



VIESSMANN

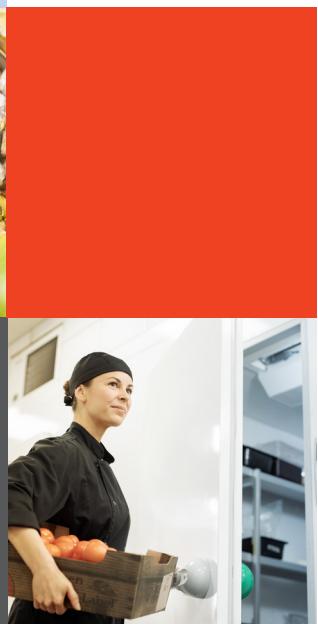
REFRIGERATION SOLUTIONS

Refrigeration Units

TECTOREFRIGO WMC2 / WMF2

TECTOREFRIGO CMC1 / CMF1

TECTO RF WSC2 / WSF2



**Viessmann
refrigeration units for
temperature controlled
rooms**

The right solution for every situation: For catering, food retail, medical areas or public buildings - Viessmann offers suitable refrigeration units for almost every room situation and their refrigeration requirements.



Energy-efficient refrigeration in cold and freezer rooms



The storage of perishable goods requires stable temperature conditions. At the same time, there are various requirements with regard to the installation situations. Adaptability and flexibility characterize high-quality solutions for cold rooms.

The same criteria apply to an associated refrigeration units portfolio. This should be both robust and reliable, as well as energy efficient and environmentally friendly. In addition, it covers numerous application and installation situations as well as cooling capacities.

The Viessmann Refrigeration Solutions portfolio meets these requirements with the following three product lines:

WALL-MOUNTED REFRIGERATION UNITS

WMC2 / WMF2

0.5 to 2.8kW

Installation on the wall elements of the cold room



CEILING-MOUNTED REFRIGERATION

UNITS CMC1 / CMF1

0.7 to 4.2kW

Installation on the ceiling elements of the cold room

SPLIT REFRIGERATION UNITS

WSC 2 / WSF2

1.7 to 6.7kW

Installation independent of the cold room on the inside and outside walls

TECTOREFRIGO WMC2 / WMF2



Easy to install, wall-mounted refrigeration units allow maximum use of the space available, even with low ceilings. All components are integrated ready to plug in, no refrigeration installation is necessary.

Reliable and easy to maintain cooling of food

- High manufacturing quality
- Hermetically sealed, industrially manufactured cooling circuit
- A1 refrigerant for normal and deep-freezing

Reliability through high operational reliability

- Robust device construction
- Use of components from well-known manufacturers

Cost savings through reduced energy consumption

- Thermostatic expansion valve
- Electronic regulation

PROGRAMME AND PERFORMANCE OVERVIEW

TectoRefrigo WMC2					
Model	WMC2 0500	WMC2 0900	WMC2 1300	WMC2 2000	WMC2 2800
Cooling capacity [W]¹	500	900	1300	2100	2800
Cold room temperature adjustment range [°C]	-5 to +20	-5 to +20	-5 to +20	-5 to +20	-5 to +20
Allowed ambient temperature [°C]	+1 to +43	+1 to +43	+1 to +43	+1 to +43	+1 to +43
Refrigerant / GWP²	R134a / 1300	R134a / 1300	R134a / 1300	R134a / 1300	R134a / 1300
Quantity / CO₂ equiv. [kg / t CO₂ equiv.]	0,6 / 0,78	0,6 / 0,78	0,65 / 0,85	1,0 / 1,3	1,4 / 1,82
Sound pressure [X65]³	39	40	41	39	40
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Defrosting type	electronic	electronic	electronic	electronic	electronic
Dimensions HxWxD [mm]	700 x 427 x 880	700 x 427 x 880	700 x 427 x 880	850 x 600 x 1059	850 x 600 x 1059

¹ Standard point L5/L32°C

² Based on AR4 / IPCC

³ A-weighted equivalent sound pressure level at 10m distance in DBA

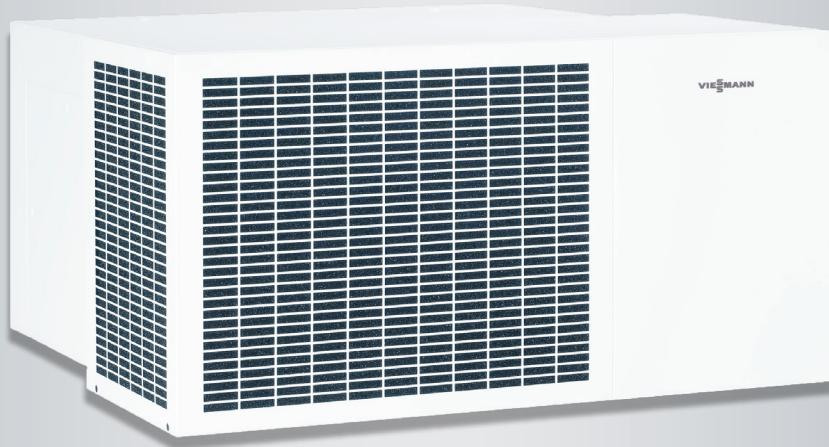
TectoRefrigo WMF2				
Model	WMF2 0900	WMF2 1400	WMF2 1800	WMF2 2400
Cooling capacity [W]¹	700	1200	1400	2000
Cold room temperature adjustment range [°C]	-25 to -5	-25 to -5	-25 to -5	-25 to -5
Allowed ambient temperature [°C]	+1 to +32	+1 to +32	+1 to +32	+1 to +32
Refrigerant / GWP²	R452A / 1945	R452A / 1945	R452A / 1945	R452A / 1945
Quantity / CO₂ equiv. [kg / t CO₂ equiv.]	0,72 / 1,4	1,2 / 2,35	1,2 / 2,35	1,85 / 3,6
Sound pressure [X65]³	41	42	42	45
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	electronic	electronic	electronic	electronic
Dimensions HxWxD [mm]	700 x 427 x 880	850 x 600 x 1059	850 x 600 x 1059	850 x 600 x 1059

¹ Standard point L-18/L32°C

² Based on AR4 / IPCC

³ A-weighted equivalent sound pressure level at 10m distance in DBA

TECTOREFRIGO CMC1 /CMF1



Ceiling-mounted refrigeration units are particularly suitable for installation situations in confined spaces. You do not need additional space beyond the cold room base.

Inconspicuous integration into everyday life

- High operating comfort
- Sound-optimised fans
- Flexibly positioned remote control with magnetic holder

Ensuring optimal freshness of goods during storage

- Uniform cold distribution due to optimised throwing distances
- Antimicrobial SmartProtec coating
- Housing insulation in the evaporator area with 100mm wall thickness

Continuous cost savings through high energy efficiency

- Hot gas defrosting
- Generous design of heat exchangers
- Use of energy-efficient condensation fans

PROGRAMME AND PERFORMANCE OVERVIEW

TectoRefrigo CMC1						
Model	CMC1 0700	CMC1 0900	CMC1 1300	CMC1 1900	CMC1 3300	CMC1 4200
Cooling capacity [W]¹	700	900	1300	1900	3300	4200
Cold room temperature adjustment range [°C]	-5 to +20	-5 to +20	-5 to +20	-5 to +20	-5 to +20	-5 to +20
Allowed ambient temperature [°C]	+10 to +42	+10 to +42	+10 to +42	+10 to +42	+10 to +42	+10 to +42
Refrigerant / GWP²	R134a / 1300	R134a / 1300	R134a / 1300	R134a / 1300	R134a / 1300	R134a / 1300
Quantity / CO₂ equiv. [kg / t CO₂ equiv.]	1,1 / 1,43	1,4 / 1,82	2,3 / 2,99	2,4 / 3,12	4,2 / 5,46	4,2 / 5,46
Sound pressure [X65]³	45	45	49	56	54) 8
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	hot gas	hot gas	hot gas	hot gas	hot gas	hot gas
Dimensions HxWxD [mm]	445 x 900 x 945	445 x 900 x 945	550 x 1070 x 1035	550 x 1070 x 1035	645 x 1530 x 1450	645 x 1530 x 1450

¹ Standard point L0/L32°C

² Based on AR5 / IPCC

³ A-weighted equivalent sound pressure level at 10m distance in DBA

TectoRefrigo CMF1						
Model	CMF1 0800	CMF1 1100	CMF1 1300	CMF1 1700	CMF1 2900	CMF1 4100
Cooling capacity [W]¹	800	1100	1300	1700	2900	4100
Cold room temperature adjustment range [°C]	-25 to -5	-25 to -5	-25 to -5	-25 to -5	-25 to -5	-25 to -5
Allowed ambient temperature [°C]	+10 to +42	+10 to +42	+10 to +42	+10 to +42	+10 to +42	+10 to +42
Refrigerant / GWP²	R407A / 2107	R407A / 2107	R407A / 2107	R407A / 2107	R407A / 2107	R407A / 2107
Quantity / CO₂ equiv. [kg / t CO₂ equiv.]	1,1 / 2,3	1,1 / 2,3	2,6 / 5,1	2,6 / 5,1	4,8 / 8,2	5,1 / 10,7
Sound pressure [X65]³	63	65	53	56	61	60
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	hot gas	hot gas	hot gas	hot gas	hot gas	hot gas
Dimensions HxWxD [mm]	445 x 900 x 945	445 x 900 x 945	550 x 1070 x 1035	550 x 1070 x 1035	645 x 1530 x 1450	645 x 1530 x 1450

¹ Standard point L-18/L32°C

² Based on AR4 / IPCC

³ A-weighted equivalent sound pressure level at 1m distance in DBA



Refrigeration units in split design enable uncomplicated handling even with large amounts of waste heat. By separating the evaporator and the condensing unit, a wide range of installation options can be implemented on the inside and outside walls of a building.

Reliability through high operational reliability

- Use of components from well-known manufacturers
- Service and maintenance friendliness
- All relevant circuit components already included in the set (condenser set, evaporator, control, expansion valve, filter dryer, additional inspection glass, solenoid valve with coil)

Cost-optimised operation

- Optimised energy efficiency
- Speed controlled fans
- Customised defrosting types

Rapid availability

- Pre-assembled, coordinated components
- Sets available for different cooling applications (packaged food, packaged meat, fruits and vegetables, frozen goods)

PROGRAMME AND PERFORMANCE OVERVIEW

Tecto RF WSC2 - Packaged Food

Model	WSC2 1800 PF	WSC2 2200 PF	WSC2 2800 PF	WSC2 4100 PF	WSC2 5500 PF
Cooling capacity [W]¹	1800 / 1600	2200 / 1900	2800 / 2300	4100 / 3400	5500 / 4600
Room volume up to [m³]²	30	40	55	90	130
Cold room temperature adjustment range [°C]	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20
Allowed ambient temperature [°C]³	-15 to +43	-15 to +43	-15 to +43	-15 to +43	-15 to +43
Refrigerant / GWP⁴	R513A / 573	R513A / 573	R513A / 573	R513A / 573	R513A / 573
Sound pressure [X65]⁵	34 / 34	34 / 34	39 / 36	40 / 37	40 / 37
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	Circulating air	Circulating air	Circulating air	Circulating air	Circulating air
Dimensions condensing unit HxWxD [mm]	600 x 900 x 350	600 x 900 x 350	840 x 1030 x 425	840 x 1030 x 425	840 x 1030 x 425
Dimensions evaporator HxWxD [mm]	455 x 752 x 430	455 x 752 x 430	455 x 752 x 430	455 x 1212 x 430	455 x 1212 x 430

¹ Condensing unit; Evaporation temperature to -5°C, ambient temperature +32°C / 43°C; Evaporator Superheat 10K; influences of installation location and other refrigeration circuit components must be considered independently

² Basis of calculation for room size: Room temperature +5°C, Ambient temperature +25°C, heat extraction from goods 15 K, operating time 16 h/day, goods handling 1/7 per day, inspection and lighting 0.5 h / day

³ max. Compressor inlet superheat 20K

⁴ based on AR5 / IPCC

⁵ Condensing unit, A-weighted equivalent sound pressure level at 10m distance in DBA

Tecto RF WSC2 - Packaged Meat

Model	WSC2 1700 PM	WSC2 2100 PM	WSC2 2600 PM	WSC2 3700 PM	WSC2 5100 PM	WSC2 6400 PM
Cooling capacity [W]⁶	1700 / 1400	2100 / 1800	2600 / 2100	3700 / 3100	5100 / 4300	6400 / 5400
Room volume up to [m³]⁷	25	35	45	70	105	140
Cold room temperature adjustment range [°C]	+2 to +20	+2 to +20	+2 to +20	+2 to +20	+2 to +20	+2 to +20
Allowed ambient temperature [°C]³	-15 to +43	-15 to +43	-15 to +43	-15 to +43	-15 to +43	-15 to +43
Refrigerant / GWP⁴	R513A / 573	R513A / 573	R513A / 573	R513A / 573	R513A / 573	R513A / 573
Sound pressure [X65]⁵	34 / 34	34 / 34	39 / 36	40 / 37	40 / 37	41 / 38
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	Electrical	Electrical	Electrical	Electrical	Electrical	Electrical
Dimensions condensing unit HxWxD [mm]	600 x 900 x 350	600 x 900 x 350	840 x 1030 x 425	840 x 1030 x 425	840 x 1030 x 425	1245 x 1030 x 425
Dimensions evaporator HxWxD [mm]	455 x 752 x 430	455 x 752 x 430	455 x 752 x 430	455 x 1212 x 430	455 x 1212 x 430	455 x 1672 x 430

⁶ Condensing unit; Evaporation temperature to -7°C, ambient temperature +32°C / 43°C; Evaporator Superheat 10K; influences of installation location and other refrigeration circuit components must be considered independently

⁷ Basis of calculation for room size: Room temperature +2°C, Ambient temperature +25°C, heat extraction from goods 15 K, operating time 16 h/day, goods handling 1/7 per day, inspection and lighting 0.5 h / day

TECTO RF WSC2 /WSF2

Tecto RF WSC2 - Fruits & Vegetables					
Model	WSC2 2100 FV	WSC2 2700 FV	WSC2 3400 FV	WSC2 5000 FV	WSC2 6700 FV
Cooling capacity [W]¹	2100 / 1800	2700 / 2300	3400 / 2800	5000 / 4200	6700 / 5700
Room volume up to [m³]²	35	50	65	105	150
Cold room temperature adjustment range [°C]	+5 to +20	+5 to +20	+5 to +20	+5 to +20	+5 to +20
Allowed ambient temperature [°C]³	-15 to +43	-15 to +43	-15 to +43	-15 to +43	-15 to +43
Refrigerant / GWP⁴	R513A / 573	R513A / 573	R513A / 573	R513A / 573	R513A / 573
Sound pressure [X65]⁵	34 / 34	34 / 34	39 / 36	40 / 37	40 / 37
Voltage / Phases / Frequency [V/-/Hz]	230 / 1 / 50	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	Circulating air	Circulating air	Circulating air	Circulating air	Circulating air
Dimensions condensing unit HxWxD [mm]	600 x 900 x 350	600 x 900 x 350	840 x 1030 x 425	840 x 1030 x 425	840 x 1030 x 425
Dimensions evaporator HxWxD [mm]	455 x 752 x 430	455 x 752 x 430	455 x 1212 x 430	455 x 1212 x 430	455 x 1672 x 430

¹ Condensing unit; Evaporation temperature to 0°C, ambient temperature +32°C / 43°C; Evaporator Superheat 10K; influences of installation location and other refrigeration circuit components must be considered independently

² Basis of calculation for room size: Room temperature +8°C, Ambient temperature +25°C, heat extraction from goods 15 K, operating time 16 h/day, goods handling 1/7 per day, inspection and lighting 0.5 h / day

³ max. Compressor inlet superheat 20K

⁴ based on AR5 / IPCC

⁵ Condensing unit, A-weighted equivalent sound pressure level at 10m distance in DBA

Tecto RF WSF2				
Model	WSF2 1800	WSF2 2600	WSF2 3900	WSF2 4500
Cooling capacity [W]⁶	1800 / 1500	2600 / 2200	3900 / 3300	4500 / 3800
Room volume up to [m³]⁷	15	30	50	60
Cold room temperature adjustment range [°C]	-25 to -5	-25 to -5	-25 to -5	-25 to -5
Allowed ambient temperature [°C]³	-15 to +43	-15 to +43	-15 to +43	-15 to +43
Refrigerant / GWP⁴	R449A / 1282	R449A / 1282	R449A / 1282	R449A / 1282
Sound pressure [X65]⁵	39 / 36	40 / 37	40 / 37	41 / 38
Voltage / Phases / Frequency [V/-/Hz]	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Defrosting type	Electrical	Electrical	Electrical	Electrical
Dimensions condensing unit HxWxD [mm]	840 x 1030 x 425	840 x 1030 x 425	840 x 1030 x 425	1245 x 1030 x 425
Dimensions evaporator HxWxD [mm]	455 x 752 x 430	455 x 752 x 430	455 x 1212 x 430	455 x 1212 x 430

⁶ Condensing unit; Evaporation temperature to -30°C, ambient temperature +32°C / 43°C; Evaporator Superheat 10K; influences of installation location and other refrigeration circuit components must be considered independently

⁷ Basis of calculation for room size: Room temperature -21°C, Ambient temperature +25°C, heat extraction from goods 15 K, operating time 16 h/day, goods handling 1/7 per day, inspection and lighting 0.5 h / day





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