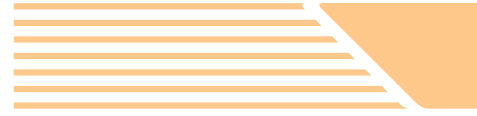


CLIMATE CONTROL SOLUTION



Product catalog

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• Technical and assembly drawings	8
Cooling units	14
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Filter fans

Forced ventilation fans maintain the correct temperature inside the cabinet by exchanging heated inside air for cool outside air.



Rapid installation - mounting without screws by pressing it into the enclosure.



Slide opening - cover fixed to and released from base via sliding catches.



Operational safety - replace the filter membrane from the outside without tools.

ADVANTAGES

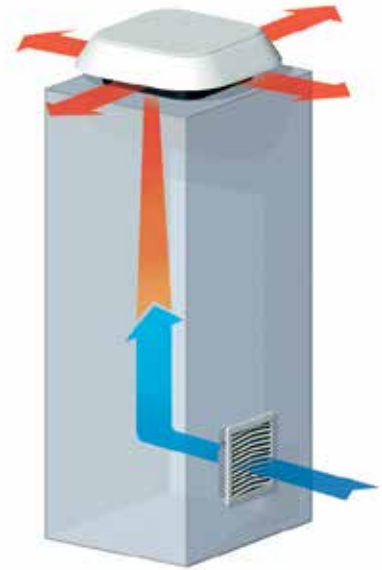
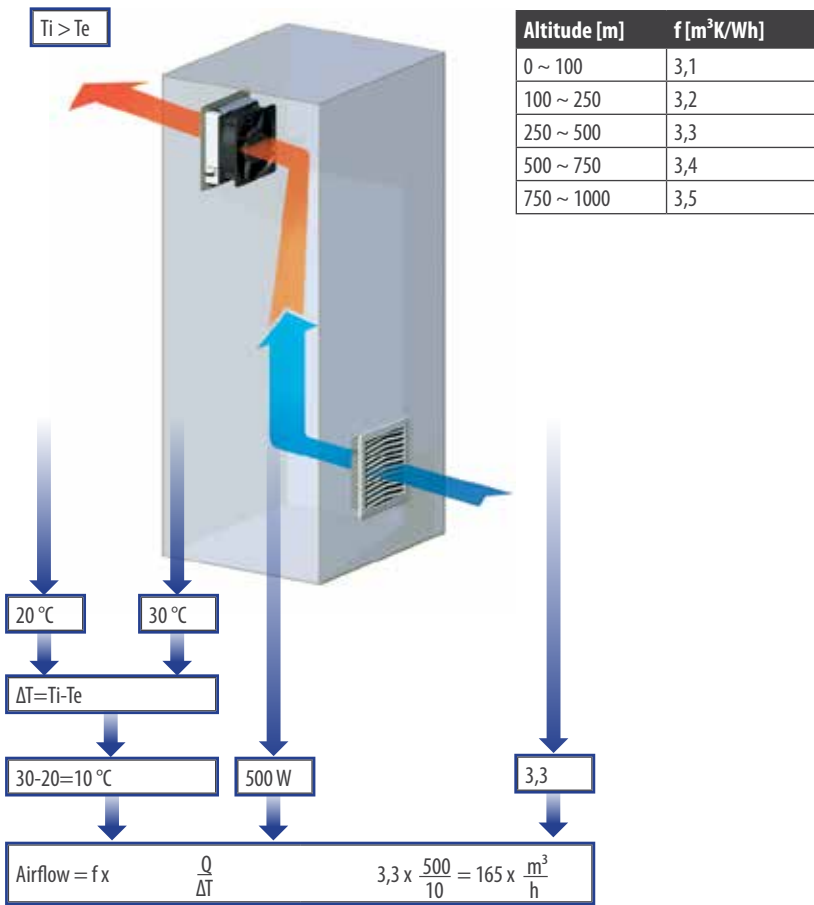
- Mount without screws into square openings using elastic clips
- Replace the filter membrane from the outside without tools
- Reversible airflow direction
- Airflow up to 800 m³/h
- Installation for plate thickness between 1mm up to 2mm
- Standard protection degree IP 54
- Wall and top mounting options
- Operational temperature range from -10 °C to +70 °C
- Permanent sealing gasket in polyurethane foam
- UV protection

TECHNICAL SPECIFICATION

- Material made with plastic parts (ABS/PC); all parts are made out of self-extinguishing material according to UL 94V-0
- Standard color: RAL 7035 (other colors available upon request)
- Filter media in thermo-linked progressive structure synthetic fiber – filter class G3 according to EN 779; filter class G4 according to EN 779 and UL 900; class 2 approved and self-extinguishing in F1 class according to DIN 53 438
- Filter mats are washable
- Shielded and self-lubricating ball-bearing fans
- Standard protection degree: IP54 according to EN 60529, and NEMA 12 according to UL 50
- IP55 on request (according to EN 60529)
- IP56 by using hose-proof cover
- EMC version available upon request

SIZING

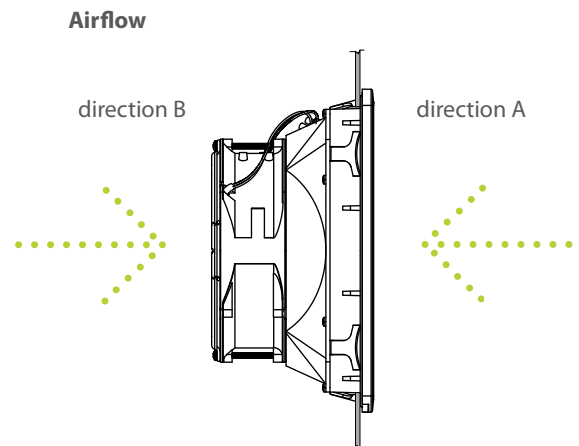
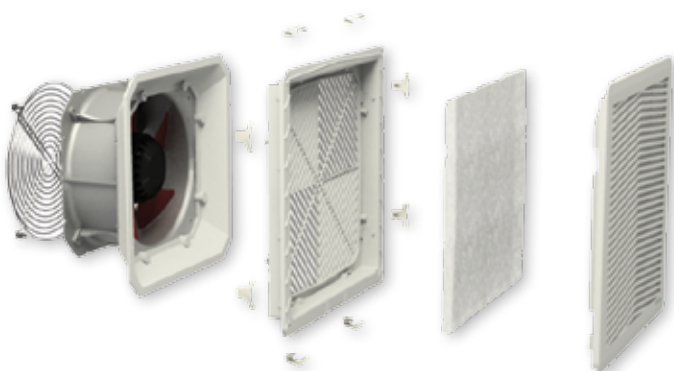
When we use fan filters, we must have a target temperature inside the cabinet that is greater than the ambient temperature outside the cabinet (T_e), which makes the difference (ΔT) between the inside and outside temperatures always positive. We can calculate the fan-filtered airflow by taking the ratio between the thermal power (Q) and the temperature difference (ΔT) and multiply that by the heat transfer coefficient (f), which considers the physical properties of air, including heat and density which can change with altitude (m).



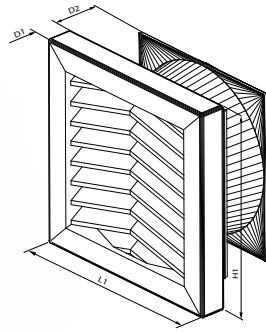
- T_i = target temperature inside the cabinet
- T_e = ambient temperature outside the cabinet
- ΔT = temperature difference between the inside and outside of the cabinet
- Q = active thermal load inside the cabinet
- f = heat transfer coefficient

RECOMMENDATIONS FOR INSTALLATION

The filter fan unit should be placed in the lower part of the enclosure to allow the cool air to enter into the enclosure and form a slight overpressure. This means that air flows into the enclosure through the filter fan unit without any dirt/dust and removes warm air from the enclosure through the outlet filter grid. If the filter fan unit is installed in the opposite direction, dust and dirt can enter into the enclosure along with cool air. The filter fan unit should be placed in the bottom third of the cabinet and the outlet filter grid should be placed as high as possible. This will prevent the accumulation of warm air in the upper part of the enclosure.



Filter fans



Specifications:

- Material: PC/ABS Alloy, PA 66 GH13 HSL for elastic clips
- Color: RAL 7035
- Protection degree: IP54 (IP55 using special filter mats, IP56 using hose-proof cover)
- Fixing system: by elastic clips, otherwise by four self-threading screws
- Type of filter media: thermo-linked progressive structure with synthetic fiber
- Filtering class: G3, according to EN 779
- Dust retention capacity: 600 g/m²
- Airflow direction: reversible
- Filter media can be washed up to about 10 times

Supply includes:

Unit with filter mat ready for connection.

Filter fans, airflow 12 - 100 m³/h

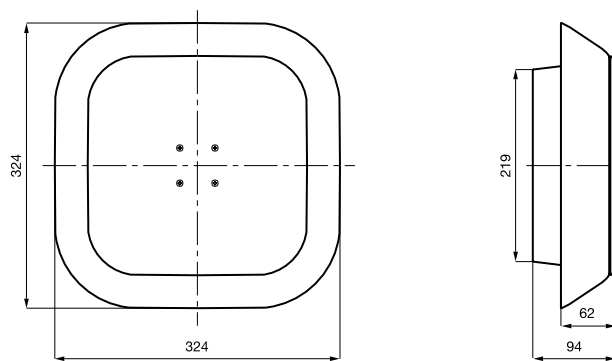
Order code		ID-EF-01-4	ID-EF-01-1	ID-EF-04-4	ID-EF-04-1	ID-EF-10-4	ID-EF-10-1
Dimensions in mm	H1	106,5	106,5	150	150	203,9	203,9
	L1	106,5	106,5	150	150	203,9	203,9
	D1	6,7	6,7	7,7	7,7	8	8
Max. installation depth in mm	D2	59,9	46,9	65,5	65,3	87,5	87,3
Voltage/Frequency		230 V, 50/60 Hz	24 V DC	230 V, 50/60 Hz	24 V DC	230 V, 50/60 Hz	24 V DC
Rated current		62/50 mA	85 mA	110/100 mA	310 mA	106/100 mA	342 mA
Rated power		10/8,0 W	2,0 W	18/17 W	7,4 W	18/18 W	8,2 W
Max. airflow		12/15 m³/h	15 m³/h	45/50 m³/h	47 m³/h	100/110 m³/h	100 m³/h
Static pressure		23/33 Pa	25 Pa	55/62 Pa	56 Pa	55/60 Pa	60 Pa
Fan noise		31/33 dB(A)	30 dB(A)	48/51 dB(A)	42,5 dB(A)	48/54 dB(A)	42 dB(A)
Weight		0,39 kg	0,39 kg	0,76 kg	0,45 kg	0,96 kg	0,64 kg
Lifetime		50 000 h	100 000 h	57 000 h	50 000 h	57 000 h	50 000 h
Rated temperature range		-10 °C to +55 °C	-10 °C to +55 °C	-10 °C to +55 °C	-10 °C to +55 °C	-10 °C to +55 °C	-10 °C to +55 °C
Cutout		91,5x91,5 mm	91,5x91,5 mm	125x125 mm	125x125 mm	177x177 mm	177x177 mm
Outlet filter grid	Order code	ID-EF-01	ID-EF-01	ID-EF-03	ID-EF-03	ID-EF-05	ID-EF-05
Accessories		Package					
Spare filter mats IP54	5 pcs	ID-EF-F01	ID-EF-F01	ID-EF-F03	ID-EF-F03	ID-EF-F05	ID-EF-F05
Spare filter mats IP55	5 pcs	—	—	—	—	ID-EF-F5505	ID-EF-F5505
Hose-proof cover	1 pc	ID-EF-C01	ID-EF-C01	ID-EF-C03	ID-EF-C03	ID-EF-C05	ID-EF-C05
Plastic adaptors	1 pc	—	—	ID-EF-A03	ID-EF-A03	—	—

Filter fans, airflow 230 - 710 m³/h

Order code		ID-EF-23-4	ID-EF-22-1	ID-EF-52-4	ID-EF-71-4
Dimensions in mm	H1	250	250	325	325
	L1	250	250	325	325
	D1	8,9	8,9	9,5	9,5
Max. installation depth in mm	D2	115,3	116,5	150,7	149
Voltage/Frequency		230 V, 50/60 Hz	24 V DC	230 V, 50/60 Hz	230 V, 50/60 Hz
Rated current		134/160 mA	710 mA	318/381 mA	650/820 mA
Rated power		32/36 W	17 W	73/87 W	150/190 W
Max. airflow		230/270 m³/h	225 m³/h	520/580 m³/h	710/800 m³/h
Static pressure		115/155 Pa	99 Pa	160/185 Pa	195/205 Pa
Fan noise		50/55 dB(A)	58 dB(A)	65,3/68,1 dB(A)	72,8/75,8 dB(A)
Weight		1,5 kg	1,4 kg	3,1 kg	4,25 kg
Lifetime		80 000 h	100 000 h	65 000 h	70 000 h
Rated temperature range		-10 °C to +55 °C	-10 °C to +55 °C	-10 °C to +70 °C	-10 °C to +60 °C
Cutout		224x224 mm	224x224 mm	292x292 mm	292x292 mm
Outlet filter grid	Order code	ID-EF-07	ID-EF-07	ID-EF-09	ID-EF-09
Accessories		Package			
Spare filter mats IP54	5 pcs	ID-EF-F07	ID-EF-F07	ID-EF-F09	ID-EF-F09
Spare filter mats IP55	5 pcs	ID-EF-F5507	ID-EF-F5507	ID-EF-F5509	ID-EF-F5509
Hose-proof cover	1 pc	ID-EF-C07	ID-EF-C07	ID-EF-C09	ID-EF-C09
Plastic adaptors	1 pc	ID-EF-A07	ID-EF-A07	ID-EF-A09	ID-EF-A09

EMC version and other input voltage options available upon request.

Roof exhaust units



Specification:

- Material: plastic parts in PC/ABS Alloy and aluminum
- Color: RAL 7035
- Protection degree: IP54/IP55
- Fixing system: mounting by nr. 8 \varnothing 4x16 mm screws
- Type of filter media: thermo-linked progressive structure with synthetic fiber
- Filtering class: G3, according to EN 779
- Dust retention capacity: 380 g/m²
- Filter media can be washed up to about 10 times

Supply includes:

- Unit ready for connection.

Roof exhaust unit, airflow 420 m ³ /h		
Order code	ID-EFT-42-4	
Dimensions in mm	H	324
	L	324
	D	94
Voltage/Frequency	230 V, 50/60 Hz	
Rated current	309/360 mA	
Rated power	70/83 W	
Max. airflow	420/490 m³/h	
Protection degree	IP54	
Static pressure	340/480 Pa	
Fan noise	67,9/71 dB(A)	
Weight	2,1 kg	
Lifetime	59 000/ 73 000 h	
Rated temperature range	-10 °C to +60 °C	
Cutout	175x175 mm	
Outlet filter grid	Order code	ID-EF-09*
Accessories		Package
Spare filter mats IP54	1 pc	ID-EFT-F

*Technical drawings of outlet filter grid are on page 12.
Other input voltage options available upon request.

Accessories

HOSE-PROOF COVER

Specifications:

- Material: AISI 304 stainless steel
- Protection degree: IP56

Supply includes:

Assembly parts.

For filter fan units	Package	Order code
ID-EF-01	1 pc	ID-EF-C01
ID-EF-04	1 pc	ID-EF-C03
ID-EF-10	1 pc	ID-EF-C05
ID-EF-22/23	1 pc	ID-EF-C07
ID-EF-52/71	1 pc	ID-EF-C09



PLASTIC ADAPTORS

Specifications:

- Material: plastic parts in ABS/PC
- Color: RAL 7035

Supply includes:

Assembly parts.

For filter fan units	Package	Order code
ID-EF-04	1 pc	ID-EF-A03
ID-EF-22/23	1 pc	ID-EF-A07
ID-EF-52/71	1 pc	ID-EF-A09



OUTLET FILTER GRID

Specifications:

- Material: PC/ABS Alloy, PA 66 GH13 HSL for elastic clips
- Color: RAL 7035
- Protection degree: IP54/IP55

Supply includes:

Unit ready for mounting.

For filter fan units	Package	Order code
ID-EF-01	1 pc	ID-EF-01
ID-EF-04	1 pc	ID-EF-03
ID-EF-10	1 pc	ID-EF-05
ID-EF-22/23	1 pc	ID-EF-07
ID-EF-52/71	1 pc	ID-EF-09



SPARE FILTER MATS IP54/IP55

Specifications:

- Material: thermo-linked progressive structure with synthetic fiber
- Protection degree: IP54/IP55

For filter fan units	Protection degree	Package	Order code
ID-EF-01	IP54	5 pcs	ID-EF-F01
ID-EF-04	IP54	5 pcs	ID-EF-F03
ID-EF-10	IP54	5 pcs	ID-EF-F05
ID-EF-22/23	IP54	5 pcs	ID-EF-F07
ID-EF-52/71	IP54	5 pcs	ID-EF-F09
ID-EF-10	IP55	5 pcs	ID-EF-F5505
ID-EF-22/23	IP55	5 pcs	ID-EF-F5507
ID-EF-52/71	IP55	5 pcs	ID-EF-F5509



THERMOSTAT FOR COOLING AND HEATING

Specifications:

- Sensor element: thermostatic bi-metal
- Switching difference (hysteresis) is $7\text{ }^{\circ}\text{C} \pm 3\text{ K}$
- Switching capacity (max. load):
 - 10 A resistive/2 A inductive @ 120 V AC
- Connections: 2-pole terminal for AWG 14 max. (2,5 mm²)
- Mounting: clip for 35 mm DIN rail
- Protection degree: IP20
- Dimensions (HxWxD): 55 x 33 x 43 mm
- Weight: 40 g
- Setting temperature range: 0 °C to + 60 °C

Supply includes:

- Thermostat ready for connection

Thermostat for cooling	
Package	Order code
1 pc	ID-E0-TC

Thermostat for heating	
Package	Order code
1 pc	ID-E0-TH



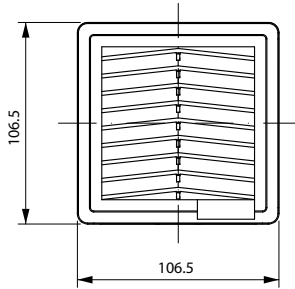
Thermostat for cooling: with normally open contact, when the temperature increases the contact closes, activating the fan to evacuate the heat.

Thermostat for heating: with normally closed contact, when the temperature falls below the setpoint, the contact closes, activating the resistance heater to prevent condensation.

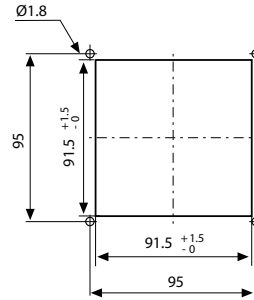
Technical and assembly drawings

FILTER FAN ID-EF-01-x

Dimensions

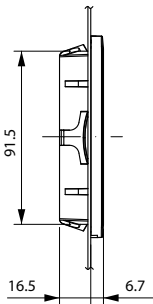


Mounting cutout

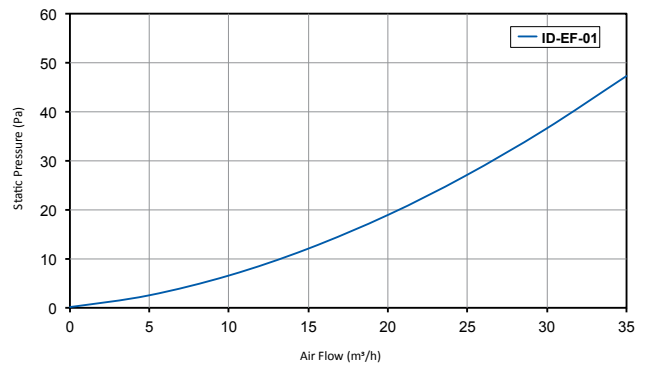


OUTLET FILTER GRID ID-EF-01

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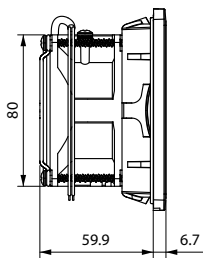


Air flow

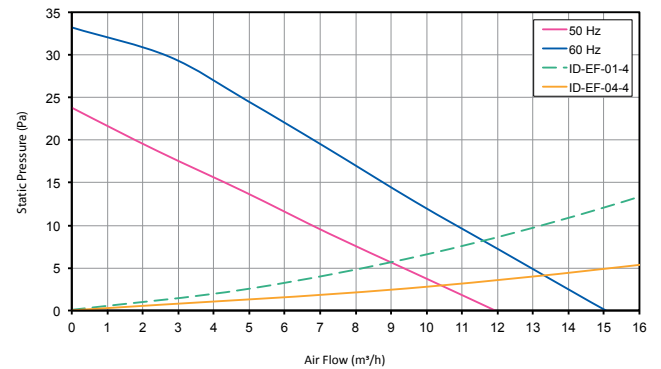


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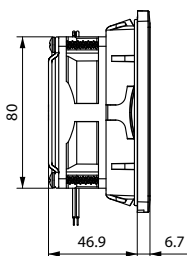


Air flow

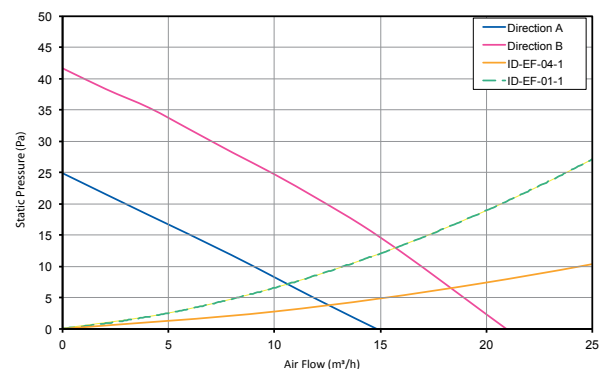


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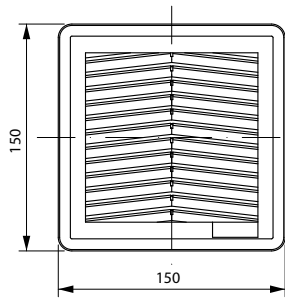
Air flow



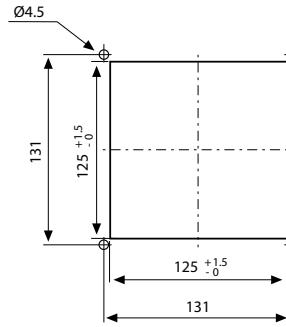
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FILTER FAN ID-EF-04-x

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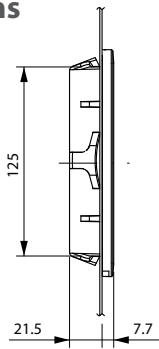


Mounting cutout

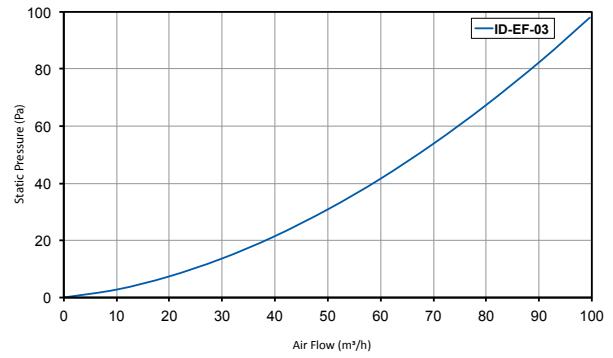


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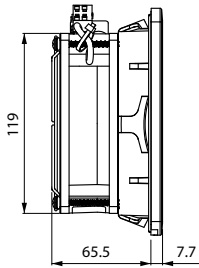


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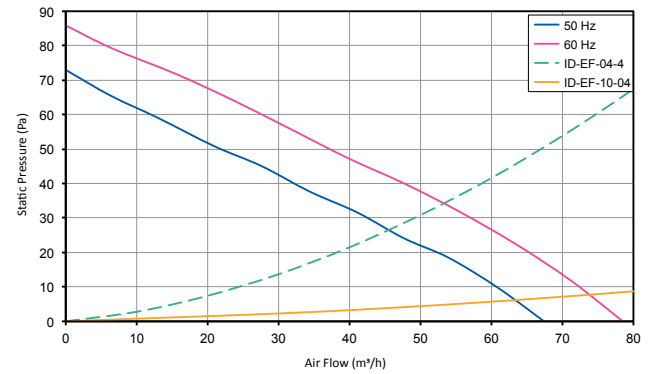


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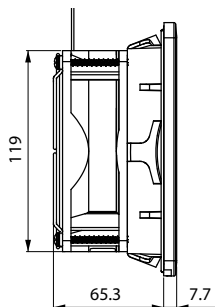


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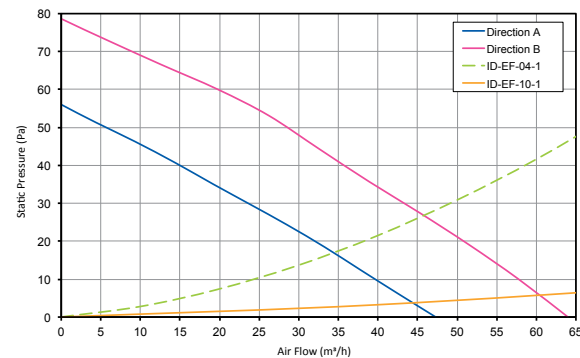


FILTER FAN ID-EF-04-1

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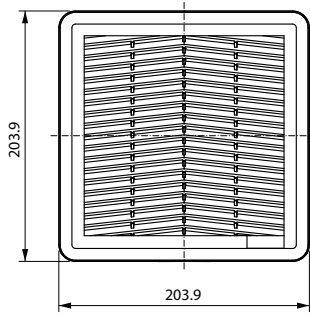
Air flow



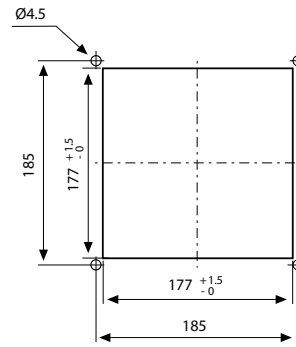
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FILTER FAN ID-EF-10-x

Dimensions

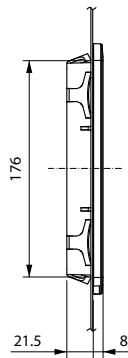


Mounting cutout

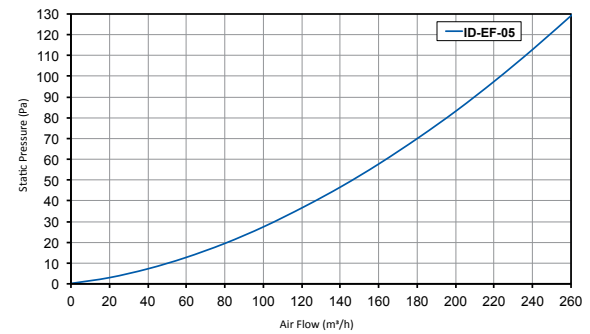


OUTLET FILTER GRID ID-EF-05

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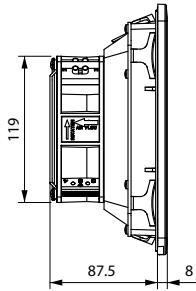


Air flow

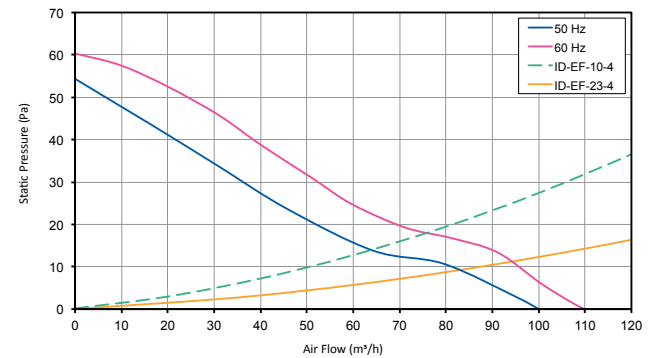


FILTER FAN ID-EF-10-4

Dimensions

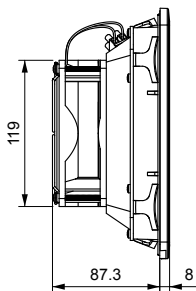


Air flow

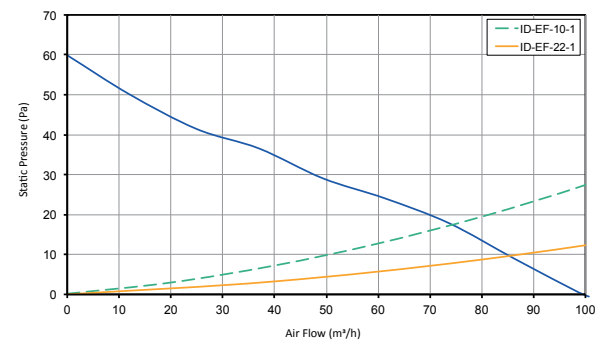


FILTER FAN ID-EF-10-1

Dimensions



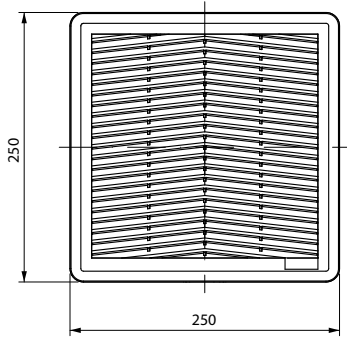
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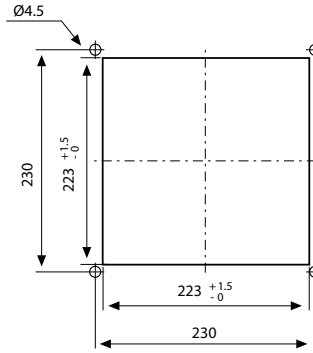
All dimensions are in mm.

FILTER FANS ID-EF-23-4, ID-EF-22-1

Dimensions

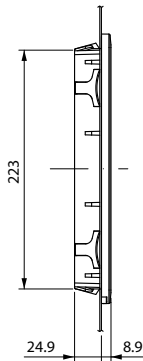


Mounting cutout

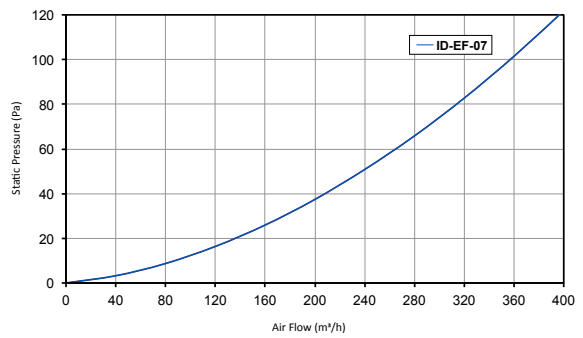


OUTLET FILTER GRID ID-EF-07

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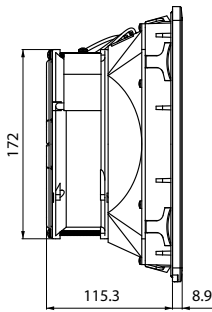


Air flow

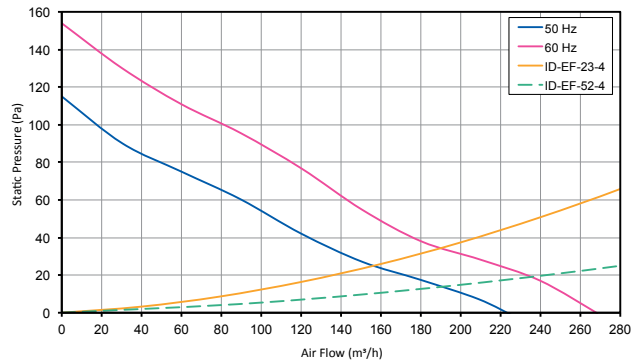


FILTER FAN ID-EF-23-4

Dimensions

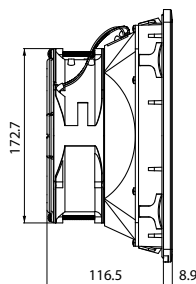


Air flow

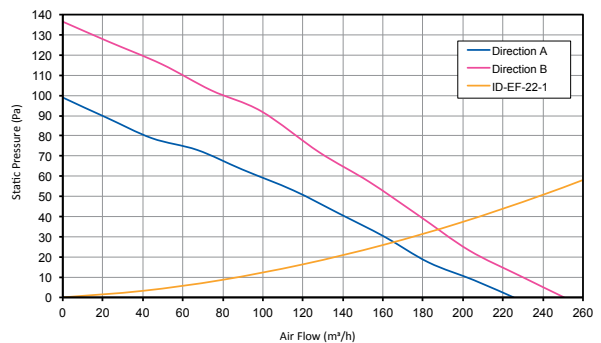


FILTER FAN ID-EF-22-1

Dimensions



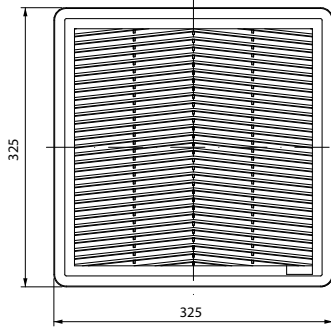
Air flow



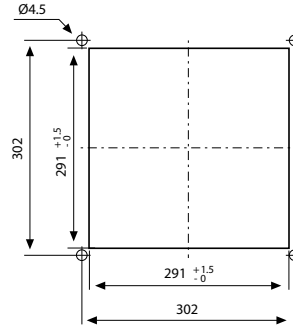
All dimensions are in mm.

FILTER FAN ID-EF-52-4, ID-EF-71-4

Dimensions

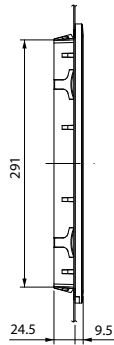


Mounting cutout

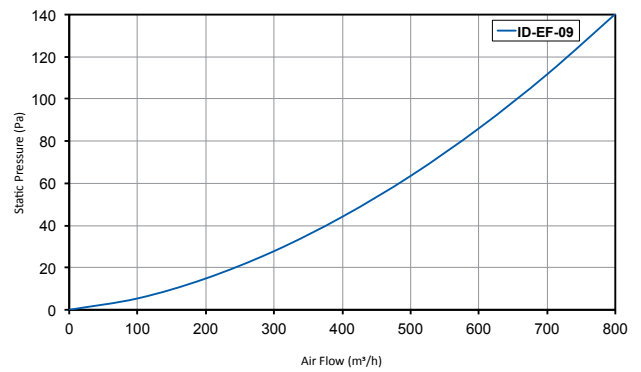


OUTLET FILTER GRID ID-EF-09

Dimensions

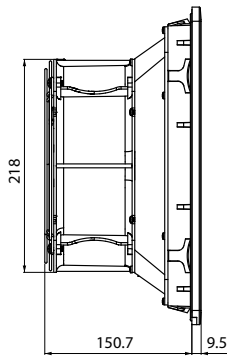


Air flow

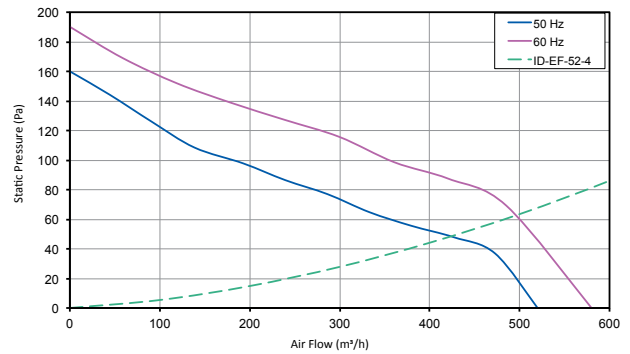


FILTER FAN ID-EF-52-4

Dimensions

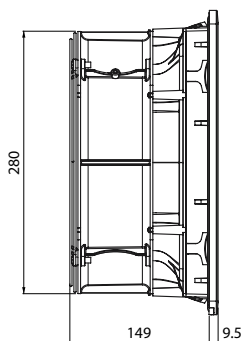


Air flow

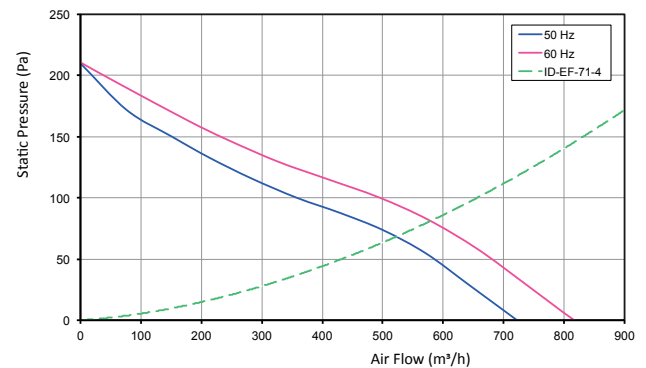


FILTER FAN ID-EF-71-4

Dimensions



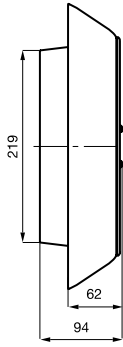
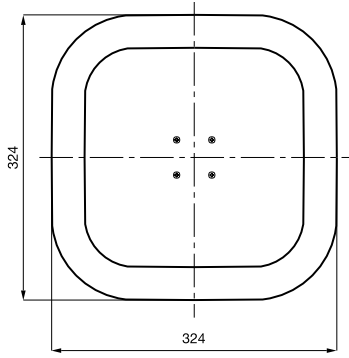
Air flow



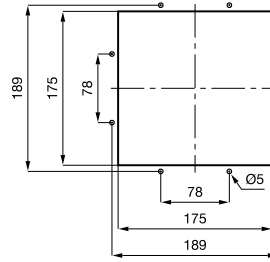
All dimensions are in mm.

ROOF EXHAUST UNITS ID-EFT-42-4

Dimensions

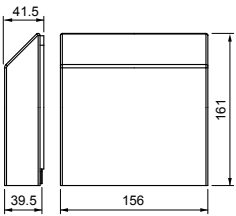


Mounting cutout

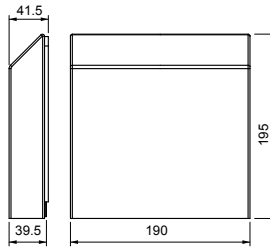


OUTLET FILTER GRID

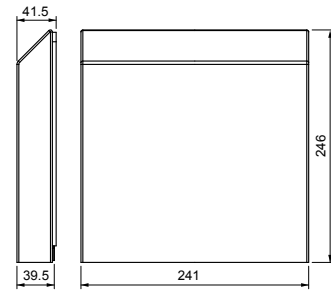
Filter fan ID-EF-01



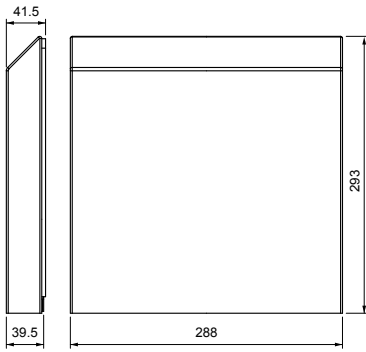
Filter fan ID-EF-04



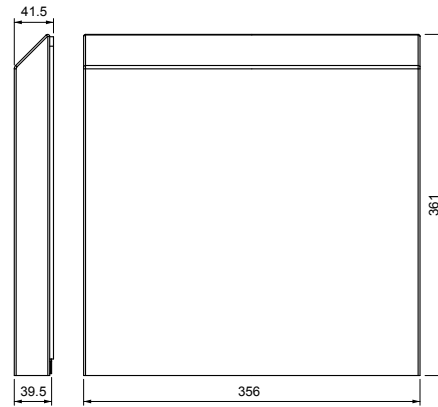
Filter fan ID-EF-10



Filter fan ID-EF-22, ID-EF-23

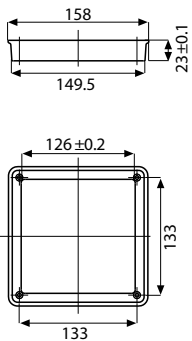


Filter fan ID-EF-52, ID-EF-71

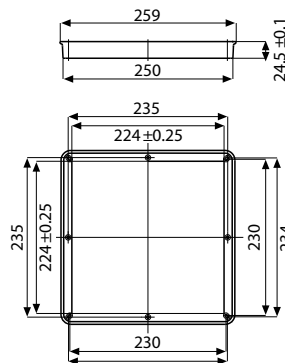


PLASTIC ADAPTORS

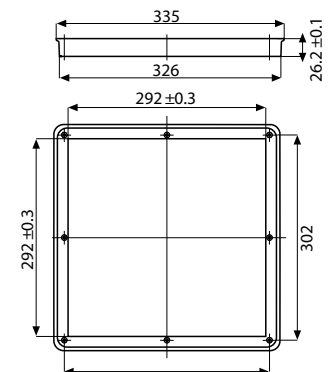
Filter fan ID-EF-04



Filter fan ID-EF-22, ID-EF-23



Filter fan ID-EF-52, ID-EF-71



All dimensions are in mm.

Cooling units

Our cooling units are designed to operate with an absolute minimum need of maintenance. They are environmentally friendly and do not need dirt collecting filter mats. Models are available with a cooling capacity range of 200 W to 2600 W.

ADVANTAGES

- Cooling capacity range from 200 W to 2600 W
- Maintenance-free = no filter mats
- Better performance and reliability thanks to wide-ribbed aluminum condenser
- Environmentally friendly – refrigerant R134a
- Steel sheet/stainless steel housing
- Easy regulation and monitoring
- Fast and easy installation
- High-quality components help these cooling units run smoothly and last for a long time (for example, they come equipped with a Mitsubishi Electric rotary piston compressor)
- Transport units in any position
- Worldwide certification (UL, CUL, CE)

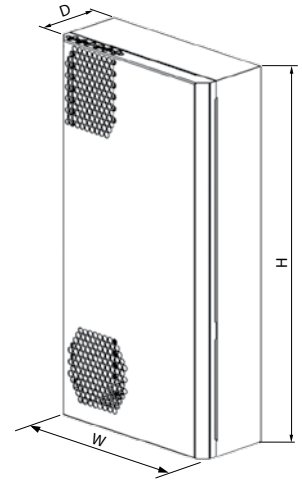
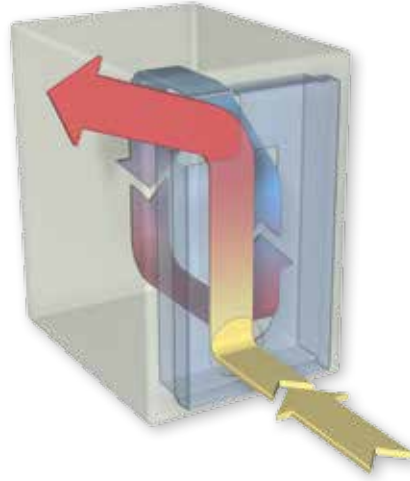
REGULATION AND MONITORING

Each of our cooling unit has a powerful micro-controller that monitors all the important system functions. The introduction of the modern "Flexmaster" control technology has set new standards. „Flexmaster“ allows you to connect cooling units and manage their individual or common settings.

- Easy to install (Plug&Play).
- Flexible temperature strategy: All units in the network usually follow the highest temperature in the row of cabinets. However, "Flexmaster" allows you to customize your setup any way you want.
- Flexible open-door function: Customize your setup so that all the units switch off when door is opened. (Specific applications can also be customized based on the customer's needs)
- Our network system can set the individual temperature for each unit in your network. Temperatures can be set by connecting to the network (there is a single setting for all the units) or directly to the unit (when one or several units are working under different temperature settings in one network).
- This allows units that are cooling a separate/isolated cabinet system to be included in the network. These units could, for example, react to their own temperature situation, while at the same time set off system-wide alarms and take on the cabinet and alarm temperatures of the network.
- Our simplified connection: If the network connection fails on one or several units, the affected unit/units would continue to work as a standalone, while the other units will continue working as a network system.
- Our network system uses an isolated connection, which will protect the units and the network if, for example, a power-surge affects one of the units. The system network will isolate the problem so that the network's other units are not comprised.
- "Flexmaster" has many standard functions, which can, among other things, record the unit's working hours and the number of compressor cycles. Temperatures and any disturbances are stored for 480 hours and can be viewed on a PC or laptop, allowing you to completely monitor your network.



Wall-mounted cooling units SLIM 320 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 29
- Certification: UL, CUL, CE



External mounting



Internal mounting

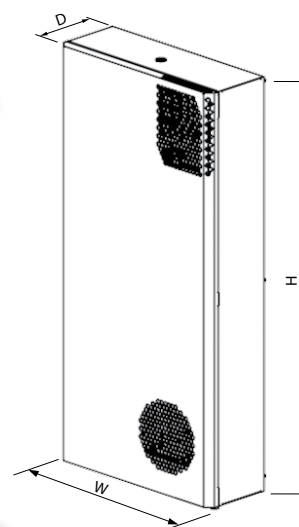
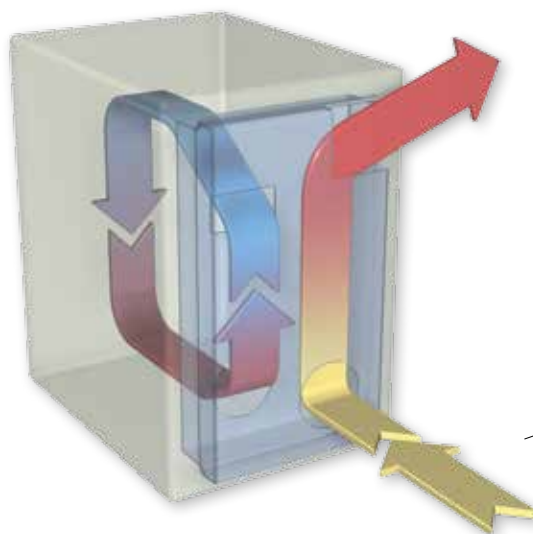
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 320 W			
Order code		AC-WM3-03-4000	AC-WM3-03-4200
Material		Steel sheet	Stainless steel
Dimensions mm	H	520	520
	W	270	270
	D	110	110
Voltage/Frequency		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	320 W	320 W
	L35 L50	140 W	140 W
Power Consumption		L35 L35 320 W	320 W
Max. air volume flow	Ambient air circuit	170 m ³ /h	170 m ³ /h
	Cabinet air circuit	125 m ³ /h	125 m ³ /h
Rated current		1,5 A	1,5 A
Starting current		3,2 A	3,2 A
Pre-Fuse T		6 A	6 A
Operating temperature range		+20 °C to +50 °C	+20 °C to +50 °C
Weight		14 kg	14 kg
Cutout		501 x 251 mm	501 x 251 mm
Compressor		Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals

Other input voltage options available upon request.

Wall-mounted cooling units SLIM 400 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 29
- Certification: UL, CUL, CE



External mounting



Internal mounting

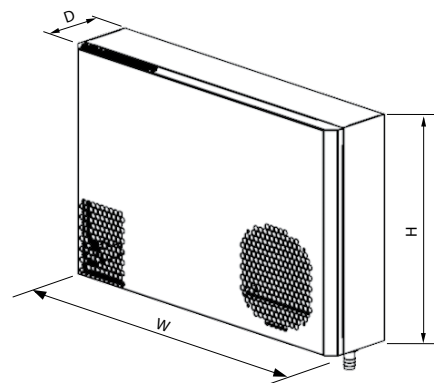
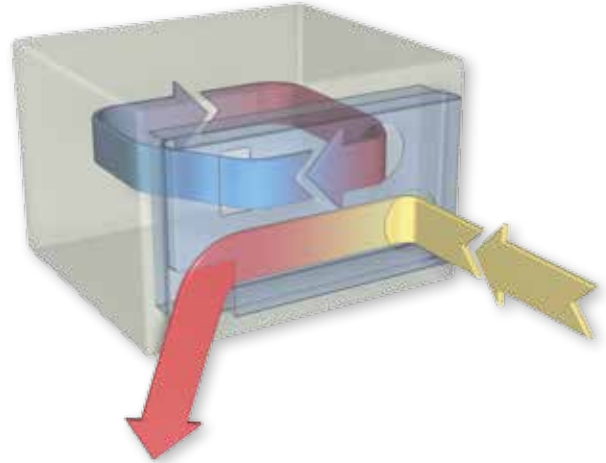
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 400 W			
Order code		AC-WM3-04-4000	AC-WM3-04-4200
Material		Steel sheet	Stainless steel
Dimensions mm	H	520	520
	W	320	320
	D	110	110
Voltage/Frequency		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	400 W	400 W
	L35 L50	150 W	150 W
Power Consumption		L35 L35 326 W	326 W
Max. air volume flow	Ambient air circuit	200 m ³ /h	200 m ³ /h
	Cabinet air circuit	125 m ³ /h	125 m ³ /h
Rated current		1,5 A	1,5 A
Starting current		3,2 A	3,2 A
Pre-Fuse T		6 A	6 A
Operating temperature range		+20 °C to +50 °C	+20 °C to +50 °C
Weight		15 kg	15 kg
Cutout		504 x 308 mm	504 x 308 mm
Compressor		Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals

Other input voltage options available upon request.

Wall-mounted cooling units SLIM 400 W horizontal

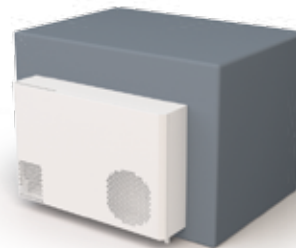


Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 30
- Certification: UL, CUL, CE

Supply includes:

Unit ready for connection.



External mounting



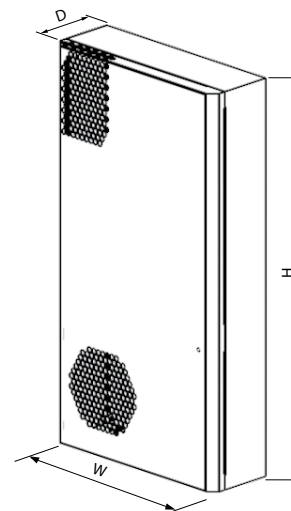
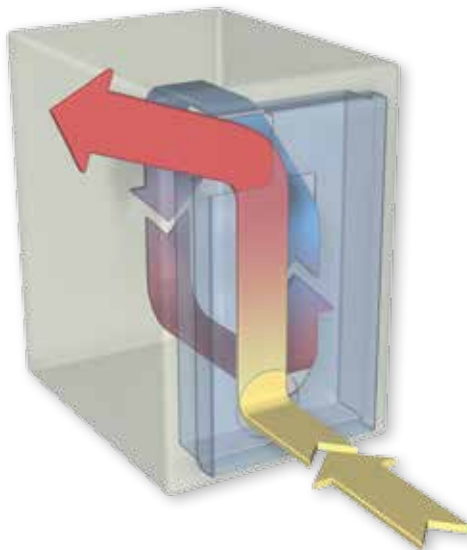
Internal mounting

Wall-mounted cooling units horizontal, cooling capacity 400 W

Order code		AC-WM3-04-400H	AC-WM3-04-420H
Material		Steel sheet	Stainless steel
Dimensions mm	H	340	340
	W	520	520
	D	110	110
Voltage/Frequency		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	400 W	400 W
	L35 L50	150 W	150 W
Power Consumption		L35 L35 320 W	320 W
Max. air volume flow	Ambient air circuit	180 m ³ /h	180 m ³ /h
	Cabinet air circuit	125 m ³ /h	125 m ³ /h
Rated current		1,5 A	1,5 A
Starting current		3,2 A	3,2 A
Pre-Fuse T		6 A	6 A
Operating temperature range		+20 °C to +50 °C	+20 °C to +50 °C
Weight		15 kg	15 kg
Cutout		321 x 501 mm	321 x 501 mm
Compressor		Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals

Other input voltage options available upon request.

Wall-mounted cooling units SLIM 500 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 30
- Certification: UL, CUL, CE



External mounting



Internal mounting

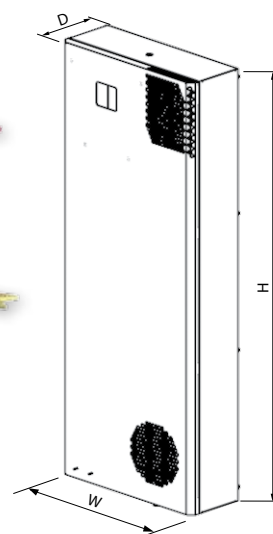
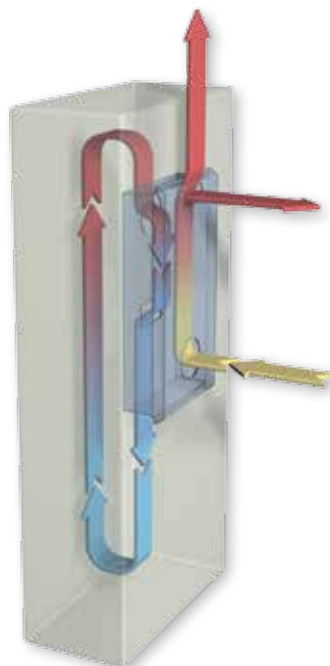
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 500 W			
Order code		AC-WM3-05-4000	AC-WM3-05-4200
Material		Steel sheet	Stainless steel
Dimensions mm	H	600	600
	W	320	320
	D	110	110
Voltage/Frequency		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	500 W	500 W
	L35 L50	160 W	160 W
Power Consumption	L35 L35	490 W	490 W
Max. air volume flow	Ambient air circuit	280 m ³ /h	280 m ³ /h
	Cabinet air circuit	125 m ³ /h	125 m ³ /h
Rated current		2,5 A	2,5 A
Starting current		5,8 A	5,8 A
Pre-Fuse T		6 A	6 A
Operating temperature range		+20 °C to +50 °C	+20 °C to +50 °C
Weight		16 kg	16 kg
Cutout		581 x 301 mm	581 x 301 mm
Compressor		Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals

Other input voltage options available upon request.

Wall-mounted cooling units SLIM 820 W



External mounting



Internal mounting

Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 31
- Certification: UL, CUL, CE

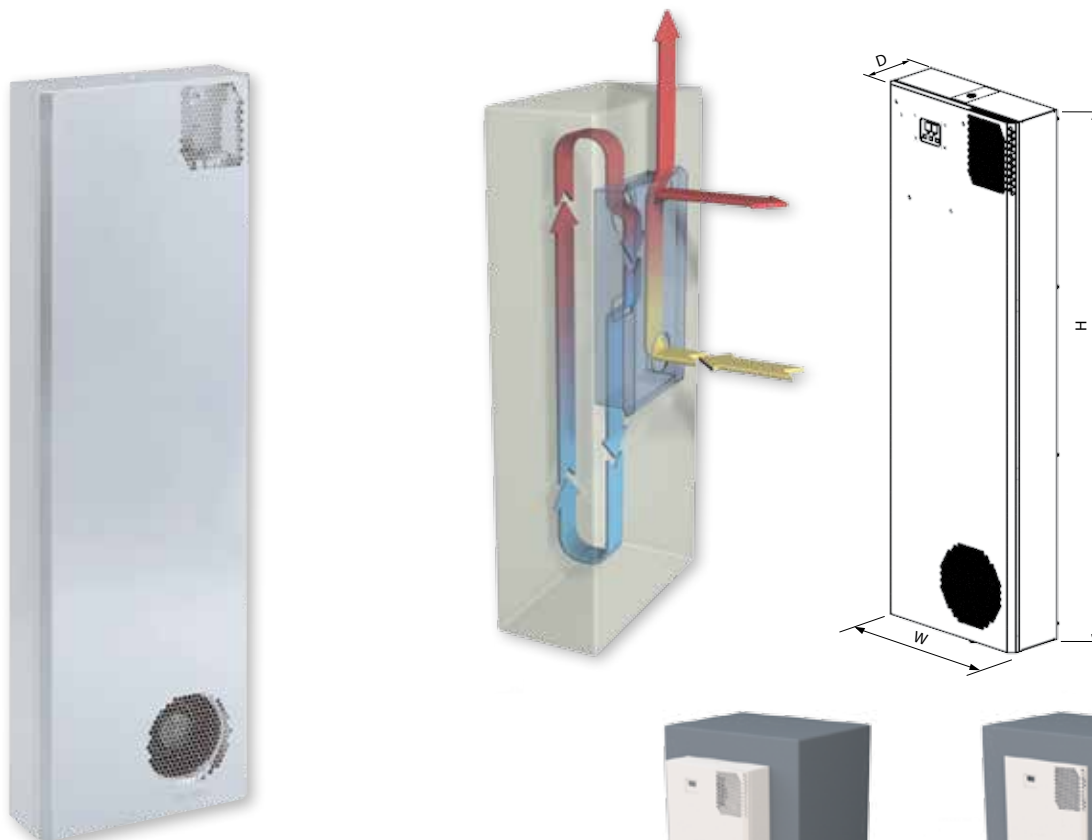
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 820 W					
Order code		AC-WM3-08-4000	AC-WM3-08-6000	AC-WM3-08-4200	AC-WM3-08-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	980	980	980	980
	W	395	395	395	395
	D	145	145	145	145
Voltage/Frequency		230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)	230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)
Cooling capacity to DIN 3168	L35 L35	820 W	820 W	820 W	820 W
	L35 L50	580 W	580 W	580 W	580 W
Power Consumption	L35 L35	660 W	690 W	660 W	690 W
Max. air volume flow	Ambient air circuit	310 m ³ /h	310 m ³ /h	310 m ³ /h	310 m ³ /h
	Cabinet air circuit	180 m ³ /h	180 m ³ /h	180 m ³ /h	180 m ³ /h
Rated current		4 A	2,9 A	4 A	2,9 A
Starting current		16 A	8,2 A	16 A	8,2 A
Pre-Fuse T		10 A	3,6 A	10 A	3,6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		41 kg	41 kg	41 kg	41 kg
Cutout		954 x 376 mm	954 x 376 mm	954 x 376 mm	954 x 376 mm
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3-phase units do not need additional MP.

Wall-mounted cooling units SLIM 1100 W



External mounting



Internal mounting

Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 31
- Certification: UL, CUL, CE

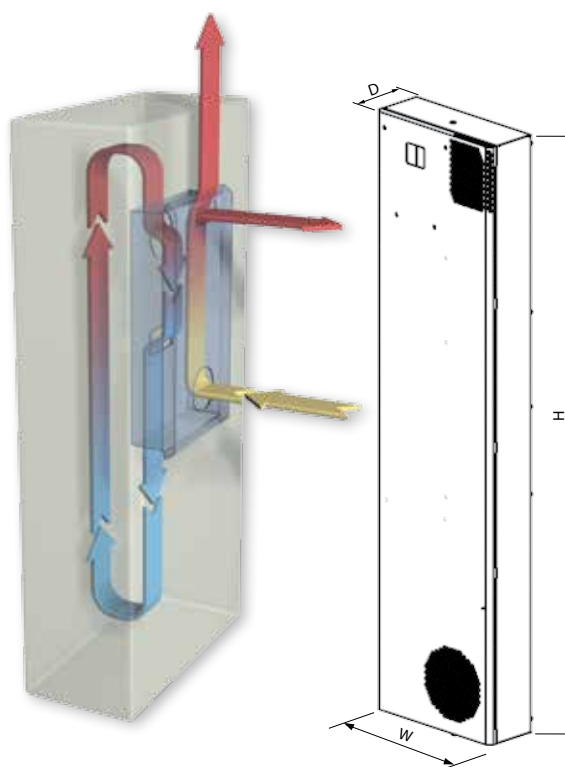
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 1100 W					
Order code		AC-WM3-11-4000	AC-WM3-11-6000	AC-WM3-11-4200	AC-WM3-11-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	1250	1250	1250	1250
	W	395	395	395	395
	D	145	145	145	145
Voltage/Frequency		230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)	230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)
Cooling capacity to DIN 3168	L35 L35	1100 W	1100 W	1100 W	1100 W
	L35 L50	700 W	700 W	700 W	700 W
Power Consumption	L35 L35	980 W	765 W	980 W	765 W
Max. air volume flow	Ambient air circuit	380 m ³ /h	380 m ³ /h	380 m ³ /h	380 m ³ /h
	Cabinet air circuit	270 m ³ /h	270 m ³ /h	270 m ³ /h	270 m ³ /h
Rated current		5,2 A	3,2 A	5,2 A	3,2 A
Starting current		15,5 A	8,2 A	15,5 A	8,2 A
Pre-Fuse T		10 A	3 x 6 A	10 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		44 kg	44 kg	44 kg	44 kg
Cutout		1214 x 376 mm	1214 x 376 mm	1214 x 376 mm	1214 x 376 mm
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Wall-mounted cooling units SLIM 1500 W



Internal mounting



External mounting

Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 32
- Certification: UL, CUL, CE

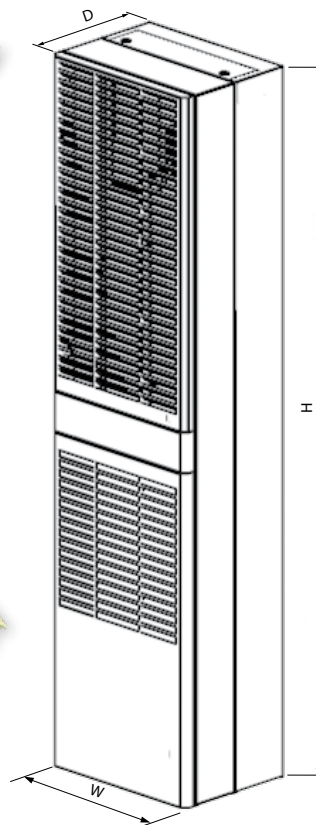
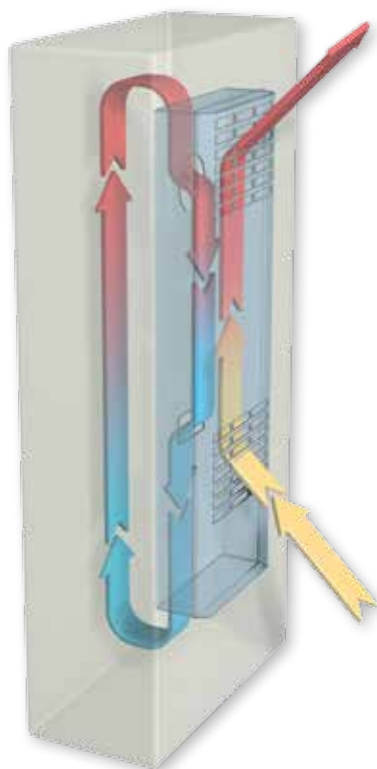
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 1500 W					
Order code		AC-WM3-15-4000	AC-WM3-15-6000	AC-WM3-15-4200	AC-WM3-15-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	1550	1550	1550	1550
	W	395	395	395	395
	D	145	145	145	145
Voltage/Frequency		230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)	230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)
Cooling capacity to DIN 3168	L35 L35	1500 W	1500 W	1500 W	1500 W
	L35 L50	1000 W	1000 W	1000 W	1000 W
Power Consumption	L35 L35	1005 W	935 W	1005 W	935 W
Max. air volume flow	Ambient air circuit	470 m ³ /h	470 m ³ /h	470 m ³ /h	470 m ³ /h
	Cabinet air circuit	350 m ³ /h	350 m ³ /h	350 m ³ /h	350 m ³ /h
Rated current		8,1 A	2,1 A	8,1 A	2,1 A
Starting current		22 A	15 A	22 A	15 A
Pre-Fuse T		10 A	3 x 6 A	10 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		50 kg	55 kg	50 kg	55 kg
Cutout		1531 x 376 mm	1531 x 376 mm	1531 x 376 mm	1531 x 376 mm
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Wall-mounted cooling units SLIM 2000 W



External mounting



Semi-flush mounting



Internal mounting

Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Semi-flush mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 32
- Certification: CE

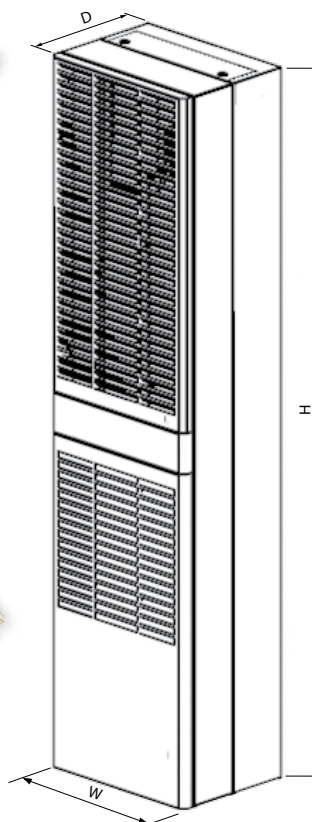
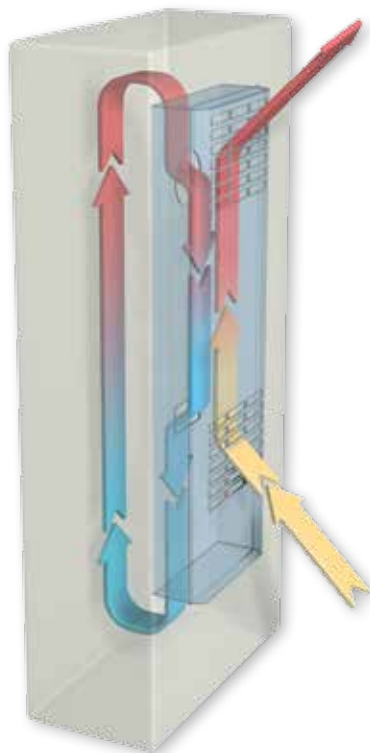
Supply includes:

Unit ready for connection.

Wall-mounted cooling units, cooling capacity 2000 W					
Order code		AC-WM3-20-4000	AC-WM3-20-6000	AC-WM3-20-4200	AC-WM3-20-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	1580	1580	1580	1580
	W	395	395	395	395
	D	290	290	290	290
Voltage/Frequency		230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)	230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)
Cooling capacity to DIN 3168	L35 L35	2000 W	2000 W	2000 W	2000 W
	L35 L50	1500 W	1500 W	1500 W	1500 W
Power Consumption		L35 L35 1200 W	1080 W	1200 W	1080 W
Max. air volume flow	Ambient air circuit	600 m ³ /h	600 m ³ /h	600 m ³ /h	600 m ³ /h
	Cabinet air circuit	600 m ³ /h	600 m ³ /h	600 m ³ /h	600 m ³ /h
Rated current		5,5 A	2,3 A	5,5 A	2,3 A
Starting current		24 A	14 A	24 A	14 A
Pre-Fuse T		16 A	3 x 6 A	16 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		67 kg	67 kg	67 kg	67 kg
Cutout		1530 x 377 mm	1530 x 377 mm	1530 x 377 mm	1530 x 377 mm
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Wall-mounted cooling units SLIM 2600 W



External mounting



Semi-flush mounting



Internal mounting

Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Mounting:
 - External mounting
 - Semi-flush mounting
 - Internal mounting
- Detailed drawing and characteristics: see page 33
- Certification: CE

Supply includes:

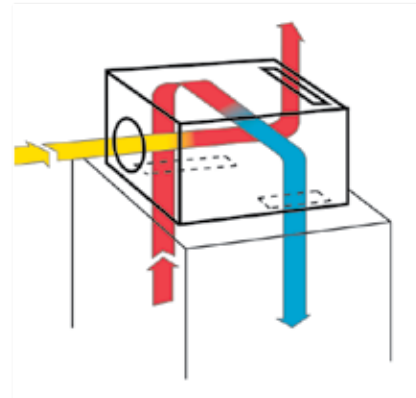
Unit ready for connection.

Wall-mounted cooling units, cooling capacity 2600 W

Order code		AC-WM3-26-4000	AC-WM3-26-6000	AC-WM3-26-4200	AC-WM3-26-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	1580	1580	1580	1580
	W	395	395	395	395
	D	290	290	290	290
Voltage/Frequency		230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)	230 V; 50/60 Hz ~N	380-415 V; 50 Hz (3~) 400-460 V; 60 Hz (3~)
Cooling capacity to DIN 3168	L35 L35	2600 W	2600 W	2600 W	2600 W
	L35 L50	2100 W	2100 W	2100 W	2100 W
Power Consumption		L35 L35 1550 W	1630 W	1550 W	1630 W
Max. air volume flow	Ambient air circuit	700 m ³ /h	700 m ³ /h	700 m ³ /h	700 m ³ /h
	Cabinet air circuit	720 m ³ /h	720 m ³ /h	720 m ³ /h	720 m ³ /h
Rated current		7,2 A	2 A	7,2 A	2 A
Starting current		32 A	21 A	32 A	21 A
Pre-Fuse T		20 A	3 x 6 A	20 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		70 kg	70 kg	70 kg	70 kg
Cutout		1530 x 377 mm	1530 x 377 mm	1530 x 377 mm	1530 x 377 mm
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Top-mounted cooling units 200 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Detailed drawing and characteristics: see page 34
- Certification: UL, CUL, CE, GS, EMC

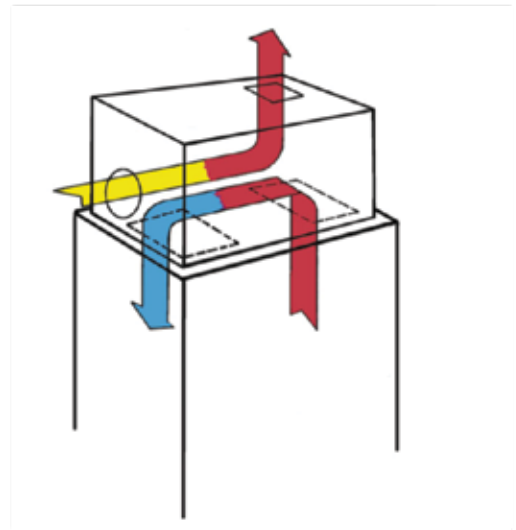
Supply includes:

Unit ready for connection.

Top-mounted cooling units, cooling capacity 200 W			
Order code		AC-TM3-02-4000	AC-TM3-02-4200
Material		Steel sheet	Stainless steel
Dimensions mm	H	210	210
	W	255	255
	D	350	350
Voltage/Frequency		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	200 W	200 W
	L35 L50	110 W	110 W
Power Consumption	L35 L35	280 W	280 W
Max. air volume flow	Ambient air circuit	200 m ³ /h	200 m ³ /h
	Cabinet air circuit	110 m ³ /h	110 m ³ /h
Rated current		1,5 A	1,5 A
Starting current		3,2 A	3,2 A
Pre-Fuse T		6 A	6 A
Operating temperature range		+20 °C to +50 °C	+20 °C to +50 °C
Weight		14 kg	14 kg
Compressor		Rotary piston	Rotary piston
Connection		3 m cable	3 m cable

Other input voltage options available upon request.

Top-mounted cooling units 450 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Detailed drawing and characteristics: see page 34
- Certification: UL, CUL, CE, GS, EMC

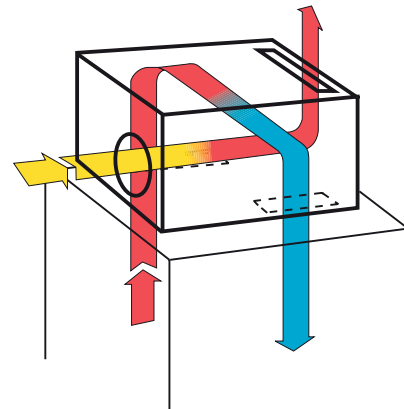
Supply includes:

Unit ready for connection.

Top-mounted cooling units, cooling capacity 450 W			
Order code		AC-TM3-04-4000	AC-TM3-04-4200
Material		Steel sheet	Stainless steel
Dimensions mm	H	230	230
	W	330	330
	D	430	430
Voltage/Frequency		230 V; 50/60 Hz ~N	230 V; 50/60 Hz ~N
Cooling capacity to DIN 3168	L35 L35	450 W	450 W
	L35 L50	270 W	270 W
Power Consumption	L35 L35	390 W	390 W
Max. air volume flow	Ambient air circuit	250 m ³ /h	250 m ³ /h
	Cabinet air circuit	140 m ³ /h	140 m ³ /h
Rated current		1,9 A	1,9 A
Starting current		5 A	5 A
Pre-Fuse T		6 A	6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C
Weight		23 kg	23 kg
Compressor		Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals

Other input voltage options available upon request.

Top-mounted cooling units 1100 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Detailed drawing and characteristics: see page 34
- Certification: CE

Supply includes:

Unit ready for connection.

Top-mounted cooling units, cooling capacity 1100 W					
Order code		AC-TM3-11-4000	AC-TM3-11-6000	AC-TM3-11-4200	AC-TM3-11-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	400	400	400	400
	W	600	600	600	600
	D	400	400	400	400
Voltage/Frequency		230 V; 50/60 Hz ~N	400 - 460 V; 50/60 Hz 3~	230 V; 50/60 Hz ~N	400 - 460 V; 50/60 Hz 3~
Cooling capacity to DIN 3168	L35 L35	1100 W	1100 W	1100 W	1100 W
	L35 L50	710 W	710 W	710 W	710 W
Power Consumption	L35 L35	800 W	800 W	800 W	800 W
Max. air volume flow	Ambient air circuit	720 m ³ /h	720 m ³ /h	720 m ³ /h	720 m ³ /h
	Cabinet air circuit	360 m ³ /h	360 m ³ /h	360 m ³ /h	360 m ³ /h
Rated current		4 A	1,6 A	4 A	1,6 A
Starting current		15 A	7,4 A	15 A	7,4 A
Pre-Fuse T		6 A	3 x 6 A	6 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		55 kg	55 kg	55 kg	55 kg
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

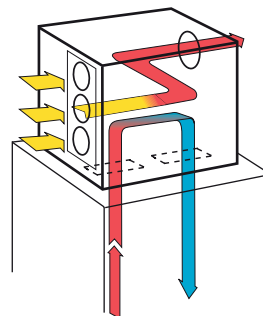
Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Top-mounted cooling units 1500 and 2000 W



Specification:

- Housing material: steel sheet/stainless steel
- Color: RAL 7035
- Refrigerant: R134a
- Protection degree:
 - Cabinet air circuit: IP54
 - Ambient air circuit: IP24
- Detailed drawing and characteristics: see page 35
- Certification: CE



Supply includes:

Unit ready for connection.

Top-mounted cooling units, cooling capacity 1500 W					
Order code		AC-TM3-15-4000	AC-TM3-15-6000	AC-TM3-15-4200	AC-TM3-15-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	410	410	410	410
	W	600	600	600	600
	D	400	400	400	400
Voltage/Frequency		230 V; 50/60 Hz ~N	400 - 460 V; 50/60 Hz 3~	230 V; 50/60 Hz ~N	400 - 460 V; 50/60 Hz 3~
Cooling capacity to DIN 3168	L35 L35	1500 W	1500 W	1500 W	1500 W
	L35 L50	950 W	950 W	950 W	950 W
Power Consumption	L35 L35	1200 W	1200 W	1200 W	1200 W
Max. air volume flow	Ambient air circuit	860 m ³ /h	860 m ³ /h	860 m ³ /h	860 m ³ /h
	Cabinet air circuit	540 m ³ /h	540 m ³ /h	540 m ³ /h	540 m ³ /h
Rated current		5,3 A	3 A	5,3 A	3 A
Starting current		22 A	15 A	22 A	15 A
Pre-Fuse T		10 A	3 x 6 A	10 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		58 kg	58 kg	58 kg	58 kg
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection			Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Top-mounted cooling units, cooling capacity 2000 W					
Order code		AC-TM3-20-4000	AC-TM3-20-6000	AC-TM3-20-4200	AC-TM3-20-6200
Material		Steel sheet	Steel sheet	Stainless steel	Stainless steel
Dimensions mm	H	410	410	410	410
	W	600	600	600	600
	D	400	400	400	400
Voltage/Frequency		230 V; 50/60 Hz ~N	400 - 460 V; 50/60 Hz 3~	230 V; 50/60 Hz ~N	400 - 460 V; 50/60 Hz 3~
Cooling capacity to DIN 3168	L35 L35	2000 W	2000 W	2000 W	2000 W
	L35 L50	1250 W	1250 W	1250 W	1250 W
Power Consumption	L35 L35	1600 W	1500 W	1600 W	1500 W
Max. air volume flow	Ambient air circuit	750 m ³ /h	750 m ³ /h	750 m ³ /h	750 m ³ /h
	Cabinet air circuit	540 m ³ /h	540 m ³ /h	540 m ³ /h	540 m ³ /h
Rated current		7 A	3,7 A	7 A	3,7 A
Starting current		33,5 A	20 A	33,5 A	20 A
Pre-Fuse T		10 A	3 x 6 A	10 A	3 x 6 A
Operating temperature range		+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C	+20 °C to +55 °C
Weight		63 kg	63 kg	63 kg	63 kg
Compressor		Rotary piston	Rotary piston	Rotary piston	Rotary piston
Connection		Connection terminals	Connection terminals	Connection terminals	Connection terminals

Other input voltage options available upon request. 400 V-3phase units do not need additional MP.

Thermoelectric cooler



Supply includes:

- Thermoelectric cooling unit ready for connection

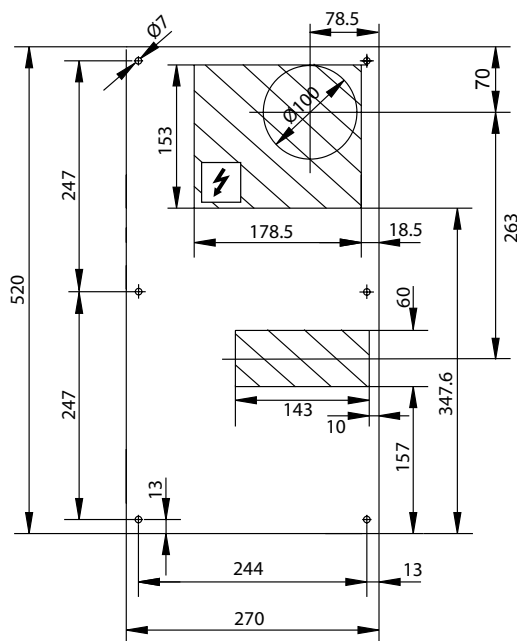
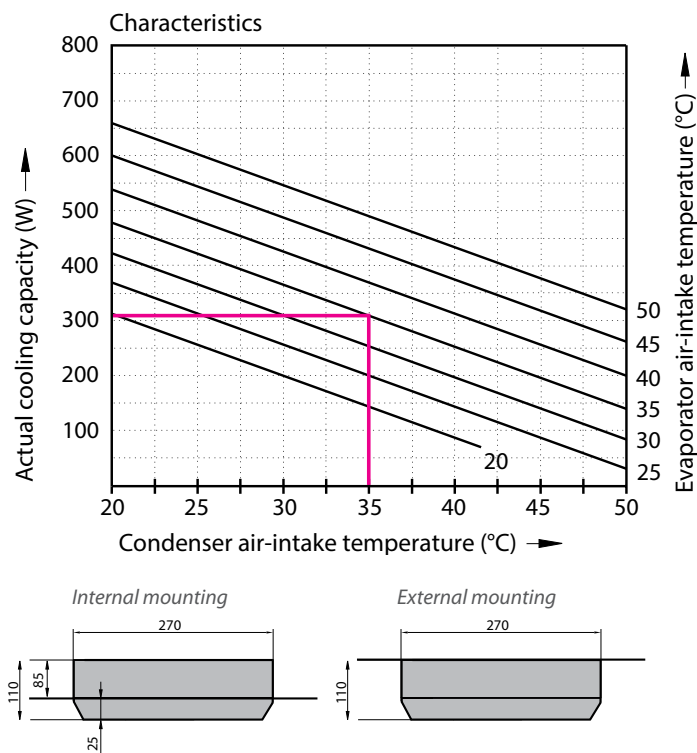
Features:

- Material: plastic parts in PC/ABS alloy. All parts self-extinguishing, according to UL 94V-0
- Color: RAL 7035 and RAL 7032
- Protection degree: IP55
- Electrical connection: by 4 pole Cage Clamp® connector
- Sealing: permanent sealing gasket in closed cell foam polyethylene

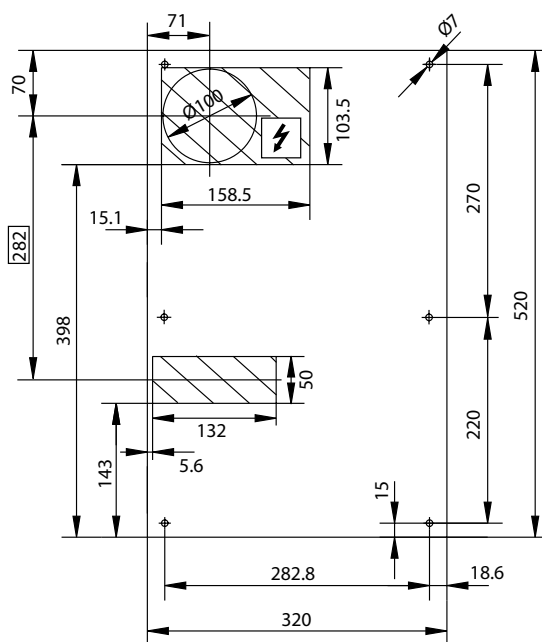
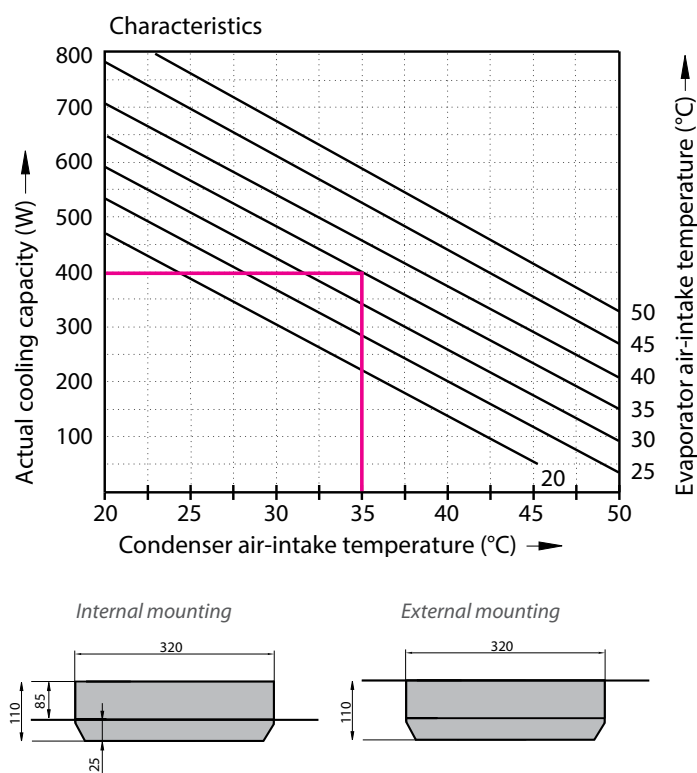
Recommended accessories: Programmable thermostat and reverse starter (order code ID-EP-REG) is suitable for controlling cooling/heating depending on measured temperature.

Thermoelectric cooler, cooling power 200 W		
Order code		ID-EP-20-1
Dimensions mm	H	320
	W	310
	D	188 (100 mm outside of the cabinet)
Cooling power		200 W
Heating power		200 W
Voltage		24 V DC
Rated voltage range		17-27 V DC
Rated current		9,2 A
Max current		11,1 A
Rated Temp. Range		-20 °C to +70 °C
Weight		12 kg

WALL-MOUNTED COOLING UNITS SLIM 320 W (AC-WM3-03-4xxx)

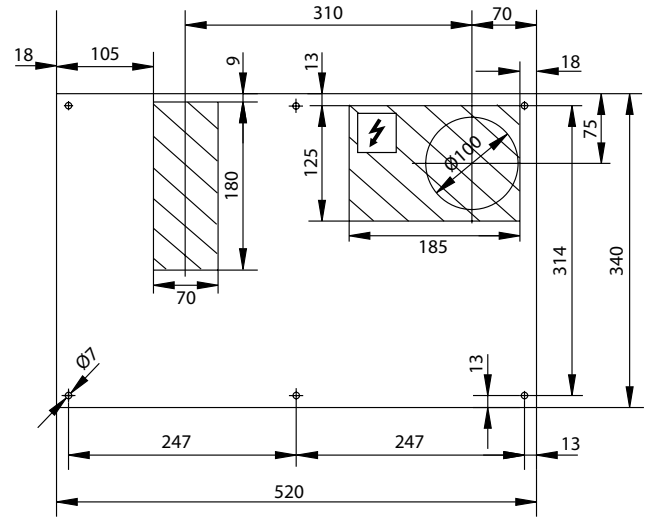
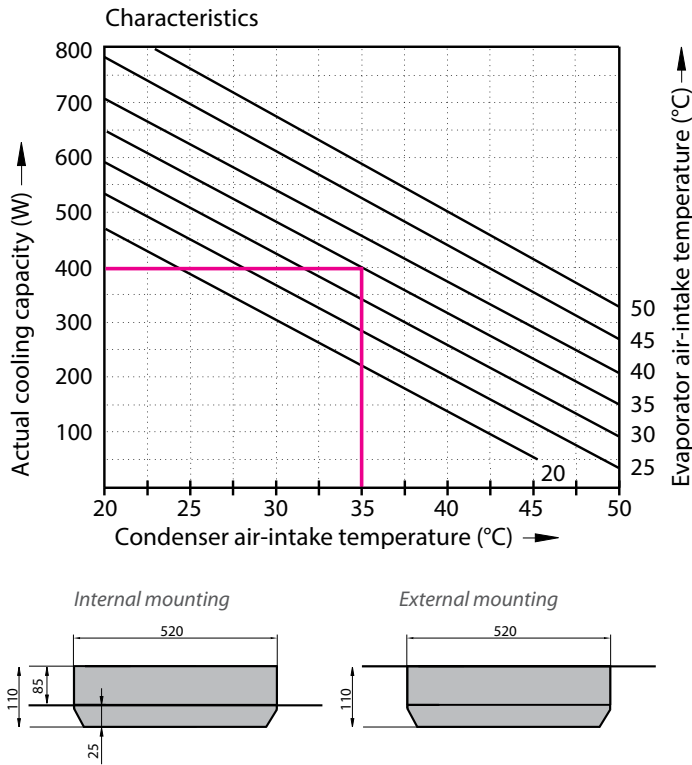


WALL-MOUNTED COOLING UNITS SLIM 400 W (AC-WM3-04-4xxx)

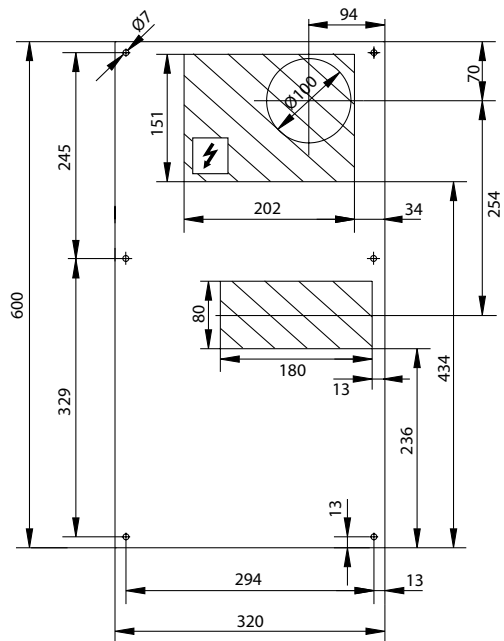
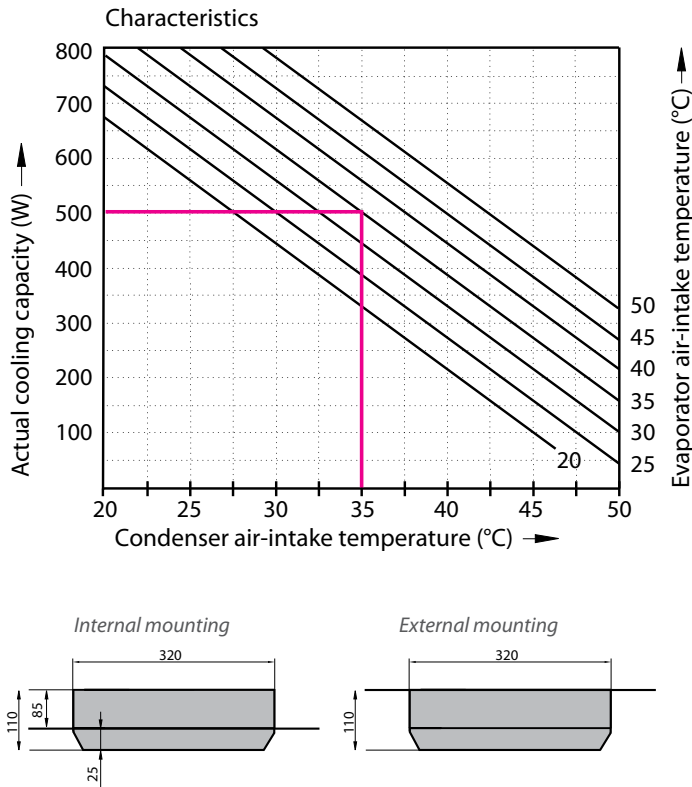


All dimensions are in mm.

WALL-MOUNTED COOLING UNITS SLIM 400 W HORIZONTAL (AC-WM3-04-4xxH)

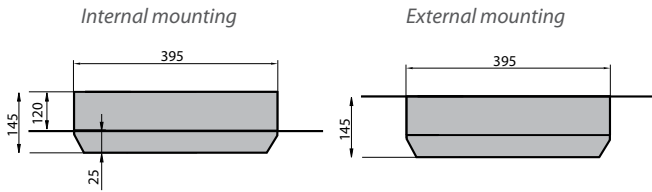
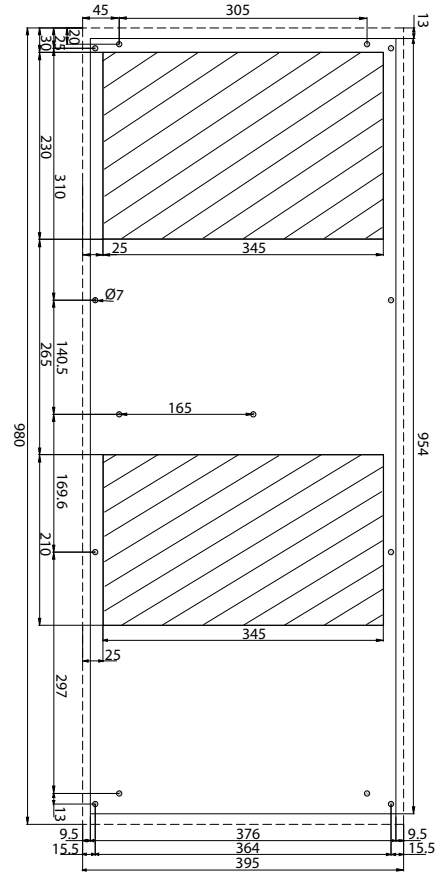
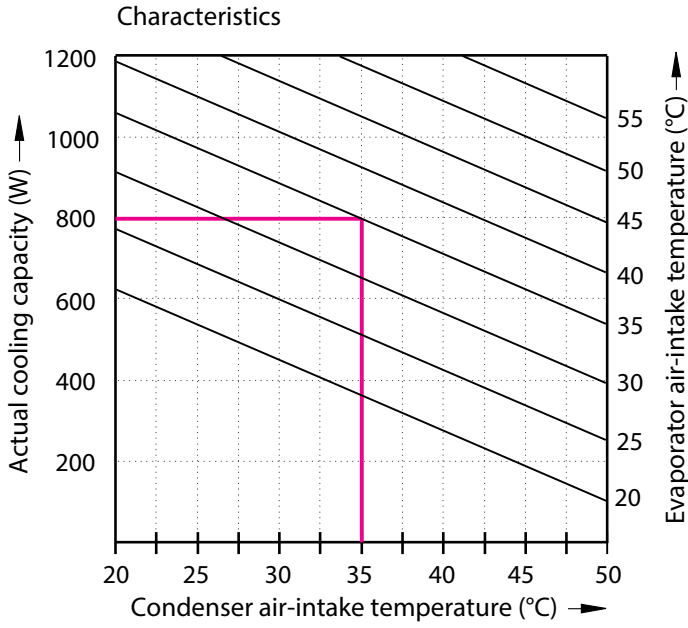


WALL-MOUNTED COOLING UNITS SLIM 500 W (AC-WM3-05-4xxx)

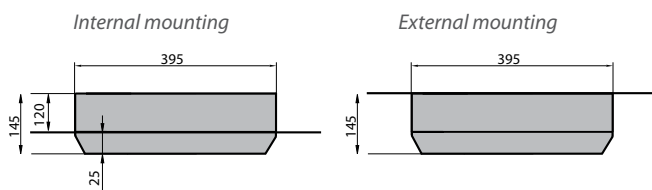
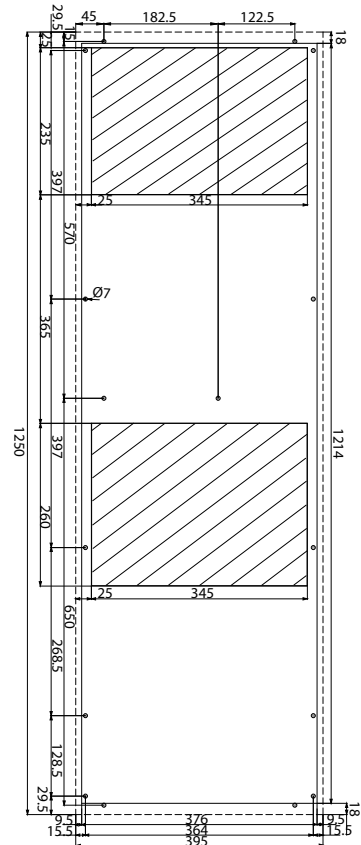
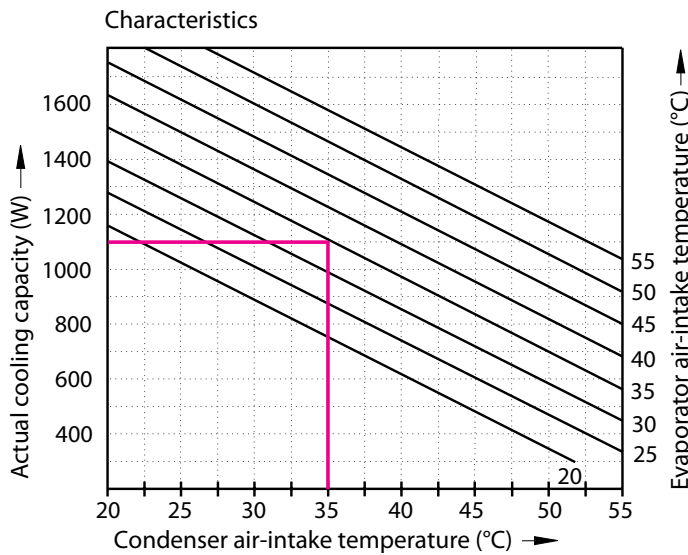


All dimensions are in mm.

WALL-MOUNTED COOLING UNITS SLIM 820 W (AC-WM3-08-xxxx)

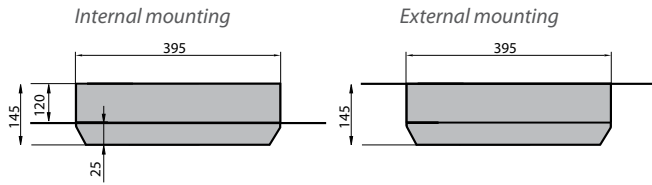
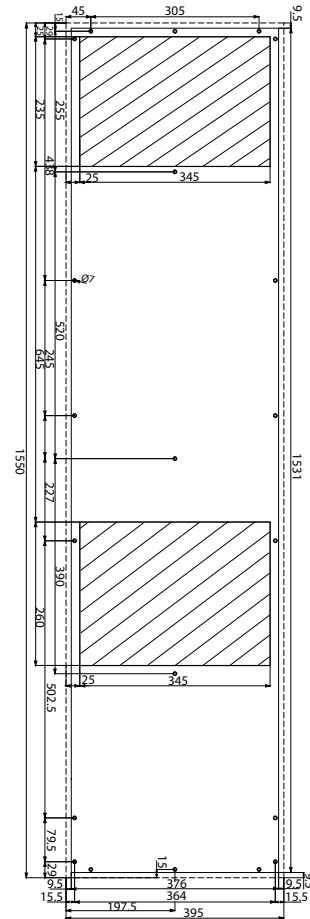
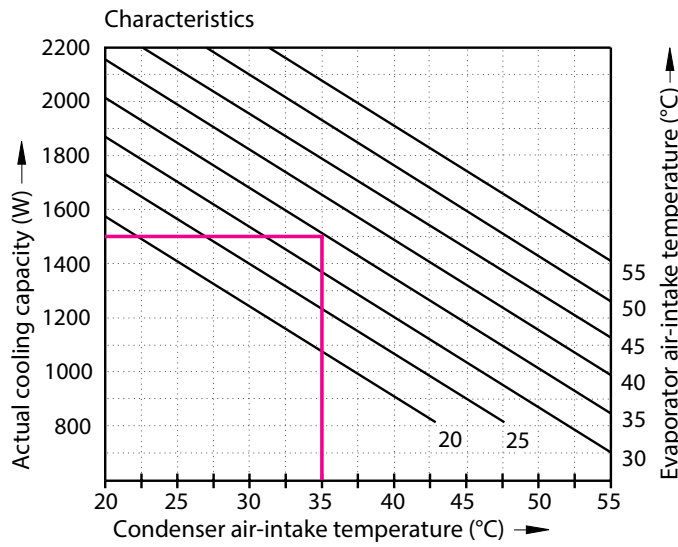


WALL-MOUNTED COOLING UNITS SLIM 1100 W (AC-WM3-11-xxxx)

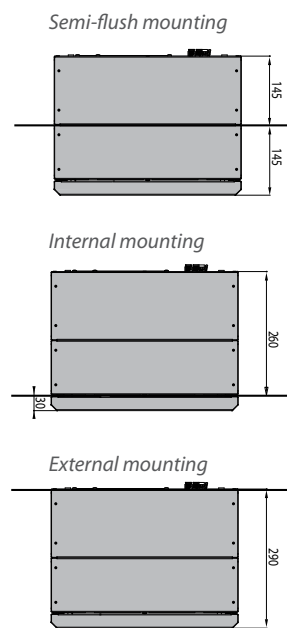
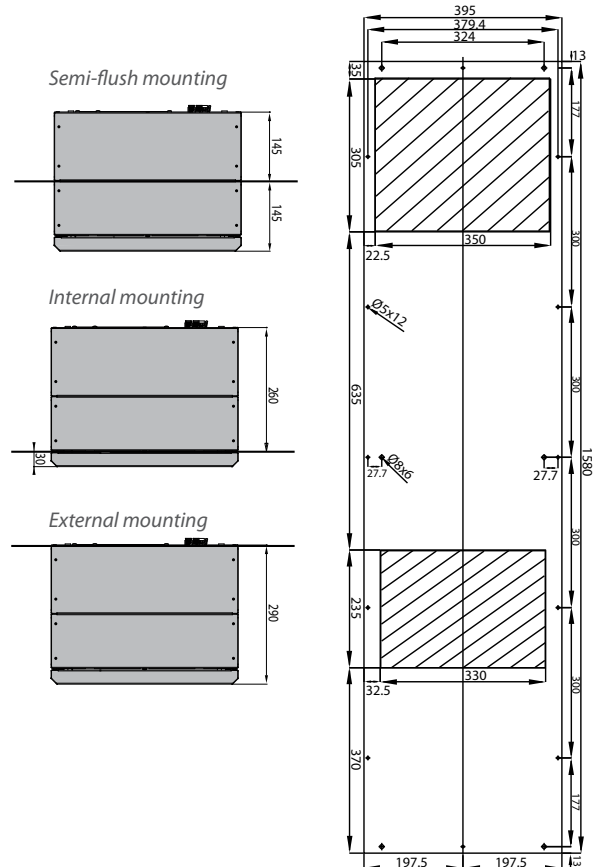
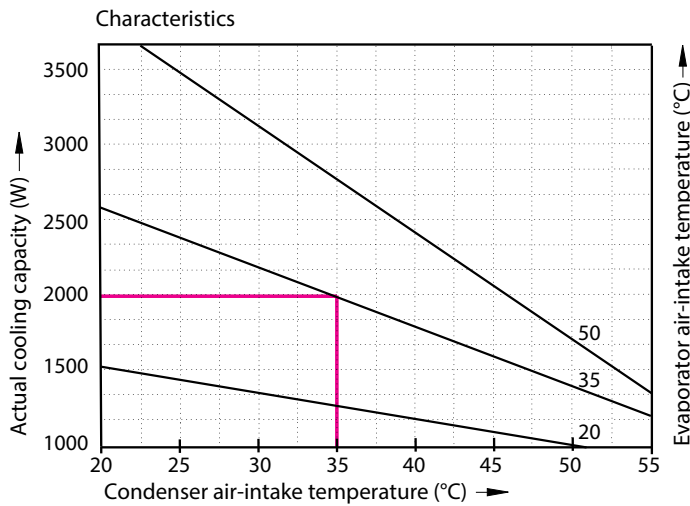


All dimensions are in mm.

WALL-MOUNTED COOLING UNITS SLIM 1500 W (AC-WM3-15-xxxx)

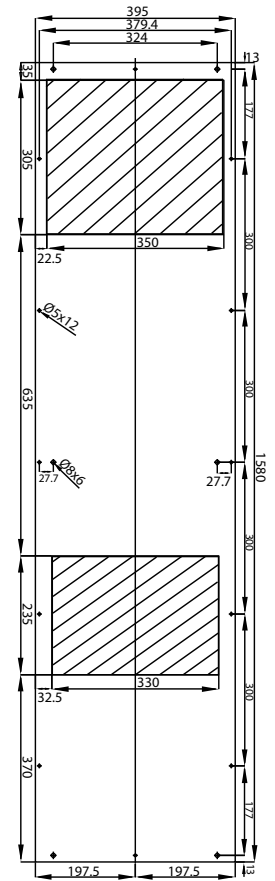
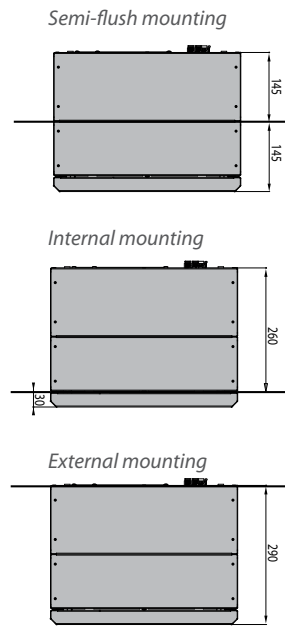
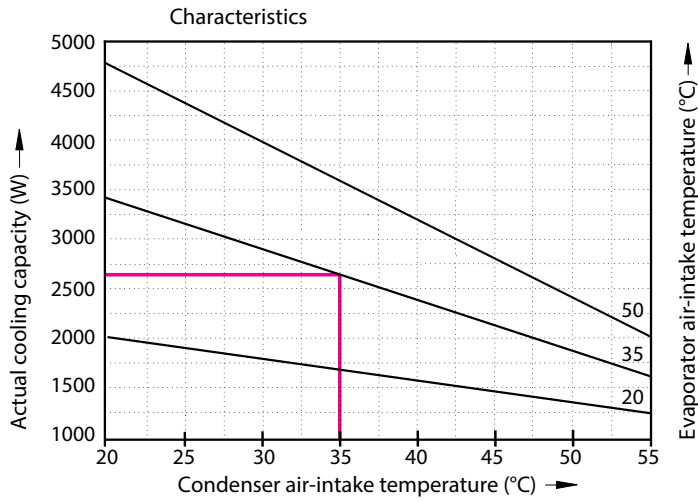


WALL-MOUNTED COOLING UNITS SLIM 2000 W (AC-WM3-20-xxxx)



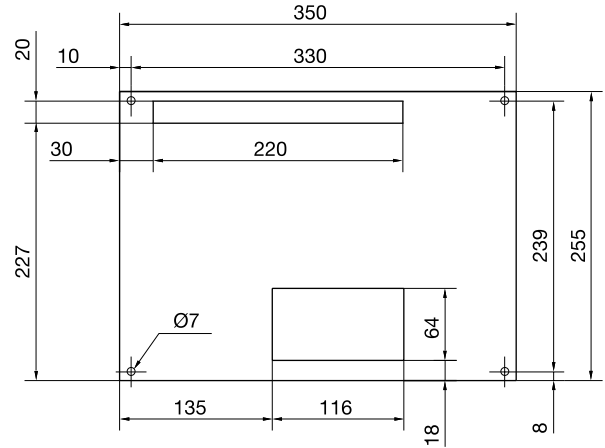
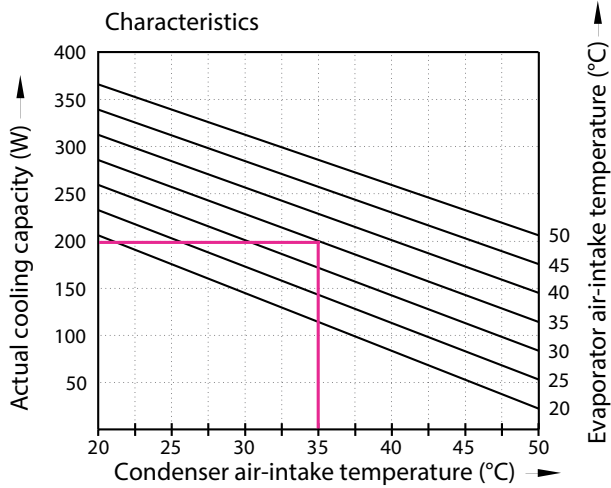
All dimensions are in mm.

WALL-MOUNTED COOLING UNITS SLIM 2600 W (AC-WM3-26-xxxx)

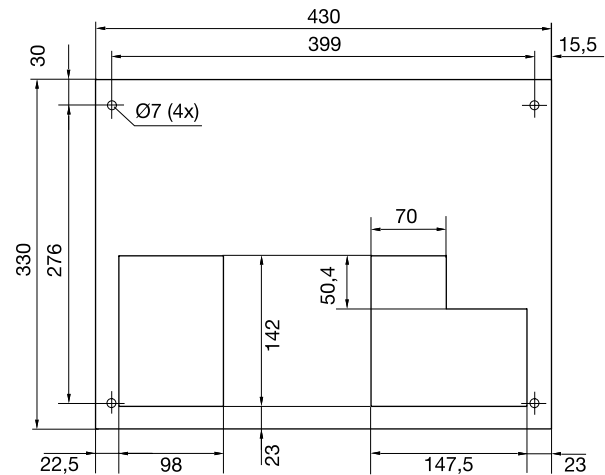
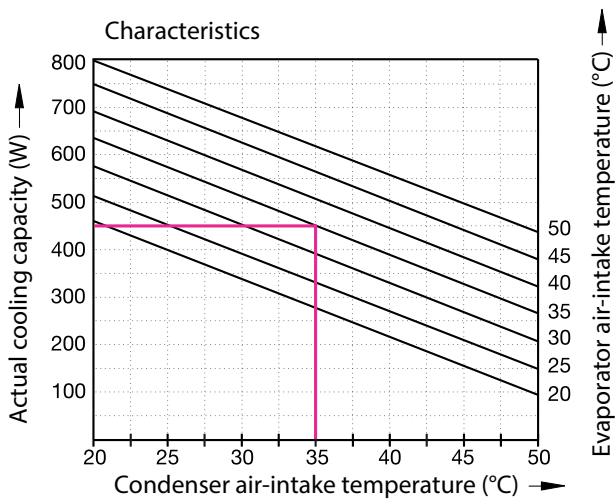


All dimensions are in mm.

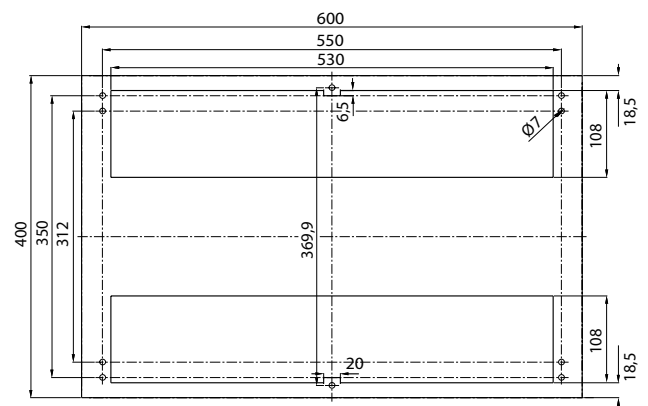
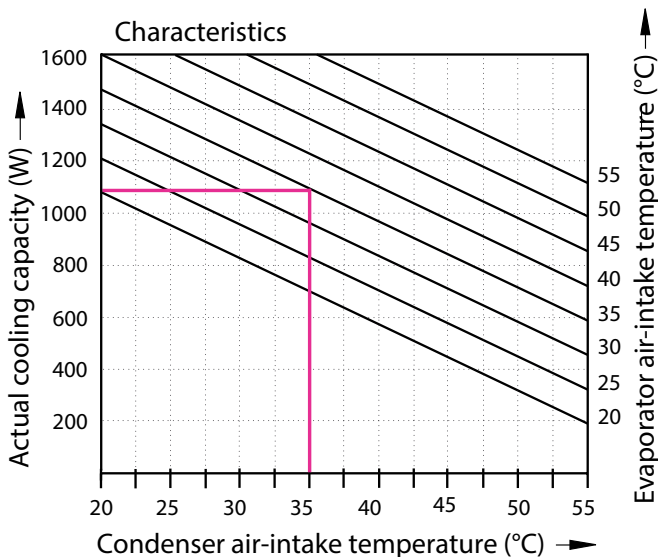
TOP-MOUNTED COOLING UNITS 200 W (AC-TM3-02-4xxx)



TOP-MOUNTED COOLING UNITS 450 W (AC-TM3-04-4xxx)

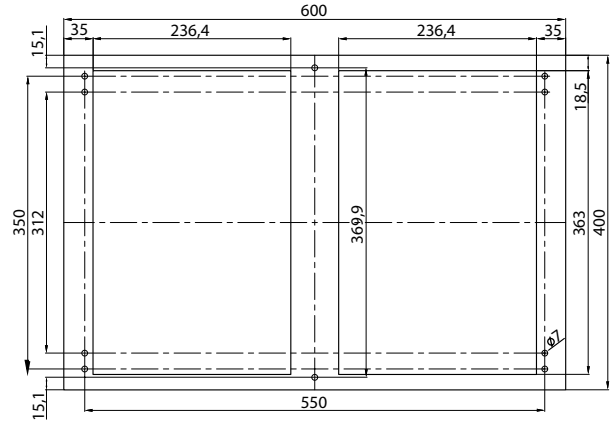
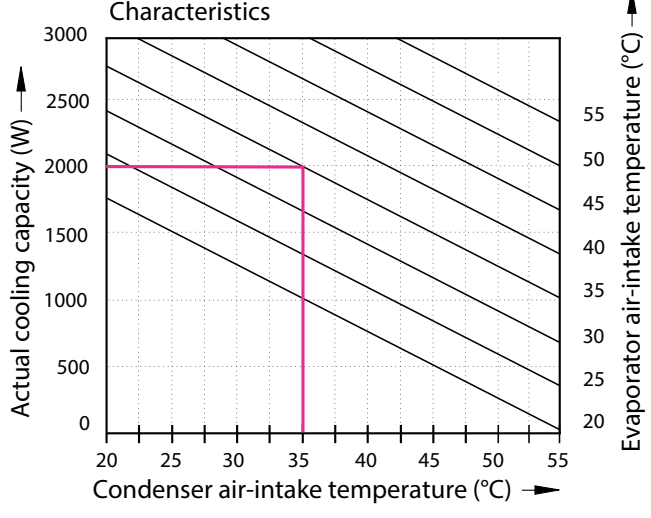
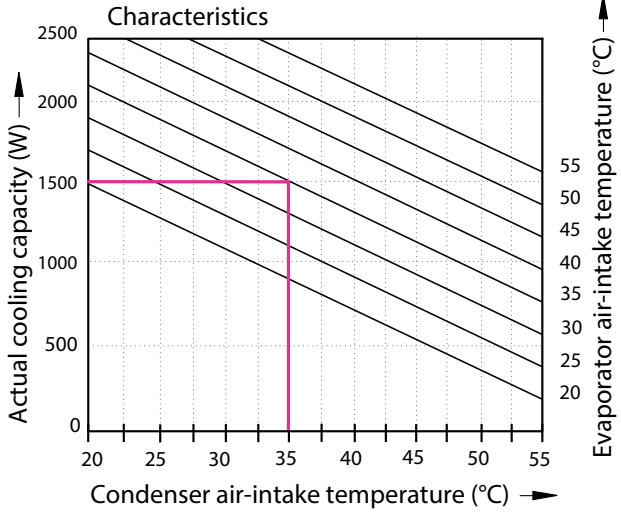


TOP-MOUNTED COOLING UNITS 1100 W (AC-TM3-11-xxxx)



All dimensions are in mm.

TOP-MOUNTED COOLING UNITS 1500 AND 2000 W(AC-TM3-15-xxxx a AC-TM3-20-xxxx)



All dimensions are in mm.

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