

Refrigeration and freezer units
TectoRefrigo WMC2
TectoRefrigo WMF2

VIESSMANN

Technical
Description
Data sheet
5471195-01 EN



The benefits

- Refrigeration units according to EN (DIN) standards, VDE regulations and VBG guidelines, CE-compliant
- Sound insulation tested according to VDI 2058 sheet 3, DIN 45645-2
- Particularly quiet
- Selector switch for high or low relative humidity in the cold room
- The cooling circuit of the wall-hanging refrigeration unit is completely soldered and therefore more reliable than when using screw connections.
- Refrigerants R 134 a and R 452 A, non-ozone-depleting
- Particularly durable and low-maintenance
- Low power consumption and high performance due to the integration of an additional countercurrent heat exchanger in the primary circuit in conjunction with R 452 A and R 134 a refrigerants. This increases the refrigeration efficiency COP to over 115 % (for R 452 A) or 175% (for R 134 a).
- Protection class IP 23
- Use of thermostatically controlled expansion valves, thus optimum efficiency in all adjustable output ranges
- All components are easily accessible thanks to the modular design of the housing, thus sustainably reducing maintenance and repair costs

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1. General description

1.1 Viessmann wall-hanging refrigeration unit

Viessmann wall-hanging refrigeration units ready to plug in are hung into the cold room or a wall with a wall thickness of 80 to 150 mm. Electronic control. Cooling capacity for cold rooms from 500 to 2765 W. Electrical defrosting or optional recirculating air defrosting at cold room temperatures greater than +3°C. Refrigerant R 134 a (R 452 A for freezer units). Manufactured according to EN standards, CE-compliant.

1.2 Surfaces

The surfaces of the refrigeration units are made of hot-dip galvanised sheet steel with epoxy/polyester coating.

STA= Powder coating Viessmann Standard White, galvanised sheet steel with Viessmann **SmartProtec**[®] antimicrobial powder coating. Colour white, similar to RAL 9016.

No transfer and spreading of potentially hazardous microorganisms due to the physical properties of the surface. It offers no habitat for parasites and causes bacteria and fungi to die off.

Other materials are available on request.

2. Viessmann wall-hanging refrigeration unit TectoRefrigo WMC2

2.1 Technical Description

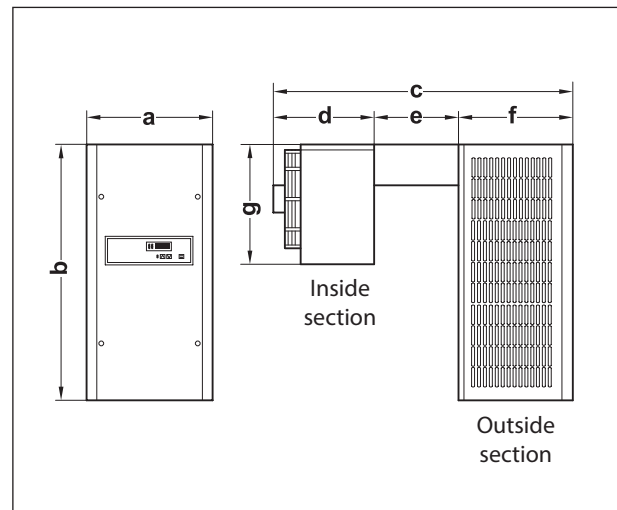
- Low-noise, fully hermetic reciprocating piston compression with winding protection switch
- Evaporator with fan
- Condenser with fan
- Thermostatic expansion valve
- Collector-drier
- Safety pressure switches
- The cooling circuit is completely soldered without screw connections and filled with refrigerant R 134 a
- Condensation evaporation pan with safety overflow
- Wired ready for connection with 5 m connection cable and shock-proof plug
- The refrigeration unit is packed on a pallet in a carton

2.2 Electronic control (WMC2)

- Temperature range -5°C to +20°C
- Electronic temperature control, target value programming via push buttons
- Digital display of cold room temperature (air inlet temperature at the evaporator)
- Time-controlled electric defrosting at cold room temperatures greater than +3°C circulating air defrosting
- Influence of moisture on the air in the cooling room by preselection of the runtime of the evaporator fan
- Potential-free fault alarm contact
- Connection option for door contact switch
- Connection option for central control technology and remote control
- Operation via emergency switch in case of control failure
- Coded error message in case of malfunctions

2.3 Dimensions in mm

TectoRefrigo	a	b	c	d	e	f	g
WMC2 0500	427	700	880	312	248	320	332
WMC2 0900	427	700	880	312	248	320	332
WMC2 1300	427	700	880	312	248	320	332
WMC2 2000	600	850	1059	360	279	420	457
WMC2 2800	600	850	1059	360	279	420	457

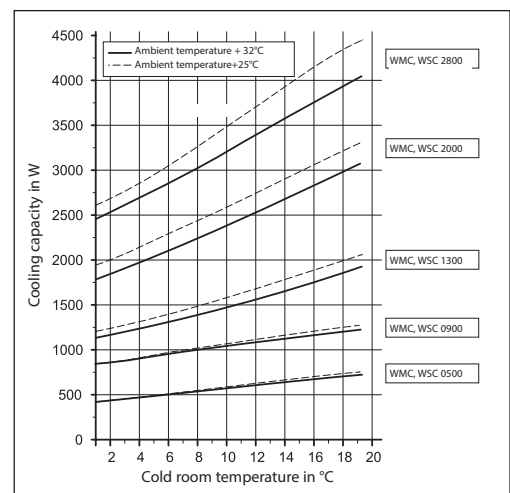


3. Technical data

Refrigeration unit TectoRefrigo WMC2

Refrigeration unit TectoRefrigo	Type	0500	0900	1300	2000	2800
for cold room temperatures (electronic)	from to	+5°C +20°C	-5°C +20°C	-5°C +20°C	-5°C +20°C	-5°C +20°C
Electrical values:						
Protection class		IP 23	IP 23	IP 23	IP 23	IP 23
Temperature class		N	N	N	N	N
Voltage	V	AC 230	AC 230	AC 230	AC 230	AC 230
Frequency	Hz	50	50	50	50	50
Power consumption:						
Cooling mode total	W	240	530	720	1100	1580
Defrost heater	W	-	-	-	-	-
Power consumption:						
Cooling mode total	A	1.3	3.2	4.7	5.3	7.5
Defrost heating (only with electronic control)	A	3.7	3.7	3.7	5.9	5.9
Weight (TectoRefrigo WMC)	kg	49.5	52.7	60.0	89.7	101.0
Cooling capacity: at cold room temperature +5°C and ambient temperature +32°C	W	500	925	1300	2050	2765
Area of usage: Ambient temperature		+1°C to +43°C	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C
Refrigerant		R 134 a	R 134 a	R 134 a	R 134 a	R 134 a
Fill weight (TectoRefrigo WMC)	g	600	600	650	1000	1400
Amount of air to be extracted if the ambient temperature is increased by 5 K	m ³ /h	550	800	1300	1700	3250
Sound pressure level ¹⁾ according to DIN EN 292	dB (A)	39	40	41	39	40
Wall-hanging refrigeration unit with electronic control	Type Order no.	TectoRefrigo WMC2 0500 7761455	TectoRefrigo WMC2 0900 7761457	TectoRefrigo WMC2 1300 7761458	TectoRefrigo WMC2 2000 7761459	TectoRefrigo WMC2 2800 7761460

1) A-rated equivalent sound pressure level measured at 10 m distance and 1.60 m height at rated power in mounting position. Depending on the spatial conditions and installation position, values above the specified noise level can be achieved.



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4. Viessmann TectoRefrigo WMF2

4.1 Technical Description

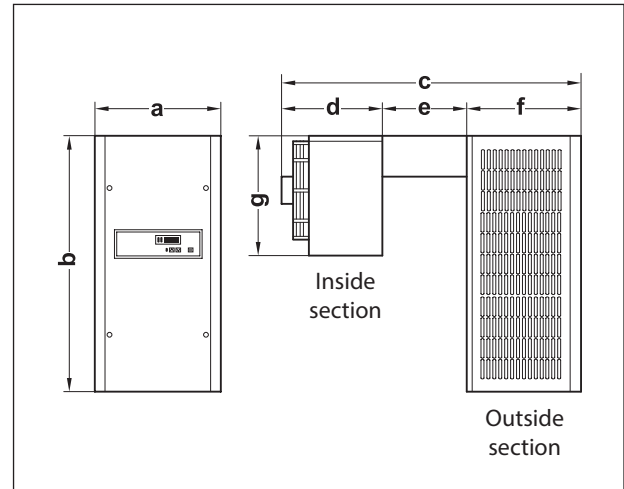
- Low-noise, fully hermetic reciprocating piston seal with winding protection switch
- Evaporator with fan
- Condenser with fan
- Thermostatic expansion valve
- Collector-drier
- Safety pressure switches
- Defrosting with electrical heating. Condensation is discharged via a hose with internal electric heating
- Condensation evaporation pan with safety overflow
- The cooling circuit is completely soldered without screw connections and filled with refrigerant R 452 A
- Wired ready for connection with 5m connection cable and shock-proof plug, or CEE appliance plug for three-phase current devices
- The refrigeration unit is packed on a pallet in a carton

4.2 Electronic control (WMF2)

- Temperature range -5°C to -25°C
- Electronic temperature control, target value programming via push buttons
- Digital display of cold room temperature (air inlet temperature at the evaporator)
- Time-controlled electric defrost
- Influence of moisture on the air in the cold room by preselection of the runtime of the evaporator fan
- Potential-free fault alarm contact
- Connection option for door contact switch
- Connection option for central control technology and remote control
- Operation via emergency switch in case of control failure
- Coded error message in case of malfunctions

4.3 Dimensions in mm

TectoRefrigo	a	b	c	d	e	f	g
WMF2 0900	427	700	880	312	248	320	332
WMF2 1400	600	850	1059	360	279	420	457
WMF2 1800	600	850	1059	360	279	420	457
WMF2 2400	600	850	1059	360	279	420	457

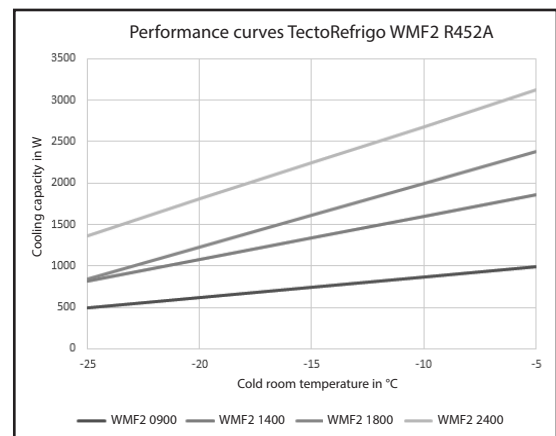


5. Technical data

Refrigeration unit TectoRefrigo WMF2

Freezer unit TectoRefrigo	Type	0900	1400	1800	2400
for cold room temperatures	from to	-5°C -25°C	-5°C -25°C	-5°C -25°C	-5°C -25°C
Electrical values: Protection class Temperature class Voltage Frequency Power consumption: Cooling mode total Defrost heater Power consumption: Cooling mode total Defrost heater	 V Hz W W A A	 IP 23 T AC 230 50 800 850 3.4 3.7	 IP 23 T AC 230 50 1400 1300 7.65 5.9	 IP 23 T AC 400 - 3 N ~ 50 1700 1300 3.8 5.9	 IP 23 T AC 400 - 3 N ~ 50 2100 1300 4.8 5.9
Weight (TectoRefrigo WMF)	kg	62.0	98.0	101.0	104.0
Cooling capacity: at cold room temperature -18°C and ambient temperature +32°C	W	700	1200	1400	2000
Area of usage: Ambient temperature		+1 to +32°C	+1 to +32°C	+1 to +32°C	+1 to +32°C
Refrigerant Fill weight (TectoRefrigo WMF)	g	R 452 A 720	R 452 A 1200	R 452 A 1200	R 452 A 1850
Amount of air to be extracted if the ambient temperature is increased by 5 K	m ³ /h	1050	1650	1950	2550
Sound pressure level ¹⁾ according to DIN EN 292	dB (A)	41	42	42	45
Wall-hanging refrigeration unit with electronic control	Type Order no.	TectoRefrigo WMF2 0900 7789879	TectoRefrigo WMF2 1400 7789878	TectoRefrigo WMF2 1800 7789877	TectoRefrigo WMF2 2400 7789876

1) A-rated equivalent sound pressure level measured at 10 m distance and 1.60 m height at rated power in mounting position. Depending on the spatial conditions and installation position, values above the specified noise level can be achieved.



6. Tender text – Specification



Wall-hanging refrigeration unit with electronic control for deep-freezing rooms

Cons. No.	Item	Unit price	Total price			
		<p>Viessmann TectoRefrigo WMC2</p> <p>Compact, pluggable wall-hanging refrigeration unit for cold room temperatures from -5°C to +20°C</p> <p>Surfaces</p> <p>STA Powder coating Viessmann standard white, galvanised sheet steel with Viessmann Smart Protec® antimicrobial powder coating. Colour white, similar to RAL 9016.</p> <p>Scope of delivery and condition at delivery</p> <p>Stable, torsion-resistant housing, for attachment to a room element or wall with a thickness of 60 to 150 mm. Protective grid axial fans according to DIN 31001. Defrost water drain hose with electric heater. Condensation evaporation pan with safety overflow.</p> <p>Complete refrigeration equipment consisting of: Fully hermetic compressor with winding protection switch and starting device, fan-ventilated condenser and evaporator, thermostatic expansion valve, collector-drier, safety pressure switch, condensation water evaporator with safety overflow, time-controlled defrosting by electric heater with safety temperature monitor or recirculation air defrosting at cooling chamber temperature greater than +3°C, with 5 m connection line, shock-proof plug and filled with refrigerant R 134 a.</p> <p>Cooling capacity at cold room temperature +5°C and ambient temperature +32°C: watt Control range of the cold room temperature: -5°C to +20°C Permissible ambient temperature: +1°C to +43°C Mains connection: AC 230 Volt ~, 50 Hz</p> <p>Power consumption Cooling mode: watt Defrost mode: watt</p> <p>Power consumption: Cooling mode: ampere Defrost mode: ampere</p> <p>Dimensions (height x width x depth in mm): 700 x 427 x 880; (WMC2 0500; 0900; 1300) 850 x 600 x 1059; (WMC2 2000; 2800)</p> <p>Weight: kg Amount of air to be removed by the customer for Increase of the ambient temperature by 5K: m³/h</p> <p>Order no.</p>				

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7. Tender text – Specification



Wall-hanging refrigeration unit with electronic control for deep-freezing rooms

Cons. No.	Item	Unit price	Total price			
		<p>Viessmann freezer unit TectoRefrigo WMF2</p> <p>Compact, pluggable wall-hanging refrigeration unit for cold room temperatures from -5°C to -25°C</p> <p>Surfaces</p> <p>STA Powder coating Viessmann standard white, galvanised sheet steel with antimicrobial effect Powder coating SmartProtec®. Colour white, similar to RAL 9016.</p> <p>Scope of delivery and delivery condition</p> <p>Stable, torsion-resistant housing, for attachment to a room element or wall with a thickness of 60 to 150 mm. Protective grid axial fans according to DIN 31001. Defrost water drain hose with electric heater. Condensation evaporation pan with safety overflow.</p> <p>Complete refrigeration equipment consisting of: Fully hermetic compressor with winding protection switch and starting device, fan-ventilated condenser and evaporator, thermostatic expansion valve, collector-drier, safety pressure switch, condensation water evaporator with safety overflow, time-controlled defrost by electric heating with safety temperature monitor, with 5 m connection cable, shock-proof plug (WMF2 0900; 1400) CEE plug (WMF2 1800; 2400), filled with refrigerant R 452 A.</p> <p>Cooling capacity at cold room temperature -18°C and ambient temperature +32°C: watt Control range of the cold room temperature: -5°C to -25°C Permissible ambient temperature: +1°C to +32°C Mains connection: AC 230 Volt ~, 50 Hz (WMF2 0900; 1400) AC 400 Volt 3N~, 50 Hz (WMF2 1800; 2400)</p> <p>Power consumption Cooling mode: watt Defrost mode: watt</p> <p>Power consumption: Cooling mode: ampere Defrost mode: ampere</p> <p>Dimensions (height x width x depth in mm): 700 x 427 x 880; (WMF2 2000; 0900) 850 x 600 x 1059; (WMF2 1400; 1800; 2400)</p> <p>Weight: kg Amount of air to be removed by the customer for Increase of the ambient temperature by 5K: m³/h</p> <p>Order no.</p>				

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