API. The "roles and rights concept" allows different tasks to be assigned to different people and groups.

**Expandable operating station:** The operating station is equipped with a PC and a touchscreen and can be expanded as required.

**Added service value:** With the cool lockers locker system, companies can offer their customers real added value by making goods and services available regardless of opening hours.

**Individual design:** The housing, the operating station and the locker doors can be designed in almost any color and color combination (RAL colors 5001-9001 smooth-glossy, surcharge free). Due to the increased heating caused by solar radiation in summer, we recommend avoiding dark colors.

**Maintenance obligation:** The cool lockers is a locker system that requires maintenance and must be serviced regularly by specialist personnel.

## 2. COOL LOCKERS - User station



The operating station of the cool lockers locker system offers numerous expansion options and monitors all processes and functions of the system.

### It serves as a central communication interface:

- Customers can collect their goods using a previously received collection code.
- Service personnel have access to many useful functions that simplify maintenance and repair processes.

### Robust construction:

- The housing is made of high-strength HPL (High Pressure Laminate) panels.
- The doors are made of 3 mm thick aluminum profile.

### Safety features:

- An uninterruptible power supply (UPS) ensures that ongoing operations can be completed in the event of a power failure (the cooling units are not supplied with power).

The following table shows the standard equipment and the expansion options.

STANDARD EQUIPMENT:	EXTENSION OPTIONS:
- 10" Touchscreen	- Cashless payment terminal
- Integrated LS-PC	- Potential-free alarm contacts
- 2D Scanner	- Siren
- Electric heating (outdoor area)	- RFID reader
- Air filter system (depending on the size of the technical compartment for "All in one")	- Age verification (OCR)
	- Temperature display top panel (cooling and freezing)
	- Sunlight-readable monitor
	- UPS (uninterruptible power supply)
	- LED light top panel (orientation aid)

\*To maintain the functionality of the UPS, the battery must be checked once a year and replaced every 2 years.

The operating station equipment is configured according to your wishes and requirements.

### 3. COOL LOCKERS - Technical data



#### Technical data - User station

<b>Power connection</b>	230V AC/50Hz +/- 10% (other voltages on request)
<b>Fusing</b>	Per user station 16 A- release characteristic B
<b>Ambient temperature</b>	-15°C bis 35°C
<b>Power supply</b>	1kWh/24h* bei ca. 24°C ambient temperature
<b>Outside measurements:</b> (user station)	Height = 2500mm, Width = 678mm, Depth = 770mm (Cool) Height = 2700mm, Width = 678mm, Depth = 770mm (Freezer)
<b>Weight:</b>	120kg

\*The specified power consumption was measured under normal ambient temperatures and without compartment openings. The value may vary as it depends heavily on the ambient temperature and the frequency of compartment openings.

## 4. COOL LOCKERS - Touchscreen



### Touchscreen Monitor (Standard)\*

<b>Display:</b>	10.1" Touch Display
<b>Resolution:</b>	1280 x 800 x 60Hz
<b>Response time:</b>	25ms
<b>Colors:</b>	16.7M
<b>Temperature range:</b>	0 to +40°C
<b>Vanadlism resistance:</b>	Break tested Touchscreen UL-60950 and IK-07 tested

\*At choice of LockTec depending on availability.

Direct sunlight on the touchscreen must be avoided in order to ensure perfect functioning and customer-friendly operability (no excessive heating of the touchscreen surface).

### Touchscreen Monitor (Optional)\*

<b>Display:</b>	10.1" Dust-proof Touch Display
<b>Resolution:</b>	1280 x 800
<b>Contrast:</b>	800 : 1
<b>Colors:</b>	16.7M
<b>Temperature range:</b>	-20 to +60°C
<b>Vanadlism resistance:</b>	Break tested Touchscreen UL-60950 and IK-07 tested

\*At choice of LockTec depending on availability.

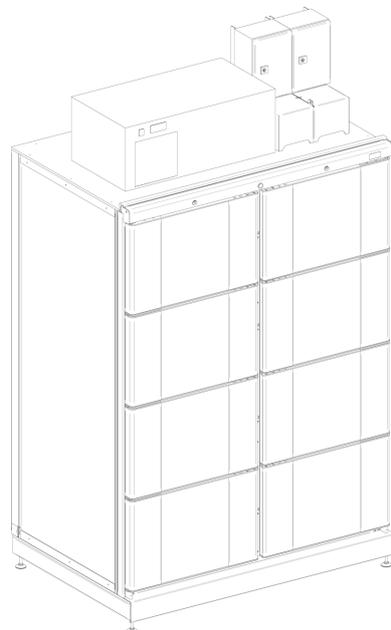
## 5. COOL LOCKERS - Modules

### 6-Locker-Module Type XL



Outside measurements (Width x Heights x Depth)	Locker size	Internal dimensions (Width x Heights x Depth)	Volume	Weight (kg)
1370 x 2700 x 770 (mm)	6 x XL	432 x 469 x 540 (mm)	109	350

### 8-Locker-Module Type L



Outside measurements (Width x Heights x Depth)	Locker size	Internal dimensions (Width x Heights x Depth)	Volume	Weight (kg)
1370 x 2700 x 770 (mm)	8 x XL	432 x 323 x 540 (mm)	75	350

## 8-Locker-Module Combi Type XL/S



Outside measurements (Width x Heights x Depth)	Locker size	Internal dimensions (Width x Heights x Depth)	Volume	Weight (kg)
1370 x 2700 x 770 (mm)	4 x XL	432 x 469 x 540 (mm)	109	350
	4 x S	432 x 177 x 540 (mm)	41	

## 10-Locker-Module Type M



Outside measurements (Width x Heights x Depth)	Locker size	Internal dimensions (Width x Heights x Depth)	Volume	Weight (kg)
1370 x 2700 x 770 (mm)	10 x M	432 x 236 x 540 (mm)	55	350

## 10-Locker-Module Combi Type L/S



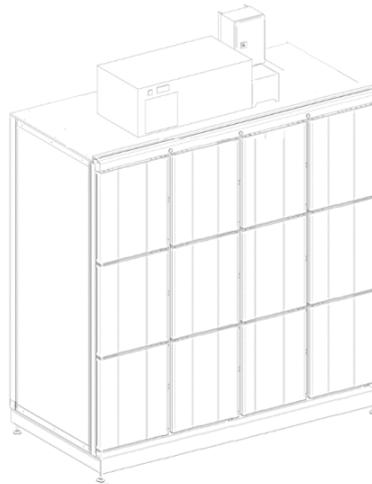
Outside measurements (Width x Heights x Depth)	Locker size	Internal dimensions (Width x Heights x Depth)	Volume	Weight (kg)
1370 x 2700 x 770 (mm)	4 x L	432 x 323 x 540 (mm)	75	350
	6 x S	432 x 177 x 540 (mm)	41	

## 12-Locker-Module Type S



Outside measurements (Width x Heights x Depth)	Locker size	Internal dimensions (Width x Heights x Depth)	Volume	Weight (kg)
1370 x 2700 x 770 (mm)	12 x S	432 x 177 x 540 (mm)	41	350

**12-Locker-Module vertical**  
**Type M** (Only available with cooling unit)



<b>Outside measurements (Width x Heights x Depth)</b>	<b>Locker size</b>	<b>Internal dimensions (Width x Heights x Depth)</b>	<b>Volume</b>	<b>Weight (kg)</b>
1954 x 2700 x 770 (mm)	12 x M	236 x 432 x 540 (mm)	71	350

## 6. COOL LOCKERS - Description of the locker module



A cabinet module consists of two rows of lockers. The doors are fitted with integrated, burglar-resistant door hinges. The doors open in the middle of each module. The doors are locked using electromechanical door locks. A colored LED in the middle locking strip between the doors indicates when and which door can be opened.

Each module has an emergency door release that can only be operated by the operator. This ensures that the doors can always be opened, even in the event of a power failure, without damaging the system.

Each module is equipped with its own cooling unit, which offers the following advantages:

- Modules with different temperature ranges can be combined.
- Systems can be expanded at any time.
- The configuration of the system can be changed.
- Individual modules can be switched off if required.
- No on-site refrigeration technician is required for installation.
- Cooling units can be easily replaced.

The compartment doors are powder-coated.

### Expansion options:

- Compartment doors can be powder-coated in various RAL colors (RAL 5001-9001 smooth-glossy at no extra charge).
- Temperature display on the top panel - Additional light on the top panel for better orientation (for larger systems).



## 7. COOL LOCKERS - Temperature ranges of the modules



The cooled and non-cooled cabinet modules are visually identical.

The refrigerated cabinet modules are available in frozen and refrigerated versions and the following table compares the different cabinet modules.

Version	Temperature-zone	Coolant	Volume	Charge	Ambient temperature	Power supply
Freezer	-2 to -21°C	R 452 A	55 dBA*	1kg	-15°C to +35°C	Ca. 9,4 kWh/24h**
Cool	+4 to + 8°C****	R 134 A or R 290 A	53 dBA*	1kg	-15°C to +35°C	Ca. 5,2 kWh/24**
Ambient	Ambient temp.	No info.	No info.	No info.	Ambient temp.	No info.
Frost protection	Temperature does not fall under 0°C	No info.	No info.	No info.	-15°C to +35°C	No info.
Tempered	+5 to + 25°C***	No info.	No info.	No info.	-15°C to +35°C	No info.

\*The data provided is a reference point and may change with the circumstances at the location of the system. Measuring distance was 2m.

\*\*The power supply of the system is heavily influenced by various facts such as ambient temperature, opening of the locker doors... The provided data was created under regular temperature conditions of around 20°C indoors and without opening of doors.

\*\*\*The system fluctuates between the shown temperature zone depending on the ambient temperature, but always makes sure that the temperature zone will neither be exceeded nor undershot.

\*\*\*\*The temperature range is also from 0 to +2 degrees available.

**IMPORTANT!** Temperature deviation of 2 to 3 degrees (hysteresis) is considered normal.

**INFO:** The temperature sensors for monitoring the temperature of each locker are located in the center of each module.

## 8. COOL LOCKERS - Installation location

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There are two different types of outdoor installation.

### 1. Indoor installation:

Rooms in which the locker system is protected from weather influences, salt, direct sunlight and other external influences as well as extreme temperature fluctuations. Room temperature approximately 21°C.

### 2. Protected outdoor installation:

Protected outdoor locations ensure that the locker system is protected from splash water, rain, snow, hail, driving rain, salt, direct sunlight on the display, etc. For this we recommend a roofing.

### ADDITIONAL MEASURES FOR OUTDOOR INSTALLATION:

Different criteria are to be considered for the outdoor installation of the locker system:

- Avoid direct sunlight
- Roofing, wind and rain protection are recommended (we offer complete solutions)
- It should be avoided that goods and customers get wet
- It must be avoided that water gets into the lockers
- Regular cleaning of the locker system is necessary to avoid moss formation and contamination
- Avoid extreme weather and temperature conditions, as extreme -/+ temperatures over longer periods of time will unavoidably have a negative effect on the inner temperature of the locker
- Dark colors and color-combinations should be avoided

Please discuss your climatic conditions with us in order to find the best solution for you.

**Attention:** Interference due to EMC level violations or currents (bursts) in the power supply at the installation location may have negative effects on the electronic of locker systems. Such interference can be caused by e.g. non-EMC-compliant elevators, tanning salons, electric distributors, air conditioning and telecommunication technology located in close proximity of the installation location. These interferences can be located, e.g. one floor above or below of the installation location or can be separated by a wall. Additional technical measures are necessary to solve these issues, which would result in additional costs. Please ensure that the installation location is free of such interferences.

Our locker systems require an internet connection. We don't recommend a WLAN solution, for they are usually less reliable and steady and therefore cannot ensure the proper functionality of the locker systems.

## 9. COOL LOCKERS - Material overview

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### Hardware:

#### Module:

- Housing made of at least 6-10mm HPL
- Middle wall (only tempered) made of 6mm HPL
- Doors and top cover made of at least 3mm aluminium
- Locker bottom, depending on the temperature range, made of 6mm HPL or 2mm PVC
- Plinth made of V2A, raw (with adjustable feet)
- Cover for plinth made of 1,5mm stainless steel
- Insulation of the housing and the locker doors made of polyurethane foam, depending on the temperature range, between 60 and 82mm thick

## Powder coating

Our powder coating partners are all certified according to the quality mark of the Quality Association for Industrial Coatings (QIB) or ISO 9001. Accordingly, we can generally offer different powder coatings, expected service lives and corrosivity categories (based on DIN 55634/ ISO 12944).

**Attention:**        **The expected service life is not a warranty period!**

**The type of surface characteristics** of the locker systems are based on the standard level and can therefore have different visual characteristics. The surface characteristics are set out in QIB data sheet 3-1 "Visual assessment of organically coated, decorative surfaces". The main points are listed in the following sections.

Craters, bubbles and inclusions

max. 30 St.  $\leq 1.0 \text{ mm}^2$  per  $\text{m}^2$ ; max. 8 St.  $\leq 1.0 \text{ mm}^2$  per  $100 \text{ cm}^2$   
max. 5 St.  $\leq 1,5 \text{ mm}^2$  per  $\text{m}^2$ ; max. 3 St.  $\leq 1,5 \text{ mm}^2$  per  $100 \text{ cm}^2$

**Color run-off and accumulations are permitted** and in some cases a maximum of three times the layer thickness is permitted.

**Gloss differences** are permitted if they are within the following tolerances. For metrological evaluations of industrial coatings by reflectance measurement in accordance with DIN EN ISO 2813 (60° measurement geometry), the following tolerance limits usually apply:

- Glossy surface: 71 to 100 E ( $\pm 10$  E)
- Semi-glossy surface: 31 to 70 E ( $\pm 7$  E)
- Matt surface: 0 to 30 E ( $\pm 5$  E)

**Color deviations** are permitted if they do not appear conspicuous; reference lighting is diffuse daylight (observe viewing distance as per explanations).

A metrological evaluation is carried out in accordance with DIN 6175 Table 1 with the tolerance limit specified there of a maximum of 1.5 times the permitted color deviation.

The numerical value of the metamerism index (according to DIN 6172) of subsequent deliveries must not exceed the numerical value of the color difference  $\Delta E_{ab}$ . For different delivery batches of an order, the color nuances that may occur should not exceed twice the value of the tolerances specified in DIN 6175 Table 1. If components from several paint batches are joined together, the 2-fold tolerance mentioned above may be doubled if there are joints, miters, beads, decorative strips, cavities or similar.

**Attention:**        **Discoloration does not constitute a basis for warranty claims!**

**Sanding grooves** are usually covered with conventional powder coating systems from a maximum roughness of  $R_{max} < 9 \mu\text{m}$  (corresponds to 180 grit sandpaper with an eccentric orbital sander).

**Attention!**        In the material processing and welding methods we use, we deliberately work with visible weld seams. These do not constitute a defect.

# 11. COOL LOCKERS - Material information



## Name of material:

- The addition "raw" in the name of materials indicates that the surface of the material has not been treated. The material is in raw, untreated state. The material comply with the quality delivered by the supplier.

## Color spectrum:

- The standard colors range from classic RAL 5001 to RAL 9001. Of course other color variations and coatings are available at additional costs.

## Material:

a. Aluminum 3.3535

- EN 573-3

b. Stainless steel 1.4301

- DIN EN 10088-3

Corrosion resistance class 2 (DIN EN 1993-1-4 and general building approval Z-30.3-6).

## Typical use cases:

Standard materials for all known applications for accessible constructions and components such as balustrades, railing constructions, covers, fasteners in rural and urban areas with negligible SO<sub>2</sub> and chlorides contamination. Components which are not exposed to rain should be cleaned at least once a year to maintain an optically appealing appearance.

c. Stainless steel 1.4404

- DIN EN 10088-3

Corrosion resistance class 3 (DIN EN 1993-1-4 and general building approval Z-30.3-6).

## Typical use cases:

Standard materials for constructions with moderate exposure to chlorides e.g. de-icing Salts or maritime environment in moderate climate and/or moderate exposure to SO<sub>2</sub> also for constructions and components that are difficult to reach and clean and have a life expectancy of more than 50 years. In case high expectations are placed on optics a suitable surface finish needs to be put into consideration as well.

d. Stainless steel 1.4462

- DIN EN 10088-3

Corrosion resistance class 4 (DIN EN 1993-1-4 and general building approval Z-30.3-6).

## Typical use cases:

Used in case of extreme exposure to chlorides, which may create highly acidic surface film together with e.g. SO<sub>2</sub> or chlorine gas. Higher temperatures may add to that and cause an accumulation of the mentioned substances, especially if there is insufficient irrigation or cleaning. This applies to all use cases where stress corrosion on load-carrying components may occur (swimming pool atmosphere, road tunnels).

## 12. COOL LOCKERS - Things to know



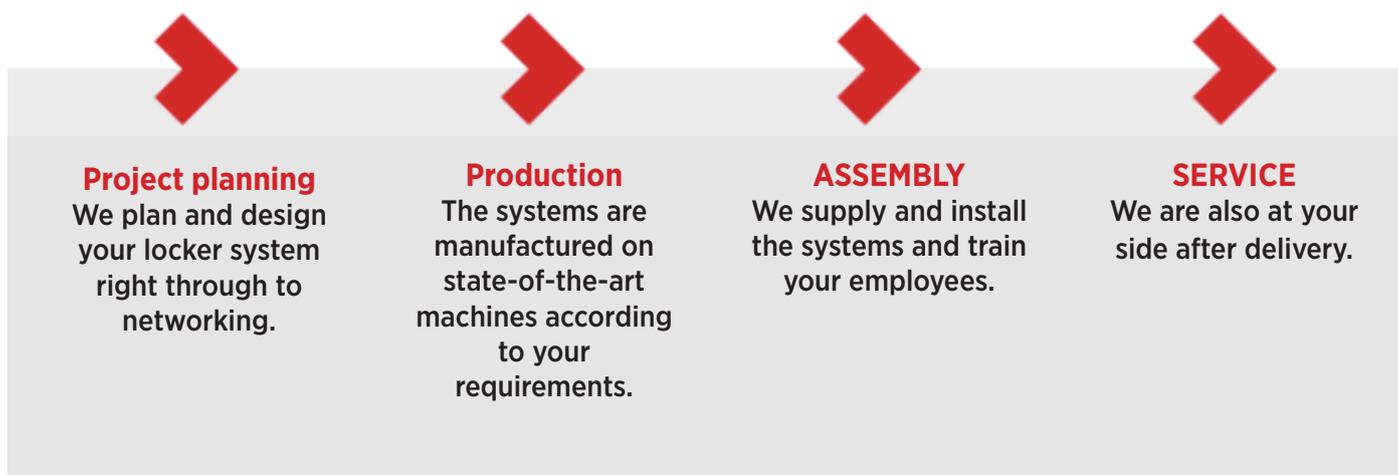
### Experience:

LockTec has been successfully active in the field of electronically controlled locker systems for decades and is the original inventor of locker systems for the delivery of goods.

The patent for the technology for the delivery of parcels via an automated system was filed in Germany in 1999. The international patent was granted in 2007.

LockTec is a competent and very experienced partner and manufactures a wide range of different locker systems such as luggage lockers for railroad stations, airports, shopping centers..., cool lockers for the unattended handover of food, medicines... for butchers, supermarkets, pharmacies..., service boxes for the unattended handover of tools, documents, valuables... for industrial companies, residential complexes...

### Everything from a single source:



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