

Thermal management



MORE THAN 55 YEARS

the specialist for individual electric cabinet heaters and industrial climatisation

- HEATING
- CONTROLLING
- VENTILATING
- COOLING
- LIGHTING

www.lm-therm.de





Lm-therm: the specialist for electric cabinet climatisation

We offer a large selection of electric cabinet heaters, thermostats and hygrostats, filter fans, peltier cooling units, compressor cooling units and LED enclosure lights.

Lm-therm has a customised solution for any requirement.

Always the right product for you from one source:



HEATING

Individual electric cabinet heaters will ensure a stable ambient temperature and prevent condensation inside the electric cabinet!



VENTILATING

We have the suitable filter fan for your application!



ACCESSORIES

The proper LED lighting for your electric cabinet!



CONTROLLING

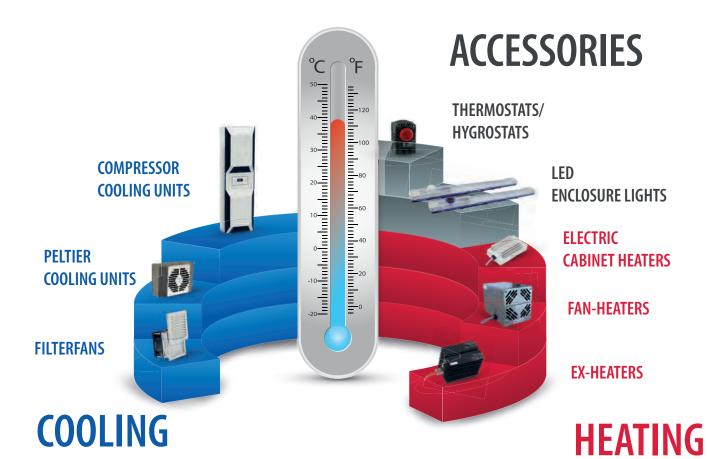
Perfectly designed thermostats and hygrostats for maximum reliability!



COOLING

You will find a large selection of peltier and compressor cooling units for the ideal climate!

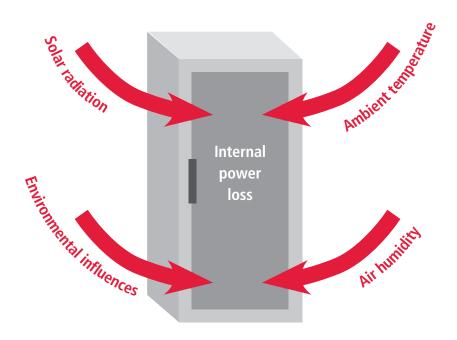
We are happy to provide a suitable solution for your application! We also provide on-site consultation





Why electric cabinet climatisation?

There are several factors that makes climatisation of an electric cabinet necessary:



Lm-therm has the solutions:

Electric cabinet heaters

Especially in case of outside applications, temperature variations inside electric cabinets result in humidity and condensation which can then lead to malfunctions and corrosion. Electric cabinet heaters will ensure the temperature compensation and counteract the formation of condensed water.

Filter fans and thermostats

Filter fans are used when the desired electric cabinet temperature is allowed to stay consistently above the ambient temperature. Combined with Lm-therm thermostats, you can also save energy, thereby extending the service life of the filter fans!

Peltier cooling units

Peltier cooling units - in contrast to conventional cooling units - can be mounted in any position; the operation is also independent of the mounting position. The devices are more robust, less prone to failure and are characterised by a compact and small design (IP66).

Compressor cooling units

Cooling units are used if the required heat can no longer be continuously dissipated via the ambient air, if the required temperature inside the electric cabinet should be equal to or below the ambient temperature, if the ambient air is highly polluted or if the air humidity is high.



Electric cabinet heaters with integrated thermostat

Lm-therm electric cabinet heaters with integrated thermostat are equipped with durable ceramic heatable window panes and are embedded in an aluminium cabinet, which accords to the thermotechnical guidelines.

Configuration characteristics:

- power zones: 10W 1000W
- voltage zones: 12V 750V
- industrial safety through the integrated thermostat
- different temperature settings
- low surface temperature
- possibility of variation regarding heating power, voltage, assembly, connection and dimensions
- high degree of protection is possible
- energy-saving
- possibility of UL-certification
- customer-specific applications are possible

PTC electric cabinet heaters

The PTC electric cabinet heaters of Lm-therm are equipped with special drafted aluminium frames and the PTC-elements are equipped with a sophisticated system of cooling fins.

Configuration characteristics:

- power zones: 10W 500W
- for applications in high voltage zones (110V 265V)
- electrical gounding is not necessary because of protection class II
- dynamical heating
- self-regulating
- customer-specific applications are possible glich







Fan electric cabinet heaters

Lm-therm fan- and blower heaters are suited for power-intensive sectors and for applications with a difficult convection.

Configuration characteristics:

- power zones: 100W 8000W
- mechanical sturdy metal case without plastics
- vibration-safe
- adequate for high heat output
- power-coated surface
- temperature limiter in case of heat accumulation
- dynamic heat power
- guaranteed living period
- constant heat dissipation
- customer-specific applications are possible

Fan electric cabinet heaters

Ex electric cabinet heaters of Lm-therm are drafted for the application in explosion periled sectors, for example establishments, chemistry laborat or gas stations. As explosion-protected equipment the heaters accord to the requirements of standard 2014/34/EU.

Configuration characteristics:

- zone 1/21 und zone 2/22
- different temperature classes: T3 T5
- voltage 115V or 230V
- special screw connection
- degree of protection IP66/67
- high performance cartridge

Ventstar S 100W - 200W



GH2000 2000W



GH4000 4000W



Revent 4000W - 8000W



Ventstar M 180W - 500W



Vaero 500W



Coreg 500W - 1000W



Cireg 500W - 1000W



Ex heater 25W - 70W



Ex heater 100W - 400W







THERMOSTATS / HYGROSTATS

- Rapid installation
- Different versions
- Mounting on DIN-Rail



Technical data electromechanical thermostats / hygrostats

ORDER-NO.	DESCRIPTION	SETTING RANGE	DIFFERANTIAL GAP	OPERATING VOLTAGE	SWITCH. CURRENT - OHMIC (INDUCTIVE)	KIND OF PROTECTION	CERTIFICATION
910006	Adjustable thermostat (NC)	-10 - 80°C	+/- ca. 3K	250V AC / 72V DC (max. 30W)	16A / 10A (ind)	IP20	CE, cURus
910008	Adjustable thermostat (NO)	-10 - 80°C	+/- ca. 3K	250V AC / 72V DC (max. 30W)	16A / 10A (ind)	IP20	CE, cURus
910016	Changeover thermostat with thermal feedback	0 - 60°C	4-7K/1K	250V AC / 72V DC (max. 30W)	16A / 10A (ind)	IP20	CE, cURus
910200	Mechanical changeover thermostat	40-90% r.H.	5% r.H.	230V AC	2A hum / 5A dehum	IP20	CE, cURus

Technical data electromechanical twinthermostats

ORDER-NO.	DESCRIPTION	SETTING RANGE	DIFFERANTIAL GAP	OPERATING VOLTAGE	SWITCH. CURRENT - OHMIC (INDUCTIVE)	KIND OF PROTECTION	CERTIFICATION
910010	Adjustable twinthermostat (NC/NC)	-10 - 80°C	+/- ca. 3K	250V AC / 72V DC (max. 30W)	16A / 10A (ind)	IP20	CE, cURus
910012	Adjustable twinthermostat (NO/NO)	-10 - 80°C	+/- ca. 3K	250V AC / 72V DC (max. 30W)	16A / 10A (ind)	IP20	CE, cURus
910014	Adjustable twinthermostat (NC/NO)	-10 - 80°C	+/- ca. 3K	250V AC / 72V DC (max. 30W)	16A / 10A (ind)	IP20	CE, cURus

Technical data electronical thermostats / hygrostats

ORDER-NO.	DESCRIPTION	SETTING RANGE	DIFFERANTIAL GAP	OPERATING VOLTAGE	SWITCH. CURRENT - OHMIC (INDUCTIVE)	KIND OF PROTECTION	CERTIFICATION
910018	Electronic changeover thermostat	-10°C - 80°C	+/- ca. 3K	24V DC	16A	IP20	CE, cURus
910019	Electronic changeover thermostat	-10°C - 80°C	+/- ca. 3K	100V - 250V	100V / 250V 15A / 10A	IP20	CE, cURus
910201	Electronic changeover hygrostat	10 - 90% r.H.	5% r.H.	24V DC / 100W	16A	IP20	CE, cURus

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FILTERFANS AND OUTLET FILTERS

- Rapid installation
- Increased operational safety
- EMC compliance
- Slide opening for easy filter change



Technical data for all variants

• Operating temperature: -10°C - +55°C

• Kind of protection/ class: IP54 / SK I

• 24V and 48V versions on request

• Quality fans

• Material: ABS UL94V-0

• Colour: RAL7035

• Mounting: selfsnapping without screws

Technical data filterfans

ORDER-NO.	TYPE	DIMENSIONS LxBxT	VOLTAGE (V/HZ)	CUTTING (MM)	MAX. AIRFLOW (M³/H)	CERTIFICATION
902000	Lm-500	106,5x106,5x79,5	230 / 50/60	92,5x92,5	24	CE
900100	FL-900100-106	106,5x106,5x79,5	230 / 50/60	92,5x92,5	22	CE, cURus
900101	FL-900101-106	106,5x106,5x79,5	120 / 50/60	92,5x92,5	22	CE, cURus
900106	FL-900106-150	150x150x73,2	230 / 50/60	124x124	67	CE, cURus
900108	FL-900108-150	150x150x73,2	120 / 60	124x124	67	CE, cURus
900140	FL-900140-203	203,9x203,9x95,5	230 / 50/60	177x177	110	CE, cURus
900112	FL-900112-203	203,9x203,9x95,5	120 / 60	177x177	130	CE, cURus
900122	FL-900122-250	250x250x124,2	230 / 50/60	223x223	270	CE, cURus
900124	FL-900124-250	250x250x124,2	120 / 60	223x223	270	CE, cURus
900126	FL-900126-325	325x325x160,2	230 / 50/60	291x291	580	CE, cURus
900128	FL-900128-325	325x325x160,2	120 / 60	291x291	580	CE, cURus

Technical data outlet filters

ORDER-NO.	ТҮРЕ	DIMENSIONS LXBXT	OPERATING TEMPERATURE	CUTTING (MM)	FILTERING CLASS EN779	CERTIFICATION
900000	FL-900000-106	106,5x106,5x23,2	-10°C- +55°C	91,5x91,5	G3	CE, cURus
900001	FL-900001-150	150x150x29,2	-10°C- +55°C	124x124	G3	CE, cURus
900002	FL-900002-203	203,9x203,9x29,5	-10°C- +55°C	177x177	G3	CE, cURus
900003	FL-900003-250	250x250x33,8	-10°C- +55°C	223x223	G3	CE, cURus
900004	FL-900004-325	325x325x34	-10°C- +55°C	291x291	G3	CE, cURus

(REPLACEMENT)

on request

900801

900802

900803

FILTER MAT

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COMPRESSOR COOLING UNITS – INDOOR

- Virtually maintenance free
- Adjustable electronic controller with display (rear)
- Standard recess depth of 90 mm
- Nano-coated hydrophobic condensor
- Special versions and accessories on request



Technical data ComPact Indoor (with frame - Type: KG-A)

ORDER-NO.	TYPE	SUPPLY VOLTAGE (V/HZ)*	COOLING CAPACI- TY L35/L35 (W)	OPERATING TEMPERATURE	SETTING RANGE	WEIGHT (KG)	DIMENSIONS LxBxT	HOUSING MATERIAL	CERTIFICATION
931000	KG-A 4304	230 / 50-60	320	+10°C - +55°C	+20°C - +50°C	20,0	500x280x200	mild steel, RAL 7035	CE, cURus
931001	KG-A 4305	230 / 50-60	550	+10°C - +55°C	+20°C - +50°C	27,7	650x315x260	mild steel, RAL 7035	CE, cURus
931002	KG-A 4308	230 / 50-60	750	+10°C - +55°C	+20°C - +50°C	27,7	650x315x260	mild steel, RAL 7035	CE, cURus
931003	KG-A 4309	230 / 50-60	850	+10°C - +55°C	+20°C - +50°C	30,0	650x315x260	mild steel, RAL 7035	CE, cURus
931004	KG-A 4310	230 / 50-60	1000	+10°C - +55°C	+20°C - +50°C	30,0	650x315x260	mild steel, RAL 7035	CE, cURus
931005	KG-A 4315	230 / 50-60	1500	+10°C - +55°C	+20°C - +50°C	39,7	980x395x260	mild steel, RAL 7035	CE, cURus
931006	KG-A 4320	230 / 50-60	2000	+10°C - +55°C	+20°C - +50°C	44,2	980x395x260	mild steel, RAL 7035	CE, cURus
931007	KG-A 4325	400/460 / 50-60 (2ph)	2500	+10°C - +55°C	+20°C - +50°C	65,0	1230x500x340	mild steel, RAL 7035	CE, cURus
931008	KG-A 4330	400/460 / 50-60 (2ph)	3000	+10°C - +55°C	+20°C - +50°C	72,5	1230x500x340	mild steel, RAL 7035	CE, cURus
931009	KG-A 4340	400/460 / 50-60 (2ph)	4000	+10°C - +55°C	+20°C - +50°C	70,0	1230x500x340	mild steel, RAL 7035	CE, cURus

^{*}special voltage on request

Technical data ComPact Indoor (recessed - Type: KG-H)

ORDER-NO.	TYPE	SUPPLY VOLTAGE (V/HZ)*	COOLING CAPACI- TY L35/L35 (W)	OPERATING TEMPERATURE	SETTING RANGE	WEIGHT (KG)	DIMENSIONS LxBxT	HOUSING MATERIAL	CERTIFICATION
931101	KG-H 4305	230 / 50-60	550	+10°C - +55°C	+20°C - +50°C	27,7	715x372x260	mild steel, RAL 7035	CE, cURus
931102	KG-H 4308	230 / 50-60	750	+10°C - +55°C	+20°C - +50°C	27,7	715x372x260	mild steel, RAL 7035	CE, cURus
931103	KG-H 4309	230 / 50-60	850	+10°C - +55°C	+20°C - +50°C	30,0	715x372x260	mild steel, RAL 7035	CE, cURus
931104	KG-H 4310	230 / 50-60	1000	+10°C - +55°C	+20°C - +50°C	30,0	715x372x260	mild steel, RAL 7035	CE, cURus
931105	KG-H 4315	230 / 50-60	1500	+10°C - +55°C	+20°C - +50°C	39,7	1045x452x270	mild steel, RAL 7035	CE, cURus
931106	KG-H 4320	230 / 50-60	2000	+10°C - +55°C	+20°C - +50°C	44,2	1045x452x270	mild steel, RAL 7035	CE, cURus
931107	KG-H 4325	400/460 / 50-60 (2ph)	2500	+10°C - +55°C	+20°C - +50°C	65,0	1295x557x340	mild steel, RAL 7035	CE, cURus
931108	KG-H 4330	400/460 / 50-60 (2ph)	3000	+10°C - +55°C	+20°C - +50°C	72,5	1295x557x340	mild steel, RAL 7035	CE, cURus
931109	KG-H 4340	400/460 / 50-60 (2ph)	4000	+10°C - +55°C	+20°C - +50°C	70,0	1295x557x340	mild steel, RAL 7035	CE, cURus

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COMPRESSOR COOLING UNITS – OUTDOOR

- Suitable for most outdoor applications without filter
- Stainless steel models comply to NEMA Type 4X
- Adjustable electronic controller with display (rear)
- All models fitted with condensate evaporation
- Virtually maintenance free



Technical data ComPact Outdoor (with frame - Type: OC)

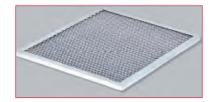
ORDER-NO.	TYPE	SUPPLY VOLTAGE (V/HZ)*	COOLING CAPACI- TY L35/L35 (W)	OPERATING TEMPERATURE	SETTING RANGE	WEIGHT (KG)	DIMENSIONS LxBxT	HOUSING MATERIAL	CERTIFICATION
932000	OC 5704	230 / 50-60	300	-20°C - +55°C	+20°C - +50°C	15,2	480x250x190	mild steel, RAL 7035	CE, cURus
932001	OC 5705	230 / 50-60	550	-20°C - +55°C	+20°C - +50°C	30,0	830x304x270	mild steel, RAL 7035	CE, cURus
932002	OC 5708	230 / 50-60	750	-20°C - +55°C	+20°C - +50°C	30,0	830x304x270	mild steel, RAL 7035	CE, cURus
932003	OC 5709	230 / 50-60	850	-20°C - +55°C	+20°C - +50°C	32,0	830x304x270	mild steel, RAL 7035	CE, cURus
932004	OC 5710	230 / 50-60	1000	-20°C - +55°C	+20°C - +50°C	38,0	900x304x270	mild steel, RAL 7035	CE, cURus
932005	OC 5715	230 / 50-60	1500	-20°C - +55°C	+20°C - +50°C	42,0	1150x395x270	mild steel, RAL 7035	CE, cURus
932006	OC 5720	230 / 50-60	2000	-20°C - +55°C	+20°C - +50°C	49,0	1150x395x270	mild steel, RAL 7035	CE, cURus
932007	OC 5726	400/460 / 50-60 (2ph)	2500	-20°C - +55°C	+20°C - +50°C	80,0	1550x457x355	mild steel, RAL 7035	CE, cURus
932008	OC 5731	400/460 / 50-60 (2ph)	3000	-20°C - +55°C	+20°C - +50°C	77,2	1550x457x355	mild steel, RAL 7035	CE, cURus
932009	OC 5741	400/460 / 50-60 (2ph)	4000	-20°C - +55°C	+20°C - +50°C	83,0	1550x457x355	mild steel, RAL 7035	CE, cURus

^{*}special voltage on request

Available accessories:



Fibre filter media



Aluminium filter



Filter holder stainless steel

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PELTIER COOLING UNITS

- Suitable for Indoor and Outdoor applications
- Can be mounted in any position
- NEMA 4X rated
- Ingress protection rating of IP66
- Virutally maintenance free
- Special versions and accessories on request



Technical data peltier cooling units (recessed – type: ST-H)

ORDER-NO.	TYPE	SUPPLY VOLTAGE (V)	COOLING CAPACITY L35/ L35 (W)	OPERATING TEMPERATURE	WEIGHT (KG)	KIND OF PROTECTION	DIMENSIONS LxBxT	HOUSING MATERIAL	CERTIFICATION
920000	ST-H 3030	12V DC	30	-20 - +65°C	ca. 1,8	IP66	110x154x128	stainless steel 304 (V2A)	CE
920001	ST-H 3050	24V DC	50	-20 - +65°C	ca. 3,3	IP66	206x154x135	stainless steel 304 (V2A)	CE, cURus
920002	ST-H 3102	24V DC	100	-20 - +65°C	ca. 5,9	IP66	200x304x138	stainless steel 304 (V2A)	CE, cURus
920004	ST-H 3152	24V DC	150	-20 - +65°C	ca. 9,0	IP66	400x180x171	stainless steel 304 (V2A)	CE, cURus
920005	ST-H 3200	24V DC	200	-20 - +65°C	ca. 10,0	IP66	400x180x171	stainless steel 304 (V2A)	CE, cURus
920003	ST-H 6105	120-230V AC	100	-20 - +65°C	ca. 9,4	IP66	280x356x118	stainless steel 304 (V2A)	CE
920007	ST-H 6155	120-230V AC	150	-20 - +65°C	ca. 16,2	IP66	500x330x194	stainless steel 304 (V2A)	CE
920008	ST-H 6205	120-230V AC	200	-20 - +65°C	ca. 18,0	IP66	500x330x207	stainless steel 304 (V2A)	CE
920010	ST-H 6405	120-230V AC	400	-20 - +65°C	ca. 34,0	IP66	600x432x140,5	stainless steel 304 (V2A)	CE
920011	ST-H 6805	120-230V AC	800	-20 - +65°C	ca. 66,0	IP66	972x514x140	stainless steel 304 (V2A)	CE

Technical data peltier cooling units (with frame - type: ST-A)

ORDER-NO.	TYPE	SUPPLY VOLTAGE (V)	COOLING CAPACI- TY L35/L35 (W)	OPERATING TEMPERATURE	WEIGHT (KG)	KIND OF PROTECTION	DIMENSIONS LxBxT	HOUSING MATERIAL	CERTIFICATION
920100	ST-A 3030	12V DC	30	-20 - +65°C	ca. 2,6	IP66	212x158x131	stainless steel 304 (V2A)	CE
920101	ST-A 3050	24V DC	50	-20 - +65°C	ca. 3,9	IP66	302x158x137	stainless steel 304 (V2A)	CE, cURus
920102	ST-A 3102	24V DC	100	-20 - +65°C	ca. 7,4	IP66	302x306x140	stainless steel 304 (V2A)	CE, cURus
920104	ST-A 3152	24V DC	150	-20 - +65°C	ca. 12,7	IP66	500x188x174	stainless steel 304 (V2A)	CE, cURus
920105	ST-A 3200	24V DC	200	-20 - +65°C	ca. 13,7	IP66	500x188x174	stainless steel 304 (V2A)	CE, cURus
920103	ST-A 6105	120-230V AC	100	-20 - +65°C	ca. 11,0	IP66	280x356x166	stainless steel 304 (V2A)	CE
920107	ST-A 6155	120-230V AC	150	-20 - +65°C	ca. 21,0	IP66	500x330x207	stainless steel 304 (V2A)	CE
920108	ST-A 6205	120-230V AC	200	-20 - +65°C	ca. 21,0	IP66	500x330x207	stainless steel 304 (V2A)	CE
920110	ST-A 6405	120-230V AC	400	-20 - +65°C	ca. 37,0	IP66	600x430x212,5	stainless steel 304 (V2A)	CE
920111	ST-A 6805	120-230V AC	800	-20 - +65°C	ca. 70,0	IP66	972x514x212	stainless steel 304 (V2A)	CE

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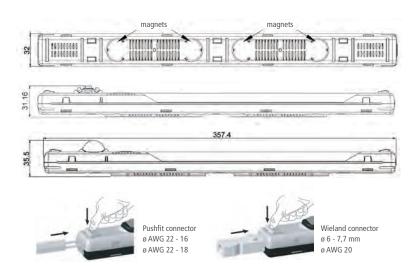
LED ENCLOSURE LIGHT

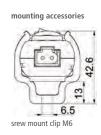
- Universal supply voltage: 24-265V AC/DC
- Motion sensor or ON/OFF switch
- Wieland or pushfit connector
- Rapid instalation due to magnet / clips



Technical data LED enclosure light

ORDER-NO.	940000	940001	940002	940003	940004	940005
DESCRIPTION	Motion sensor, Wieland SL-4000-WB	Motion sensor, Pushfit SL-4000-PB	ON / OFF, Wieland SL-4000-W	ON / OFF, Pushfit SL-4000-P	Motion sensor, Wieland SL-4000-WB	ON / OFF, Wieland SL-4000-W
SUPPLY VOLTAGE (V/HZ)	24-265 AC/DC / 50-60	120-230 AC/DC / 50-60	120-230 AC/DC / 50-60			
POWER CONSUMPTION (W)	4	4	4	4	8	8
LAMP TYPE	LED, 120°C angle					
LIGHT COLOUR / TEMPERATURE	Cool white / 6.500K					
LIGHT OUTPUT (LM)	400	400	400	400	700	700
DIMENSIONS (LxBxT)	357,4x32x35,5	357,4x32x35,5	357,4x32x31,16	357,4x32x31,16	357,4x32x35,5	357,4x32x31,16
HOUSING MATERIAL	PC clear (top), PC blue (base)	PC frosted (top), PC blue (base)	PC frosted (top), PC blue (base)			
WEIGHT (GRAM)	140	140	140	140	140	140
KIND OF PROTECTION	IP20	IP20	IP20	IP20	IP20	IP20
KIND OF PROTECTION CLASS	PC II (double insulated)					
OPERATING TEMPERATURE	-30°C - +70°C					
LIFE TIME (WITH 20°C)	40.000 h	40.000 h	40.000 h	40.000 h	60.000 h	60.000 h
MOUNTING	Magnet, clips (upon delivery incl.)					
CERTIFICATION	CE, cURus, CSA					





The information described on this data sheet contains descriptions or characteristics, which could not apply in the described way in the concrete case. The information of the products can also change in the course of development. The desired characteristics are only binding in the case that they have been explicitly agreed with a contract conclusion. Delivery possibilities and technical changes reserved.

The mentioned technical data have been determined under labor conditions by universal test instructions. Only insofar characteristics are ensured. The test for the suitability for the intended use scheduled by the purchaser is incumbent on the purchaser, we do not take warranty for that. Errors reserved.



The Lm-therm Elektrotechnik AG

The Lm-therm Elektrotechnik AG ensures for more than 55 years optimal climate in electric cabinets, machines, plants and drive systems in the outdoor area. We climate, cool, ventilate and reliably prevent condensation of your valuable electronic in the local public transportation, construction machinery or mobile tools. We make your challenges to our tasks and develop the adequate solution.

Heating – Controlling – Ventilating – Cooling! Industrial climate control of Lm-therm!

Wherever the sites of our customers are located: They all profit from our experience, in-house engineering and personal advice.

Quality Management according to ISO 9001

The Lm-therm Elektrotechnik AG is certified in accordance with DIN EN ISO 9001 since 2001.



Your contact:							
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