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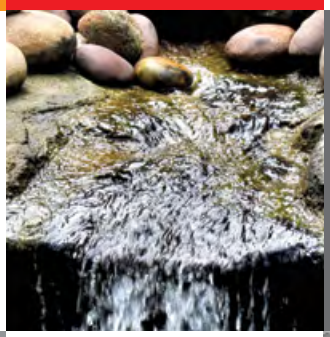
1965 - 2015

SEIFERT

thermal innovations

Thermal Management 2016

Enclosure Accessories



www.seifertsystems.com

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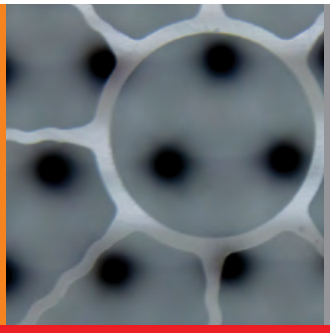
Seifert Systems is certified to ISO 9001:2008 and ISO 14001:2004 standards.



Overview table accessories

		230 V	120 V	400 V	460 V	12 V	24 V	48 V		
Enclosure heaters	**Heating power**	**Rated voltage**							**Approvals**	**Page**
KH 501 / KH 502	25 W	•	•						CE, RoHS, cURus	6 / 7
KH 501 / KH 502	50 W	•	•						CE, RoHS, cURus	6 / 7
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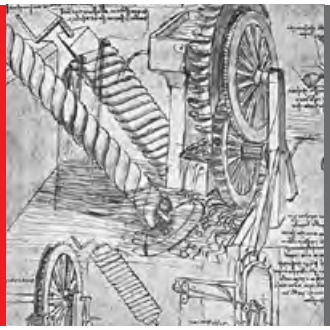
KH 801	125 W	•	•				•		CE, RoHS, cURus	9
KH 501 / KH 502	150 W	•	•						CE, RoHS, cURus	6 / 7
KH 801	200 W	•	•				•		CE, RoHS, cURus	9
KH 503	250 W	•	•						CE, RoHS, cURus	8
KH 401	300 W	•	•						CE, RoHS, cURus	5
KH 401	350 W	•	•						CE, RoHS, cURus	5
KH 503	400 W	•	•						CE, RoHS, cURus	8
KH 801	400 W	•	•						CE, RoHS, cURus	9
KH 503	500 W	•	•						CE, RoHS, cURus	8
KH 503	750 W	•	•						CE, RoHS, cURus	8
KH 801	800 W	•	•						CE, RoHS, cURus	9
Filter and Filter fans	**Max. Air volume flow**									
FF 4000 / 4000E	Outlet filters								CE, RoHS, cURus	12
FL 4010	9 cfm	•	•				•		CE, RoHS, cURus	13
FL 4023A	15 cfm	•	•						CE, RoHS, cURus	13
FL 4023D	29 cfm						•		CE, RoHS, cURus	13
FL 4210A	50 cfm	•	•				•		CE, RoHS, cURus	13
FL 4210D	28 cfm						•		CE, RoHS, cURus	13
FL 4220A	29 cfm	•	•						CE, RoHS, cURus	13
FL 4411A	77 cfm	•	•						CE, RoHS, cURus	13
FL 4421A	77 cfm	•	•						CE, RoHS, cURus	14
FL 4610D	132 cfm						•	•	CE, RoHS, cURus	14
FL 4620A	159 cfm	•	•						CE, RoHS, cURus	14
FL 4621A	71 cfm	•	•						CE, RoHS, cURus	14
FL 4830A	340cfm	•	•						CE, RoHS, cURus	14
FL 4833A	447 cfm	•	•	•	•				CE, RoHS, cURus	14
FL 6060A	288 cfm	•	•						CE, RoHS, cURus	14
Thermostats / Hygrostats	**Description**									
CC 3010	Pre-set temperature thermostat	•	•				•		CE, RoHS, cURus	16
CC 3011	Variable temperature thermostat	•	•				•		CE, RoHS, cURus	16
CC 3012	Variable twin thermostat	•	•				•		CE, RoHS, cURus	16
CC 3013	Variable changover thermostat with thermal feedback	•	•				•		CE, RoHS, cURus	16
CC 3014	Mechanical changeover hygrostat	•	•						CE, RoHS, cURus	16
CC 3015	Electronic changeover thermostat	•	•				•		CE, RoHS, cURus	16
CC 3016	Electronic changeover hygrostat	•	•				•		CE, RoHS, cURus	16
CC 3017	Electronic changeover thermostat & hygrostat	•	•				•		CE, RoHS, cURus	16



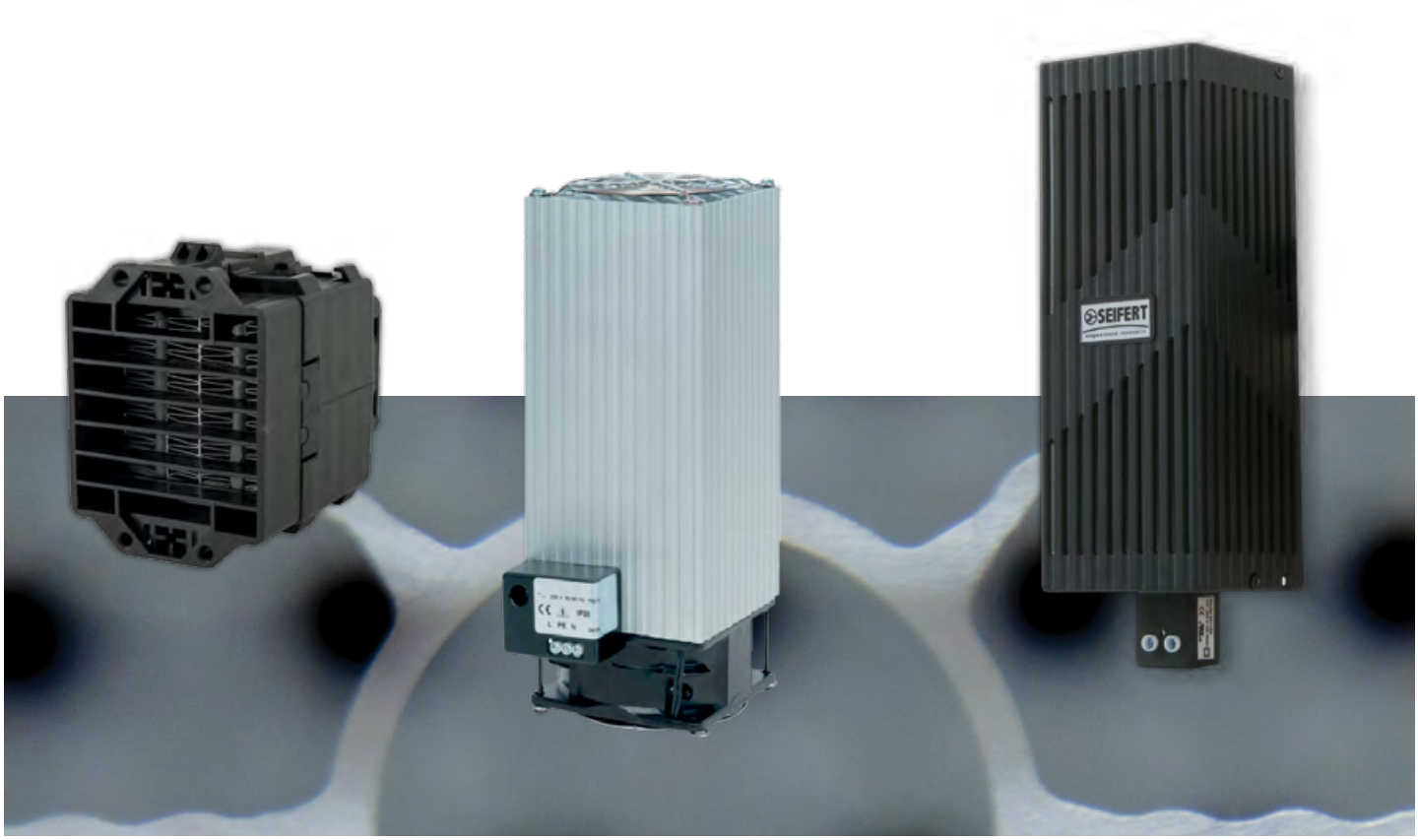
Enclosure fan heaters

Enclosure heaters are an important segment of the Seifert cabinet accessories program and form part of our thermal management solutions.

Temperature differences in enclosures, mostly in outdoor applications, often result in humidity and condensation which may cause function failures and corrosion. The use of the appropriate heating unit for your cabinet will eliminate these problems.

PTC fan heaters have a small and compact design, they heat up dynamically and are very quiet in operation. The internal warm air is equally distributed throughout the enclosure. PTC heaters have a wide voltage range and the heating power adjusts to the ambient temperature, resulting in better efficiency.

Resistor heaters have a much lower starting current compared to PTC heaters.



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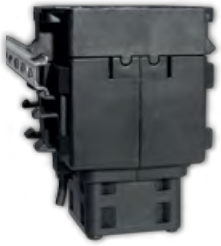
KH 401 Fan heater series

Order number	Power output @ 50°F	Fan air flow	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) inch	QR code
401300DSA7C000	300 W	6 cfm	100 - 240 V - 50/60 Hz Fan 24 V	14°F - +158°F	3.6 x 2.1 x 3.1	Click here for full technical specifications
401350DCA7C000	350 W	10 cfm	100 - 240 V - 50/60 Hz Fan 24 V	-40°F - +158°F	3.6 x 2.1 x 3.1	
409005	AC / DC power supply		Input 85 - 264 V AC or 100 - 300 V DC Output 24 V DC (max. 5 W)	32°F - +131°F	2.36 x 1.54 x 1.53	

Delivery includes DIN rail clip and screw mount

DIN rail clip for:



DIN rail 15mm

DIN rail 35mm

G - rail

Screw mount side

Screw mount back

AC / DC power supply

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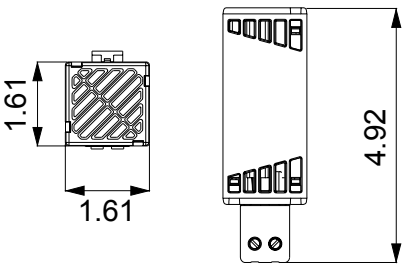
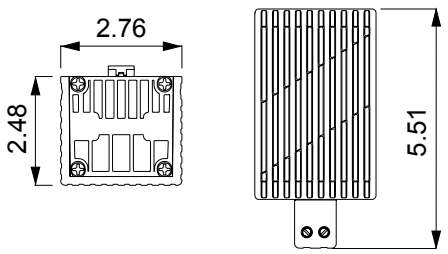
KH 501 PTC heater series

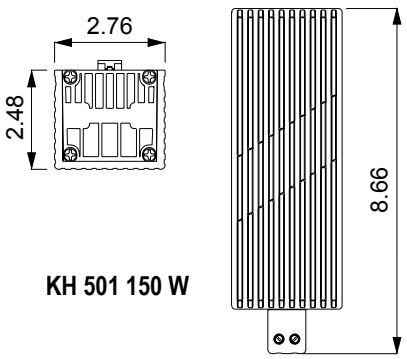
Order number	Connection	Power output @ 68°F	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) inch	WEB link
501025	2 screw terminal block for standard or rigid wire AWG 14	25 W	100 - 240 V AC / DC 50/60 Hz	-49°F - 158°F	4.92 x 1.61 x 1.61	Click here for full technical specifications
501050	2 screw terminal block for standard or rigid wire AWG 14	50 W	100 - 240 V AC / DC 50/60 Hz	-49°F - 158°F	4.92 x 1.61 x 1.61	Click here for full technical specifications
501075	2 screw terminal block for standard or rigid wire AWG 14	75 W	100 - 240 V AC / DC 50/60 Hz	-49°F - 158°F	5.51 x 2.76 x 2.48	Click here for full technical specifications
501100	2 screw terminal block for standard or rigid wire AWG 14	100 W	100 - 240 V AC / DC 50/60 Hz	-49°F - 158°F	5.51 x 2.76 x 2.48	Click here for full technical specifications
501150	2 screw terminal block for standard or rigid wire AWG 14	150 W	100 - 240 V AC / DC 50/60 Hz	-49°F - 158°F	8.86 x 2.76 x 2.48	Click here for full technical specifications



KH 501 25 - 50 W



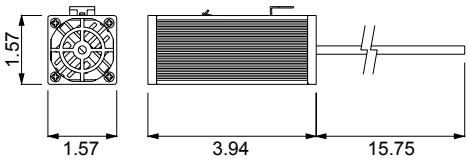
KH 501 75 - 100 W



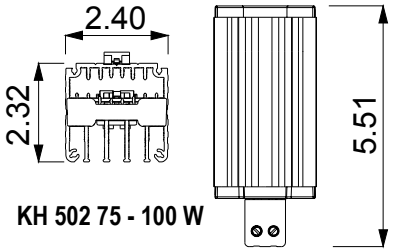
KH 501 150 W

KH 502 PTC heater series

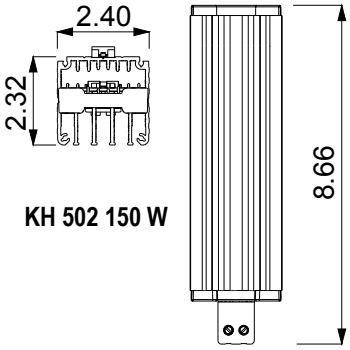
Order number	Connection	Power output @ 68°F	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) inch	WEB link
502025	Silicon cable, 2 x AWG 20, length 15.75 inch	25 W	100 - 240 V AC / DC	-49°F - 158°F	3.94 x 1.57 x 1.57	Click here for full technical specifications
502050	Silicon cable, 2 x AWG 20, length 15.75 inch	50 W	100 - 240 V AC / DC	-49°F - 158°F	3.94 x 1.57 x 1.57	Click here for full technical specifications
502075	2 screw terminal block for standard or rigid wire 2.5 mm²	75 W	100 - 240 V AC / DC	-49°F - 158°F	5.51 x 2.32 x 2.40	Click here for full technical specifications
502100	2 screw terminal block for standard or rigid wire 2.5 mm²	100 W	100 - 240 V AC / DC	-49°F - 158°F	5.51 x 2.32 x 2.40	Click here for full technical specifications
502150	2 screw terminal block for standard or rigid wire 2.5 mm²	150 W	100 - 240 V AC / DC	-49°F - 158°F	8.66 x 2.32 x 2.40	Click here for full technical specifications



KH 502 25 - 50 W



KH 502 75 - 100 W

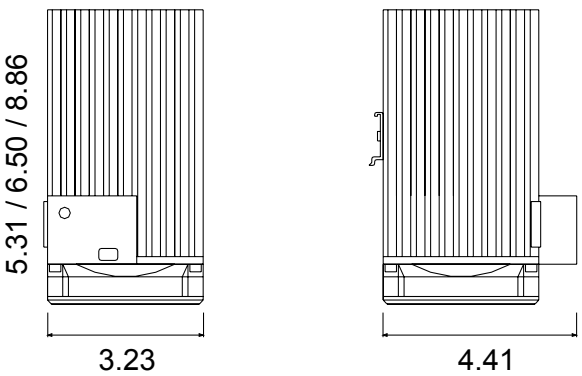


KH 502 150 W

KH 503 - Fan assisted resistor heaters

Order number	Connection	Power output	Fan air flow	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) inch	Web link
503250	3 screw terminal block for stranded or rigid wire AWG 14	250 W	20.6 cfm	230 V - 50/60 Hz	-13°F - 158°F	5.31 x 3.23 x 4.4	Click here for full technical specifications
503251	3 screw terminal block for stranded or rigid wire AWG 14	250 W	20.6 cfm	120 V - 50/60 Hz	-13°F - 158°F	5.31 x 3.23 x 4.4	
503400	3 screw terminal block for stranded or rigid wire AWG 14	400 W	20.6 cfm	230 V - 50/60 Hz	-13°F - 158°F	6.50 x 3.23 x 4.4	Click here for full technical specifications
503401	3 screw terminal block for stranded or rigid wire AWG 14	400 W	20.6 cfm	120 V - 50/60 Hz	-13°F - 158°F	6.50 x 3.23 x 4.4	
503500	3 screw terminal block for stranded or rigid wire AWG 14	500 W	20.6 cfm	230 V - 50/60 Hz	-13°F - 158°F	6.50 x 3.23 x 4.4	Click here for full technical specifications
503501	3 screw terminal block for stranded or rigid wire AWG 14	500 W	20.6 cfm	120 V - 50/60 Hz	-13°F - 158°F	6.50 x 3.23 x 4.4	
503750	3 screw terminal block for stranded or rigid wire AWG 14	750 W	25.9 cfm	230 V - 50/60 Hz	-13°F - 158°F	8.86 x 3.23 x 4.4	Click here for full technical specifications
503751	3 screw terminal block for stranded or rigid wire AWG 14	750 W	25.9 cfm	120 V - 50/60 Hz	-13°F - 158°F	8.86 x 3.23 x 4.4	

Note: All heater are delivered with DIN rail clip 1.38 inch



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KH 801 Fan heater series

Order number	Power output @ 50°F	Fan air flow	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) inch	WEB link
801125A44001	125 W	16 cfm	230 V - 50/60 Hz	-4°F - 104°F	5.39 x 4.09 x 4.61	Click here for full technical specifications
801125A33001	125 W	16 cfm	120 V - 50/60 Hz	-4°F - 104°F	5.39 x 4.09 x 4.61	
801125D22001	125 W	16 cfm	24 V DC	-4°F - 104°F	5.39 x 4.09 x 4.61	
801200A44001	200 W	16 cfm	230 V - 50/60 Hz	-4°F - 104°F	5.39 x 4.09 x 4.61	Click here for full technical specifications
801200A33001	200 W	16 cfm	120 V - 50/60 Hz	-4°F - 104°F	5.39 x 4.09 x 4.61	
801200D22001	200 W	16 cfm	24 V DC	-4°F - 104°F	5.39 x 4.09 x 4.61	
801400A44001	400 W	26 cfm	230 V - 50/60 Hz	-4°F - 104°F	7.48 x 4.09 x 4.61	Click here for full technical specifications
801400A33001	400 W	26 cfm	120 V - 50/60 Hz	-4°F - 104°F	7.48 x 4.09 x 4.61	
801800A44001	800 W	26 cfm	230 V - 50/60 Hz	-4°F - 104°F	7.48 x 4.09 x 4.61	Click here for full technical specifications
801800A33001	800 W	26 cfm	120 V - 50/60 Hz	-4°F - 104°F	7.48 x 4.09 x 4.61	

Filter Fans

Filter fans are used if the desired cabinet temperature can be constantly above the ambient air temperature.

In combination with thermostats from Seifert you can save on energy since the fan is only on when actually needed, on material because less consumption of filter mats and on time since less cleaning is required. All this will ensure a longer life time of the filter fans and will enhance your process reliability and safety.

All our filter fans are also available as EMC and NEMA 3R versions. NEMA 3R models are made out of UV and frost resistant plastic material (PBT).

Special features of our filter fans are:

- no tools required for installation
- shielded and self-lubricating ball bearing fans
- permanent sealing gasket in polyurethane foam
- filter media can be cleaned, up to 10 times by washing, blowing dry and lightly beating
- optional fixing with screws (with EMC versions fixing with screws is mandatory)

How to use filter fans correctly?

Preferably use the filter fan to blow the cool ambient air into enclosure (Fig.2.and Fig.3). This ensures that a slight positive pressure builds up inside the cabinet and that only filtered air flows inside it. The air blown into the cabinet displaces the warm air which exits through the exhaust filter. If however air is drawn out of the cabinet by suction power (Fig.1) only filtered ambient air should enter the cabinet. Ensure that no unfiltered air can enter through poor seals or cable entries.

If you install a combination of filter fan/exhaust filter, the filter fan should always be placed in the lower third of the cabinet and the exhaust filter should be in the upper part of the cabinet to prevent heat pockets inside.

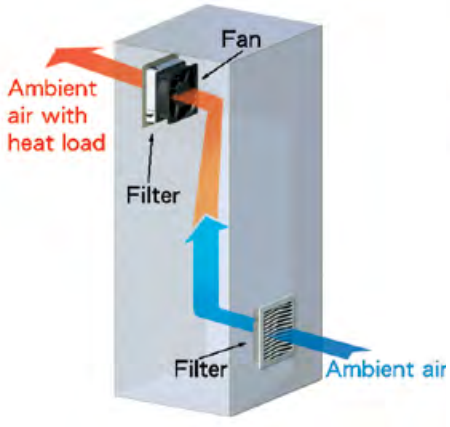


Fig.1 Exhaust System

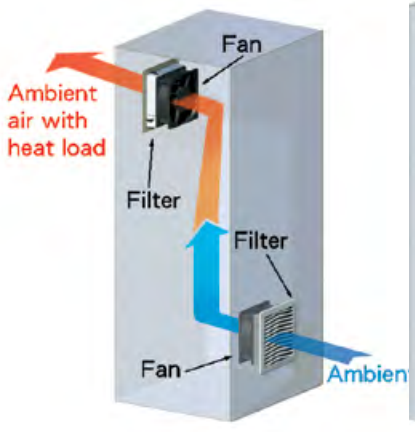


Fig.2 Pressure & Exhaust System

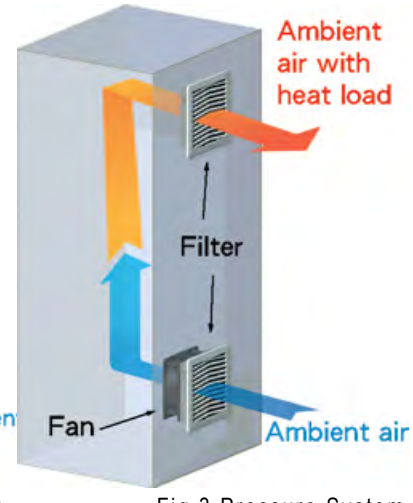


Fig.3 Pressure System

Rapid installation

Mounting without screws, just by simply pressing it onto the enclosure cutout.

Operational safety

Replacement of the filter from the outside, without tools.

Slide opening

Cover fixed to and released from base via sliding catches.

EMC compliance

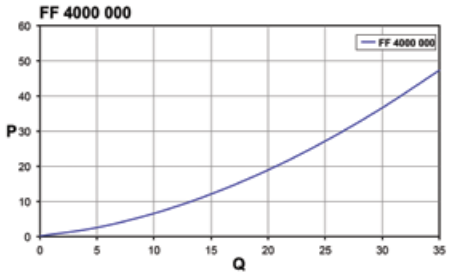
EMC models available.

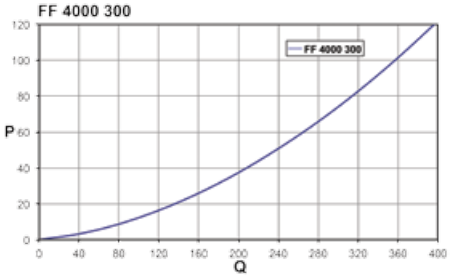
UL listed Type 12, 3R

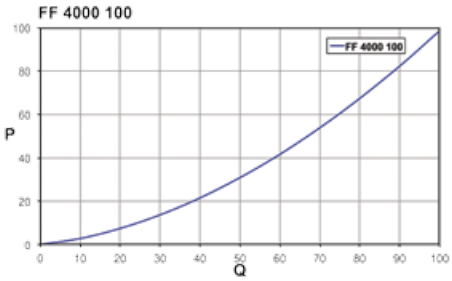
FF 4000 Outlet filter series

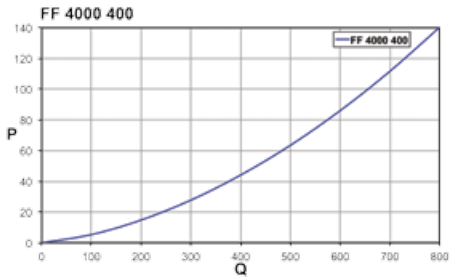
Order number	Filtering class EN 779	Operating temp. range	Dimensions (H x W x D) inch	Cut out dimensions inch	NEMA	WEB link
400000000 **400000030**	G3	14°F - 131°F -40°F - 158°F	4.2 x 4.2 x 0.9	3.6 x 3.6 (+0.02)	Type 12 Type 3R	Click here for full technical specifications
400010000 **400010030**	G3	14°F - 131°F -40°F - 158°F	5.9 x 5.9 x 1.2	4.9 x 4.9 (+0.06)	Type 12 Type 3R	
400020000 **400020030**	G3	14°F - 131°F -40°F - 158°F	8.0 x 8.0 x 1.16	7.0 x 7.0 (+0.06)	Type 12 Type 3R	
400030000 **400030030**	G3	14°F - 131°F -40°F - 158°F	9.8 x 9.8 x 1.3	8.8 x 8.8 (+0.06)	Type 12 Type 3R	
400040000 **400040030**	G3	14°F - 131°F -40°F - 158°F	12.8 x 12.8 x 1.3	11.5 x 11.5 (+0.06)	Type 12 Type 3R	

EMC and NEMA 3R models are available on request

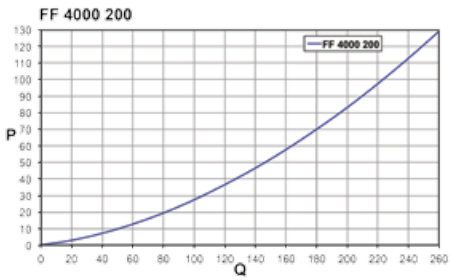








Q = Air flow [m^3/h]
P = Static pressure [Pa]



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FL filter fan series

Order number	Max. Airflow (60 Hz)	Voltage / Freqency	Temperature Range	Dimensions HxWxD (inch)	Cut out dimensions (inch)	NEMA	Colour	WEB link
4010A3000	9 cfm	120 V ~ 60 Hz	14°F - 131°F	4.2 x 4.2 x 2.6	3.64 x 3.64 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4010A3003							RAL 9005	
4010A4000		230 V ~ 50/60 Hz					RAL 7035	
4010A4003							RAL 9005	Click here for full technical specifications
4010D2000		24 V DC					RAL 7035	
4010D2003							RAL 9005	
4023A3000	15 cfm	120 V ~ 60 Hz	14°F - 131°F	4.2 x 4.2 x 3.1	3.6 x 3.6 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4023A3003							RAL 9005	
4023A4000		230 V ~ 50/60 Hz					RAL 7035	
4023A4003							RAL 9005	
4023D2000	29 cfm	24 V DC	14°F - 131°F	4.2 x 4.2 x 3.1	3.6 x 3.6 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4023D2003							RAL 9005	
4023D2100 *	35 cfm						RAL 7035	
4210A3000	47 cfm	120 V ~ 60 Hz	14°F - 131°F	5.9 x 5.9 x 2.9	4.88 x 4.88 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4210A3003							RAL 9005	
4210A3033			-40°F - 158°F			Type 3R	RAL 9005	
4210A3100*	41 cfm		14°F - 131°F			Type 12	RAL 7035	
4210A3103*							RAL 9005	
4210A4000	47 cfm	230 V ~ 50/60 Hz	14°F - 131°F	5.9 x 5.9 x 2.9	4.88 x 4.88 (+0.06)	Type 12	RAL 7035	
4210A4003							RAL 9005	
4210D2000	28 cfm	24 V DC					RAL 7035	Click here for full technical specifications
4210D2003							RAL 9005	
4210D2100*	38 cfm						RAL 7035	
4210D7000	28 cfm	48 V DC					RAL 7035	
4220A3000	29 cfm	120V ~ 60 Hz	14°F - 131°F	5.9 x 5.9 x 2.9	4.88 x 4.88 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4220A3003							RAL 9005	
4220A3033			-40°F - 158°F			Type 3R	RAL 9005	
4220A4000		230 V ~ 50/60 Hz	14°F - 131°F			Type 12	RAL 7035	
4220A4003							RAL 9005	
4411A3000	77 cfm	120 V ~ 60 Hz	14°F - 131°F	8.0 x 8.0 x 3.8	7.0 x 7.0 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4411A3003							RAL 9005	
4411A3033			-40°F - 158°F			Type 3R	RAL 9005	
4411A4000		230 V ~ 50/60 Hz	14°F - 131°F			Type 12	RAL 7035	
4411A4003							RAL 9005	

* = reverse air flow

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FL filter fan series

Order number	Max. Airflow (60 Hz)	Voltage / Freqency	Temperature Range	Dimensions HxWxD (inch)	Cut out dimensions (inch)	NEMA	Colour	WEB link
4421A3000	65 cfm	120 V ~ 60 Hz	14°F - 131°F	8.0 x 8.0 x 3.8	7.0 x 7.0 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4421A3003							RAL 9005	
4421A3033			-40°F - 158°F			Type 3R	RAL 9005	
4421A3100*			14°F - 131°F			Type 12	RAL 7035	
4421A4000		230 V ~ 50/60Hz					RAL 7035	
4421A4003							RAL 9005	
4610D2000	132 cfm	24 V DC	14°F - 131°F	9.8 x 9.8 x 4.9	8.8 x 8.8 (+0.06)	Type 12	RAL 7035	Click here
4610D2003							RAL 9005	
4611D2000	82 cfm	24 V DC					RAL 7035	Click here for full technical specifications
4611D2003							RAL 9005	
4611D7033		48 V DC	-40°F - 158°F			Type 3R	RAL 9005	
4620A3000	150 cfm	120V~ 60 Hz	14°F - 131°F	9.8 x 9.8 x 4.9	8.8 x 8.8 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4620A3003							RAL 9005	
4620A3033			-40°F - 158°F			Type 3R	RAL 9005	
4620A3100*	171 cfm		14°F - 131°F			Type 12	RAL 7035	
4620A4000	150 cfm	230 V ~ 50/60Hz					RAL 7035	
4620A4003							RAL 9005	
4620A4033			-40°F - 158°F			Type 3R	RAL 9005	
4621A3000	71 cfm	120 V ~ 60 Hz	14°F - 131°F	9.8 x 9.8 x 4.9	8.8 x 8.8 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4621A3003							RAL 9005	
4621A4000		230 V ~ 50/60Hz					RAL 7035	
4621A4003							RAL 9005	
4830A3000	340 cfm	120 V ~ 60 Hz	14°F - 131°F	12.8 x 12.8 x 6.3	11.5 x 11.5 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4830A3003							RAL 9005	
4830A3033			-40°F - 158°F			Type 3R	RAL 9005	
4830A3100*	359 cfm		14°F - 131°F			Type 12	RAL 7035	
4830A4000	340 cfm	230 V ~ 50/60 Hz					RAL 7035	
4833A3000	447 cfm	120V ~ 60 Hz	14°F - 131°F	12.8 x 12.8 x 6.3	11.5 x 11.5 (+0.06)	Type 12	RAL 7035	Click here for full technical specifications
4833A3003							RAL 9005	
4833A3033			-40°F - 158°F			Type 3R	RAL 9005	
4833A4000		230 V ~ 50/60Hz	14°F - 131°F			Type 12	RAL 7035	
4833A4003							RAL 9005	
4883A3003	447 cfm	120 V ~ 60 Hz	14°F - 131°F	12.8 x 12.8 x 6.3	11.5 x 11.5 (+0.06)	Type 12	RAL 9005	Click here for full technical specifications
4883A4003		230 V ~ 50/60 Hz					RAL 9005	
4883A9003		400/460 V ~ 50/60 Hz					RAL 9005	
6060A3000	288 cfm	120 V ~ 60 Hz	14°F - 131°F	12.8 x 12.8 x 3.7	6.9 x 6.9 (+0.06)	Type 12	RAL 7035	Click here
6060A4000		230 V ~ 50/60 Hz					RAL 7035	

* = reverse air flow

Accessories | Filter Fans FL series

Spare filter mats

- Made of thermo-linked progressive structure synthetic fibre.
- Filter class G3, according to EN 779. Other filter classes like G4 available on request.
- UL 900 Class 2 approved and self-extinguishing in F1 class, according to DIN 53 438.
- Filter media can be cleaned, up to 10 times by washing, blowing dry and lightly beating.

Outlet filter / filter fan	Part number
FF - 4000 000 / FL - 40xx	FM - 4000 000
FF - 4000 100 / FL - 42xx	FM - 4000 100
FF - 4000 200 / FL - 44xx	FM - 4000 200
FF - 4000 300 / FL - 46xx	FM - 4000 300
FF - 4000 400 / FL - 48xx	FM - 4000 400

EMC part-no. 4000 XXXE

Stainless steel hose-proof weather/ protection hoods

- These covers are particularly suitable for outdoor applications or in the food industry and are available in all filter fan sizes.
- This cover protects against splashes of liquids and solid foreign objects and is easily washable.
- NEMA / UL type 1, 2, 3R, 4, 4x, 12, 13

Outlet filter / filter fan	Part number
FF - 4000 000 / FL - 40xx	FC - 4000 000
FF - 4000 100 / FL - 42xx	FC - 4000 100
FF - 4000 200 / FL - 44xx	FC - 4000 200
FF - 4000 300 / FL - 46xx	FC - 4000 300
FF - 4000 400 / FL - 48xx	FC - 4000 400

Blanking covers

- If the existing mounting cutouts made to install filter fans need to be closed, the filter mats can be replaced using blanking covers thus eliminating the need of any welding or other mechanical modification.

Outlet filter / filter fan	Part number
FF - 4000 000 / FL - 40xx	FB - 4000 000
FF - 4000 100 / FL - 42xx	FB - 4000 100
FF - 4000 200 / FL - 44xx	FB - 4000 200
FF - 4000 300 / FL - 46xx	FB - 4000 300
FF - 4000 400 / FL - 48xx	FB - 4000 400

SEIFERT thermal innovations

CE RoHS COMPLIANT C UL US

CC 301 Thermal Controls

Order number	Description	Setting range	Max. Switching capacity	Temperature range / Humidity	Dimensions (H x W x D) inch	QR code
301005	Pre-set thermostat, NC (heating)	Off @ 50°F (10°C) On @ 32°F (0°C)	250 V AC / 16 A (p.f. 0.95), 10 A (p.f. 0.75) - 50/60 Hz, 72 V DC / max. 30 W	-49°F - 248°F, 98% (-45°C - +120°C)	2.36 x 1.54 x 1.53	Click here for full technical specifications
301010		Off @ 59°F (15°C) On @ 41°F (5°C)				
301020		Off @ 77°F (25°C) On @ 59°F (15°C)				
301030	Pre-set thermostat, NO (cooling)	On @ 95°F (35°C) Off @ 77°F (25°C)				
301040		On @ 122°F (50°C) Off @ 104°F (40°C)				
301050		On @ 140°F (60°C) Off @ 122°F (50°C)				
301110	Adjustable thermostat, NC	-10°C - 80°C	250 V AC / 16 A (p.f. 0.95), 10 A (p.f. 0.75) - 50/60 Hz, 72 V DC / max. 30 W	-49°F - 248°F, 98% (-45°C - +120°C)	2.36 x 1.54 x 1.53	Click here for full technical specifications
301111		14°F - 176°F				
301120	Adjustable thermostat, NO	-10°C - 80°C				
301121		14°F - 176°F				
301210	Adjustable twin thermostat, NCNC	-10°C - 80°C	250 V AC / 16 A (p.f. 0.95), 10 A (p.f. 0.75) - 50/60 Hz, 72 V DC / max. 30 W	-49°F - 248°F, 98% (-45°C - +120°C)	2.36 x 2.85 x 1.67	Click here for full technical specifications
301211		14°F - 176°F				
301220	Adjustable twin thermostat, NONO	-10°C - 80°C				
301221		14°F - 176°F				
301230	Adjustable twin thermostat, NCNO	-10°C - 80°C				
301231		14°F - 176°F				
301320	Changeover thermostat with thermal feedback	0°C - 60°C	250 V AC / 16 A (p.f. 0.95), 10 A (p.f. 0.75) - 50/60 Hz, 72 V DC / max. 30 W	0°C - +60°C , 95%	2.36 x 1.54 x 2.10	Click here for full technical specifications
301321		32°F - 140°F		32°F - 140°F, 95%		
301410	Mechanical changeover hygrostat	40 - 90%	230 V AC 2 A hum / 5 A dehum	0°C - 60°C (32°F - 140°F), 95%	2.36 x 1.54 x 1.67	Click here
301511	Electronic changeover thermostat	14°F - 176°F	24 V DC / 16 A	-13°F - 158°F / 95% internal sensor -13°F - 176°F / 95% external sensor	2.36 x 1.54 x 1.53	Click here for full technical specifications
301521			100 V / 15 A - 250 V / 10 A		2.36 x 1.54 x 2.10	
301610	Electronic changeover hygrostat	10 - 90 %	24 V DC / 100 W		2.36 x 1.54 x 1.53	Click here for full technical specifications
301620			100 V / 15 A - 250 V / 10 A		2.36 x 1.54 x 2.10	
301711	Electronic changeover thermostat & hygrostat	14°F - 176°F 10 - 90%	24 V DC / 100 W		2.36 x 2.85 x 1.67	Click here for full technical specifications
301721			100 V / 15 A - 250 V / 10 A			
301530	Ext. temperature sensor	n. a.	n.a.	-49°F - 248°F, 95%	1.42 x 0.55 x 0.46	
301630	Ext. humidity sensor			-40°F - +185°F, 100%		

Seifert | Thermal Management Solutions

Air / water heat exchangers

Our compact air-water heat exchangers can be used if a cold water supply is available. One typical application is dissipation of high heat from control cabinets. Some models are available as 19" plug-in models with minimal depth, as well as internal, top and side mounting. These industry proven heat exchangers dissipate from 2220 BTU up to 18780 BTU (L35W10@200 l/h). With our modular system setup we can even reach performances of up to 136500 BTU.

Air / air heat exchangers

Our counter flow and cross flow heat exchangers are designed both for outdoor and indoor applications. The Seifert high-end vacuum brazing technology is best-in-class thermal dissipation and most compact footprint in the industry.

SoliTherm ComPact - the economical all-round solution

The new SoliTherm ComPact line has a new approach to the air conditioning of control cabinets. The surface treated condenser and the high fin separation provide virtually maintenance free air conditioners for most of the environments. Based on our long experience in the development and production of air conditioners, we have optimised the ComPact series to achieve a high efficiency with outstanding COP values throughout all models. Reliability and user friendly are the best ways to describe the electronic controller being used in the ComPact air conditioners. The display indicates temperature and operating status and can be easily set and adjusted by the user via a Touch Pad.

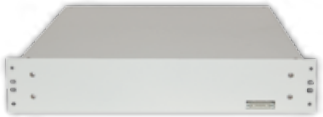
SoliTherm SlimLine – filter less air conditioners

Maximum power to size ratio – this characterises the SlimLine air conditioners. Compatibility with market standards ensures the customer an easy integration with his enclosure or cabinet systems. SlimLine air conditioners are designed to operate with absolutely minimum maintenance. They are eco-friendly and do not need dirt collecting filter mats. All SlimLine models can be operated with 3 phase 400V/50Hz and 460V/60Hz. Models from 1090 BTU up to 5120 BTU are available. The units can be externally or internally mounted and are only 110mm deep and therefore currently the slimmest air conditioners on the market. As only small apertures need to be cut for mounting, the cabinet doors remain stable.

Peltier – cooling units

The innovative Peltier thermoelectric technology provides an effective cooling solution virtually maintenance free. The SoliTherm Peltier air conditioners incorporate the technology within a sleek and modern design which is compact and with only 64 mm depth hardly needs any space. The operating temperature is from -4°F to 149°F. The ingress protection rating is NEMA 4X. AC/DC versions available with cooling capacities from 100 BTU up to 2730 BTU.

CoolMatch - variable cooling capacity for your cabinet



The ultra-compact and lightweight air conditioners are specially designed for small enclosures with limited mounting area, external or recessed mounted into flat housing operator or part of a 19" rack with only 3U unit height. The CoolMatch Series sets new performance-to-size standards which makes it particularly suitable for applications such as battery cooling. In case of emergency the DC operation allows the unit to be battery operated. Extremely stable cabinet temperatures with only +/-0.2K are obtained. All this comes with significant energy savings!

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Seifert Systems GmbH	Seifert Systems Ltd.	Seifert Systems AG	Seifert Systems Inc.	Seifert Systems Pty Ltd.
Haßlinghauser Str. 156 58285 Gevelsberg Germany Tel. +49 (0) 2332 55124-0 Fax +49 (0) 2332 5512429 info.de@seifertsystems.com	HF 09/10 Hal Far Industrial Estate Birzebbuga, BBG 3000 Malta Tel. +356 2220 7000 Fax +356 2165 2009 info@seifertsystems.com	Wilerstraße 16 CH- 4563 Gerlafingen Switzerland Tel. +41 (0) 32 675 35 51 Fax +41 (0) 32 675 44 76 info.ch@seifertsystems.com	75 Circuit Drive North Kingstown RI 02852 USA Tel. +1 401-294-6960 Fax +1 401-294-6963 info.us@seifertsystems.com	105 Lewis Road Wantirna South 3152 Victoria Australia Tel. +61 (3) 98 01 19 06 Fax +61 (3) 98 87 08 45 info@seifertsystems.com.au

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