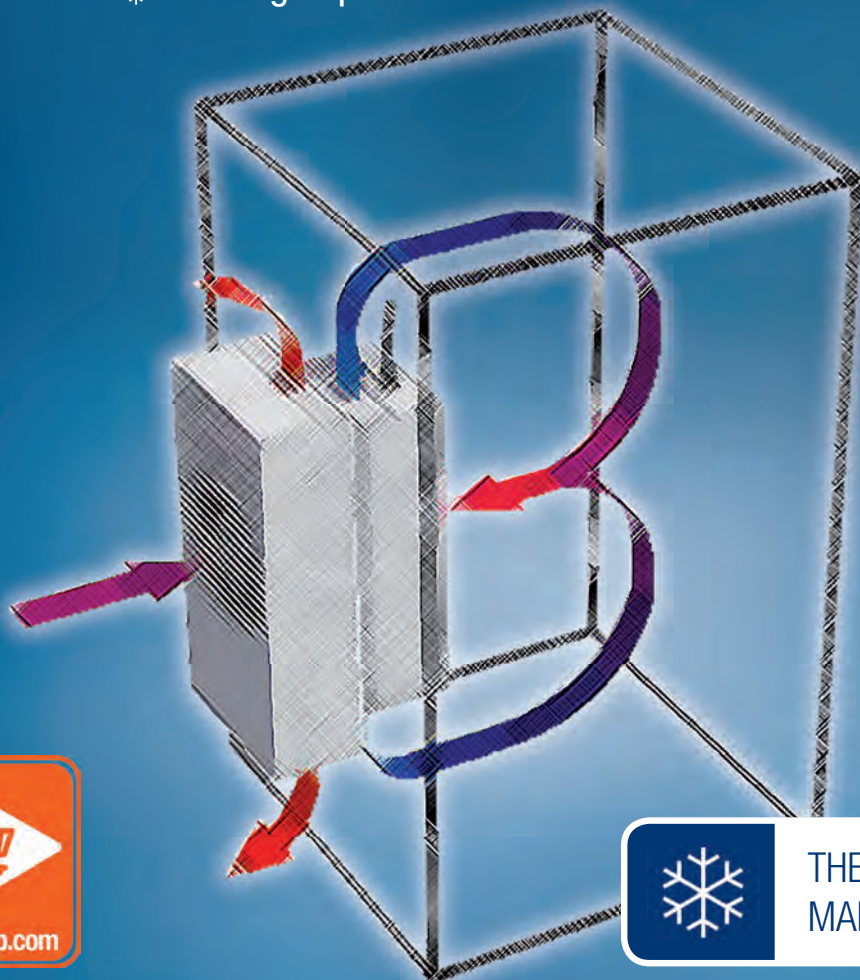


standard cabinet coolers

remove heat from cabinets, control panels and consoles – even in harsh environments



- ❄ thermoelectric coolers
- ❄ cabinet coolers – heat pipe based
- ❄ compressor cooling units
- ❄ cooling capacities from 30 W to 4 kW



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standard cabinet coolers

Cabinet coolers are the ideal solution to cool and remove heat from cabinets, control panels and consoles. Utilizing either Peltier, heat pipe or compressor technology, our cabinet coolers are especially suitable for harsh environments like food industry or traffic engineering. Internal air circulation and ambient external air flow are separated by a hermetical seal. Most of our cabinet coolers are also protected against water and rated according to the IP67 (NEMA4X) standard.

thermoelectric coolers

Thermoelectric cabinet coolers are the ideal solution when heat needs to be removed from small electronic cabinets, or small compartments need to be cooled below ambient. Nominal cooling capacities range from 30 W to 280 W when internal temperature equals external

temperature ($T_{in} = T_{amb}$). When cooling below ambient is required, the cooling capacity depends on the size of the compartment and its insulation. Temperatures of as low as 25 K below ambient temperatures can be achieved.

cabinet coolers – heat pipe based

Based on heat pipe technology, these very compact and lightweight air to air heat exchangers remove waste heat from sealed electrical panels and enclosures. Intruding and flush-mount versions are available with ratings from 16 W/°C up to 200 W/°C. The coolers' design dissipates heat from

sensitive electronic components without exposing them to the harsh and dirty environment outside the cabinet. Common mounting locations for these units are side, front or back as high as possible on the enclosure.

compressor cooling unit

This cooling unit is based on compressor technology and can be mounted on the side, front or back of the cabinet. With an operating voltage of 24 VDC, the compressor cooling unit

provides a nominal cooling capacity of 400 W. Among the main product features are a quick assembly procedure, high reliability and minimized maintenance efforts.



cabinet coolers

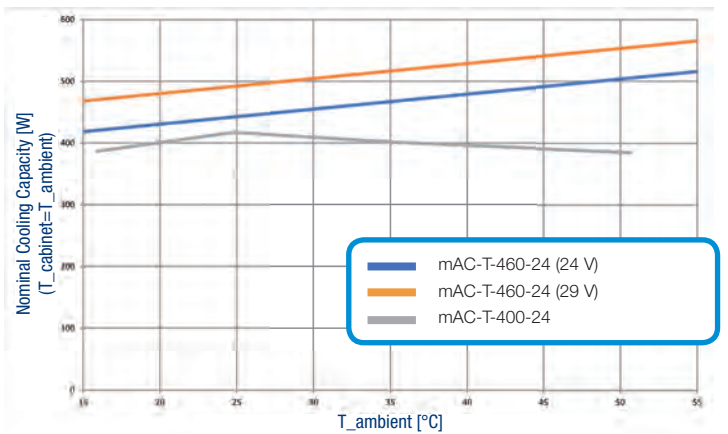
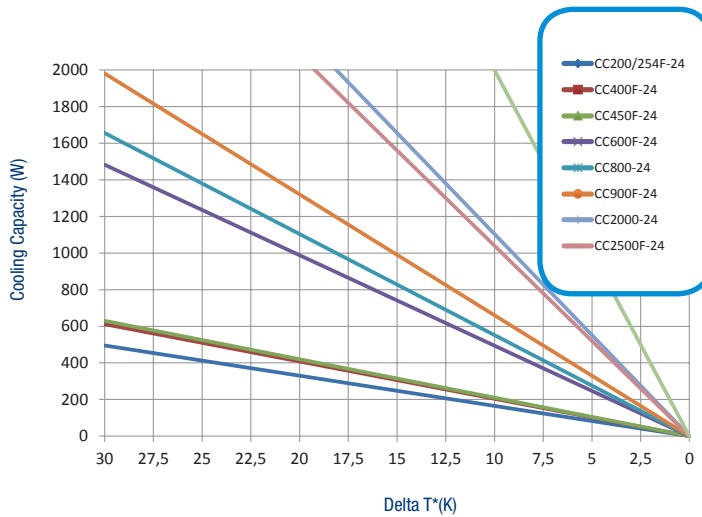
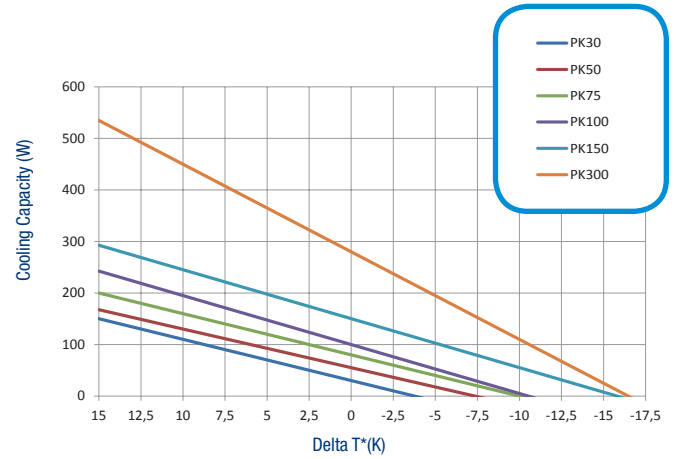
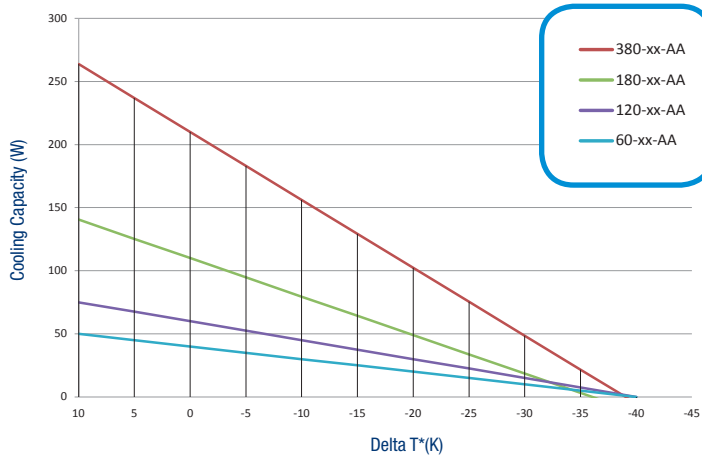
Product	Cooling Capacity*	I Operating Amps	U Operating Volts	Power consumption Watts	Length mm	Width mm	Height mm	Weight kg	Working temp range	Approvals	Environmental protection	Orientation
PK 30-24	110 W	2.3	24	56	130	160	112	1.7	-10 – +60 °C	UL, CE	IP67	any
PK 50-12	130 W	5	12	60	134.5	200	155.5	3.9	-10 – +60 °C	UL, CE	IP67	any
PK 50-24	130 W	2.5	24	60	134.5	200	155.5	3.9	-10 – +60 °C	UL, CE	IP67	any
PK 75-24	160 W	3.6	24	87	145	250	203	5.5	-10 – +60 °C	UL, CE	IP67	any
PK 100-12	195 W	5.2	12	125	134.5	307	200	7.2	-10 – +60 °C	UL, CE	IP67	any
PK 100-24	195 W	10.4	24	125	134.5	307	200	7.2	-10 – +60 °C	UL, CE	IP67	any
PK 150-24	245 W	7.2	24	173	134.5	307	200	7.3	-10 – +60 °C	UL, CE	IP67	any
PK 300-24	450 W	15	24	360	195	333	330	18.5	-10 – +60 °C	CE	IP67	any
60-24-AA	90 W	2.8	24	67	240	150.2	155	2.8	-30 – +70 °C			any
60-12-AA	55 W	9	12	108	240	150.2	155	2.8	-30 – +70 °C			any
120-24-AA	76 W	5.3	24	127	320	150.2	155	3.7	-30 – +70 °C			any
120-12-AA	76 W	15.2	12	182	320	150.2	155	3.7	-30 – +70 °C			any
180-24-AA	140 W	5.8	24	139	480	150.2	155	5.7	-30 – +70 °C			any
380-24-AA	275 W	10.4	24	250	252	200	210	6.4	-10 – +70 °C			any
CC200-24	165 W	1.2	24	28.8	117.48	130.18	292.1	2.72	-10 – +70 °C		Nema12 (IP52 equivalent)	drop in
CC254F-24	165 W	1.2	24	28.8	101.6	304.8	327	3.63	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
CC400F-24	204 W	1.2	24	28.8	101.6	158.75	571.5	4.54	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
CC450F-24	210 W	1.2	24	28.8	203.2	134.71	317.5	4.08	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
CC600F-24	494 W	2.4	24	57.6	101.6	222.25	762	6.35	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
CC800-24	552 W	2.4	24	57.6	177.8	196.85	381	7.26	-10 – +70 °C		Nema12 (IP52 equivalent)	drop in
CC900F-24	660 W	2.4	24	57.6	200	352.43	381	7.26	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
CC2000-24	1104 W	4.8	24	115.2	177.8	196.85	762	12.7	-10 – +70 °C		Nema12 (IP52 equivalent)	drop in
CC2500F-24	1040 W	4.8	24	115.2	200	352.4	736.6	13.6	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
CC4000F-24	2000 W	9.6	24	230.4	200	352.4	1473.2	27.21	-10 – +70 °C		Nema12 (IP52 equivalent)	flush mount
mAC-C-400-24-KIT	400 W	18	24	432	310	150	475	10	+10 – +50 °C	CE	IP65	flush mount side wall or door
mAC-T-450-24-KIT	450 W	38	24	863	345	339	287	22	-40 – +70 °C		IPxx	any

* note: conditions for rating vary, refer to individual data sheets



selection guide

cooling capacity



* ΔT = Inside Cabinet Temperature – Ambient Temperature



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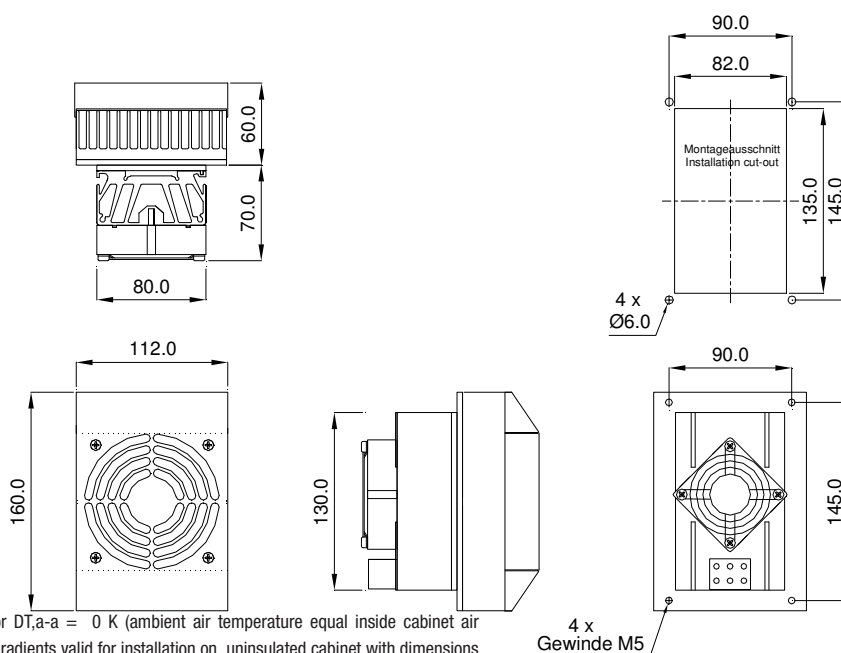
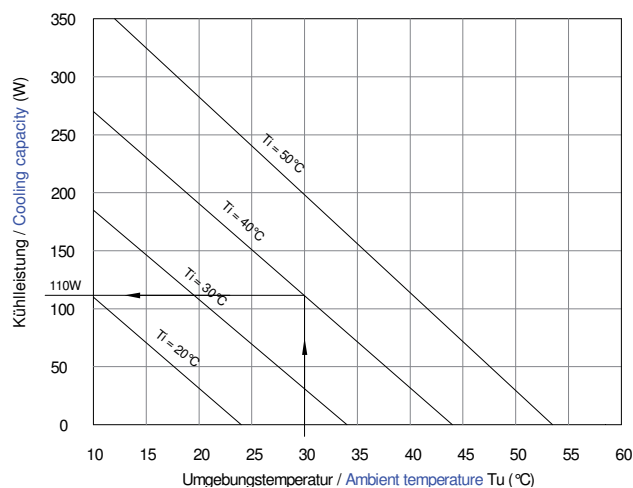


thermoelectric cooler PK 30



Technische Daten Technical data	
Kühlleistung Cooling capacity	30W
Betriebsspannung Operating voltage	24 V DC
Nennstrom Amperage	2,3 A
Betriebstemp. Operating temperature	-10...+60 °C
Zulassung Approval	UL, CE
Schutzart (Außen) Degree of protection outside	IP 43
Gewicht Weight	1,7 kg

Leistungsdiagramm / Performance curve PK 30



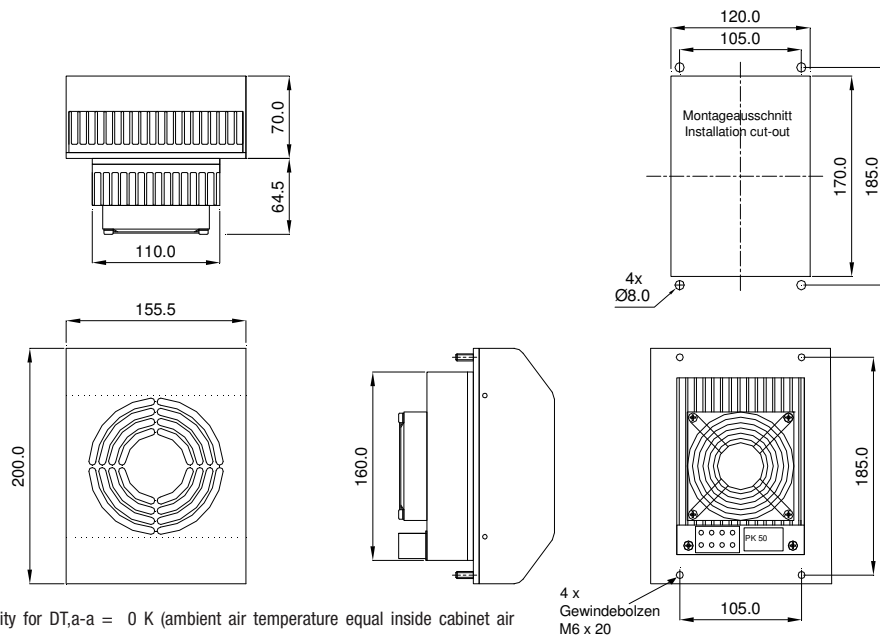
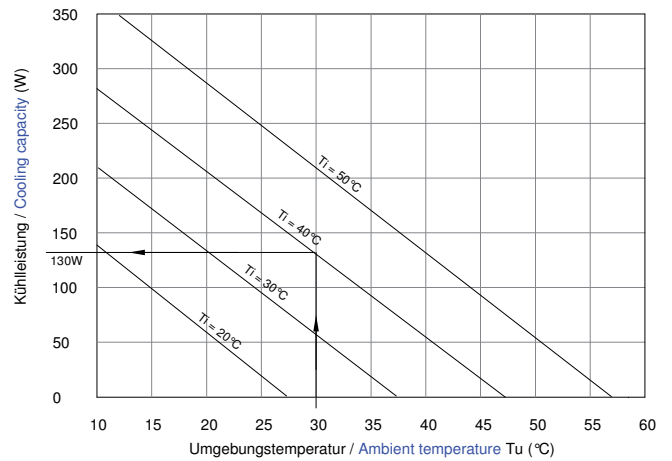
thermoelectric coolers

thermoelectric cooler PK 50



Technische Daten Technical data		
Kühlleistung Cooling capacity	50 W	
Betriebsspannung Operating voltage	12 V DC	24 V DC
Nennstrom Amperage	5,0 A	2,5 A
Betriebstemp. Operating temperature	-10...+60 °C	
Zulassung Approval	UL, CE	
Schutzart (Außen) Degree of protection outside	IP 43	IP 65
Gewicht Weight	3,9 kg	

Leistungsdiagramm / Performance curve PK 50



Nominal cooling capacity for $\Delta T_{a-a} = 0$ K (ambient air temperature equal inside cabinet air temperature), performance gradients valid for installation on uninsulated cabinet with dimensions 50 x 50 x 30 cm, H x W x D.



thermoelectric coolers

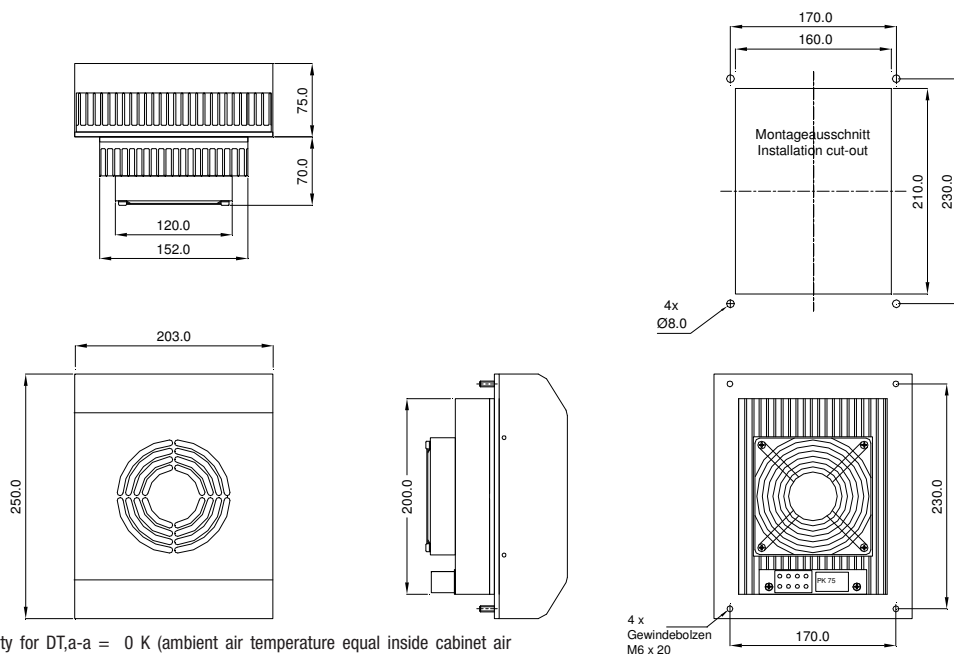
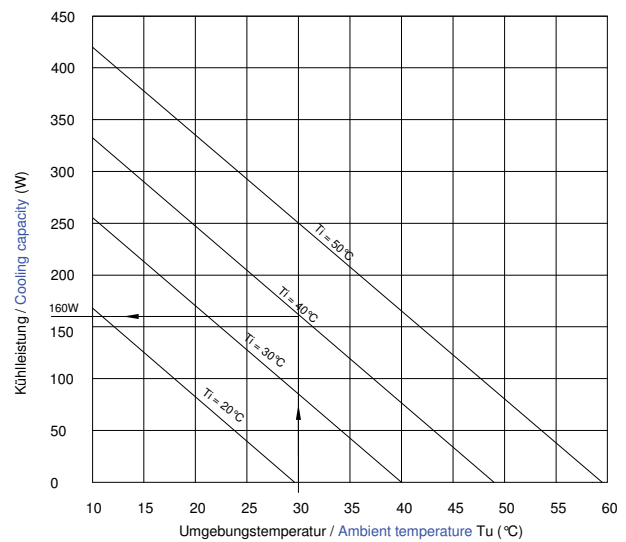


thermoelectric cooler PK 75



Technische Daten / Technical data	
Kühlleistung Cooling capacity	75 W
Betriebsspannung Operating voltage	24 V DC
Nennstrom / Amperage	3,6 A
Betriebstemp. Operating temperature	-10...+60 °C
Zulassung Approval	UL, CE
Schutzart (Außen) Degree of protection outside	IP 65
Gewicht Weight	5,5 kg

Leistungsdiagramm / Performance curve PK 75



Nominal cooling capacity for $\Delta T_{a-a} = 0$ K (ambient air temperature equal inside cabinet air temperature), performance gradients valid for installation on uninsulated cabinet with dimensions 50 x 50 x 30 cm, H x W x D.



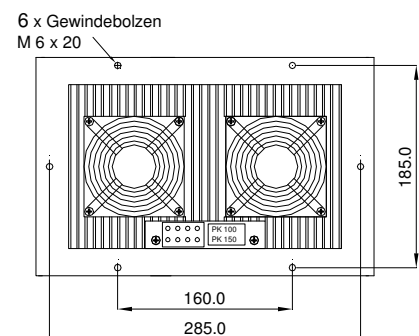
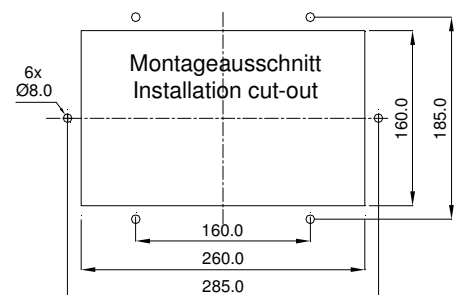
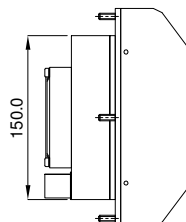
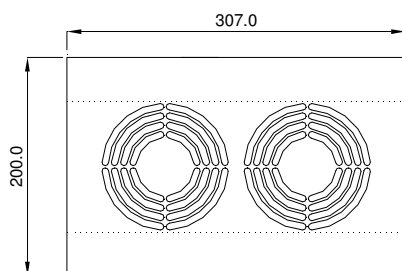
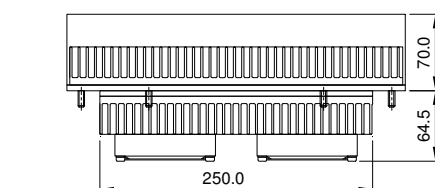
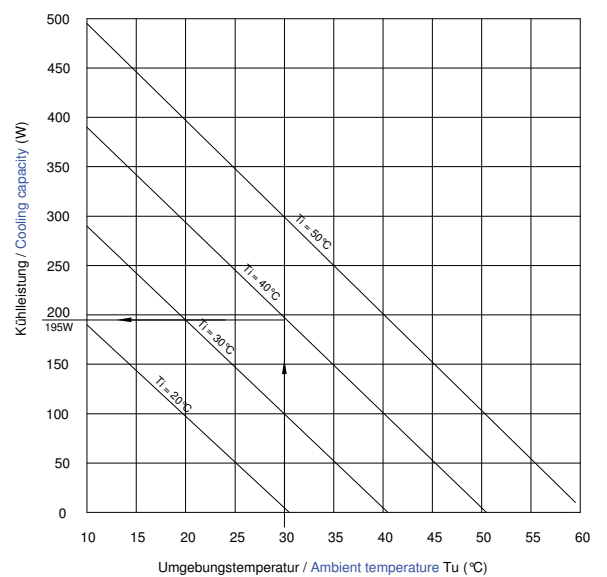
thermoelectric coolers

thermoelectric cooler PK 100



Technische Daten / Technical data		
Kühlleistung Cooling capacity	100 W	
Betriebsspannung Operating voltage	24 V DC	12 V DC
Nennstrom / Amperage	5,2 A	10,4 A
Betriebstemp. Operating temperature	-10...+60° C	
Schallpegel Noise level	48 dB(A)	
Zulassung Approval	UL, CE	
Schutzart (Außen) Degree of protection outside	IP 65	
Gewicht Weight	7,2 kg	

Leistungsdiagramm / Performance curve PK 100



Nominal cooling capacity for $\Delta T_{a-a} = 0$ K (ambient air temperature equal inside cabinet air temperature), performance gradients valid for installation on uninsulated cabinet with dimensions 50 x 50 x 30 cm, H x W x D.



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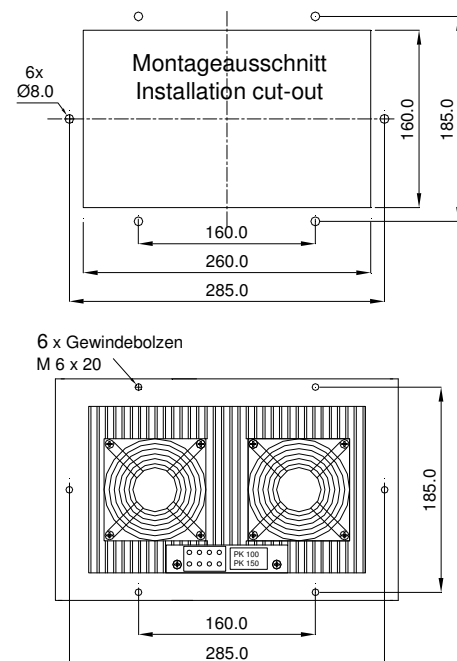
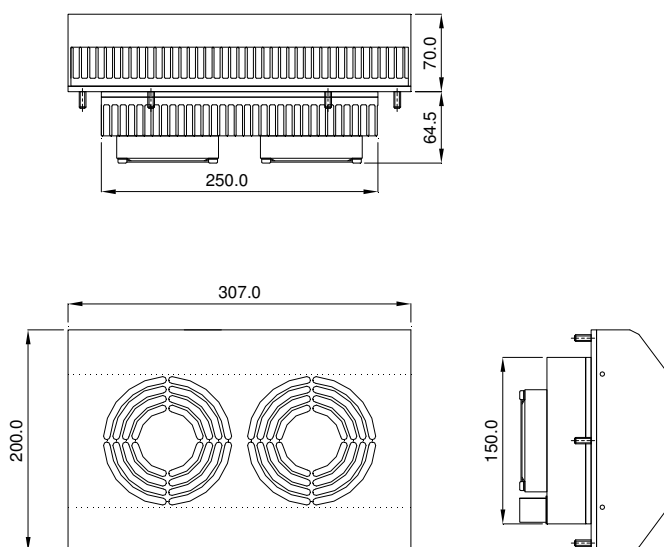
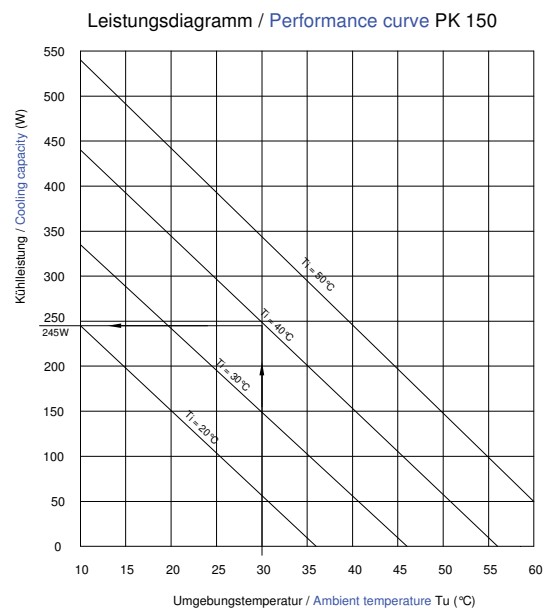


thermoelectric cooler PK 150



Technische Daten / Technical data	
Kühlleistung Cooling capacity	150 W
Betriebsspannung Operating voltage	24 V DC
Nennstrom / Amperage	7,2 A
Betriebstemp. Operating temperature	-10...+60° C
Zulassung Approval	UL, CE
Schutzart (Außen) Degree of protection outside	IP 65
Gewicht Weight	7,3 kg

Nominal cooling capacity for $\Delta T_{a-a} = 0$ K (ambient air temperature equal inside cabinet air temperature), performance gradients valid for installation on uninsulated cabinet with dimensions 50 x 50 x 30 cm, H x W x D.



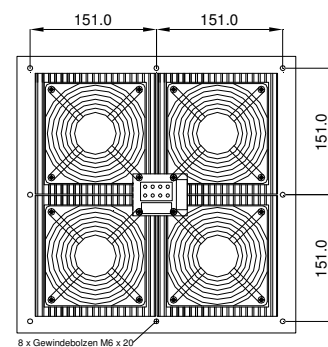
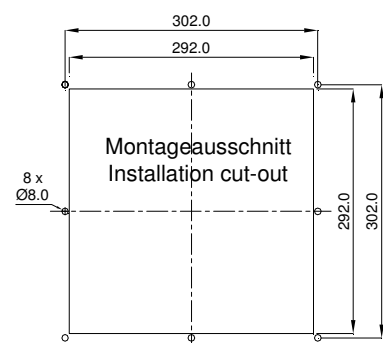
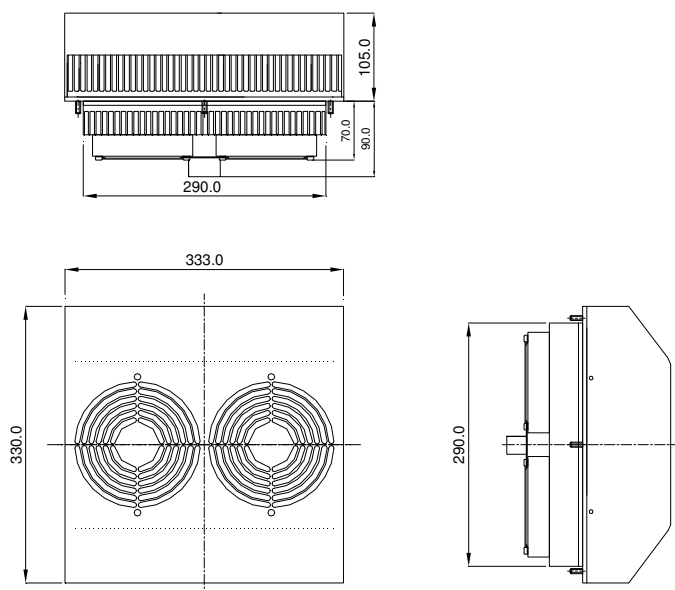
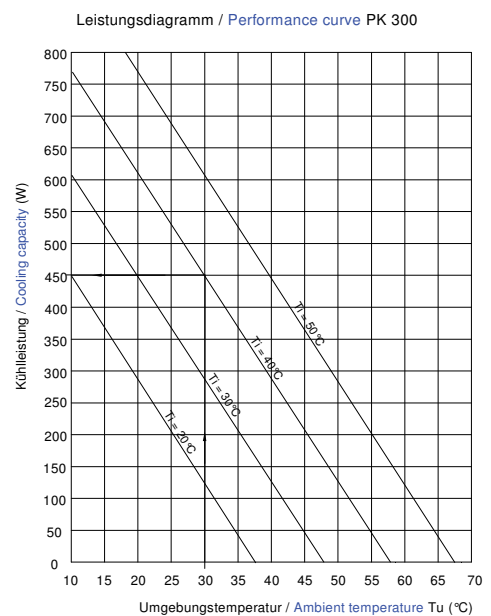
thermoelectric coolers

thermoelectric cooler PK 300



Technische Daten / Technical data	
Kühlleistung Cooling capacity	280 W
Betriebsspannung Operating voltage	24 V DC
Nennstrom / Amperage	15 A
Betriebstemperatur Operating temperature	-10...+60 °C
Zulassung Approval	CE
Schutzart (Außen) Degree of protection outside	IP 65
Gewicht Weight	18,5 kg

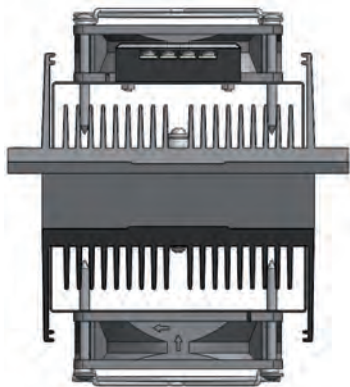
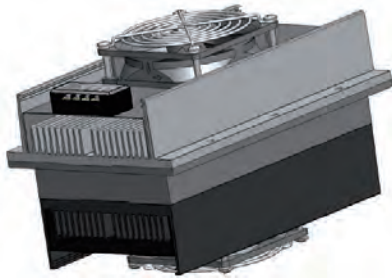
Nominal cooling capacity for $\Delta T_{a-a} = 0$ K (ambient air temperature equal inside cabinet air temperature), performance gradients valid for installation on uninsulated cabinet with dimensions 50 x 50 x 30 cm, H x W x D.



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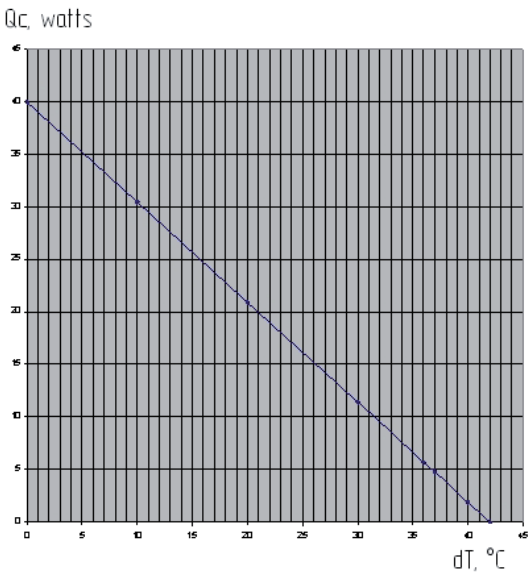
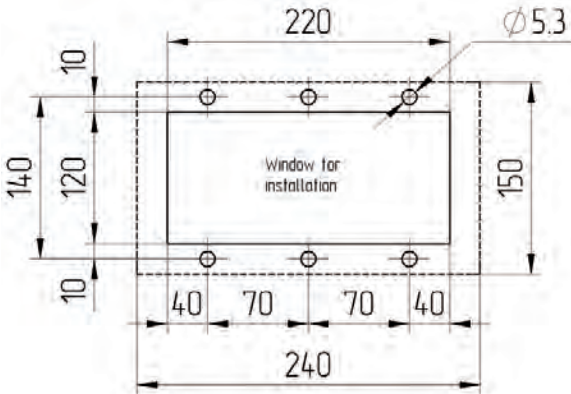
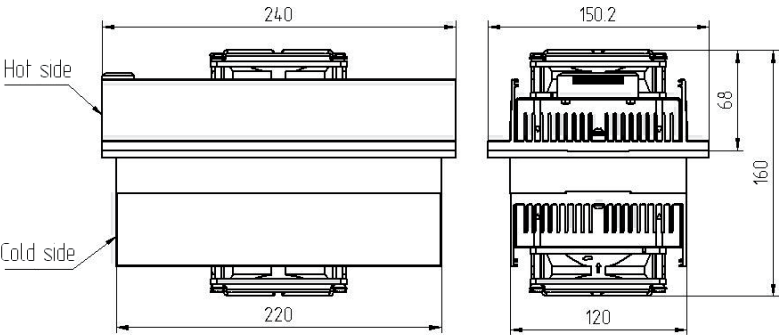
thermoelectric cooling assembly 60-24-AA



Thermoelectric parameters	Unit	Value
Operating voltage (U)	Volts	24
Operating current (I)	Amps	2.8
Electric power (P)	Watts	67
Operating cooling power (Qc)	Watts	40
Max. cooling power	Watts	54
Tolerance	%	±10

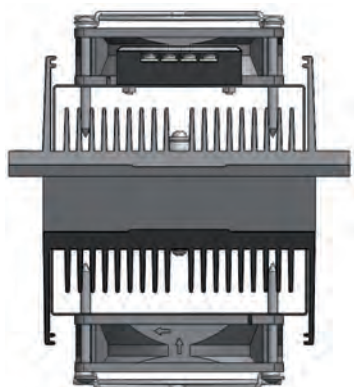
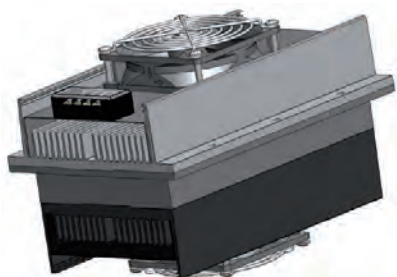
Operation parameters	Unit	Value
Working temperature range	°C	-30 ÷ +70
Noise level	dBA	36
Net weight	kg	2.8

Nominal cooling capacity for $\Delta T_{a-c} = 0$ K (ambient air temperature equals cold/inside heat sink temperature), performance gradient for 4 cm PU foam insulated cabinet with external dimensions 31 x 55 x 31 cm, H x W x D.



thermoelectric coolers

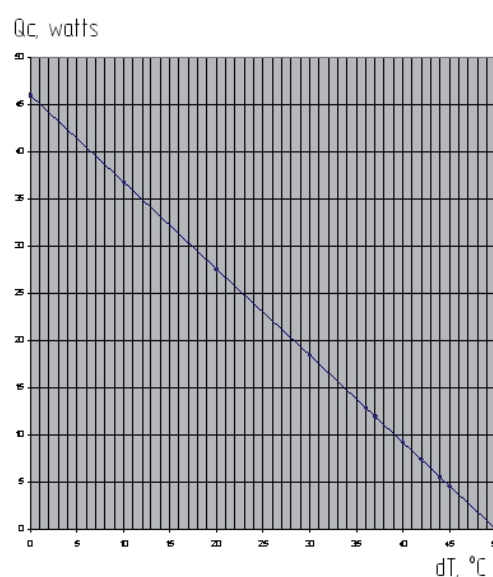
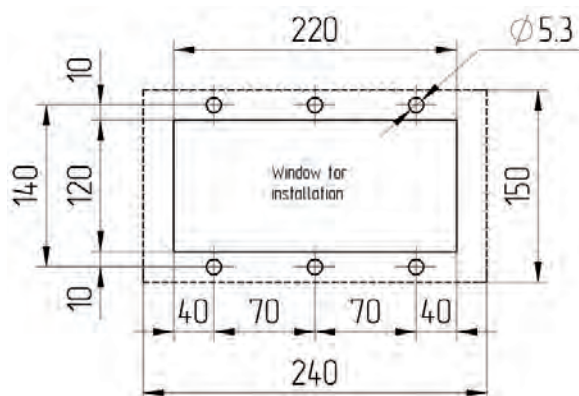
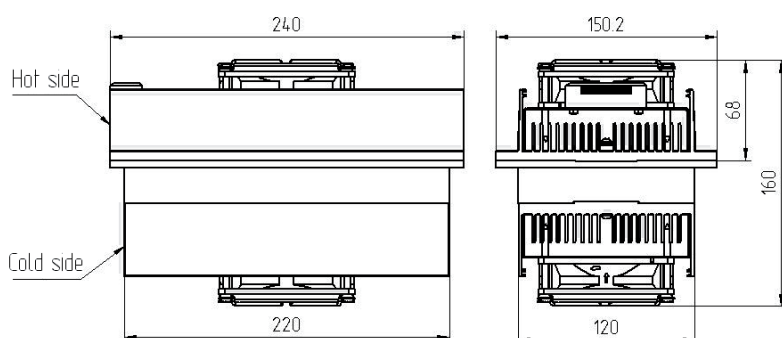
thermoelectric cooling assembly 60-12-AA



Thermoelectric parameters	Unit	Value
Operating voltage (U)	Volts	12
Operating current (I)	Amps	9
Electric power (P)	Watts	108
Operating cooling power (Q _c)	Watts	46
Max. cooling power	Watts	60
Tolerance	%	±10

Operation parameters	Unit	Value
Working temperature range	°C	-30 ÷ +70
Noise level	dBA	36
Net weight	kg	2.8

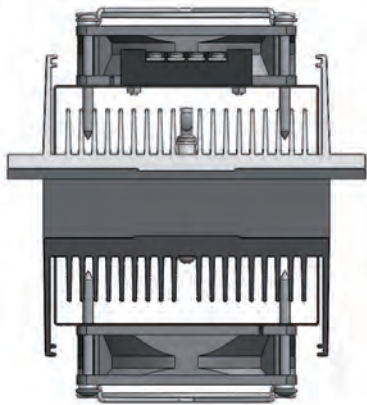
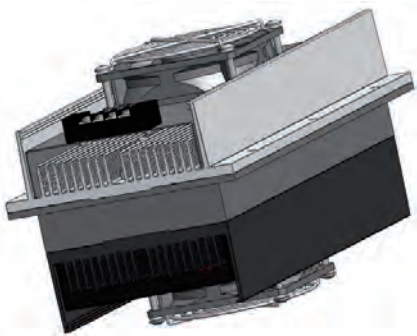
Nominal cooling capacity for $\Delta T_{a-c} = 0$ K (ambient air temperature equals cold/inside heat sink temperature), performance gradient for 4 cm PU foam insulated cabinet with external dimensions 31 x 55 x 31 cm, H x W x D.



thermoelectric coolers



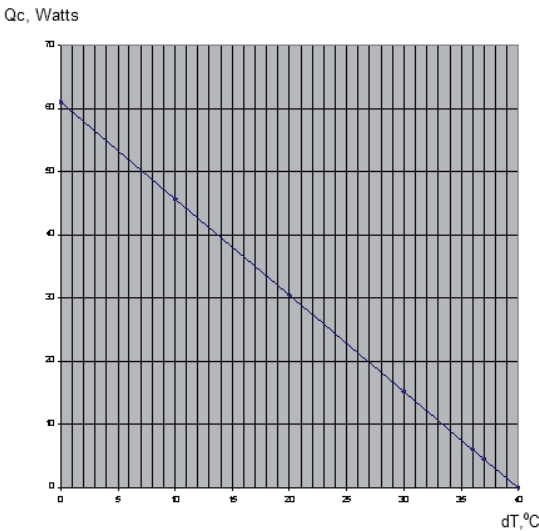
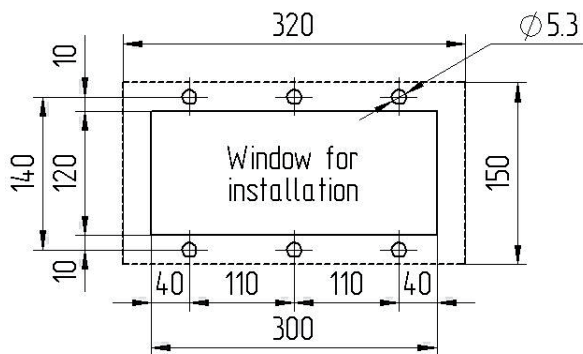
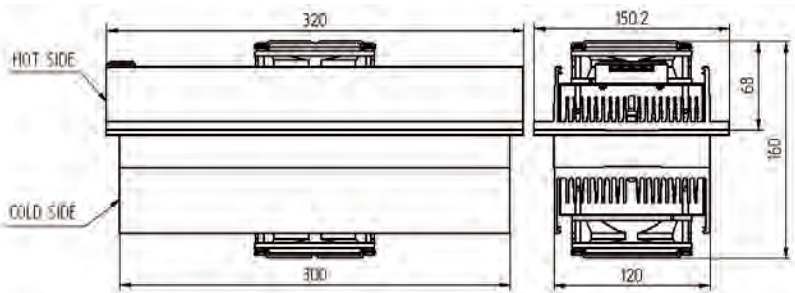
thermoelectric cooling assembly 120-24-AA



Thermoelectric parameters	Unit	Value
Operating voltage (U)	Volts	24
Operating current (I)	Amps	5.3
Electric power (P)	Watts	127
Operating cooling power (Qc)	Watts	60
Max. cooling power	Watts	90
Tolerance	%	±10

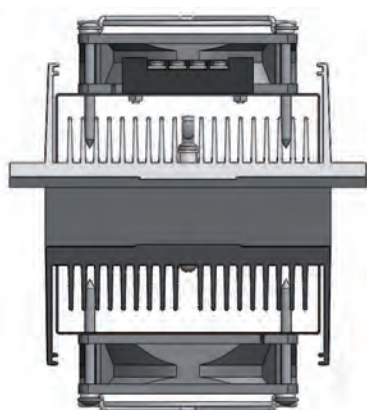
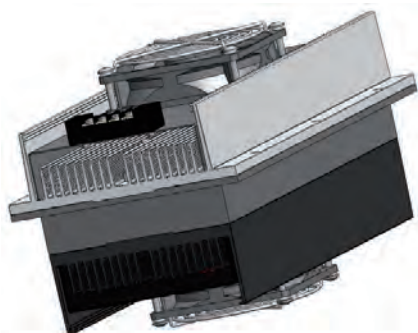
Operation parameters	Unit	Value
Working temperature range	°C	-30 ÷ +70
Noise level	dBA	36
Net weight	kg	3.7

Nominal cooling capacity for $\Delta T_{a-c} = 0$ K (ambient air temperature equals cold/inside heat sink temperature), performance gradient for 4 cm PU foam insulated cabinet with external dimensions 31 x 55 x 31 cm, H x W x D.



thermoelectric coolers

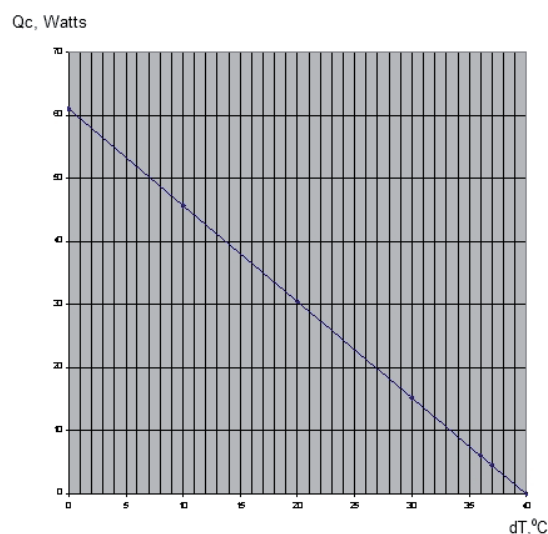
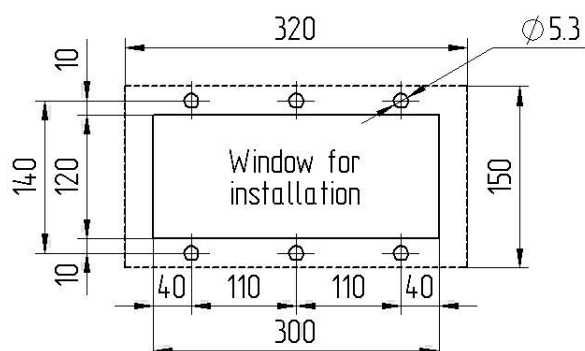
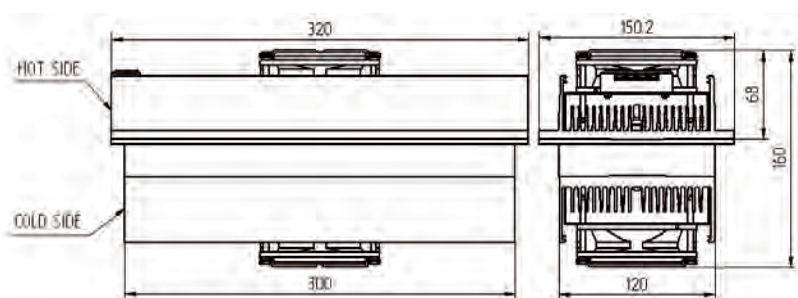
thermoelectric cooling assembly 120-12-AA



Thermoelectric parameters	Unit	Value
Operating voltage (U)	Volts	12
Operating current (I)	Amps	15.2
Electric power (P)	Watts	182
Operating cooling power (Q _c)	Watts	60
Max. cooling power	Watts	90
Tolerance	%	±10

Operation parameters	Unit	Value
Working temperature range	°C	-30 ÷ +70
Noise level	dBA	36
Net weight	kg	3.7

Nominal cooling capacity for $\Delta T_{a-c} = 0$ K (ambient air temperature equals cold/inside heat sink temperature), performance gradient for 4 cm PU foam insulated cabinet with external dimensions 31 x 55 x 31 cm, H x W x D.



thermoelectric coolers

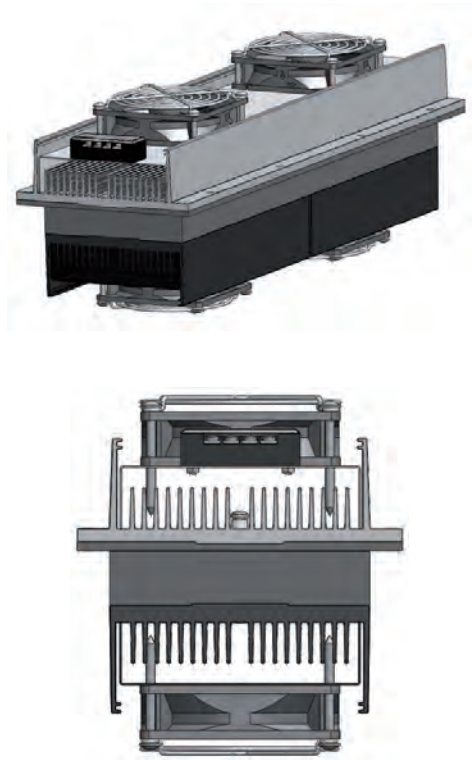


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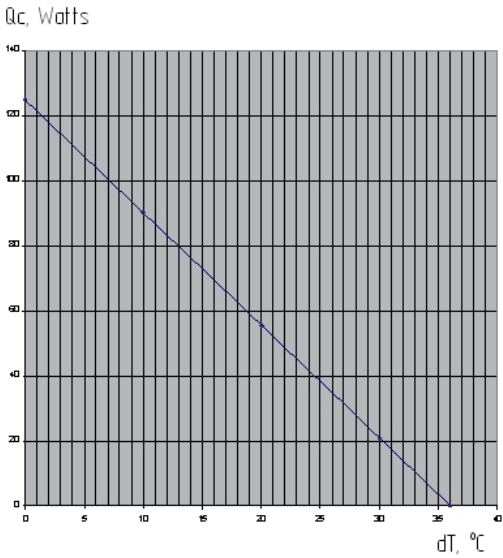
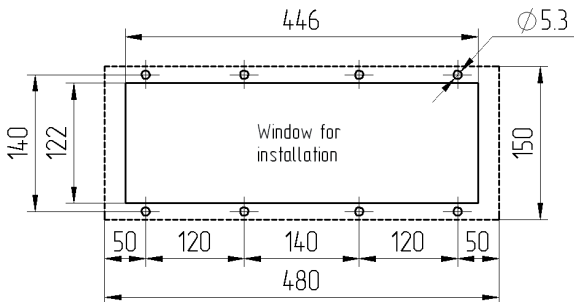
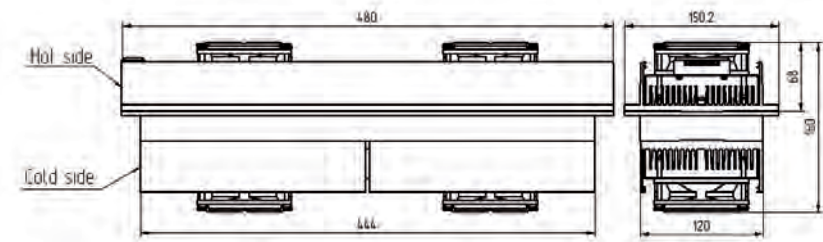
thermoelectric cooling assembly 180-24-AA



Thermoelectric parameters	Unit	Value
Operating voltage (U)	Volts	24
Operating current (I)	Amps	5.8
Electric power (P)	Watts	139
Operating cooling power (Qc)	Watts	110
Max. cooling power	Watts	125
Tolerance	%	±10

Operation parameters	Unit	Value
Working temperature range	°C	-30 ÷ +70
Net weight	kg	3.7

Nominal cooling capacity for $\Delta T_{a-c} = 0\text{ K}$ (ambient air temperature equals cold/inside heat sink temperature), performance gradient for 4 cm PU foam insulated cabinet with external dimensions 31 x 55 x 31 cm, H x W x D.



thermoelectric coolers

thermoelectric cooling assembly 380-24-AA

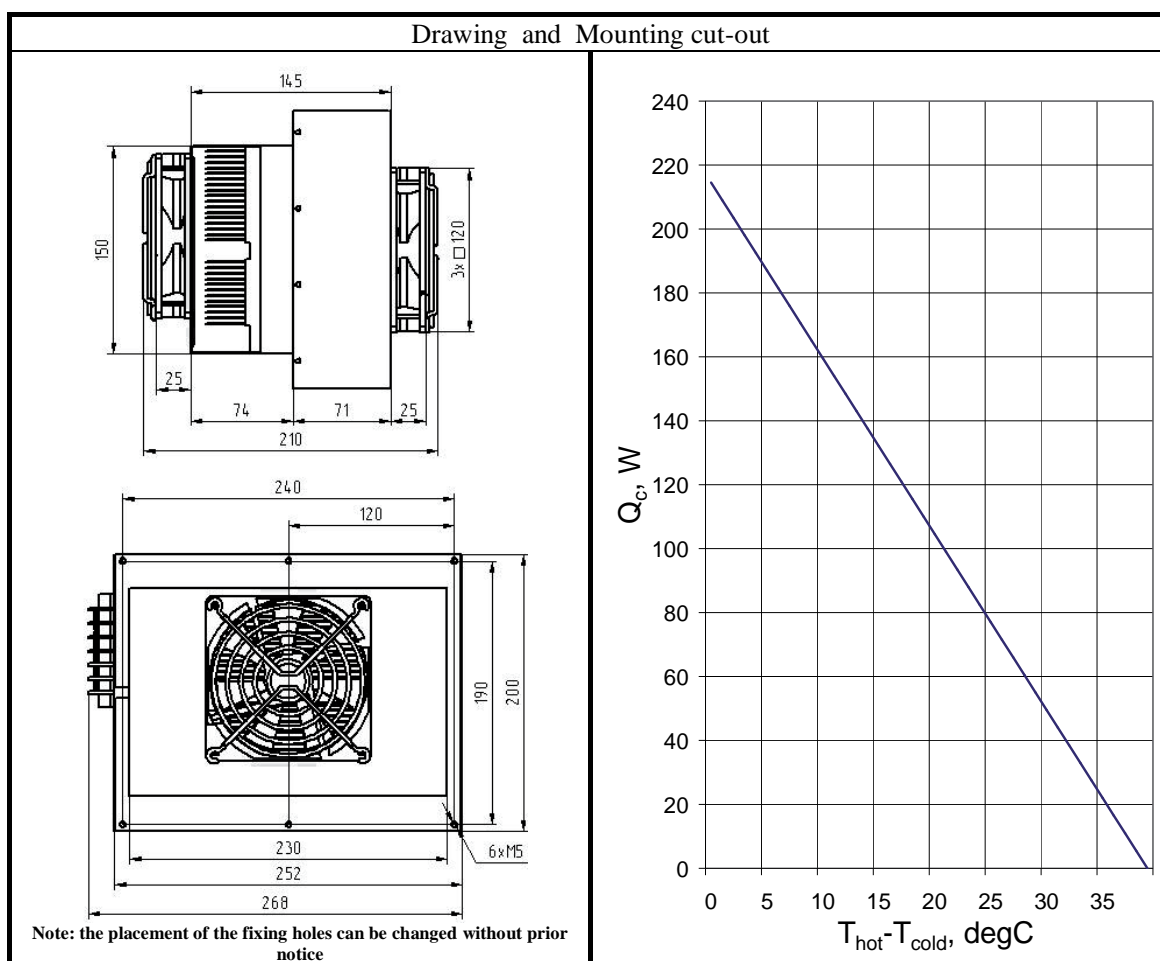
Type of thermoelectric cooling assembly	380-24-AA
Purpose	Thermoelectric assembly 380-24-AA is a solid state unit meant for cooling or temperature stabilization purposes for general application.
Technical parameters	

Maximal cooling capacity (Watts)	Operational cooling capacity (Watts)	Operating voltage (Volts, DC)	Operating current (Amps)	Dimensions		
				Length (mm)	Width (mm)	Height (mm)
380	210	24	10,4	252	200	210

Maximal cooling capacity corresponds for zero difference between temperature of cold and hot heat sinks

Operational cooling capacity corresponds for zero difference between temperature of cold heat sink and ambient temperature for ambient 21 deg.C

Working temperature range (°C)		- 10 ÷ +70		Fans	
Dimension tolerance		± 0,5 mm		Quantity	Hot side
Thermal and electrical parameters tolerance		± 10%			Cold side
Net weight, kg		6.4	Fan operating voltage/current		24/0.25
					24/0.25



Nominal cooling capacity for $DT_{a-c} = 0$ K (ambient air temperature equals cold/inside heat sink temperature), performance gradient for 4 cm PU foam insulated cabinet with external dimensions 31 x 55 x 31 cm, H x W x D.



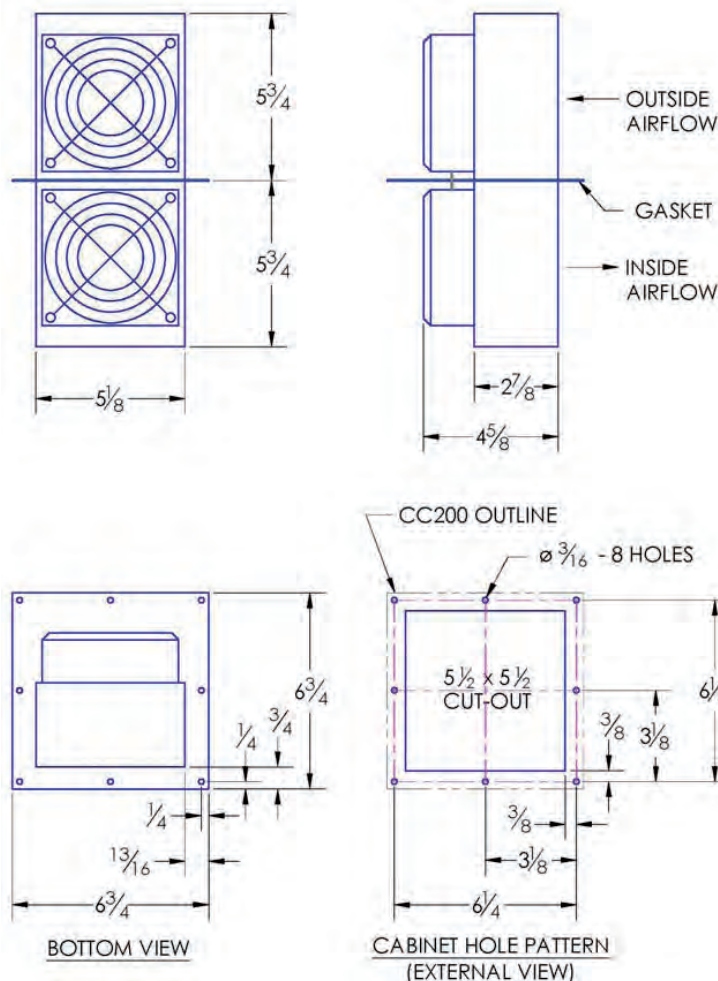
cabinet coolers – heat pipe based



CC200-24 AIR-TO-AIR DROP-IN MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size	Dimensions-Inches (H x W x D)
CC200-24	6 lbs	1,100	0.4	2 x 4"	11-1/2 x 5-1/8 x 4-5/8

Efficiency: 16.5 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC200-24 Rated cooling: 330 Watts at 20°C ΔT (16.5 W/°C, mounted to an uninsulated 24" X 24" X 16" Cabinet)
- Extends 5-3/4" into cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated

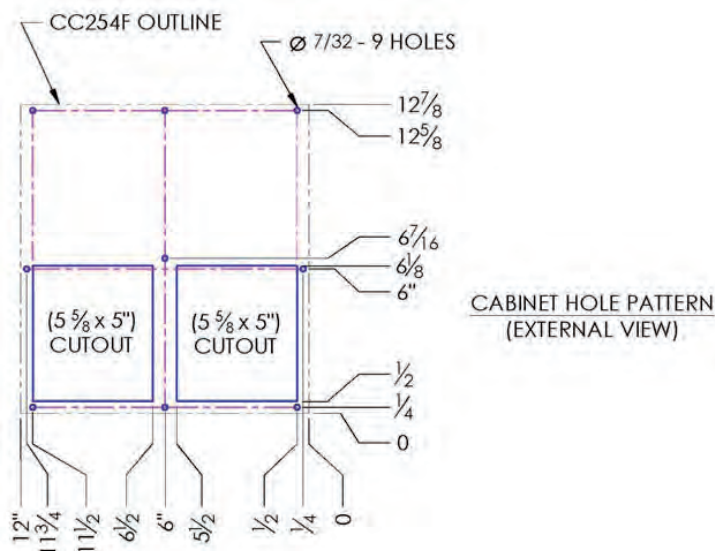
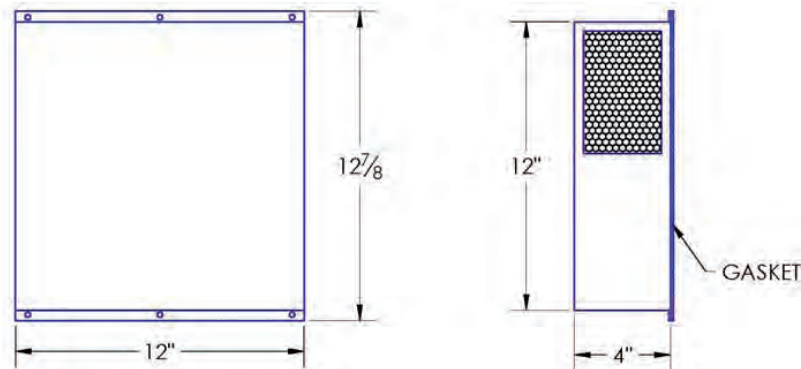


cabinet coolers – heat pipe based

CC254F-24 AIR-TO-AIR FLUSH-MOUNT MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size 2 x 4"	Dimensions-Inches (H x W x D)
CC254F-24	8 lbs	1,100	0.4	2 x 4"	12-7/8 x 12 x 4

Efficiency: 16.5 Watts / °C ΔT based on average internal cabinet temperature.



Outside View



Inside View



Filter (Optional)

Specifications:

- CC254F-24 Rated cooling: 330 Watts at 20°C ΔT (16.5 W/°C, mounted to an uninsulated 24" X 24" X 16" Cabinet)
- Designed for surface mounting on outside of cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated



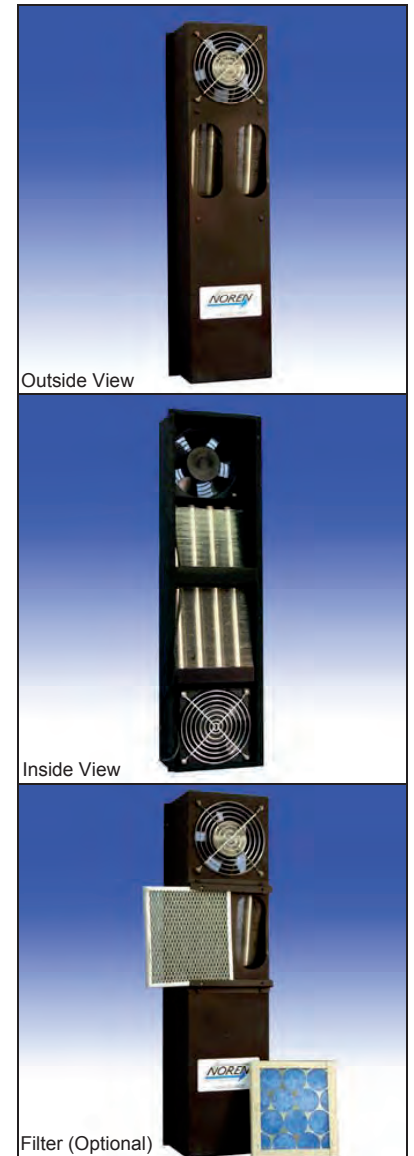
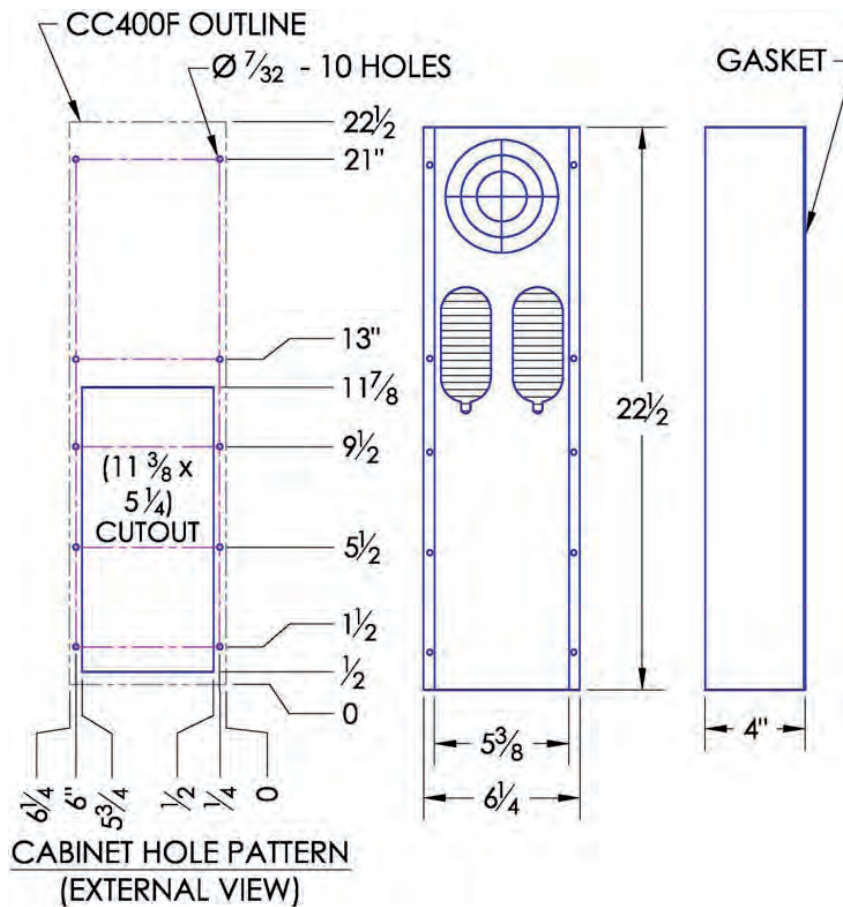
cabinet coolers – heat pipe based



CC400F-24 AIR-TO-AIR FLUSH-MOUNT MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size	Dimensions-Inches (H x W x D)
CC400F-24	10 lbs	1,400	0.4	2 x 4"	22-1/2 x 6-1/4 x 4

Efficiency: 20.4 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC400F-24 Rated cooling: 408 Watts at 20°C ΔT (20.4 W/°C, mounted to an uninsulated 24" X 24" X 16" Cabinet)
- Extends 5-3/4" into cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated

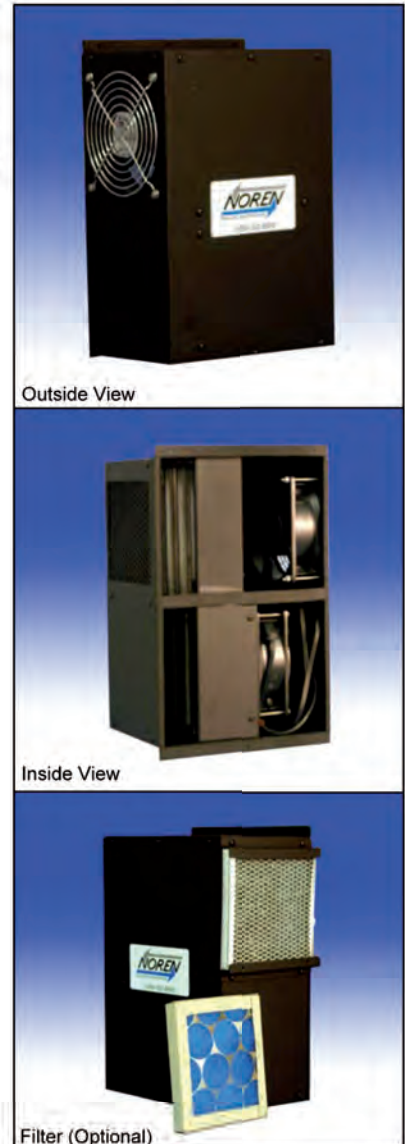
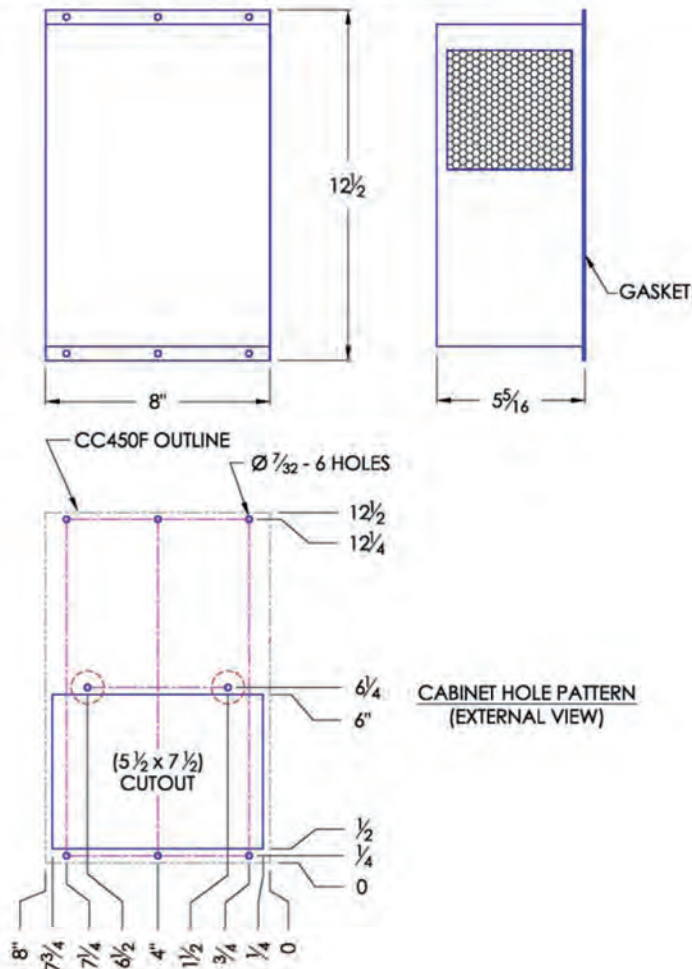


cabinet coolers – heat pipe based

CC450F-24 AIR-TO-AIR FLUSH-MOUNT MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size	Dimensions-Inches (H x W x D)
CC450F	9 lbs	1,400	0.4	2 x 4"	12-1/2 x 8 x 5-5/16

Efficiency : 21.0 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC450F-24 Rated cooling: 420 Watts at 20°C ΔT (21 W/°C, mounted to an uninsulated 24" X 24" X 16" Cabinet)
- Designed for surface mounting on outside of cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated



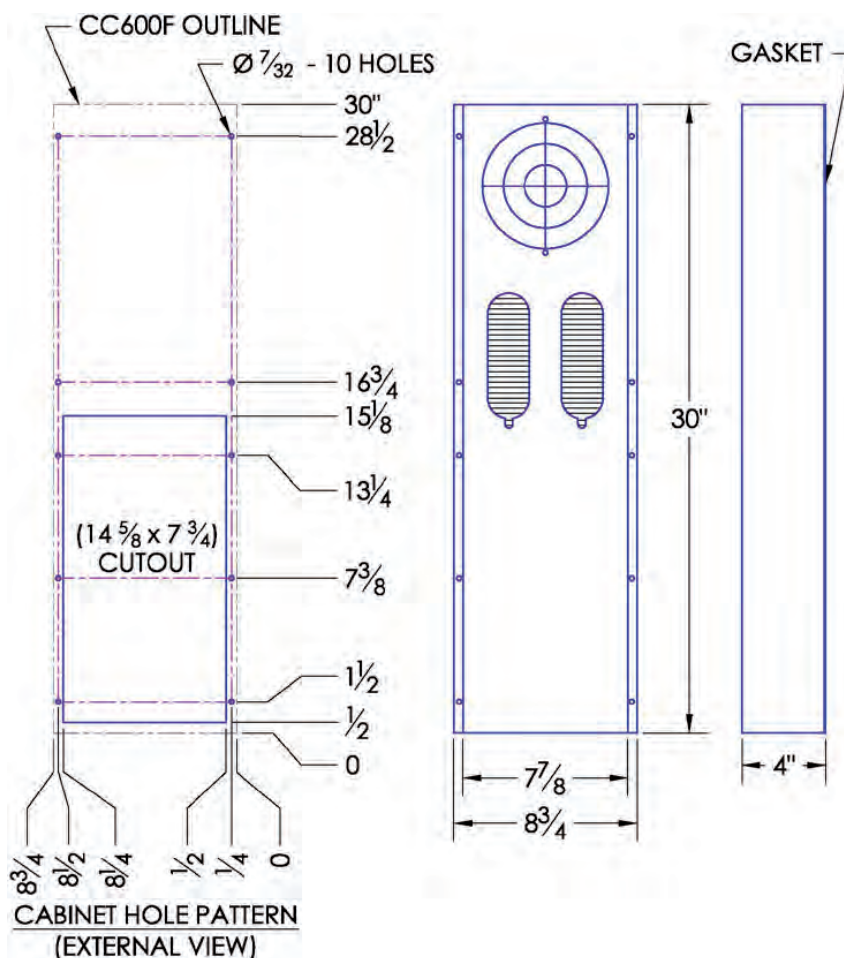
cabinet coolers – heat pipe based



CC600F-24 AIR-TO-AIR FLUSH-MOUNT MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size 2 x 6"	Dimensions-Inches (H x W x D)
CC600F-24	14 lbs	3,300	0.6	2 x 6"	30 x 8-3/4 x 4

Efficiency: 49.4 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC600F-24 Rated cooling: 988 Watts at 20°C ΔT (49.4 W/°C, mounted to an uninsulated 72" X 36" X 24" Cabinet)
- Designed for surface mounting on outside of cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Vertical and horizontal mounting ok
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated

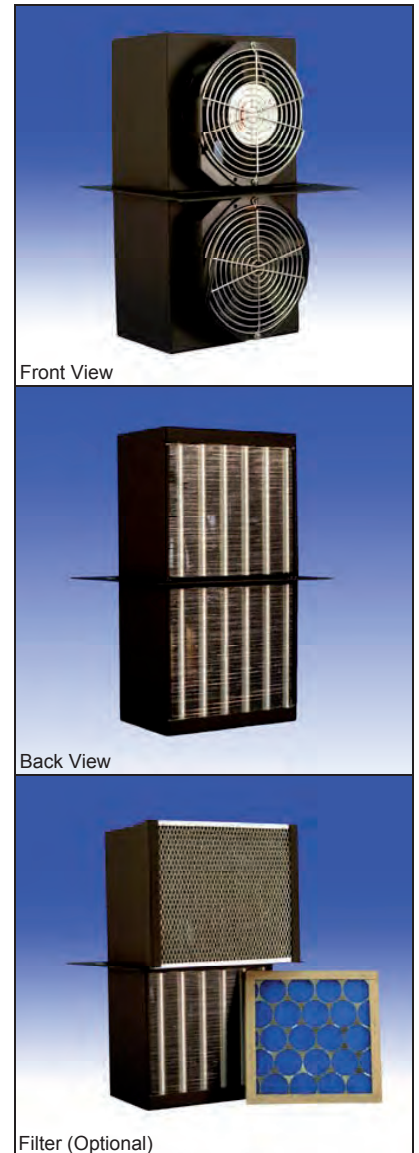
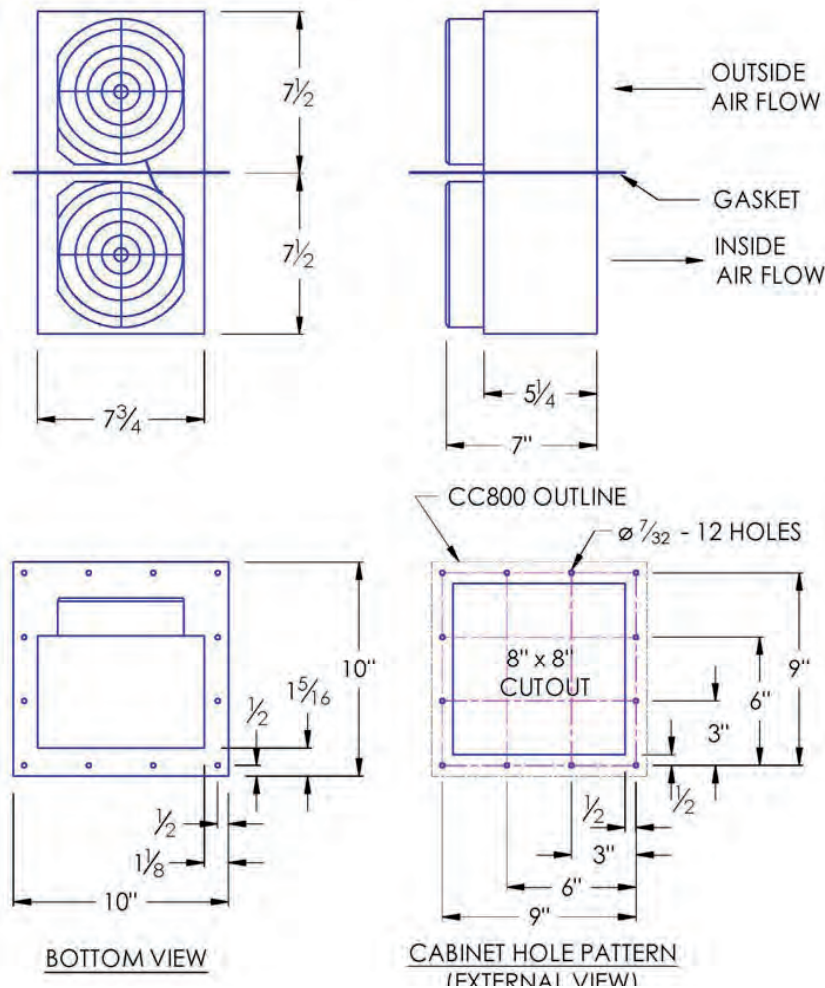


cabinet coolers – heat pipe based

CC800-24 AIR-TO-AIR DROP-IN MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size	Dimensions-Inches (H x W x D)
CC800-24	16 lbs	3,800	0.6	2 x 6"	15 x 7-3/4 x 7

Efficiency: 55.2 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC800-24 Rated cooling: 1,100 Watts at 20°C ΔT (55.2 W/°C, mounted to an uninsulated 72" X 36" X 24" Cabinet)
- Extends 7-1/2" into cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated



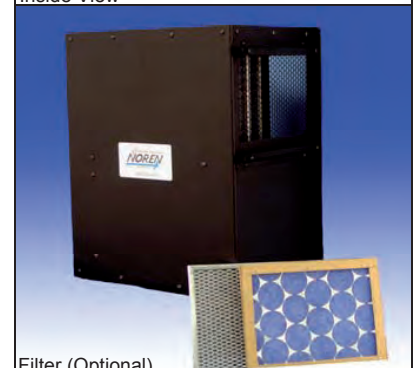
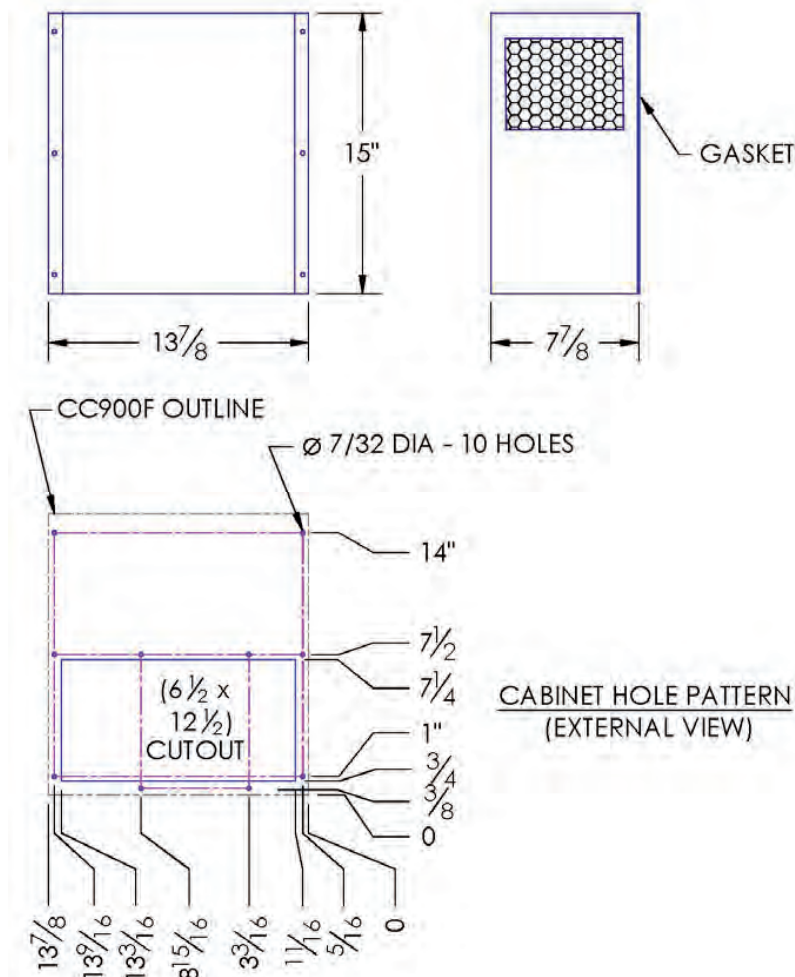
cabinet coolers – heat pipe based



CC900F-24 AIR-TO-AIR FLUSH-MOUNT MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size 2 x 6"	Dimensions-Inches (H x W x D)
CC900F-24	16 lbs	4,500	0.6	2 x 6"	15 x 13-7/8 x 7-7/8

Efficiency: 66.0 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC900F-24 Rated cooling: 1.320 Watts at 20°C ΔT (66 W/°C, mounted to an uninsulated 72" X 36" X 24" Cabinet)
- Designed for surface mounting on outside of cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated

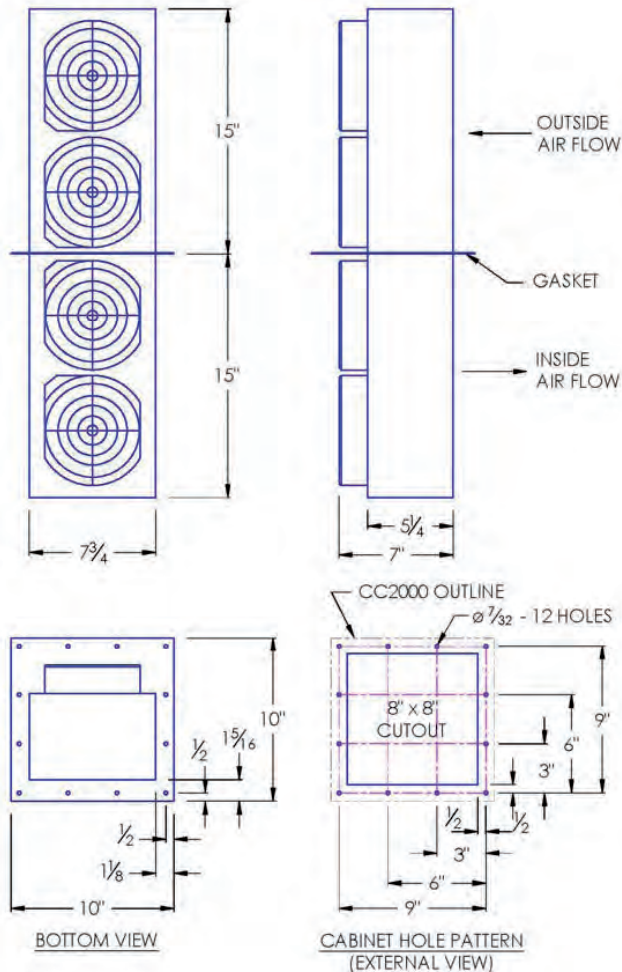


cabinet coolers – heat pipe based

CC2000-24 AIR-TO-AIR DROP-IN MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size	Dimensions-Inches (H x W x D)
CC2000-24	28 lbs	7,500	1.2	4 x 6"	30 x 7-3/4 x 7

Efficiency: 110.4 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC2000-24 Rated cooling: 2.208 Watts at 20°C ΔT (110.4 W/°C, mounted to an uninsulated 72" X 36" X 24" Cabinet)
- Extends 15" into cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated



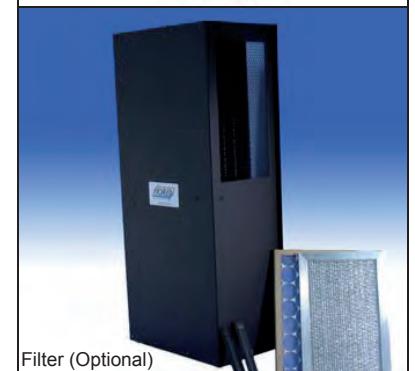
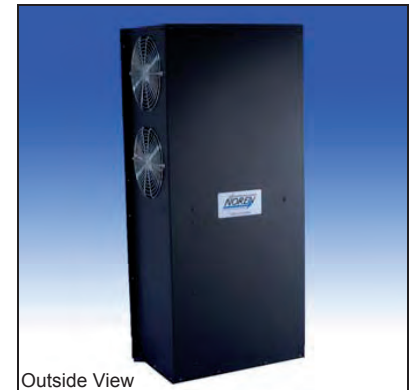
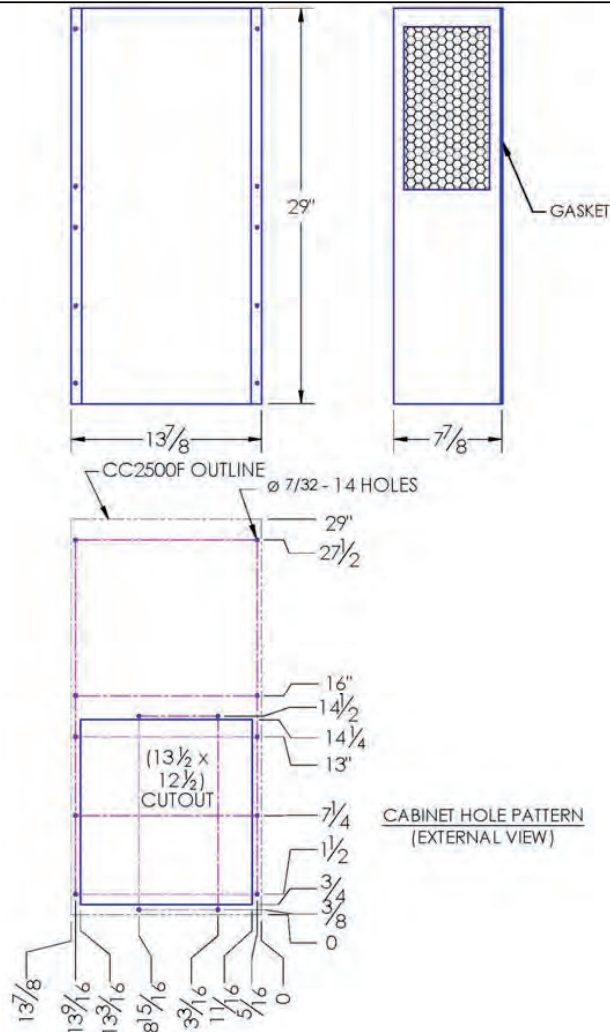
cabinet coolers – heat pipe based



CC2500F-24 AIR-TO-AIR FLUSH-MOUNT MODEL

Model	Weight	Rating @ 20°C ΔT BTU / hr	Amps Current Draw at 115 volts AC	Fan Size	Dimensions-Inches (H x W x D)
CC2500F-24	30 lbs	7,100	1.2	4 x 6"	29 x 13-7/8 x 7-7/8

Efficiency: 104.0 Watts / °C ΔT based on average internal cabinet temperature.



Specifications:

- CC2500F-24 Rated cooling: 2.080 Watts at 20°C ΔT (104 W/°C, mounted to an uninsulated 72" X 36" X 24" Cabinet)
- Designed for surface mounting on outside of cabinet
- Housing is aluminum (color is black). Stainless steel is available
- Equipped with mounting gasket to maintain air tight seal
- 115V/230V AC and 12V/48V DC options available
- Unit may be mounted vertically (as shown) or horizontally
- Optional: inlet air-filter kit available upon request
- NEMA 12 rated





compressor cooling unit

mAC-C-400-24-KIT mini Air Conditioning Kit – Cooling Capacity 400 W



Front



Back



Side

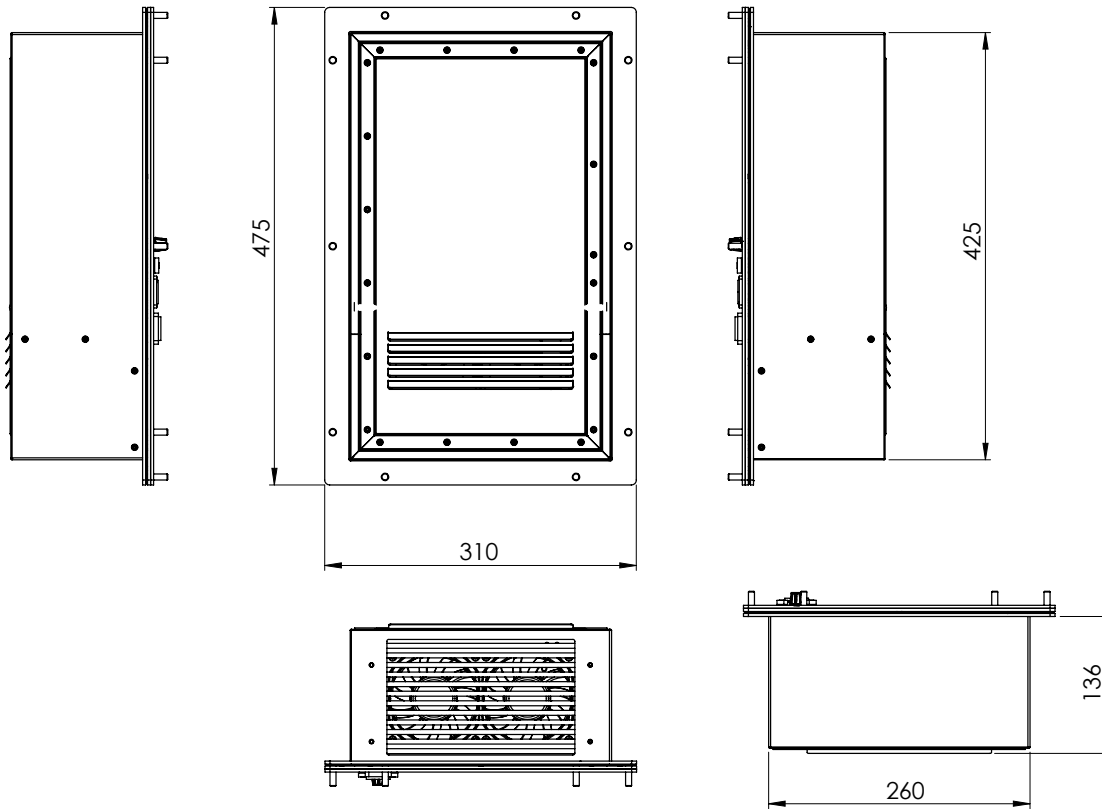
mAC-KIT is a “mini Air Conditioning” development kit for creating particularly compact, compressor-based cabinet coolers for cooling capacities up to 400 W. Miniature rotary compressors as well as customized condensers and evaporators are utilized to significantly reduce size and weight compared to Peltier-based cabinet coolers, while providing a highly efficient vapor compression circuit. With its 24 VDC supply voltage, the mAC-C-400-24-KIT can be operated on the cabinet's 24 VDC voltage rail, independent of mains voltage.

specifications

cooling capacity	400 W
operating voltage	24 VDC
operating current	max. 13 A
power consumption	max. 310 W
dimensions (l × w × h)	310 × 150 × 475 mm
external working temperature range	+10 to +50 °C
internal working temperature range	+15 to +40 °C
temperature stability	± 0.5 K
temperature setting	local control, USB/serial, Ethernet
orientation	flush mount, side wall or door
duty cycle	100%
refrigerant	R134a, 130 g (0.19 tequCO ₂)
cooling circuit max. pressure	22.06 bar
environmental protection level, enclosure side	IP2X
environmental protection level, ambient side	IP65 – suitable for harsh environments
material	sheet steel
weight	10 kg
approvals	CE

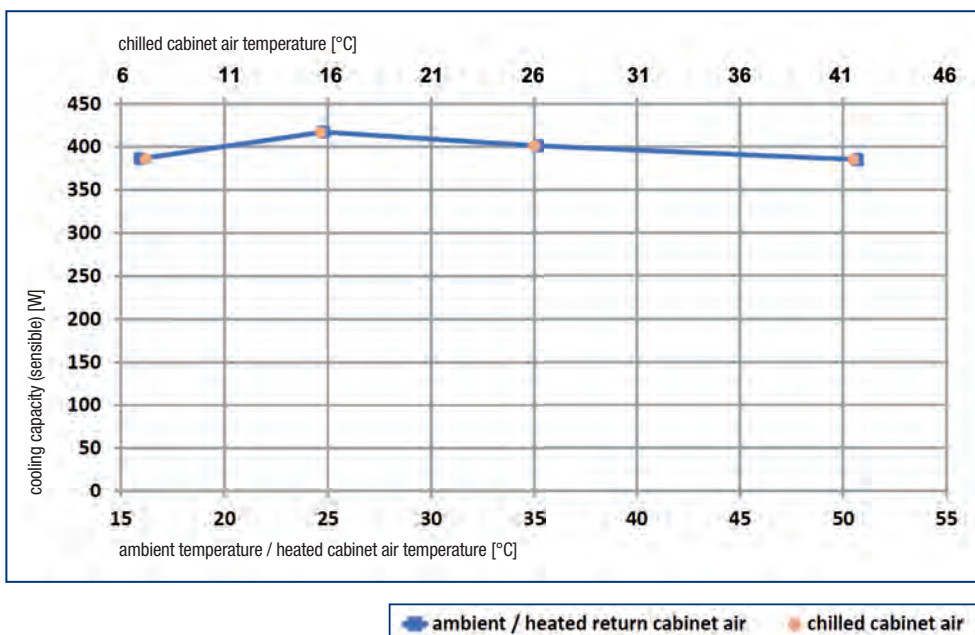


dimensions



performance

mAC-C-400-24-KIT, 100 rps, internal air circulation 130 m³/h, 55 % r.h.



thermoelectiric cooling unit

mAC-T-460-24-KIT mini Air Conditioning Kit – Cooling Capacity 450 W



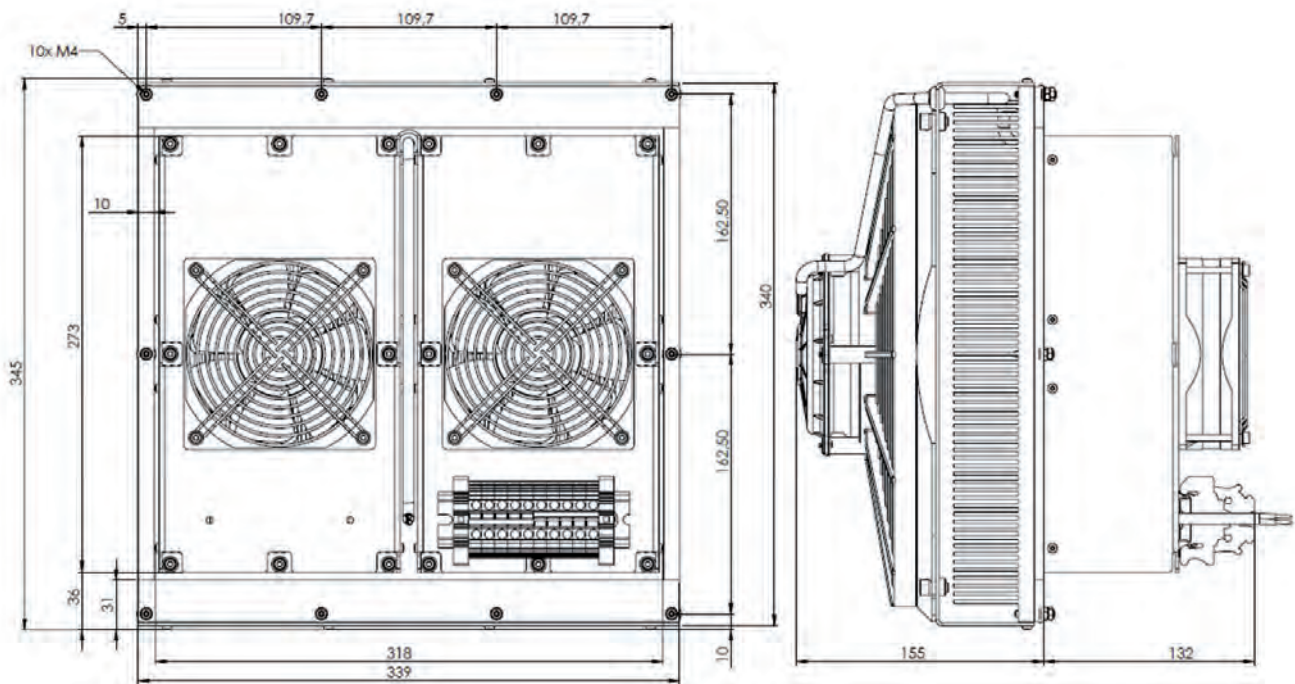
mAC-T-460-24-KIT is a mini Air Conditioning kit based on thermoelectric (Peltier) technology. Its solid state thermoelectric assembly is suitable for harsh environments where compressor-based coolers cannot withstand high temperatures, shock and vibration or operation on moving or turning equipment. The Peltier modules can be operated up to 36 VDC. At nominal 24 VDC and +35°C/+35°C (ambient/internal), the mAC-T-460-24-KIT reaches a cooling capacity of 460 W and a COP (coefficient of performance) of 0.55.

specifications

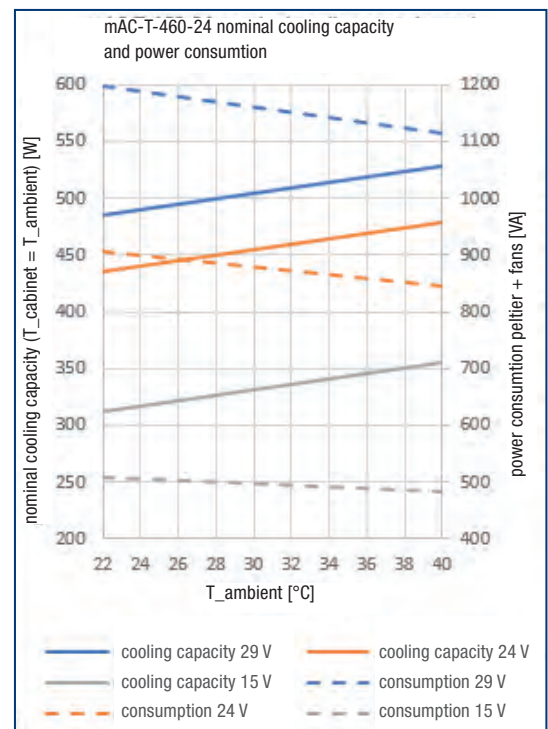
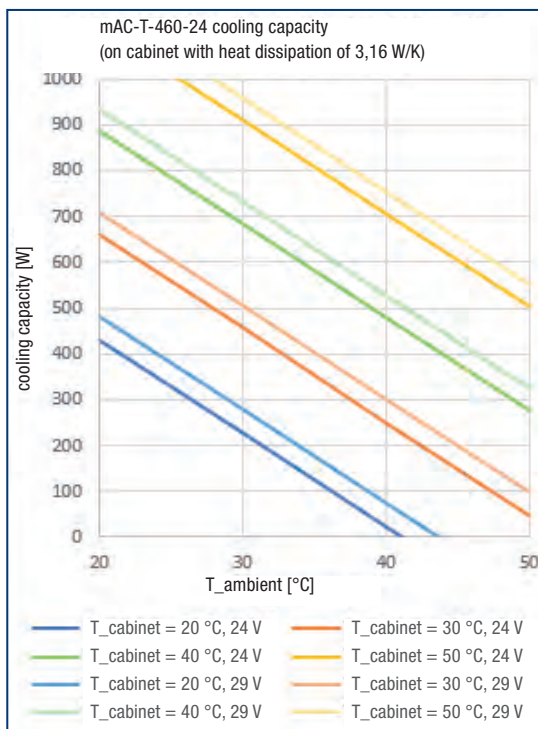
cooling capacity	460 W (@24 V)
operating voltage	24 VDC (15 to 36 VDC)
operating current	38 A (24 V), max. envir
power consumption	863 W (@24 V, +40°C ambient), max. 1200 W
dimensions (l × w × h)	287 (155 external + 132 intruding) x 339 x 345
external working temperature range	-40°C to +70°C
internal working temperature range	-40°C to +70°C
temperature stability	on/off hysteresis >5 K
temperature setting	2-point thermostat
orientation	top, side wall, bottom, inclined, moving
environmental protection level, enclosure side	IP2X
material	aluminium
weight	22 kg
approvals	-



dimensions



performance



SOLUTIONS



enabling your ideas.

Optical, Power and Thermal Management Technologies

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