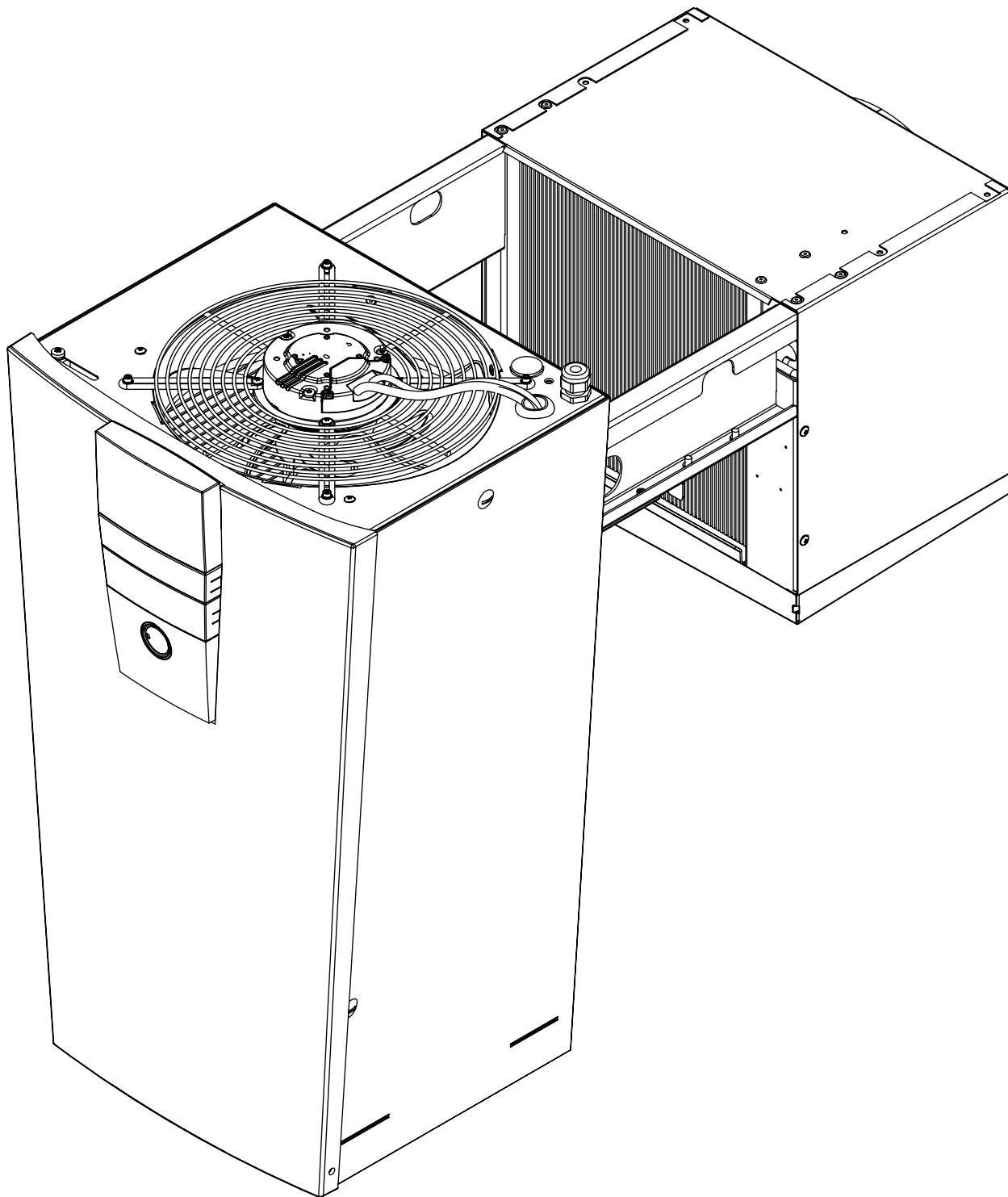


Wall-hanging refrigeration units EVO-COOL®

VIESSMANN

GB

Technical description
Technical document
6008315-01 GB



1. **General notes**
2. **Technical data EVO-COOL® refrigeration units**
3. **Technical data EVO-COOL® deep-freeze units**
4. **Capacity EVO-COOL® refrigeration units**
5. **Capacity EVO-COOL® deep-freeze units**
6. **Dimensions installation size 1**
CS 500, CS 900, CS 1300, CS 1500,
FS 900, FS 1200, FS 1400
7. **Dimensions installation size 2**
CS 2000, CS 2500, CS 3000,
FS 2000, FS 2500, FS 3000
8. **Tendering text EVO-COOL® refrigeration units**
9. **Tendering text EVO-COOL® deep-freeze units**

The Viessmann wall-hanging units **EVO-COOL**[®] are suitable for cooling and deep-freezing (634 - 3020 W) and available in 13 performance categories. **EVO-COOL**[®] is characterized by a low noise, low weight and ease of cleaning by micro-channel heat exchanger. Defrost is carried by hot gas bypass for more energy efficiency. Manufactured according to EN standards, CE-conformity.

- Defroster drain tubing with electrical heating unit
- Defrost water evaporation plate with safety run-off
- Electronic temperature control
- Hot gas defrost
- Condenser with variable speed fan and a microchannel heat exchanger
- Control with text display, self diagnosis, remote maintenance
- Bus operation, USB data transfer and internet connectivity
- Potential-free alarm, audible alarm when faults, with fault memory
- Connection for door contact switch
- Cable with earthing contact plug or CEE socket
- Hermetically sealed condenser with winding protection switch and unloaded start
- Thermostatic expansion valve
- Collector dryer
- Pressure safety monitor, timed defrost by hot gas with safety temperature monitor or air defrosting at coldroom temperature higher than +5 °C (adjustable)
- Pump-out function (activated)
- 5 m cable with earthing contact (CS 0500, 0900, 1300, 1500, 2000)
- 700 mm cable with CEE socket (CS 2500, 3000)

Surfaces

STA = Viessmann Standard white powder coating, galvanized steel coating with antimicrobial Viessmann **SmartProtec**[®] powder coating (similar to RAL 9016).

EST = Austenitic stainless steel (material no. 1.4301) special version, polished or brushed.
- on request

Optional

- Data logger
- filter fabric
- Winter regulation
- Sound-insulated housing design
- Sound-insulated design scroll compressor (only by FS 2000, 2500, 3000)

Designation	CS 500	CS 900	CS 1300	CS 1500
Coldroom temperature adjustment range	-5°C to +20°C	-5°C to +20°C	-5°C to +20°C	-5°C to +20°C
Ambient temperature permissible	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C
Size	1	1	1	1
Cooling capacity (DIN EN 14511)	634 W	1050 W	1350 W	1505 W
Refrigerant	R134a	R134a	R134a	R134a
Refrigerant amount	500 g	650 g	1030 g	1190 g
Control	electronic	electronic	electronic	electronic
Voltage / Phases / Frequency	230 V / 1 / 50 Hz	230 V / 1 / 50 Hz	230 V / 1 / 50 Hz	230 V / 1 / 50 Hz
Nominal consumption / Fuse	334 W / 16 A	567 W / 16 A	660 W / 16 A	720 W / 16 A
Dimensions (H x W x D)	790 x 440 x 1013 mm	790 x 440 x 1013 mm	790 x 440 x 1013 mm	790 x 440 x 1013 mm
Weight	45 kg	54 kg	58 kg	61 kg
Min. exhaust air volume [m ³ /h] at ambient temperature 32 °C and heat increase of 5 K	375 m ³ /h	787 m ³ /h	1332 m ³ /h	1453 m ³ /h
Sound pressure level ¹⁾	24,7 dB (A)	25,4 dB (A)	28,4 dB (A)	27,3 dB (A)
Connection / length of power cable	With earthing contact / 5 m	With earthing contact / 5 m	With earthing contact / 5 m	With earthing contact / 5 m
Protection class	IP 24	IP 24	IP 24	IP 24
Compressor type	Reciprocating piston	Reciprocating piston	Reciprocating piston	Reciprocating piston
Defrosting	Hot gas	Hot gas	Hot gas	Hot gas
Pressostat switch point	Off 18 bar	Off 18 bar	Off 18 bar	Off 18 bar
Pressostat switch point	thermostatic expansion valve	thermostatic expansion valve	thermostatic expansion valve	thermostatic expansion valve
Refrigeration unit with control Item no.	00173900	00173901	00173902	00173903
Refrigeration unit with remote control 7,5 m - Item no.	00199560	00199561	00199562	00199563
Refrigeration unit with remote control 15 m - Item no.	00199580	00199581	00199582	00199583
Refrigeration unit with bus operation - Item no.	00173380	00173381	00173382	00173383

1) Level of sound pressure measurements taken at a distance of 10 m during ambient temperature 25°C. Depending on local conditions and installation, values can be reached above the levels given.

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Designation	CS 2000	CS 2500	CS 3000
Coldroom temperature adjustment range (°C)	-5°C to +20°C	-5°C to +20°C	-5°C to +20°C
Ambient temperature permissible	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C
Size	2	2	2
Cooling capacity (DIN EN 14511)	2035 W	2440 W	3010 W
Refrigerant	R134a	R134a	R134a
Refrigerant amount	1300 g	1650 g	1700 g
Control	electronic	electronic	electronic
Voltage / Phases / Frequency	230 V / 1 / 50 Hz	400 V / 3 / 50 Hz	400 V / 3 / 50 Hz
Nominal consumption / Fuse	1050 W / 16 A	1170 W / 16 A	1300 W / 16 A
Dimensions (H x W x D)	996 x 640 x 1239 mm	996 x 640 x 1239 mm	996 x 640 x 1239 mm
Weight	105 kg	107 kg	109 kg
Min. exhaust air volume [m ³ /h] at ambient temperature 32 °C and heat increase of 5 K	1635 m ³ /h	2059 m ³ /h	2967 m ³ /h
Sound pressure level ¹⁾	33,4 dB (A)	39,9 dB (A)	37,4 dB (A)
Connection / length of power cable	With earthing contact / 5 m	CEE / 0,7 m	CEE / 0,7 m
Protection class	IP 24	IP 24	IP 24
Compressor type	Reciprocating piston	Reciprocating piston	Reciprocating piston
Defrosting	Hot gas	Hot gas	Hot gas
Pressostat switch point	Off 18 bar	Off 18 bar	Off 18 bar
Pressostat switch point	thermostatic expansion valve	thermostatic expansion valve	thermostatic expansion valve
Refrigeration unit with control Item no.	00173904	00173905	00173906
Refrigeration unit with remote control 7,5 m - Item no.	00199564	00199565	00199566
Refrigeration unit with remote control 15 m - Item no.	00199584	00199585	00199586
Refrigeration unit with bus operation - Item no.	00173384	00173385	00173386

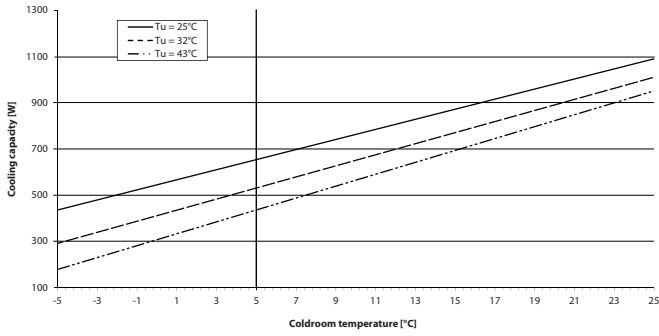
Designation	FS 900	FS 1200	FS 1400
Coldroom temperature adjustment range	-5°C to -25°C	-5°C to -25°C	-5°C to -25°C
Ambient temperature permissible	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C
Size	1	1	1
Cooling capacity (DIN EN 14511)	940 W	1250 W	1410 W
Refrigerant	R404A	R404A	R404A
Refrigerant amount	690 g	760 g	950 g
Control	electronic	electronic	electronic
Voltage / Phases / Frequency	230 V / 1 / 50 Hz	230 V / 1 / 50 Hz	230 V / 1 / 50 Hz
Nominal consumption / Fuse	820 W / 16 A	1145 W / 16 A	1279 W / 16 A
Dimensions (H x W x D)	790 x 440 x 1013 mm	790 x 440 x 1013 mm	790 x 440 x 1013 mm
Weight	68 kg	73 kg	75 kg
Min. exhaust air volume [m ³ /h] at ambient temperature 32 °C and heat increase of 5 K	969 m ³ /h	1332 m ³ /h	1635 m ³ /h
Sound pressure level ¹⁾	31,9 dB (A)	31,9 dB (A)	34,8 dB (A)
Connection / length of power cable	with earthing contact / 5 m	with earthing contact / 5 m	with earthing contact / 5 m
Protection class	IP 24	IP 24	IP 24
Compressor type	Reciprocating piston	Reciprocating piston	Reciprocating piston
Defrosting	Hot gas	Hot gas	Hot gas
Pressostat switch point	Off 28 bar	Off 28 bar	Off 28 bar
Pressostat switch point	thermostatic expansion valve	thermostatic expansion valve	thermostatic expansion valve
Refrigeration unit with control Item no.	00173907	00173909	00173908
Refrigeration unit with remote control 7,5 m - Item no.	00199567	00199568	00199569
Refrigeration unit with remote control 15 m - Item no.	00199587	00199588	00199589
Refrigeration unit with bus operation - Item no.	00173387	00173388	00173389

1) Level of sound pressure measurements taken at a distance of 10 m during ambient temperature 25°C.
Depending on local conditions and installation, values can be reached above the levels given.

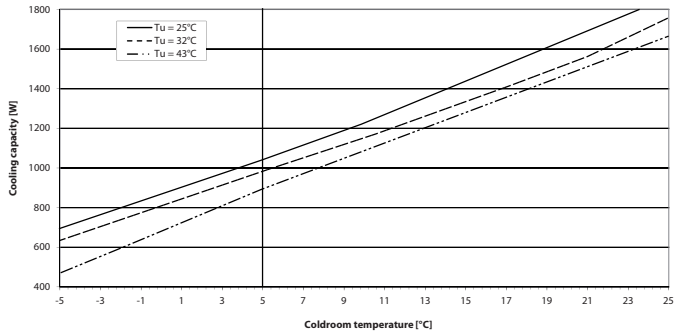
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Designation	FS 2000	FS 2500	FS 3000
Coldroom temperature adjustment range	-5°C to -25°C	-5°C to -25°C	-5°C to -25°C
Ambient temperature permissible	+1°C to +43°C	+1°C to +43°C	+1°C to +43°C
Size	2	2	2
Cooling capacity (DIN EN 14511)	1990 W	2490 W	3020 W
Refrigerant	R404A	R404A	R404A
Refrigerant amount	1500 g	1800 g	1800 g
Control	electronic	electronic	electronic
Voltage / Phases / Frequency	400 V / 3 / 50 Hz	400 V / 3 / 50 Hz	400 V / 3 / 50 Hz
Nominal consumption / Fuse	1660 W / 16 A	2043 W / 16 A	2496 W / 16 A
Dimensions (H x W x D)	996 x 640 x 1239 mm	996 x 640 x 1239 mm	996 x 640 x 1239 mm
Weight	105 kg	109 kg	111 kg
Min. exhaust air volume [m ³ /h] at ambient temperature 32 °C and heat increase of 5 K	1937 m ³ /h	2119 m ³ /h	3209 m ³ /h
Sound pressure level ¹⁾	35,8 dB (A)	37,8 dB (A)	37,5 dB (A)
Connection / length of power cable	CEE / 0,7 m	CEE / 0,7 m	CEE / 0,7 m
Protection class	IP 24	IP 24	IP 24
Compressor type	Scroll	Scroll	Scroll
Defrosting	Hot gas	Hot gas	Hot gas
Pressostat switch point	Off 28 bar	Off 28 bar	Off 28 bar
Pressostat switch point	thermostatic expansion valve	thermostatic expansion valve	thermostatic expansion valve
Refrigeration unit with control Item no.	00173910	00173911	00173912
Refrigeration unit with remote control 7,5 m - Item no.	00199570	00199571	00199572
Refrigeration unit with remote control 15 m - Item no.	00199580	00199591	00199582
Refrigeration unit with bus operation - Item no.	00173390	00173391	00173392

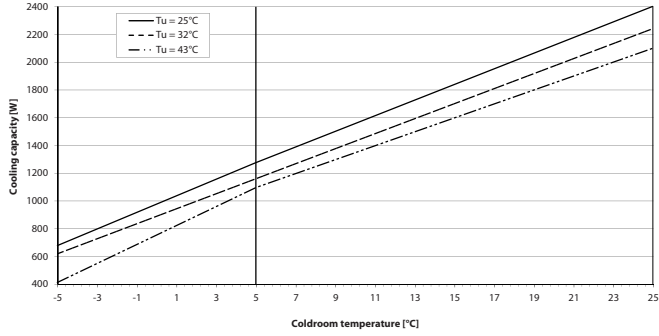
EVO-COOL® CS 500



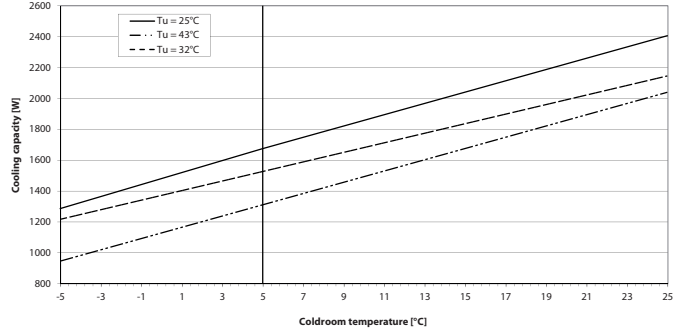
EVO-COOL® CS 900



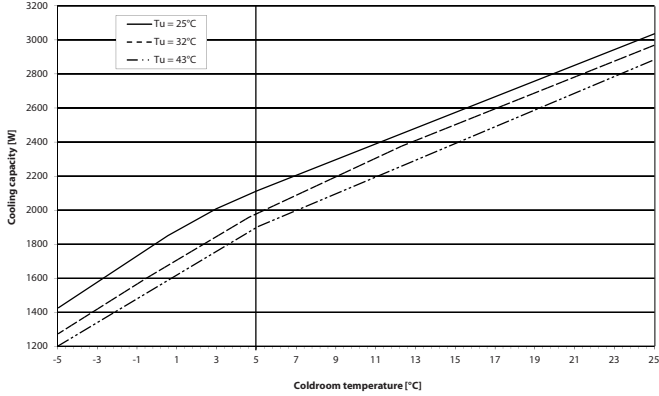
EVO-COOL® CS 1300



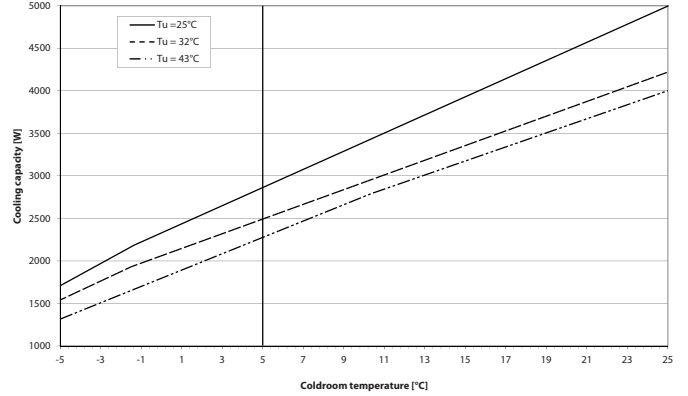
EVO-COOL® CS 1500



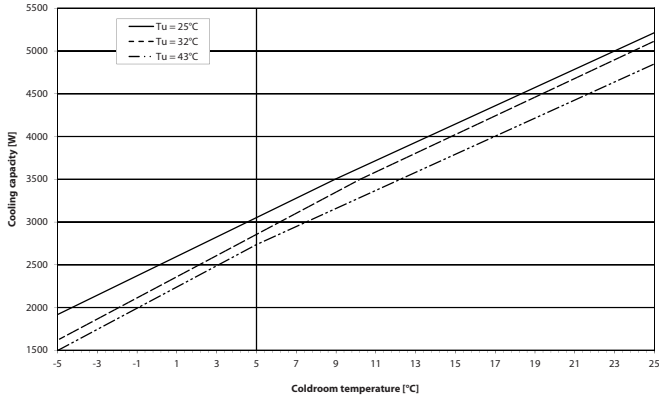
EVO-COOL® CS 2000



EVO-COOL® CS 2500

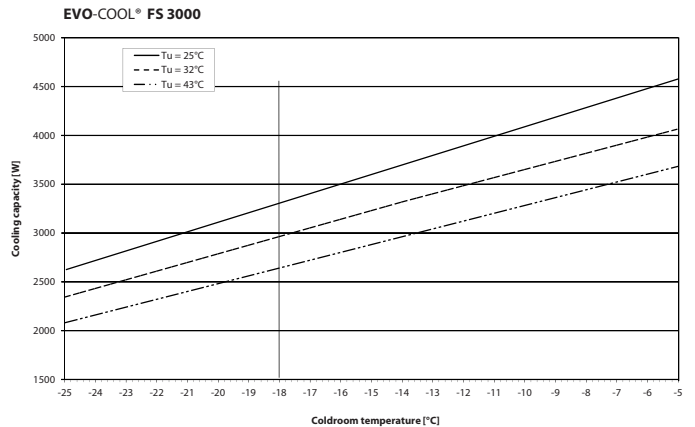
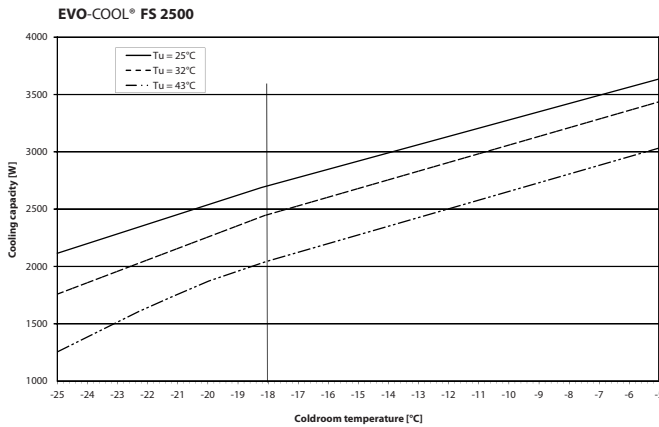
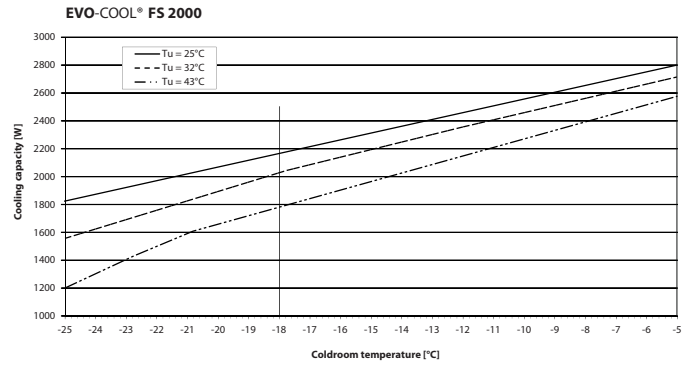
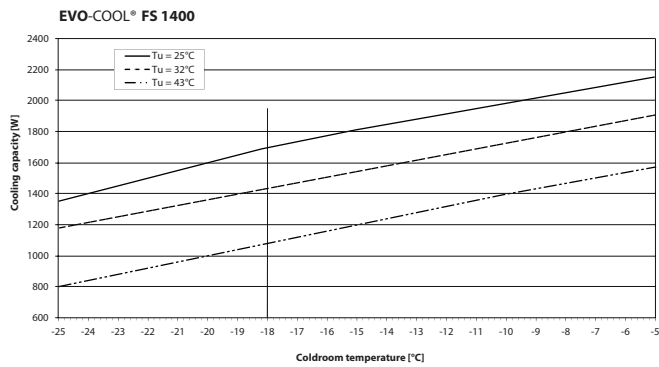
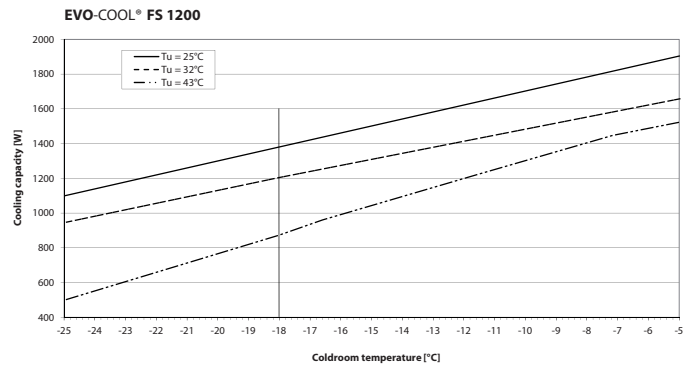
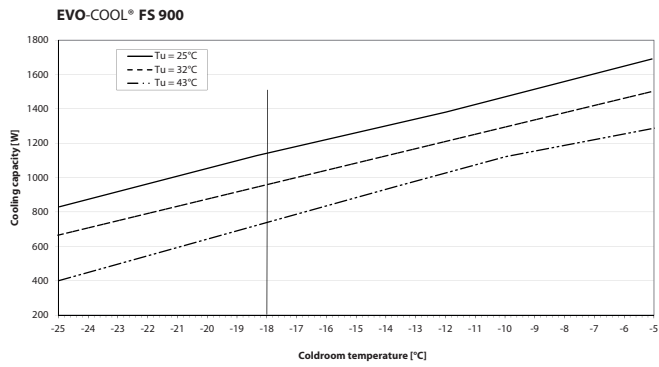


EVO-COOL® CS 3000



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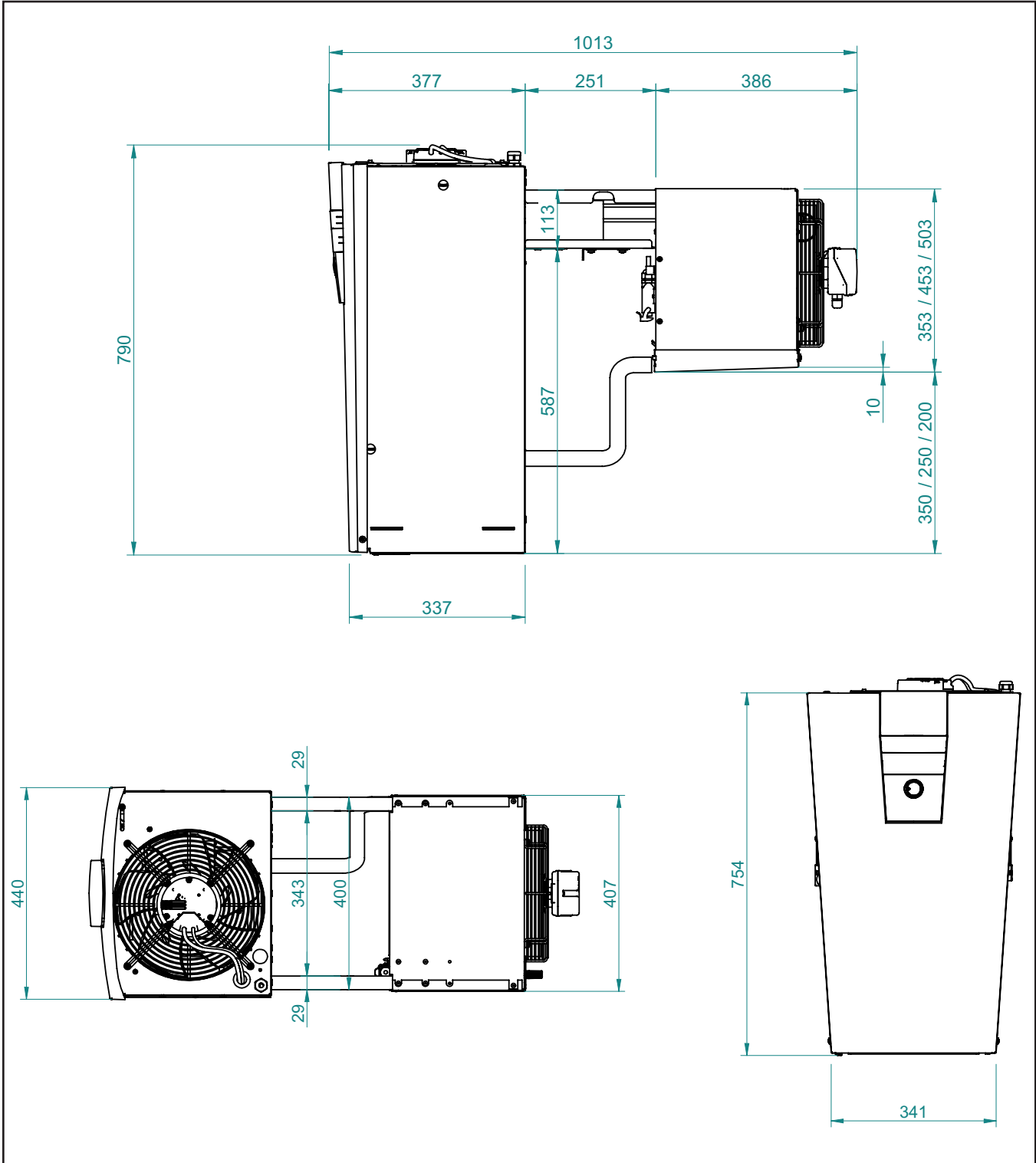
5. Capacity EVO-COOL® deep-freeze units



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6. Dimensions installation size 1
 CS 500, CS 900, CS 1300, CS 1500,
 FS 900, FS 1200, FS 1400

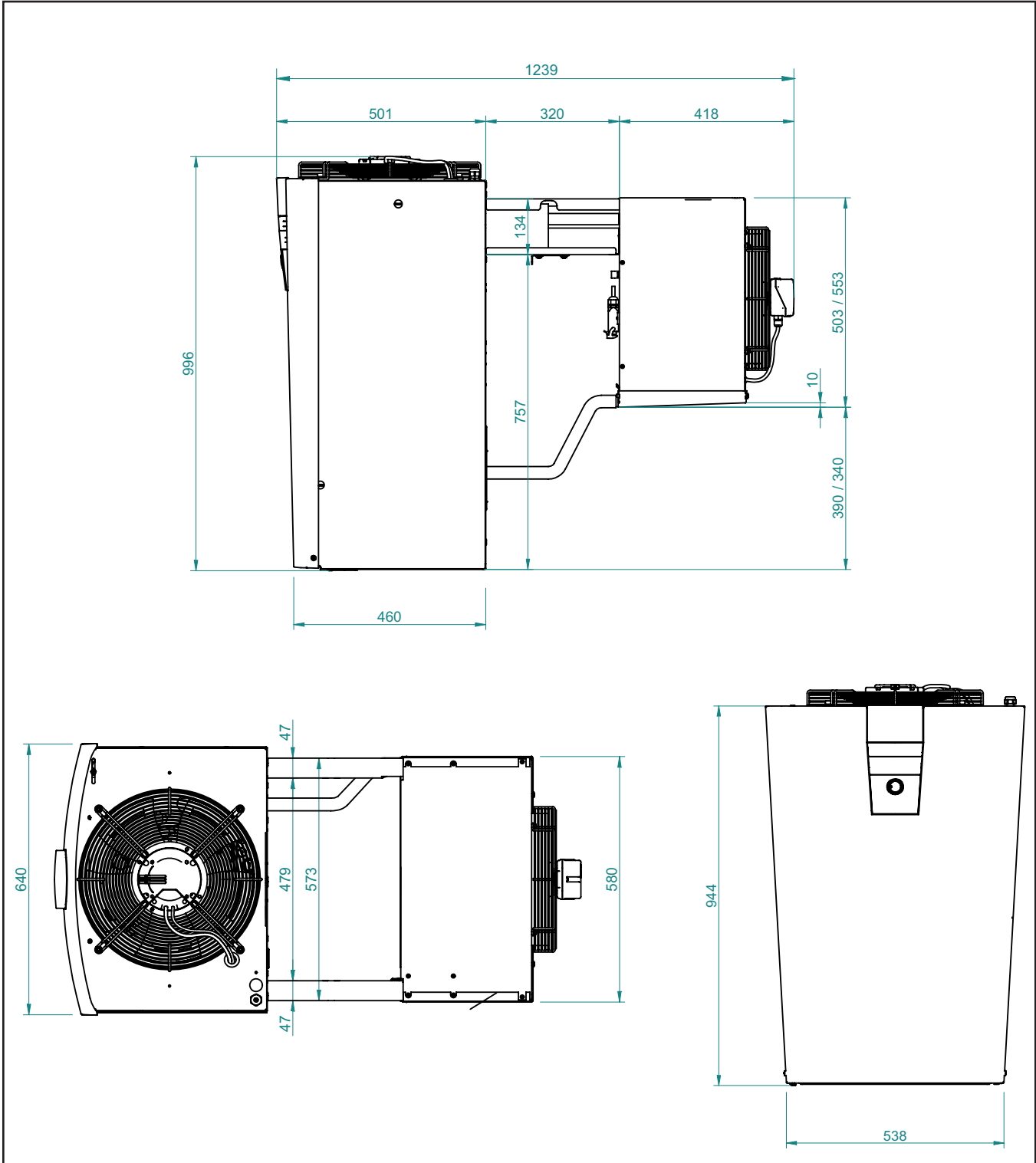
	CS 500	CS 900	CS 1300	CS 1500	FS 900	FS 1200	FS 1400
Evaporator height (mm)	353	353	453	503	353	453	503



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7. Dimensions installation size 2 CS 2000, CS 2500, CS 3000, FS 2000, FS 2500, FS 3000

	CS 2000	CS 2500	CS 3000	FS 2000	FS 2500	FS 3000
Evaporator height (mm)	503	553	553	503	553	553



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Item No.	Number	Description	Unit Price	Total Price
		<p>Refrigeration units EVO-COOL® CS</p> <p>Compact, plug-in refrigeration unit for coldroom temperatures from -5°C bis +20°C</p> <p>Surfaces STA= Viessmann Standard white powder coating, galvanized steel coating with antimicrobial Viessmann SmartProtec® powder coating (similar to RAL 9016). EST= Austenitic stainless steel (1.4301) - Special design polished or brushed - on request</p> <p>Scope of delivery and delivery state: Stable housing for attaching to a coldroom element or a wall with a thickness from 60 to 150 mm. Axial fans with grid, Defroster drain tubing with electrical heating unit, Defrost water evaporation plate with safety run-off, Electronic temperature control, Hot gas defrost, Condenser with variable speed fan and a microchannel heat exchanger. Control with text display, self diagnosis, remote maintenance, Bus operation, USB data transfer and internet connectivity. Potential-free alarm, audible alarm when faults, with fault memory, Connection for door contact switch, Cable with earthing contact plug or CEE socket. Optional: Data logger, Filter fabric, Winter regulation, Sound-insulated housing design.</p> <p>Complete refrigeration equipment consisting of: Hermetically sealed condenser with winding protection switch and unloaded start, Thermostatic expansion valve, Collector dryer, Pressure safety monitor, timed defrost by hot gas with safety temperature monitor or air defrosting at coldroom temperature higher than +5 °C (adjustable), Pump-out function (activated), 5 m cable with earthing contact (CS 0500, 0900; 1300, 1500, 2000), 700 mm cable with CEE socket (CS 2500, 3000), Refrigerant R 134a.</p> <p>Cooling capacity at coldroom temperature +5°C and temperature ambient +32°C: _____ Watt Cooling temperature range: -5°C to +20°C Admissible ambient temperature: +1°C to +43°C Power supply: AC 230 Volt ~, 50 Hz bei CS 500, 900, 1300, 1500, 2000 AC 400 Volt 3N~, 50 Hz bei CS 2500, 3000</p> <p>Power consumption Cooling: _____ Watt Defrosting: _____ Watt</p> <p>Current consumption Cooling: _____ Ampere Defrosting: _____ Ampere</p> <p>Dimensions (height x width x depth) 790 x 440 x 1013 mm at CS 0500, 0900, 1300, 1500 996 x 640 x 1239 mm at CS 2000, 2500, 3000</p> <p>Weight: _____ kg</p>		

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Your responsible refrigeration service: