



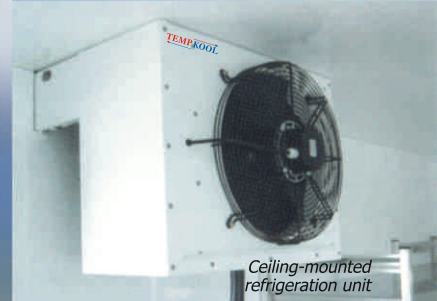
# Walk - In Cold Room



Coldroom sliding door



Wall-hanging unit  
(evaporator) installation



Ceiling-mounted  
refrigeration unit

## COLD ROOM - The Smart Way Of Cost Effective Stock Keeping

With the up-to-date preservation in trade and household, an optimally cooled storage room is essential. However, normal Cold Rooms are today no longer suitable for storing foodstuffs due to the characteristics of their building methods. Sensitive foodstuffs, for instance fruit and vegetables, require mild coolness and high humidity to remain crisp and fresh and rich in vitamins. On the other hand, wines love to be stored at a pleasant temperature, in darkness and at low humidity, to unfold their taste and bouquet without

building mould on the cork. Demands, which are met successfully with the comfortably walk-in TEMPKOOL Pre-Fab Cold Rooms! TEMPKOOL refrigeration units as an ideal addition to Pre-Fab Cold Rooms, are equipped with a switch for selecting higher or lower relative humidity - a great advantage compared to conventional refrigerators! In this way, for instance, salad and vegetables can be kept fresh and aromatic in the Pre-Fab Cold Room for up to week, cheese does not dry out and fruit stays juicy and tasty. Whether

storing foodstuffs, keg barrels, wine supplies, game or pharmaceutical products: TEMPKOOL Pre-Fab Cold Rooms offer you the optimal solutions through ideal temperature conditions and efficient storage volumes! Numerous standard sizes with variable widths and depths ensure that all application requirements are fulfilled. Already the smallest version with only 1.08 m<sup>2</sup> base surface offers - with a height of 1.95 m with approx. 1540 litres content - sufficient space to store your foodstuffs, clearly visible and quick to locate.

# Perfect Pre-Fab Cold Room for almost all room situations



Pre-Fab room commercial version

## Advantages at a glance:

- Fully hygienic finish
- 100 percent insulation and low current consumption due to true-to-fit fabrication
- High longevity
- Ecologically optimised through CFC-free manufacture, recyclable
- Comprehensive service performance
- Effective economy
- Constant operating safety
- Defined assembly quality and easy extension
- Perfectly matched system engineered with TEMPKOOL refrigeration units
- Flexible solutions for individual demands

## Optimal suitability for private and trade applications

Whatever you want to keep fresh at a defined coolness: TEMPKOOL Pre-Fab Cold Rooms set new standards for storage in private households, gastronomy, foodstuffs trade, florist trade, drug stores or chemists.

## Well thought out to the last detail!

TEMPKOOL panels are conceived accurately to fit due to a groove and tongue system with protected eccentric cam locks. This well thought out modular type of construction gives the rooms a perfect insulation, whereby heat bridges and condensate are prevented. The

cover layers of our sandwich panels consist of hot galvanized steel sheet, which is enamelled with an environmentally friendly powder coating procedure at 180°C in our factory in such a way that the cut edges are also sealed with an average layer thickness of 70 µm. Additionally to the TEMPKOOL standard powder coating in white (similar to RAL 9016), finishes in austenitic stainless steel 1.4301 with different surface finishes are also available on request.

## Silverprotec surfaces with antimicrobial hygiene protection

The new type of powder coating **SilverProtec** offers an active and long-lasting protection against micro-organisms. **SilverProtec** is effective in three ways due to the deliberate release of silver ions: it blocks the cell metabolism, prevents cell breathing, stops cell division and causes the death of microorganisms when they come in contact with the surface. The starting concentrations of known text organisms, such as salmonella enteritidis or escherichia coli, feared in gastronomy, are reduced by 100% or 5 log-steps with **SilverProtec**, which is equivalent to a safe disinfection. TEMPKOOL Pre-Fab Cold Rooms

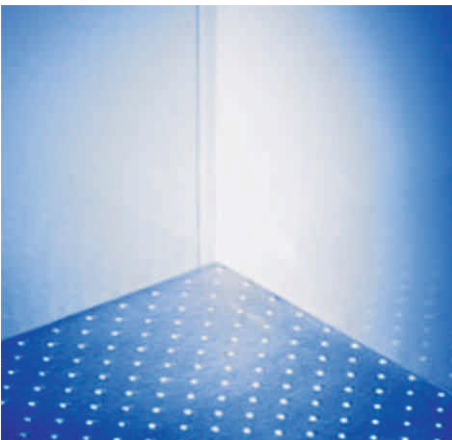
with **SilverProtec** as an option prevents in a natural way the transfer and spread of potentially dangerous bacteria, fulfil of course the relevant standards and regulations for application in the foodstuffs area and offer therefore an absolutely safe environment for the storage of foodstuffs and other sensitive goods.

## Polyurethane hard foam

TEMPKOOL Pre-Fab Cold Rooms are effectively insulated due to their designed thick insulation core made from cyclopentane foamed polyurethane. Due to this FCKW-free manufacturing process and the consistent waive of any environment damaging solvents we justify our claim to permanently protect the environment.

## Diverse size

Numerous size with a height of 195 cm, widths of 120 to 240 cm and depths of 90 to 240 cm with or Pre-Fab Cold Rooms standard version and widths of 150 to 300 cm and depths of 120 to 600 cm with the commercial versions - in each case in the optimised TEMPKOOL 30 cm grid - enable the flexible mounting according to each of your room conditions.



Floor/wall connection

## Efficient functionality with convincing advantages

Performance overview						
Specification	TEMPKOOL Standard Small coldroom	TEMPKOOL Standard WL80	TEMPKOOL Standard WL100	TEMPKOOL Standard 100	TEMPKOOL Standard 120	TEMPKOOL Standard 150
Wall thickness (in mm)	60	80	100	100	120	150
Recommended temperature difference to VDI 2055 (T=Kelvin)	30 K	38 K	45 K	45 K	56 K	70 K
Temperature range	+3°C to +19°C	-20°C to +60°C	-25°C to +60°C	-25°C to +60°C	-30°C to +60°C	-50°C to +60°C
K-value according to DIN 52612 (W/m²K)	0,34	0,25	0,20	0,20	0,17	0,14
Building material classification (DIN 4102/part1)	B1 od, B3	B1 od, B3	B1 od, B3	B1 od, B3	B1 od, B3	B1 od, B3
Standard coldroom sizes* (Width (W) x depth (D) in mm)	B 1500-3000 x T 1200-6000	B 1500-6000 x T 1200-6000	B 1500-6000 x T 1200-6000	B 1500-6000 x T 1200-6000	B 1500-6000 x T 1200-6000	B 1500-6000 x T 1200-6000
	2150 900 x 1900	2110 800 x 1800	2150 800 x 1800	2150 800 x 1800	2490 800 x 2000	2550 800 x 2000
External height with floor (in mm)	2450	2410	2450	2450	—	—
Dimension standard door (width x height in mm)	900 x 1900	800 x 2000	800 x 2000	800 x 2000	—	—
	—	2710	2750	2750	—	—
	—	800 x 2000	800 x 2000	800 x 2000	—	—

\* 30 cm and 10 cm grid, made-to-measure fabrication and larger coldroom dimensions on request

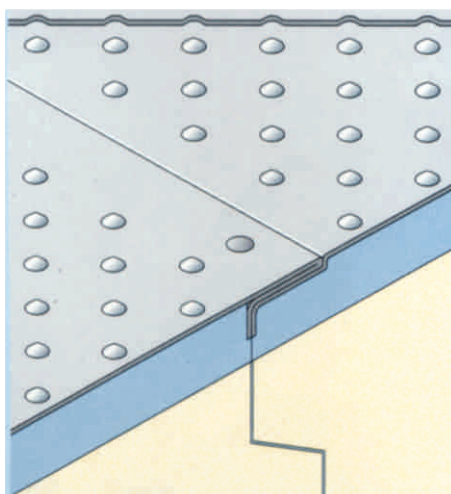
Equipment overview						
Specification	TEMPKOOL Standard Small coldroom	TEMPKOOL Standard WL80	TEMPKOOL Standard WL100	TEMPKOOL Standard 100	TEMPKOOL Standard 120	TEMPKOOL Standard 150
TEMPKOOL overlapping	—	■	■	■	—	—
Light switch with control lamp	□	■	■	■	■	■
Thermometer	□	■	■	■	■	■
Pressure release valve	□	■	■	■	■	■
Door frame heating and heated pressure release valve	—	□	■	■	■	■
Oval lamp for humid rooms 60 Watt	□	—	—	—	—	—
Oval lamp for humid rooms 100 Watt	—	■	■	■	■	■
Floor 100 kp KE11	■	■	■	■	■	■
Further floor variants according to product survey	—	□	□	□	□	□
Threshold flush to floor level	■	■	■	■	■	■

■ Standard equipment □ Optionally available — Not available

### Floor panels made from stainless steel

Due to the patented conceptin of the *TEMPKOOL* floors made from stainless steel 1.4301, our chiller rooms meet highest hygiene demands.

*TEMPKOOL* stainless steel floors are finished joint free, stepless and seamlessly underlapped, and with threshold flush with the floor. The heat insulated *TEMPKOOL* KE11 stainless steel floor offers a decisive plus in safety with its specific cone pressing with multidirectional anti-slip (certified) and the admissible wheel load of 100 kp!



Stainless steel floor, cone pressed

### Revolving doors

*TEMPKOOL* Pre-Fab Cold Rooms are equipped with supported, single leaf revolving doors, opening to the outside, with rising door hinges for easy opening/closing. The *TEMPKOOL* typical magnetic frame sealings offer secure locking for the protection against energy loss even with doors which are no longer perfectly adjusted due to operation over years. The highly elastic magnetic sealing frame can be exchanged without tools and is easy to clean. A locking device with cylinder lock and emergency opener for opening the locked door from the inside, ensure maximum safety and functionality.



Magnetic sealing frame

### Simple and quick assembly

*TEMPKOOL* Pre-Fab Cold Rooms combine best functionality with highest assembly comfort! The true-to-measure foaming of the panels and the clever connection with the groove and tongue system with selfcentring eccentric cam locks enables a simple do-it-yourself assembly at site. On request our cold engineering experts will support you in word and deed during planning, execution and maintenance of your *TEMPKOOL* Pre-Fab Cold Room.



Simple assembly of the panels



# Well Planned *TEMPKOOL* System With Perfect Functionality



- |  |   |   |
|--|---|---|
| <b>1</b> Wall system with eccentric cam locks in Tecto version | <b>6</b> Ramp   | <b>11</b> Ceiling-mounted refrigeration unit  |
| <b>2</b> Wall-hanging refrigeration unit                       | <b>7</b> Shelving system  | <b>12</b> Coldroom ceiling system   |
| <b>3</b> Single-winged coldroom revolving door                 | <b>8</b> Coldroom sight window round  | <b>13</b> Compartment partition wall for the separation of chilling and freezing area within a coldroom |
| <b>4</b> Coldroom window                                       | <b>9</b> Stainless steel coldroom floor   | <b>14</b> Control panel with pressure release valve   |
| <b>5</b> Coldroom sliding door                                 | <b>10</b> Suspension for fixing the coldroom ceiling to construction ceiling with spans greater than 6m | <b>15</b> Concept to commissioning from an ISO 9001 company   |



## Conventional High-Rise, Power-Saving Potato Cold Storage

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