

Coldrooms and deep-freezing rooms

TECTO COMPACT

TECTO STANDARD PLUS

VIESSMANN

climate of innovation

Perfect ice-cold refrigeration



Heating systems

Industrial systems

Cooling systems ◀



Refrigeration and freezing solutions for high demands

Viessmann cold and deep-freezing rooms impress with their sophisticated technology, energy efficiency, superior hygiene characteristics and outstanding user friendliness.

Viessmann is rounding off its product range with the Tecto Compact coldrooms and deep-freezing rooms and tapping into a broad target group by providing access to the tried-and-tested Viessmann quality.

The rooms are available with two wall thicknesses (Tecto Compact 80 and Tecto Compact 100), both of which are deliverable from stock and therefore available extremely quickly. The major advantage in practice: The short lead time of no more than two weeks makes it possible to use the Tecto Compact range for last-minute projects.

The new Tecto Standard Plus version combines all of the advantages of the three coldrooms versions (Tecto Standard, Tecto Standard WL and Tecto Special) into a highly advantageous package for the customer, at no extra cost.

The standardisation and clear demarcation of product features makes things less complicated and makes it easier to choose the right type of coldroom based on the different requirements for trade, catering, and industry.

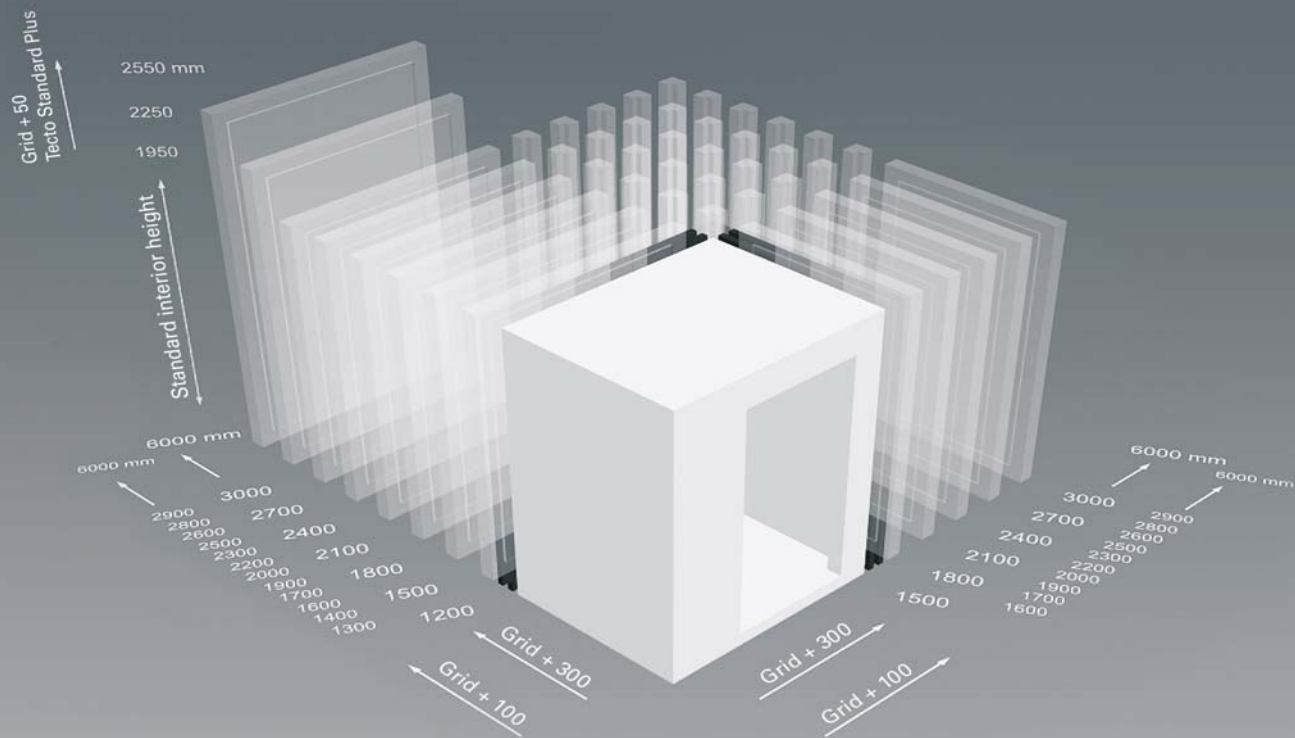


Take advantage of these benefits

- Optimum insulation and low power consumption due to precisely tailored production
- High durability
- Constant operational reliability
- Flexible solutions for different applications



Technical specifications



Sizes overview

Type		Tecto Compact 80	Tecto Compact 100	Tecto Standard Plus 80	Tecto Standard Plus 100	Tecto Standard Plus 120	Tecto Standard Plus 150
Standard coldroom sizes*							
Width	mm	1800 – 3600	1800 – 3600	1500 – 6000	1500 – 6000	1500 – 6000	1500 – 6000
Depth	mm	1200 – 12000	1200 – 12000	1200 – 6000	1200 – 6000	1200 – 6000	1200 – 6000
External height with floor							
	mm	2110	2150	2110	2150	2190	2250
Standard door dimensions							
Width x Height	mm	900 x 1800	900 x 1800	800 x 1800	800 x 1800	800 x 1800	800 x 1800
	mm	2410	2450	2410	2450	2490	2550
	mm	900 x 2000	900 x 2000	800 x 2000	800 x 2000	800 x 2000	800 x 2000
	mm			2710	2750	2790	2850
	mm			800 x 2000	800 x 2000	800 x 2000	800 x 2000

* 300 mm and 100 mm intervals in the Tecto Standard Plus range
 300 mm intervals in the Tecto Compact range
 Customisation and larger coldroom sizes on request

Performance overview

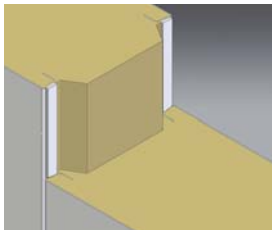
	Type	Tecto Compact 80	Tecto Compact 100	Tecto Standard Plus 80	Tecto Standard Plus 100	Tecto Standard Plus 120	Tecto Standard Plus 150
Wall thickness	mm	80	100	80	100	120	150
Recommended temperature difference in accordance with VDI 2055 (ΔT in Kelvin)	K	38	45	38	45	56	70
Temperature range	°C	+2 to +60	-25 to +60	-20 to +60	-25 to +60	-30 to +60	-50 to +60
U-values ($W/m^2 K$) in accordance with DIN EN 13165		0.25	0.20	0.25	0.20	0.17	0.14



Tailored to meet the highest standards in retail and industry, Viessmann coldrooms and freezer rooms are particularly robust, with above average hygiene properties and a high level of user convenience.

- Quick and easy installation thanks to the groove/tongue system with self-centring eccentric cams
- Easy expansion and reassembly thanks to joints that require neither glue nor silicone
- Viessmann joint-free and continuously underlapped stainless steel floors
- Non-slip floor grouting in several versions
- Fully hygienic wall radii in the Tecto Standard Plus range
- High standard of hygiene thanks to the SmartProtec® antimicrobial surfaces in the Tecto Standard Plus range
- Optionally available with a floor radius in the special design for easy cleaning with optimal hygiene
- Walls in the Tecto Standard Plus range hygienically overlap without any joints to prevent the collection of dirt or water
- Comprehensive range of accessories
- Perfectly tailored system technology with optionally available refrigeration units and shelving systems
- High standard of packaging for protecting goods and transporting them safely

Tecto Compact - Version



Tecto Compact wall connection



Tecto Compact wall-floor

The Tecto Compact design efficiently meets all of the quality criteria that are required for hygienic and germ-free storage of refrigerated products. With Tecto Compact coldrooms and freezer rooms, the coldroom walls directly abut the thermally insulated stainless steel floor. All stainless steel shelves by Viessmann are jointless and continuously underlapped.

The numerous standard sizes in intervals of 300 mm up to a maximum of 3600 x 12000 mm ensure high flexibility. As a result, the Tecto Compact coldroom and deep-freezing rooms are suitable for a variety of applications. Even the smallest version measuring 1800 x 1200 mm (W x L) provides enough space to store your food in a clear and easy to find manner.

Partition walls can be used to flexibly combine rooms at intervals of 600 mm.

The rooms are available with 80 mm and 100 mm wall thicknesses, which are deliverable from stock and therefore available extremely quickly.

During assembly, the Tecto Compact rooms can be optionally equipped with a pressure compensation valve, a thermometer and a light switch with a control lamp.



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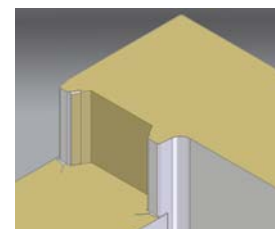
Tecto overlapping ensures joint-free transitions from wall to wall. Joint-free overlapping of the walls prevents the formation of dirt and water.

The corners of the wall panels are finished on the inside of the refrigerator with a radius in all wall thicknesses. Germs that develop primarily in joints and corners are therefore effectively prevented.

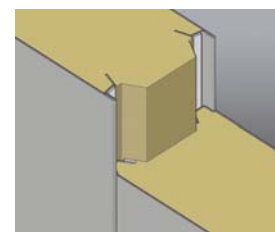
The high quality stainless steel floor is extremely durable and the surface is joint-free and continuously underlapped.

The optional Tecto Special design features coldrooms with a heat-insulated stainless steel floor with a large, hygienic radius right up to the wall panels. The floor corners are also rounded. The circumferential radius facilitates hygienically optimal cleaning.

The Tecto Standard Plus coldrooms and deep-freezing units are available in wall thicknesses of 80, 100, 120 and 150 mm.



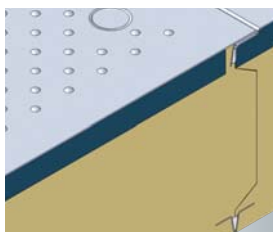
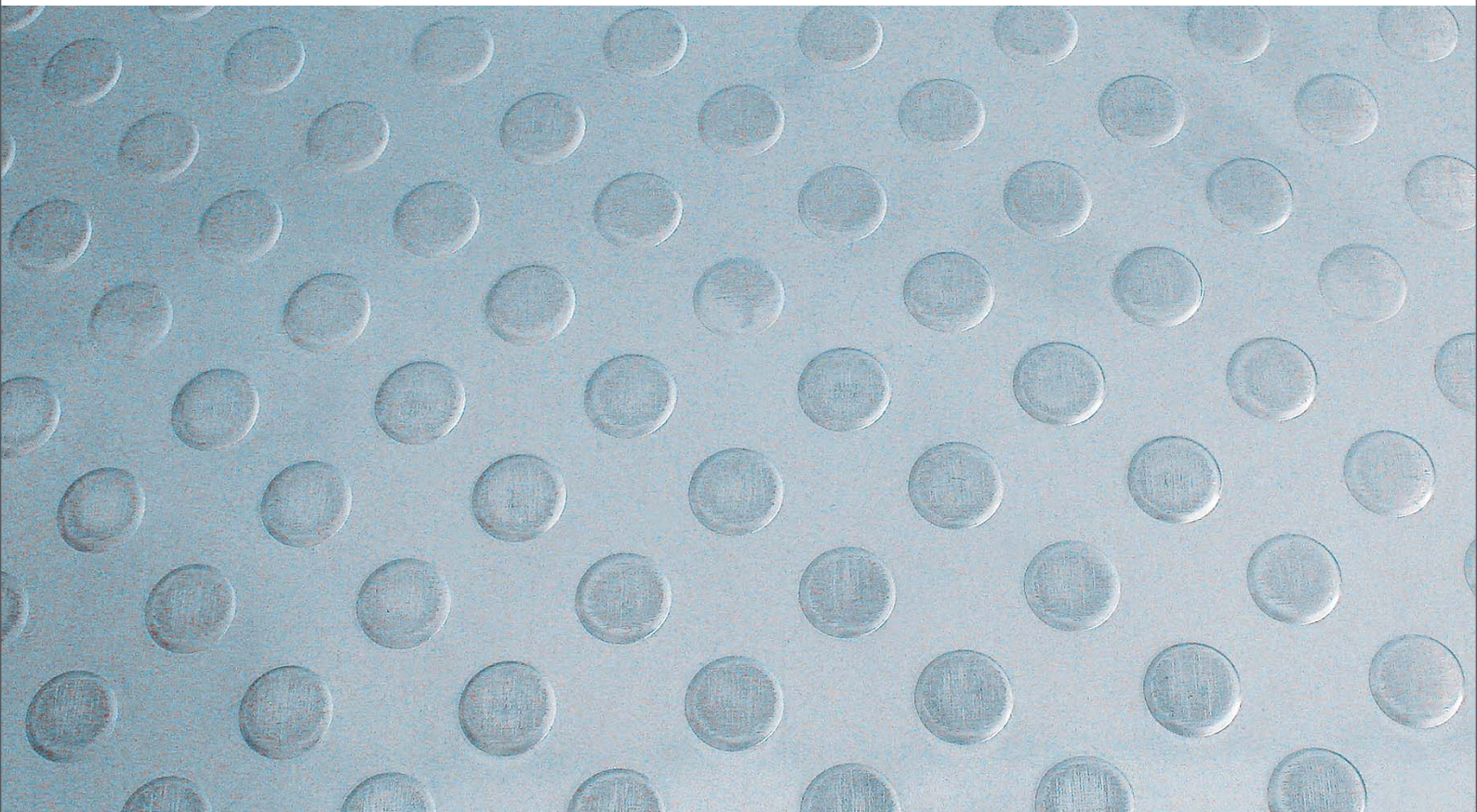
Tecto Standard Plus corner connection



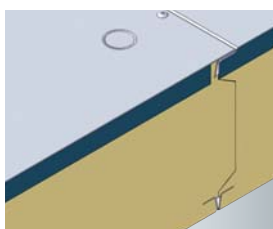
Tecto Standard Plus wall overlapping



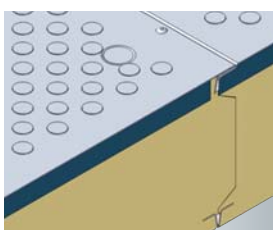
Optional special version with floor radius



Stainless steel floor, cone pressed



Stainless steel floor, unpressed



Circle pressed stainless steel floor

Viessmann coldrooms meet the highest hygiene requirements thanks to floor design made of stainless steel 1.4301 (stainless steel 1.4571 is optional). All stainless steel shelves by Viessmann are jointless and continuously underlapped.

Non-slip floor grouting

The multidirectional (certified) non-slip protection achieved by specific Viessmann pressing means that Viessmann stainless steel floors provide a major safety advantage. Viessmann provides cone pressed, circle pressed and unpressed stainless steel floors suited to a variety of applications.

High floor strength

Thanks to the processing of high quality stainless steel, Viessmann coldroom floors are extremely durable and smaller vehicles can manoeuvre them easily in accordance with the permissible wheel load.

Coldrooms without floor panels

With regard to coldrooms without stainless steel floors, the wall panels are bolted onto the floor on site using U-profiles made of plastic or stainless steel.

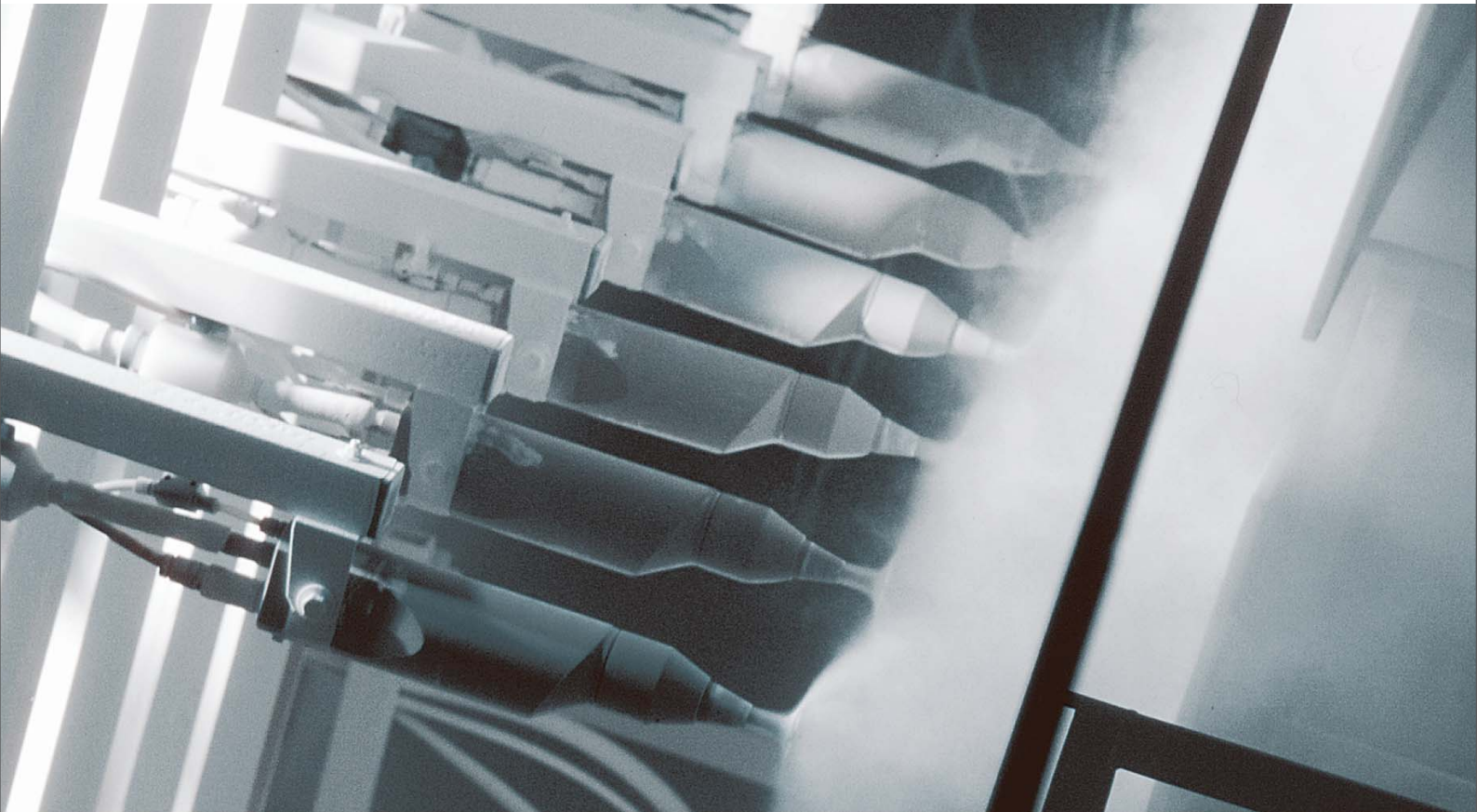
Model	KR 09	G 36	KR 11	KE 11***	KR 12
Version	circle pressed	without embossing	circle pressed	cone pressed	circle pressed
Max* wheel load	1000 2000	4000	1000 2000 4000	1000	1000 2000 4000
N/wheel	4000		4000		4000
Group**	R 09	R 10	R 11	R 11	R 12
Surface	without sanding	sanded lengthwise	sanded lengthwise	with/without lengthwise sanding	circle sanded

* Load surface > 4 cm²/wheel

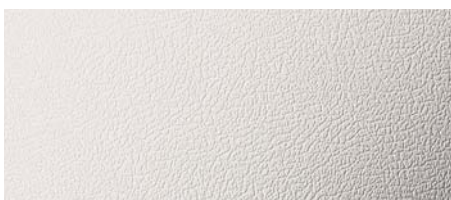
** Slip resistance assessment group (German Trade Association).

Other floor types on request. Floor variants with 4000 N can also be welded.

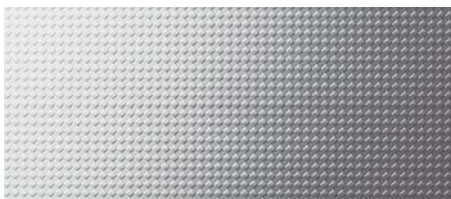
*** Standard floor in Viessmann coldrooms and deep-freezing rooms.



Grain grinding



Leather grain



Diamond grain

Viessmann powder coating

The top layers of the Viessmann Tecto Compact design are made of galvanised sheet steel, additionally coated with high-quality Viessmann standard powder coating in white (RAL 9016).

The Tecto Standard Plus version gives you the long-lasting antimicrobial powder coating SmartProtec® as standard. This powder coating prevents the transmission and spread of potentially harmful bacteria.

There is also a variety of stainless steel versions to choose from.

In addition to the standard quality 1.4301, Viessmann also offers versions in classes 1.4571 and 1.4509.

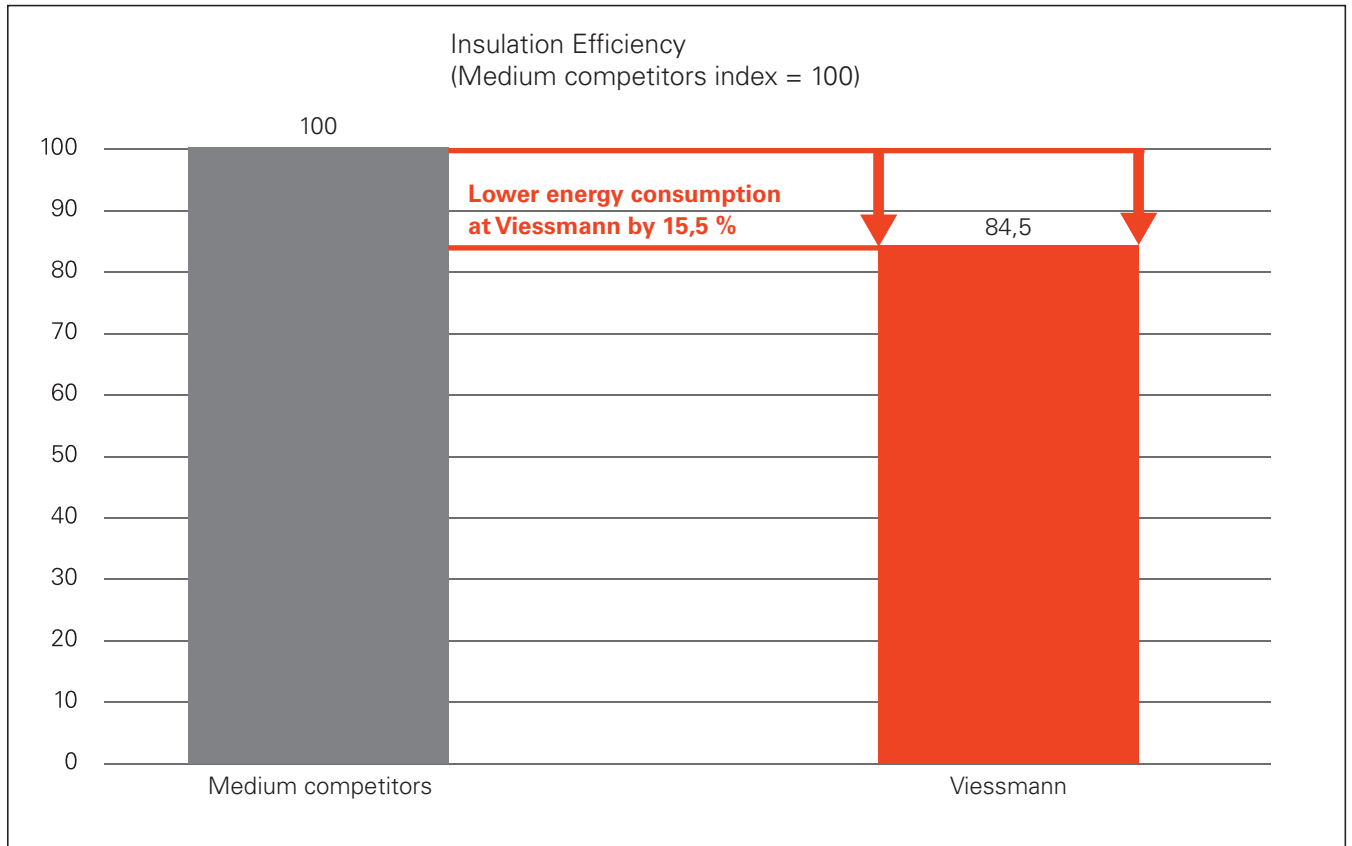


Equipment overview / Accessories

Model	Tecto Compact 80	Tecto Compact 100	Tecto Standard Plus 80	Tecto Standard Plus 100	Tecto Standard Plus 120	Tecto Standard Plus 150
Tecto wall overlapping	-	-	■	■	■	■
Tecto floor overlapping	■	■	■	■	■	■
Tecto corner radius	-	-	■	■	■	■
Tecto floor radius	-	-	□	□	□	□
Light switch with control lamp	□	□	■	■	■	■
Thermometer	□	□	■	■	■	■
Pressure compensation valve up to 5 kW refrigeration capacity	□	□	■	■	■	■
Door heater with thermal switch and heated pressure release valve up to 5 kW cooling capacity	-	□	□	■	■	■
Magnetic sealing frame	■	■	■	■	■	■
LED light (door frame)	□	□	■	■	■	■
LED refrigerator and freezer compartment light for ceiling mounting	□	□	□	□	□	□
Floor 1000 N (KE11)	■	■	■	■	■	■
Other floor versions according to product overview	-	-	□	□	□	□
Threshold flush with the floor	■	■	■	■	■	■
Antimicrobial surface SmartProtec	-	-	■	■	■	■
Stainless steel surface	-	-	□	□	□	□
Building material classification B1 (DIN 4102)	-	-	□	□	□	□
Stainless steel back panel for trimming the lower ventilation grates	□	□	□	□	□	□
Meat and sausage hanging rails	□	□	□	□	□	□
Revolving door with ergonomic handle	■	■	■	■	■	■
Hatch	-	-	□	□	□	□
PVC strip curtain for ceiling or wall mounting	□	□	□	□	□	□
PVC swing door	-	-	□	□	□	□
Round inspection window	-	-	□	□	□	□
Temperature monitoring and recording device	□	□	□	□	□	□
Overflow protection	-	-	□	□	□	□
Ventilation grates	□	□	□	□	□	□

■ Included □ Optional - Not included

Other accessories on request



Average energy consumption of the refrigeration system per m² in the coldroom

A recent competition comparing nine European coldroom supplier confirmed why Viessmann is the leading manufacturer of innovative coldrooms and deep-freezing rooms in Germany and Europe, and further demonstrated how it exceeds the industry's expectations for quality and technology innovations placed on it. Compared with the competition, Viessmann excelled in the following categories: Delivery (packaging, delivery, documentation), assembly, constructive comparison, door, floor loading, energy comparison, operating costs after 10 years.

In order to ensure that models can be compared between the different manufacturers in a meaningful and objective manner, the size, wall thickness and features of the test coldrooms were clearly specified and tested under identical conditions at the ATP testing facility of TÜV Süd. Two trials were carried out: Determination of the overall heat-transfer coefficient (k-value) of the coldrooms using a source of heat, and determination of energy efficiency, using a source of cold.

The coldrooms from Viessmann Kühleysteme GmbH set themselves apart with their outstanding insulation properties and the high

energy efficiency this enables. On the one hand, this is supported by the results of the TÜV inspection of the measured foam insulation values (U-values), and on the other hand is also demonstrated by the recorded thermal images. The Viessmann coldroom with improved foam even surpassed the excellent result achieved by the previous technology.

The thermal imaging conducted by TÜV Süd during operation highlights the result of the TÜV test. The pictures clearly show that the outside temperature of the Viessmann coldroom is higher than the average values of the participants in the competitive comparison. This indicates that the insulation allows less cold to escape outside. In addition, the images show numerous significant thermal bridges in the joint areas of many of the competitors' coldrooms.

The corner post system showed that even these corner points represent a weak thermal point in the overall system.



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