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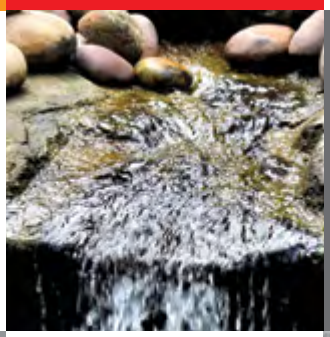
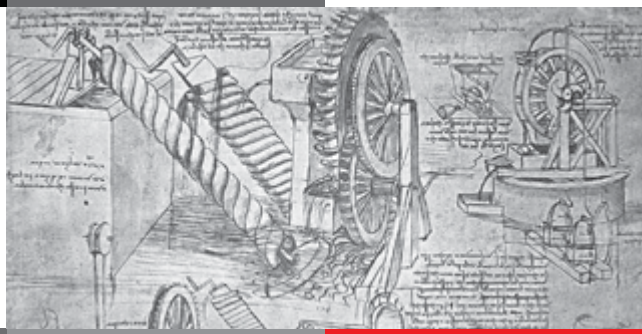
Thermal Management

Enclosure Accessories





2018

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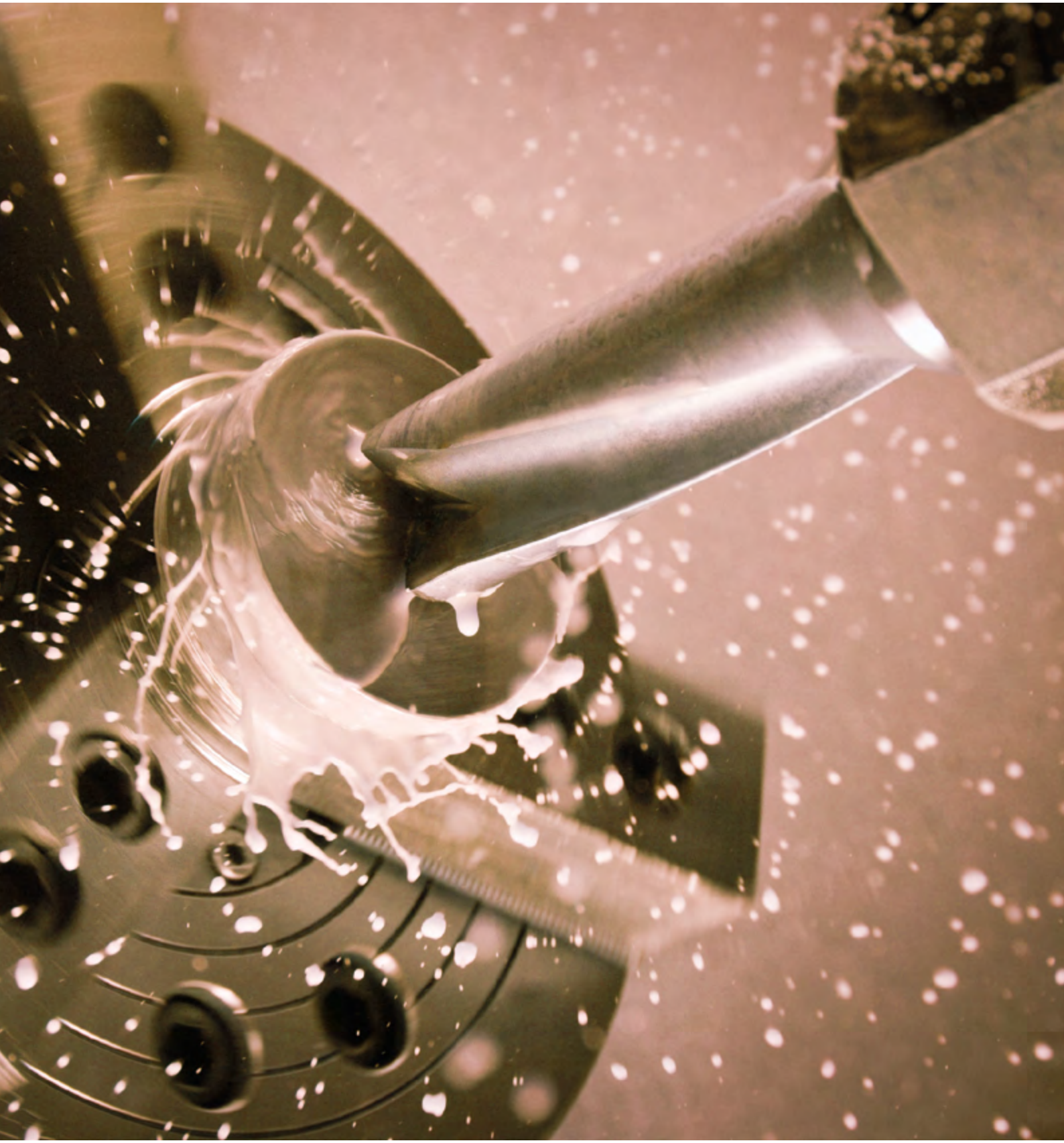
Enclosure accessories for professional Thermal management



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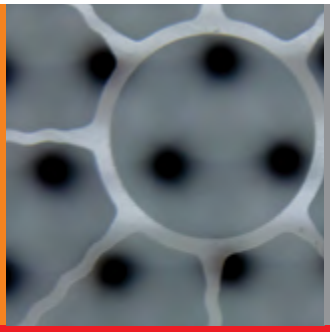
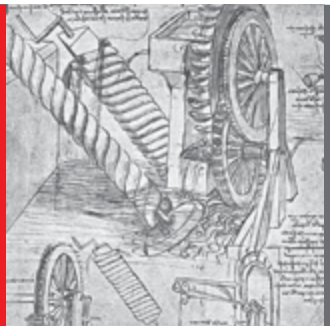
Seifert Systems is certified to ISO 9001:2008 and ISO 14001:2004 standards.



Overview table accessories

		230 V	120 V	400 V	460 V	12 V	24 V	48 V		
Cabinet heaters	**Heating power**	**Rated voltage**							**Approvals**	**Page**
KH 501	25 W	•	•						CE, RoHS, cURus	7
KH 502	25 W	•	•						CE, RoHS, cURus	8
KH 501	50 W	•	•						CE, RoHS, cURus	7
KH 502	50 W	•	•						CE, RoHS, cURus	8
KH 501	75 W	•	•						CE, RoHS, cURus	7
KH 502	75 W	•	•						CE, RoHS, cURus	8
KH 501	100 W	•	•						CE, RoHS, cURus	7
KH 502	100 W	•	•						CE, RoHS, cURus	8
KH 801	125 W	•	•				•		CE, RoHS, cURus	10
KH 501	150 W	•	•						CE, RoHS, cURus	7
KH 502	150 W	•	•						CE, RoHS, cURus	8
KH 801	200 W	•	•				•		CE, RoHS, cURus	10
KH 503	250 W	•	•						CE, RoHS, cURus	9
KH 401	300 W	•	•						CE, RoHS, cURus	6
KH 401	350 W	•	•						CE, RoHS, cURus	6
KH 503	400 W	•	•						CE, RoHS, cURus	9
KH 801	400 W	•	•						CE, RoHS, cURus	10
KH 503	500 W	•	•						CE, RoHS, cURus	9
KH 503	750 W	•	•						CE, RoHS, cURus	9
KH 801	800 W	•	•						CE, RoHS, cURus	10
Filter and Filter fans	**Max. Air volume flow**									
FF 4000 / 4000E	Outlet filters								CE, RoHS, cURus	13
FL 4023 A	22 m^3/h	•	•						CE, RoHS, cURus	14
FL 4210 D	47 m^3/h						•	•	CE, RoHS, cURus	14
FL 4210 A	67 m^3/h	•	•						CE, RoHS, cURus	14
FL 4411 A	110 m^3/h	•	•						CE, RoHS, cURus	14
FL 4610 D	225 m^3/h						•	•	CE, RoHS, cURus	14
FL 4620 A	230 m^3/h	•	•						CE, RoHS, cURus	15
FL 4621 A	105 m^3/h	•	•						CE, RoHS, cURus	15
FL 6060 A	490 m^3/h	•	•						CE, RoHS, cURus	15
FL 4830 A	540 m^3/h	•	•	•					CE, RoHS, cURus	15
FL 4880 A	670 m^3/h	•	•	•	•				CE, RoHS, cURus	15
Thermostats / Hygrostats	**Description**									
CC 3010	Pre-set temp. thermostat	•	•			•	•	•	CE, RoHS, cURus	17
CC 3011	Variable temp. thermostat	•	•			•	•	•	CE, RoHS, cURus	17
CC 3012	Variable temp. twin thermostat	•	•			•	•	•	CE, RoHS, cURus	17
CC 3013	Variable changover thermostat with thermal feedback	•	•			•	•	•	CE, RoHS, cURus	17
CC 3014	Mechan. changeover hygrostat	•	•						CE, RoHS, cURus	17
CC 3015	Electr. changeover thermostat	•	•				•		CE, RoHS, cURus	17
CC 3016	Electr. changeover hygrostat	•	•				•		CE, RoHS, cURus	17
CC 3017	Electronic changeover thermostat & hygrostat	•	•				•		CE, RoHS, cURus	17



Cabinet heaters

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

Temperature differences in cabinets, 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 control cabinet. 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 - PTC heaters with fan

Order number	Power output	Fan air flow	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) mm	QR code
401300DSA7C000	300 W	10 m^3/h	100 - 240 V - 50/60 Hz Fan 24 V	-10°C - +70°C	92 x 54 x 79	
401350DCA7C000	350 W	17 m^3/h	100 - 240 V - 50/60 Hz Fan 24 V	-40°C - +70°C	92 x 54 x 79	
409005	AC / DC power supply		Input 85 - 264 V AC or 100 - 300 V DC Output 24 V DC (max. 5 W)	0°C - +55°C	60 x 39 x 38.9	

Delivery includes DIN rail clip and screw mount

DIN rail clip for:

DIN rail 15mm

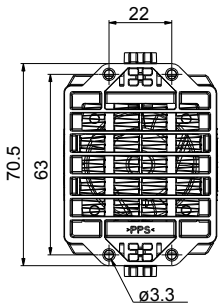
DIN rail 35mm

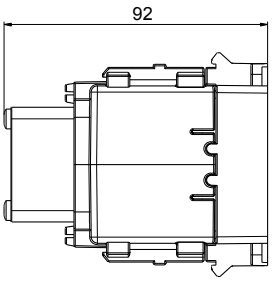
AC / DC power supply

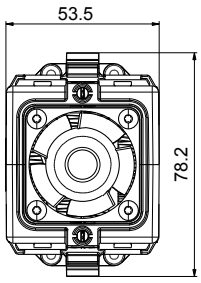
Screw mount side

Screw mount back

G - rail







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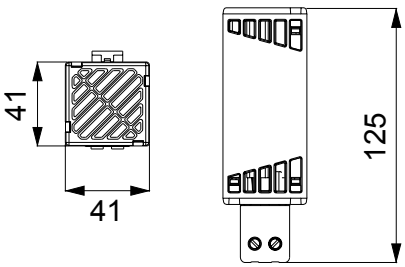
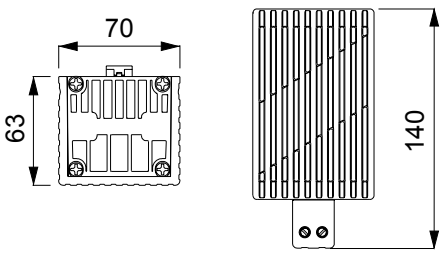
KH 501 - PTC heaters with plastic housing

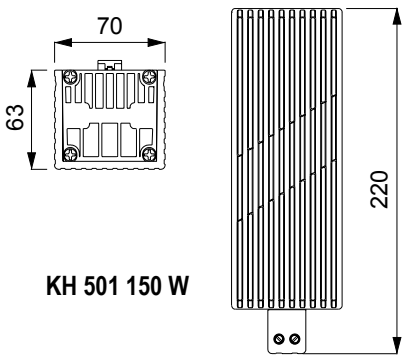
Order number	Connection	Power output	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) mm	QR code
501025	2 screw terminal block for stranded or rigid wire 2.5 mm²	25 W	100 - 240 V AC / DC 50/60 Hz	-45°C - +70°C	125 x 41 x 41	
501050	2 screw terminal block for stranded or rigid wire 2.5 mm²	50 W	100 - 240 V AC / DC 50/60 Hz	-45°C - +70°C	125 x 41 x 41	
501075	2 screw terminal block for stranded or rigid wire 2.5 mm²	75 W	100 - 240 V AC / DC 50/60 Hz	-45°C - +70°C	140 x 70 x 63	
501100	2 screw terminal block for stranded or rigid wire 2.5 mm²	100 W	100 - 240 V AC / DC 50/60 Hz	-45°C - +70°C	140 x 70 x 63	
501150	2 screw terminal block for stranded or rigid wire 2.5 mm²	150 W	100 - 240 V AC / DC 50/60 Hz	-45°C - +70°C	220 x 70 x 63	



KH 501 25 - 50 W



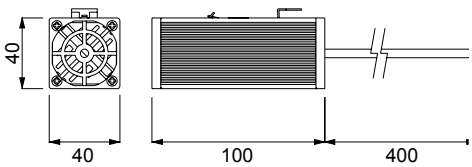
KH 501 75 - 100 W



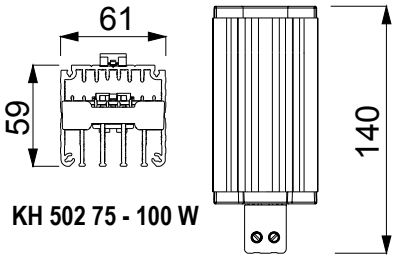
KH 501 150 W

KH 502 - PTC heaters

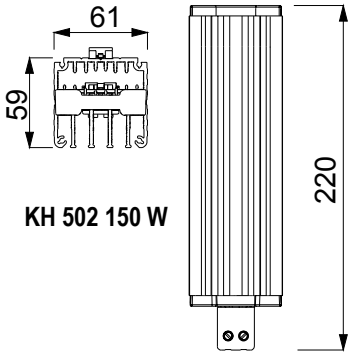
Order number	Connection	Power output	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) mm	QR code
502025	Silicon cable, 2 x 0.5 mm², length 400 mm	25 W	100 - 240 V AC / DC	-45°C - +70°C	100 x 40 x 40	
502050	Silicon cable, 2 x 0.5 mm², length 400 mm	50 W	100 - 240 V AC / DC	-45°C - +70°C	100 x 40 x 40	
502075	2 screw terminal block for standard or rigid wire 2.5 mm²	75 W	100 - 240 V AC / DC	-45°C - +70°C	140 x 59 x 61	
502100	2 screw terminal block for standard or rigid wire 2.5 mm²	100 W	100 - 240 V AC / DC	-45°C - +70°C	140 x 59 x 61	
502150	2 screw terminal block for standard or rigid wire 2.5 mm²	150 W	100 - 240 V AC / DC	-45°C - +70°C	220 x 70 x 63	



KH 502 25 - 50 W



KH 502 75 - 100 W



KH 502 150 W

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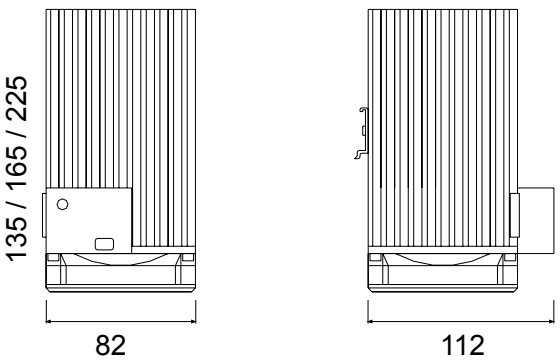
KH 503 - Fan assisted resistor heaters

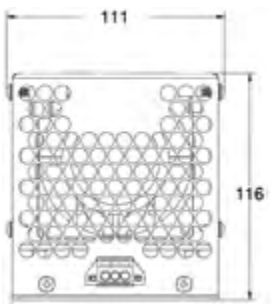
Order number	Connection	Power output	Fan air flow	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) mm	QR code
503250	3 screw terminal block for stranded or rigid wire 2.5 mm²	250 W	35 m³/h	230 V - 50/60 Hz	-25°C - +70°C	135 x 112 x 82	
503251	3 screw terminal block for stranded or rigid wire 2.5 mm²	250 W	35 m³/h	120 V - 50/60 Hz	-25°C - +70°C	135 x 112 x 82	
503400	3 screw terminal block for stranded or rigid wire 2.5 mm²	400 W	35 m³/h	230 V - 50/60 Hz	-25°C - +70°C	165 x 112 x 82	
503401	3 screw terminal block for stranded or rigid wire 2.5 mm²	400 W	35 m³/h	120 V - 50/60 Hz	-25°C - +70°C	165 x 112 x 82	
503500	3 screw terminal block for stranded or rigid wire 2.5 mm²	500 W	35 m³/h	230 V - 50/60 Hz	-25°C - +70°C	165 x 112 x 82	
503501	3 screw terminal block for stranded or rigid wire 2.5 mm²	500 W	35 m³/h	120 V - 50/60 Hz	-25°C - +70°C	165 x 112 x 82	
503750	3 screw terminal block for stranded or rigid wire 2.5 mm²	750 W	44 m³/h	230 V - 50/60 Hz	-25°C - +70°C	225 x 112 x 82	
503751	3 screw terminal block for stranded or rigid wire 2.5 mm²	750 W	44 m³/h	120 V - 50/60 Hz	-25°C - +70°C	225 x 112 x 82	

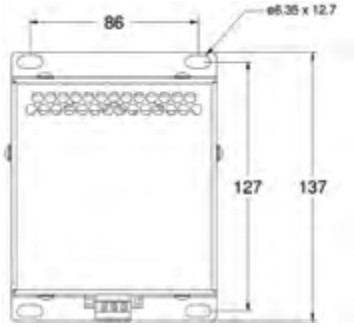


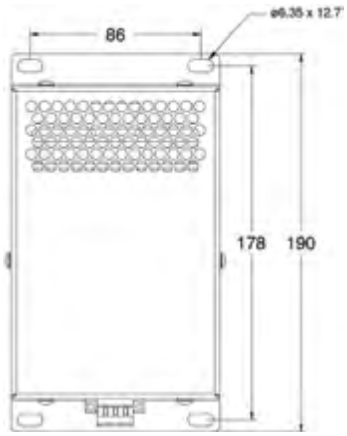
- Adjustable thermostat
- Indicator Light
- Fan Auto / ON switch
- Screw / DIN Clip mounting

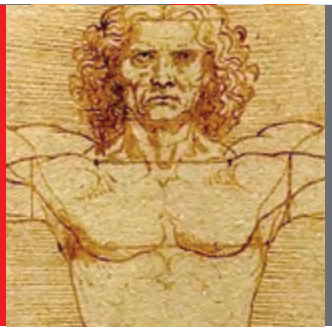
KH 801 - Resistor heaters with fan

Order number	Power output	Fan air flow	Voltage / Frequency	Operating temp. range	Dimensions (H x W x D) mm	QR code
801125A44001	125 W	27 m³/h	230 V - 50/60 Hz	-20°C - +40°C	137 x 111 x 116	
801125A33001	125 W	27 m³/h	120 V - 50/60 Hz	-20°C - +40°C	137 x 111 x 116	
801125D22001	125 W	27 m³/h	24 V DC	-20°C - +40°C	137 x 111 x 116	
801200A44001	200 W	27 m³/h	230 V - 50/60 Hz	-20°C - +40°C	137 x 111 x 116	
801200A33001	200 W	27 m³/h	120 V - 50/60 Hz	-20°C - +40°C	137 x 111 x 116	
801200D22001	200 W	27 m³/h	24 V DC	-20°C - +40°C	137 x 111 x 116	
801400A44001	400 W	44 m³/h	230 V - 50/60 Hz	-20°C - +40°C	190 x 111 x 116	
801400A33001	400 W	44 m³/h	120 V - 50/60 Hz	-20°C - +40°C	190 x 111 x 116	
801800A44001	800 W	44 m³/h	230 V - 50/60 Hz	-20°C - +40°C	190 x 111 x 116	
801800A33001	800 W	44 m³/h	120 V - 50/60 Hz	-20°C - +40°C	190 x 111 x 116	









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, NEMA 3R and IP 55 versions. NEMA 3R models are made out of UV and frost resistant plastic material.

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.

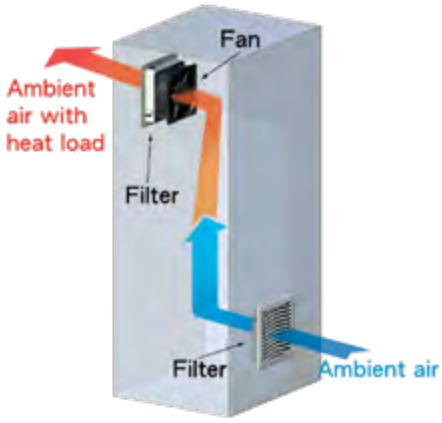


Fig.1 Exhaust System

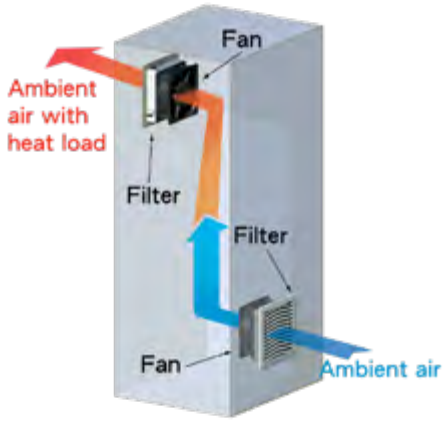


Fig.2 Pressure & Exhaust System

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.

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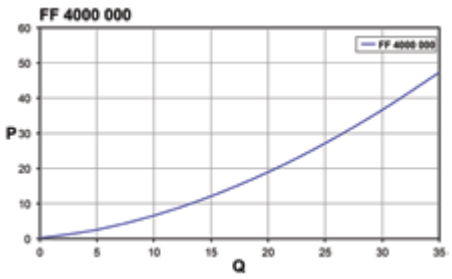
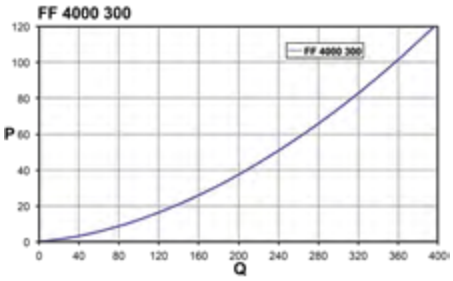
UL listed Type 12

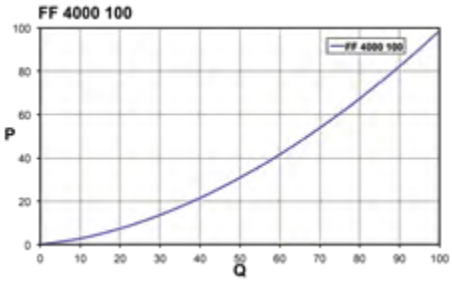
FF 4000 Outlet filter series

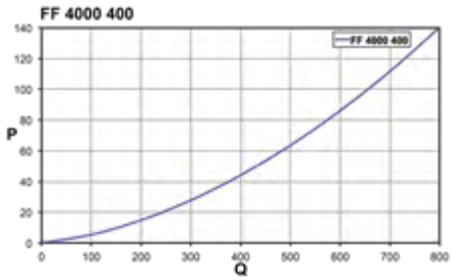
Order number	Filtering class EN 779	Operating temp. range	Dimensions (H x W x D) mm	Cut out dimensions (mm)	IP rating	QR code
400000000	G3	-10°C - +55°C	106.5 x 106.5 x 23.2	92.5 x 92.5 (+0.5)	IP 54	
400010000	G3	-10°C - +55°C	150 x 150 x 29.2	125 x 125 (+1.5)	IP 54	
400020000	G3	-10°C - +55°C	203.9 x 203.9 x 29.5	177 x 177 (+1.5)	IP 54	
400030000	G3	-10°C - +55°C	250 x 250 x 33.8	223 x 223 (+1.5)	IP 54	
400040000	G3	-10°C - +55°C	325 x 325 x 34	291 x 291 (+1.5)	IP 54	

EMC, NEMA 3R and IP 55 models are available on request

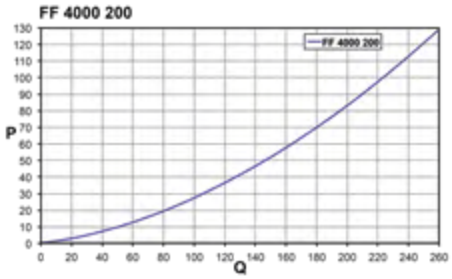








Q = Air flow [m^3/h]
P = Static pressure [Pa]



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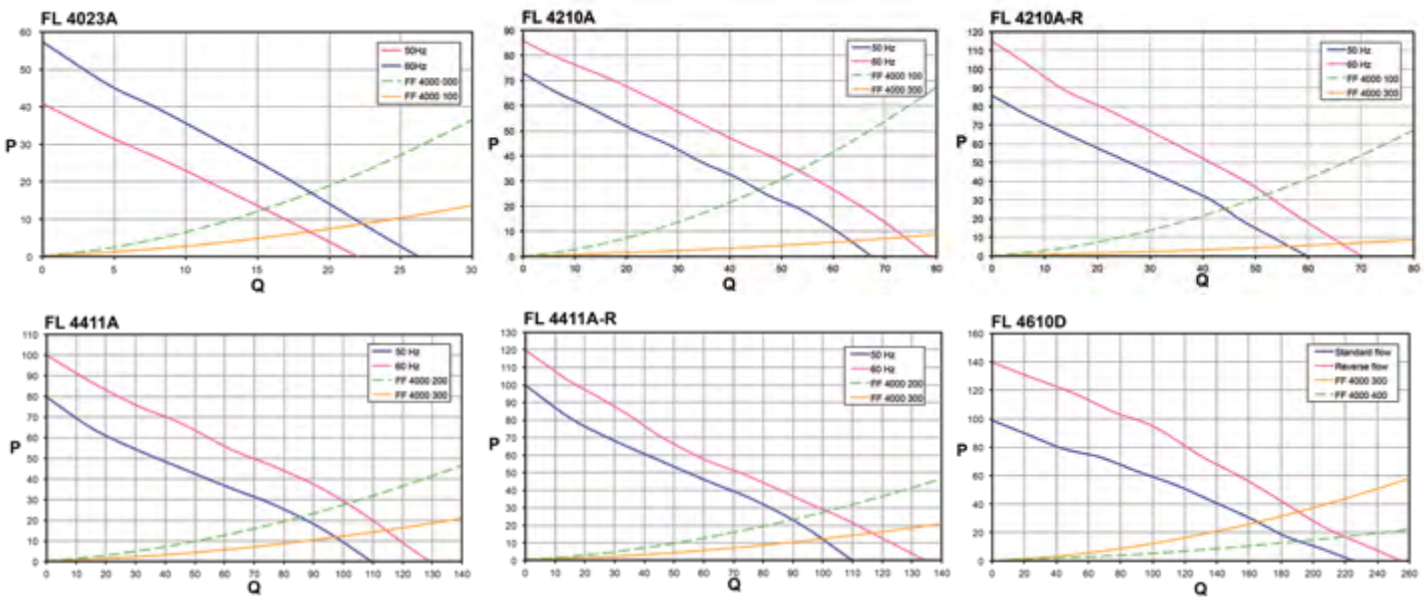
CE RoHS COMPLIANT C UL US
UL listed Type 12

FL filter fan series

Order number	Max. airflow (50 Hz)	Voltage / Frequency	Dimensions (H x W x D) mm	Cut out dimensions (mm)	IP rating	QR code
4023A4000	22 m³/h	230 V - 50/60 Hz	106.5 x 106.5 x 79.5	92.5 x 92.5 (+0.5)	IP 54	
4023A3000	22 m³/h	120 V - 50/60 Hz	106.5 x 106.5 x 79.5	92.5 x 92.5 (+0.5)	IP 54	
4210D2000 **4210D2100 (R)**	47 m³/h 64 m³/h	24 V DC	150 x 150 x 73	125 x 125 (+1.5)	IP 54	
4210D7000 **4210D7100 (R)**	47 m³/h 64 m³/h	48 V DC	150 x 150 x 73	125 x 125 (+1.5)	IP 54	
4210A4000 **4210A4100 (R)**	67 m³/h 60 m³/h	230 V - 50/60 Hz	150 x 150 x 73	125 x 125 (+1.5)	IP 54	
4210A3000 **4210A3100 (R)**	67 m³/h 60 m³/h	120 V - 50/60 Hz	150 x 150 x 73	125 x 125 (+1.5)	IP 54	
4411A4000 **4411A4100 (R)**	100 m³/h 110 m³/h	230 V - 50/60 Hz	203.9 x 203.9 x 95.5	177 x 177 (+1.5)	IP 54	
4411A3000 **4411A3100 (R)**	110 m³/h 110 m³/h	120 V - 50/60 Hz	203.9 x 203.9 x 95.5	177 x 177 (+1.5)	IP 54	
4610D2000 **4610D2100 (R)**	225 m³/h	24 V DC	250 x 250 x 124.2	223 x 223 (+1.5)	IP 54	
4610D7000 **4610D7100 (R)**	225 m³/h	48 V DC	250 x 250 x 124.2	223 x 223 (+1.5)	IP 54	

(R) = reverse airflow / EMC, NEMA 3R nd IP 55 models are available on request

Q = Air flow [m³/h]
P = Static pressure [Pa]



Top mount filter fan FL 6060A

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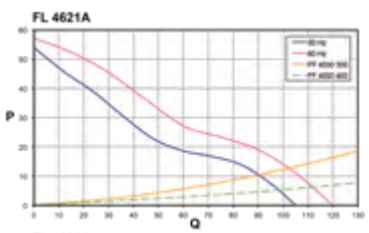
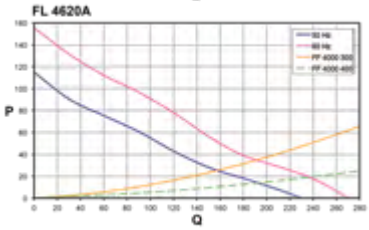
UL listed Type 12

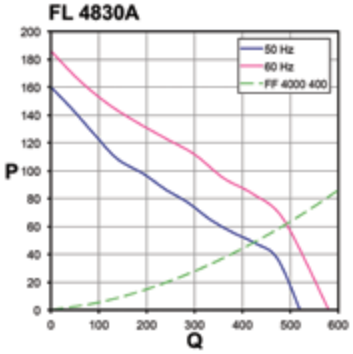
FL filter fan series

Order number	Max. airflow (50 Hz)	Voltage / Frequency	Dimensions (H x W x D) mm	Cut out dimensions (mm)	IP rating	QR code
4621A4000 **4621A4100 (R)**	105 m³/h 110 m³/h	230 V - 50/60 Hz	250 x 250 x 111.8	223 x 223 (+1.5)	IP 54	
4621A3000 **4621A3100 (R)**	105 m³/h 110 m³/h	120 V - 50/60 Hz	250 x 250 x 111.8	223 x 223 (+1.5)	IP 54	
4620A4000 **4620A4100 (R)**	230 m³/h 245 m³/h	230 V - 50/60 Hz	250 x 250 x 124.2	223 x 223 (+1.5)	IP 54	
4620A3000 **4620A3100 (R)**	230 m³/h 245 m³/h	120 V - 50/60 Hz	250 x 250 x 124.2	223 x 223 (+1.5)	IP 54	
4830A4000 **4830A4100 (R)**	520 m³/h 550 m³/h	230 V - 50/60 Hz	325 x 325 x 160.2	291 x 291 (+1.5)	IP 54	
4830A3000 **4830A3100 (R)**	520 m³/h 550 m³/h	120 V - 50/60 Hz	325 x 325 x 160.2	291 x 291 (+1.5)	IP 54	
4830A9000	540 m³/h	400 V - 50/60 Hz 3~	325 x 325 x 160.2	291 x 291 (+1.5)	IP 54	
4880A4000 **4880A4100 (R)**	670 m³/h 720 m³/h	230 V - 50/60 Hz	325 x 325 x 158.5	291 x 291 (+1.5)	IP 54	
4880A3000 **4880A3100 (R)**	670 m³/h 720 m³/h	120 V - 50/60 Hz	325 x 325 x 158.5	291 x 291 (+1.5)	IP 54	
4880A9000 **4880A9100 (R)**	618 m³/h 648 m³/h	400 V - 50/60 Hz 3~	325 x 325 x 158.5	291 x 291 (+1.5)	IP 54	
6060A4000	420 m³/h	230 V - 50/60 Hz	324 x 324 x 94	175 x 175 (+1.5)	IP 54	
6060A3000	490 m³/h	120 V - 50/60 Hz	324 x 324 x 94	175 x 175 (+1.5)	IP 54	

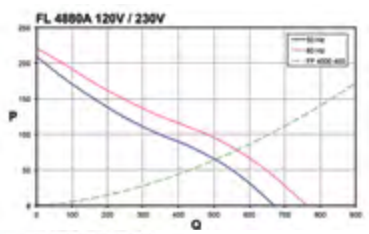
(R) = reverse airflow / EMC, NEMA 3R nd IP 55 models are available on request

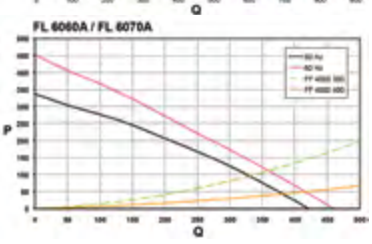






Q = Air flow [m³/h]
P = Static pressure [Pa]





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	Order number
FF - 4000 000 / FL - 40xx	400010000
FF - 4000 100 / FL - 42xx	400010100
FF - 4000 200 / FL - 44xx	400010200
FF - 4000 300 / FL - 46xx	400010300
FF - 4000 400 / FL - 48xx	400010400

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	Order number
FF - 4000 000 / FL - 40xx	4000400000
FF - 4000 100 / FL - 42xx	4000400010
FF - 4000 200 / FL - 44xx	4000400020
FF - 4000 300 / FL - 46xx	4000400030
FF - 4000 400 / FL - 48xx	4000400040

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	Order 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



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CC 301 Thermal Controls

Order number	Description	Setting range	Max. Switching capacity	Temperature range / Humidity	Dimensions (H x W x D) mm	QR code
301005	Pre-set thermostat, NC (heating)	Off @ 10°C (50°F) On @ 0°C (32°F)	250 V AC / 16 A (p.f. 0.95), 10 A (p.f. 0.75) - 50/60 Hz, 72 V DC / max. 30 W	-45°C - +120°C (-49°F - 248°F), 98%	60 x 39 x 38.9	
301010		Off @ 15°C (59°F) On @ 5°C (41°F)				
301020		Off @ 25°C (77°F) On @ 15°C (59°F)				
301030	Pre-set thermostat, NO (cooling)	On @ 35°C (95°F) Off @ 25°C (77°F)				
301040		On @ 50°C (122°F) Off @ 40°C (104°F)				
301050		On @ 60°C (140°F) Off @ 50°C (122°F)				
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	-45°C - +120°C (-49°F - 248°F), 98%	60 x 39 x 38.9	
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	-45°C - +120°C (-49°F - 248°F), 98%	60 x 72.3 x 42.4	
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%	60 x 39 x 53.3	
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%	60 x 39 x 42.4	
301510	Electronic changeover thermostat	-10°C - 80°C	24 V DC / 16 A	-25 - 70°C / 95% internal sensor -25 - 80°C / 95% external sensor	60 x 39 x 38.9	
301520			100 V / 15 A - 250 V / 10 A		60 x 39 x 53.3	
301610	Electronic changeover hygrostat	10 - 90 %	24 V DC / 100 W		60 x 39 x 38.9	
301620			100 V / 15 A - 250 V / 10 A		60 x 39 x 53.3	
301710	Electronic changeover thermostat & hygrostat	-10°C - 80°C 10 - 90%	24 V DC / 100 W		60 x 72.3 x 42.4	
301720			100 V / 15 A - 250 V / 10 A			
301530	Ext. temperature sensor	n. a.	n.a.	-45°C - +120°C, 95%	36 x 14 x 11.7	
301630	Ext. humidity sensor			-40°C - +85°C, 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 650 W up to 5.5 kW (L35W10@200 l/h). With our modular system setup we can even reach performances of up to 40 kW.

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 320 W up to 1.5 KW 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 -20°C to +65°C. The ingress protection rating is IP 66. AC/DC versions available with cooling capacities from 30 W up to 800 W.

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!

NOTES

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