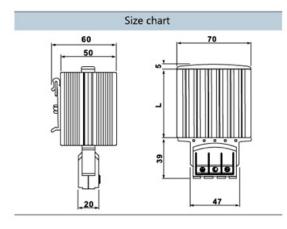
# **B** LINKWELL



- Pressure clamp connectors
- Dynamic heating up
- wide voltage range
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

These heaters are used in enclosures where damage from condensation must be prevented or where the temperature may not fall below a minimum value. The aluminium profile heater body design has a chimney effect and distributes the heat evenly. The pressure clamp connectors save time and simplify installation.

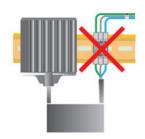


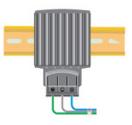
Operating voltage	120-250V AC/DC
Heating element	PTC resistor, self regulating and temperature limiting
Heater bady	extruded aluminium profile, anodised
Connection casing	3 perssure clamps for stranded wire 0.5-1.5mm² (with wire and terrule) and rigid wire 0.5-2.5mm² plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 50022
Fitting position	vertical
Operating/Storage temperature	-45 to + 70°C (-49 to +158°F)
Protection type/Protection class	IP20/l(earthed)
Certificate	CE

#### Operating with voltages below 140V AC/DC reduces heating performance by approx, 10%

Туре	Heating capacity	Inrush current max.	Length(L) (mm)	Weight (approx)
HG 140	15W	1.5	75	0.3
HG 140	30W	3	75	0.3
HG 140	45W	3.5	75	0.3
HG 140	60W	2.5	75	0.3
HG 140	75W	4	75	0.3
HG 140	100W	4.5	145	0.5
HG 140	150W	9	145	0.5





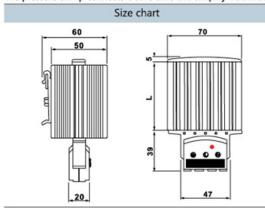


## LK140 Type Compact Fan Heater



- Screw terminal connector With indicator showing on/off
- Dynamic heating up
- wide voltage range
- Temperature limiting
- Energy saving
- Clip fixing
- Quick installation

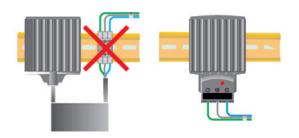
These heaters are used in enclosures where damage from condensation must be prevented or where the temperature may not fall below a minimum value. The aluminium profile heater body design has a chimney effect and distributes the heat evenly. The pressure clamp connectors save time and simplify installation.



Operating voltage	120-250V AC/DC
Heating element	PTC resistor, self regulating and temperature limiting
Heater bady	extruded aluminium profile, anodised
Connection casing	3 perssure clamps for stranded wire 0.5-1.5mm² (with wire and terrule) and rigid wire 0.5-2.5mm² plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 50022
Fitting position	vertical
Operating/Storage temperature	-45 to + 70°C (-49 to +158°F)
Protection type/Protection class	IP20/l(earthed)
Certificate	CE

Operating with voltages below 140V AC/DC reduces heating performance by approx, 10%

Туре	Heating capacity	Inrush current max.	Length(L) (mm)	Weight (kg)
LK 140	15W	1.5	65	0.2
LK 140	30W	2.5	65	0.2
LK 140	45W	3	65	0.2
LK 140	60W	3.5	65	0.2
LK 140	75W	4	65	0.2
LK 140	100W	4.5	145	0.4
LK 140	150W	9	145	0.4



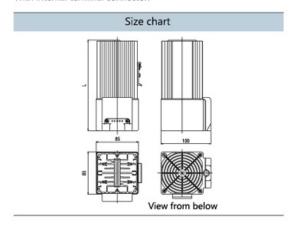


### **HGL046 Type Compact Fan Heater**



- Compact Design
- Clip fixing
- Long service life
- Maintenance free
- Temperature safety cut-out

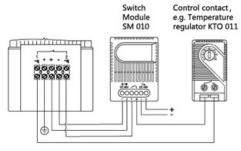
Compact fan heater prevents formation of condensation. The integrated high performance axial fan provides forced air circulation and so guarantees an even temperature in enclosures. With internal terminal connector.



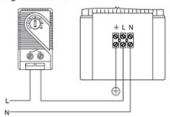
Operating voltage	230V AC 50/60Hz				
Heating element	PTC resistor, self regulating and temperature limiting				
Temperature safety cut-out	to protect against overheating in case of fan failure				
Heater body	anodised extruded aluminium profile				
Surface temperature	max. 75 °C(400W)				
Axial fan, ball bearing	Airflow, free flow AC: 45m³/h (50HZ) or 54m³/h (60Hz) DC: 54m³/h service life 50 000h at 25°C (77°F)				
Connection	internal connection terminal 1.5mm² with strain relief clamping torque 0.8Nm max.				
Connection casing	plastic according to UL94 V-0,black				
Mounting	clip for 35mm DIN rail, EN 50022				
Fitting position	vertical				
Operating/Storage temperature	-45 to +70 °C(-49 to+158°F)				
Protection type/Protection class	IP20 / I (earthed)				

Туре	Operating voltage	Heating capacity	Length (L)	Weight (approx.)
HGL046-250	230VAC, 50/60HZ	250W	85x182x85mm	1.10kg
HGL046-400	230VAC, 50/60HZ	400W	85x222x85mm	1.40kg





Control contact, e.g. Temperature regulator KTO 011



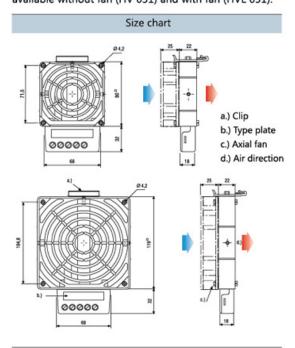
Heater Fan Heater HGL 046 (AC 230V and 120V) with temperature safety cut-out





- Compact / Flat design
- · High air through-flow
- Temperature safety cut-out
- Clip fixing

Compact high-performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. This fan heater is available without fan (HV 031) and with fan (HVL 031).





Important!
Heater may only be operated together with fan. Danger of overheating!

HV 031	Heater without fan (fan mounting kie included)
HVL 031	Heater with fan
Heating element	high performance cartridge
Temperature safety cut-out	to protect against overheating in case of fan failure
Heater body	die-cast aluminium(glass bead blasted)
Connection	3-pole screw connector 2.5mm², clamping toeque 0.8Nm max
Connection casing	plastic according to UL94 V-0,BLACK
Mounting	clip for 35mm DIN rail,EN50022
Fitting position	horizontal
Operating/Storage temperature	-45 to+70°C/(-49to+158°F)
Protection type/Protection class	IP20/1(earthed)
Service life	service life 50,000h at25°C/(77°F)
Connection(axial fan)	2-pole screw connector 2.5mm²(L2/N2)

Art.no.HV 031	Art.no.HV 031	Heating capacity	Dimensions	Weight(approx.)
230vac,50/60Hz	120 vac,50/60Hz			
03100.0-00	03100.9-00	100W	80×112×22mm	0.40kg
03101.0-00	03101.9-00	150W	80×112×22mm	0.40kg
03110.0-00	03110.9-00	200W	119×151×22mm	0.50kg
03111.0-00	0311.9-00	300W	119×151×22mm	0.50kg
03112.0-00	03112.9-00	400W	119×151×22mm	0.50kg

Art.no.HVL 031	Art.no.HVL 031	Heating capacity	Airflow min	Dimensions	Weight(approx.)
230vac,50/60Hz	120 vac,50/60Hz		free flow		
03102.0-00	03102.9-00	100W	35m³/h	80×112×47mm	0.60kg
03103.0-00	03103.9-00	150W	35m³/h	80×112×47mm	0.60kg
03113.0-00	03113.9-00	200W	108m³/h	119×151×47mm	0.90kg
03114.0-00	03114.9-00	300W	108m³/h	119×151×47mm	0.90kg
03115.0-00	03115.9-00	400W	108m³/h	119×151×47mm	0.90kg



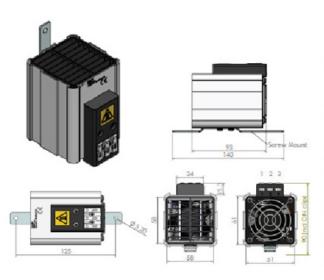
### LK143 Series Compact Fan Heater



Connections

Pos 1 Heater, Live Pos 2 Neutral Pos 3 Fan, Live

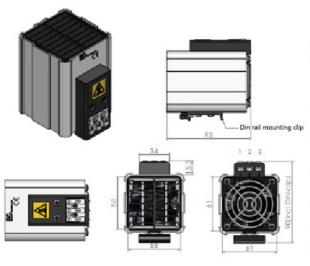
Note: Heater must be mounted vertically with air exit at the top



#### LK143 220-240V 150W Screw Mount

60mm Axial fan PTC heating element, with cage clamp connection

Type Number	LK143
Nominal Power Output (+5/-10%) at 10 C	150W (+5/-10%)
Input Voltage	220-240 VAC
Frequency	50-60Hz
Max. body temperature (25 °C Ambient)	74°C
Connection (Cage Type)	Push In
Fan Lifetime (MTTF)	329,447hrs (30°C 65%RH)
Operating & Storage Temperature	-40°C to 70°C (RH < 20%)
Air Flow Rate (zero static pressure)	30m³/hr (18 CFM)
Weight	300g
Ingress Protection (EN60529)	IP20
Electrical Protection	SK II
Recommended Fuse (time Delay)	TBD
Mounting	Sorew Mount



#### LK143 220-240V

60mm Axial fan PTC heating element, with cage clamp connection

Type Number	LK143					
Nominal Power Output (+5/-10%) at 10 °C	300W 400W 500W					
Input Voltage	220-240 VAC					
Frequency		50-60Hz				
Max. body temperature (25°C Ambient)	74°C					
Connection (Cage Type)	Push In					
Fan Lifetime (MTTF)	329,447hrs (30°C 65%RH)					
Operating & Storage Temperature	-40 °C to 70 °C (RH < 20%)					
Air Flow Rate (zero static pressure)	:	30m <sup>3</sup> /hr (18 CFM	)			
Weight		300g				
Ingress Protection (EN60529)		IP20				
Electrical Protection	SK II					
Recommended Fuse (time Delay)	6.3A 6.3A 8A					
Mounting	Aluminum DIN Clip 35mm EN50022 Compliant					

### KHL120 Fan heaters 75-230W Space-saving Heater



Compact design

Long service life

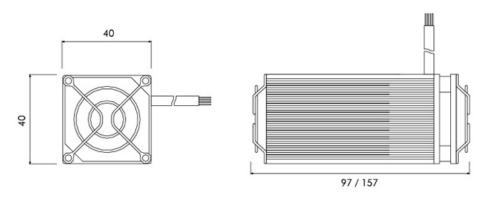
Clip fixing

Mainternance free

Compact fan heater prevents formation of condensation. The intergrated high performance axial fan provides forced air circulation and so guarantees an even temperature in enclosure.

Features	Unit	KHL120075.0-00	KHL120100.0-00	KHL120150.0-00	KHL120230.0-00	KHL120300.0-00		
Heating Capacity*	W	75	100	150	230	300		
Power supply	V/Hz		Heater 110-250V AC/DC-Fan 24V AC/DC					
Max. current	Α	4	4	6	6	8		
Heating element type	-		PT	C resistor, self regulat	ing			
Radiator	-		Extrude	d aluminium profile, a	nodized			
Axial fan	-	Ball be	aring, service life 50.0	00 hrs at 25℃ (77°F), a	air flow rate 11m³/h, f	ree flow		
			air flow rate 33m³/h, free flow					
Electrical connections	-		Silicon cable, 4x0.5m³, length 400mm					
Protection class IEC	-			Class I				
Protection degree EN60529	-			IP20				
Operating temperature	℃ (°F)			-20/+70 (-4/+158)				
Storage temperature	C (°F)			-25/+70 (-13/+158)				
Mounting	-		Clip for mor	unting on DIN rail 35m	nm EN50022			
Installation position	-		Best perf	formance in vertical in	stallation			
Dimensions HxWxD	mm	97x40x40	97x40x40 97x40x40 132x40x40 142x40x40					
Cable length	mm	400	400	400	400	400		
Weight (with packaging)	kg	0.20(0.21)	0.20(0.21)	0.26(0.28)	0.28(0.30)	0.40(0.42)		
Conformity	-			CE				

<sup>\*</sup>at 20 °C (68°F) ambient temperature



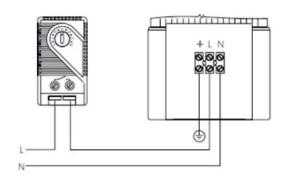


## Space-saving Heater KHP300(B) Series



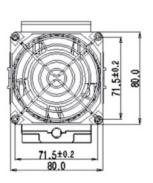
- Compact Design
- Clip fixing
- Temperature safety cut-out
- Long service life
- Maintenance free

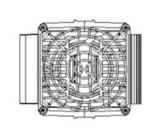
#### **Technical Drawing**

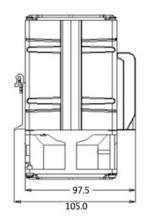


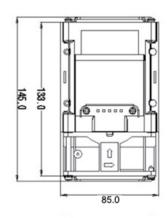
#### **Technical Data**

KHP300	With Fan
Heating element	PTC heater PTC
Input	AC 230V 50/60Hz 300-350W
Insulating strength	2000V/0.5mA/5s
Surface Temperature	60 C (at 30 C ambient temperature)
Axial fan,ball bearing	Airflow:AC:24m³/h (50Hz) or 31m³/h (60Hz)
RPM	2400
Heater body	Aluminium alloy castings+PPS profile
Cooling methoed	Natural cooling
Connection Casing	Plastic according to UL94V-0 ,black
Mounting	Clip for 35mm DIN rail,EN50022
Fitting position	Vertical
Operating/Storage temperature	-45 to +70 ℃ (-49 to +158°F)
Protection type/Protection class	IP20/I(earthed)
Service life	50,000h at 25 ℃ (77°F)









Art. No.	Operating voltage	Heating capacity
30005.0-00	230VAC,50/60Hz	300W

### KH 150-650 Series 150W-650W Compact fan heater Heater



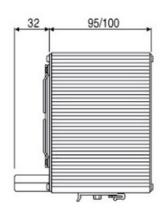


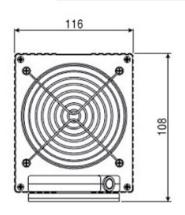
- Compact Design
- Clip fixing
- Long service lifeMaintenance free
- Temperature safety cut-out

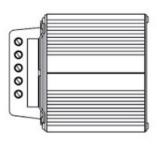
Compact fan heater prevents formation of condensation. The intergrated high performance axial fan provides forced air circulation and so guarantees an even temperature in enclosure.

#### **Technical Data**

Heating element	PTC
Temperature safety cut-out	to protect against overheating in case of fan failure
Heater body	anodised extruded aluminium profile
Axial fan, ball bearing	Airflow, free flow
	Air volume:35m³/h
	DC: 54m²/h
	service life 50.000h at 25 °C (77°F)
Connection	5-pole screw connector 2.5mm²
Mounting	clip for 35mm DIN rail, EN 50022
Fitting position	vertical
Operating temperature	-25 to +70°C (-13 to +158°F)
Storage temperature	-25 to +70°C (-13 to +158°F)
Protection class	IP20 / I(earthed)





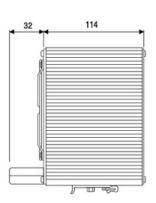


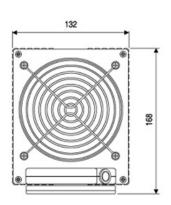
Art. No. 230VAC,50/60Hz	Art. No. 115VAC,50/60Hz	Heating capacity	Dimension	Weight
150.0-00	150.9-00	150W	108x116x127mm	0.6kg
200.0-00	200.9-00	200W	108x116x127mm	0.6kg
250.0-00	250.9-00	250W	108x116x127mm	0.6kg
300.0-00	300.9-00	300W	108x116x127mm	0.6kg
400.0-00	400.9-00	400W	108x116x127mm	0.6kg
650.0-00	650.9-00	650W	108x116x132mm	1.1kg

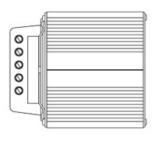
# **B** LINKWELL











### Fan Assisted PTC Heaters

Heating Capacity		W	800W	1000W	1200W	1500W	
	230	V/HZ	800.0-00	1000.0-00	1200.0-00	1500.0-00	
Aticie number	110		800.9-00	1000.9-00	1200.9-00	1500.9-00	
Max. current		А	8.0	9.0	12.0	13.0	
Heating element				P	PTC		
Thermal protection			The	rmal out out fus	e in cose of fan	failure	
Radieter			E	xtruded aluminiu	ım profile, anod	ized	
Axial fan			Ball bearing, service life 50.000 hrs at 25°C(77°F), air flow rate $35m^3/h$ , free flow				
Electrical connections			5 screw terminals for stranded or rigid wire 2.5mm <sup>2</sup>				
Terminal block			plastic according to V-0,black				
Protection class IEC			Class°C ,Earthed				
Protection degree EN80529			IP20				
Operating/Storage temperature			-25/+70°C				
Mounting			clip for 35MM DIN rail, EN 50022				
Fitting position			vertical				
Dimensions H*W*D		mm	132×168×146				
Weight		KG	1.5				
Conformity			CE				

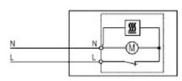
### KCR 030 250W-1000W Compact Heater

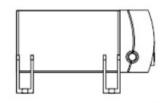


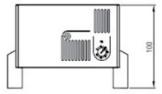
- Compact design
- Double insulated
- Integrated thermostat or hygrostat

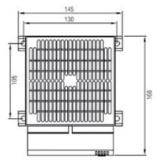
The compact high performance fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The plastic enclosure provides double insulation and acts as protection against contact. The fan heater is available with integrated thermostat or pre-set hygrostat for temperature or humidity control. The CT 030 was designed as a stationary unit for the hottom of the enclosure. For wall fixing the fan heater CP. for the bottom of the enclosure. For wall fixing the fan heater CR 130 is recommended.

#### Technical Drawing









#### **Technical Data**

Uesting element	high performance certidae
Heating element	high performance cartidge
Temperature safety cut-out	to protect against overheating in case of fan failure
	automatic reset
Heater body	extruded alumin profile
Axial fan, ball baring	airflow 160 m³/h, free flow
Connection	2-pole max. 2.5mm², clamping screw with strain relie
	torque 0.8Nm max.
Casing	plastic according to UL94 V-0,black
Mounting	screw fixing (M5)
Fitting position	horizontal
Dimensions	168×145×100mm
Weight	approx. 1.40kg
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Protection type/Production class	IP20 / II (double insulated)

Note:other heating capacities from 200W up available on request

\* Operating temperture of heater with integrated hygrostat:0 to +60°C (+32 to 140°F)

Art. No.	Model	Operating voltage	Heating capacity	Setting range
1.11.21.1.2.2	Fan Heater with thermostat		250W	0 to 60°C
KCR03047.0-02	Fan Heater with hygrostat	230VAC,50/60Hz	250W	65% RH, factory-set
KCR03047.9-00	Fan Heater with thermostat	120VAC,50/60Hz	250W	+32 to 140°F
KCR03048.0-00	Fan Heater with hygrostat	230VAC,50/60Hz	400W	0 to 60°C
KCR03048.0-02	Fan Heater with thermostat	230VAC,50/60Hz	400W	65% RH, factory-set
KCR03048.9-00	Fan Heater with hygrostat	120VAC,50/60Hz	400W	+32 to 140°F
KCR03049.0-00	Fan Heater with thermostat	230VAC,50/60Hz	600W	0 to 60°C
KCR03049.0-02	Fan Heater with hygrostat	230VAC,50/60Hz	600W	65% RH, factory-set
KCR03049.9-00	Fan Heater with thermostat	120VAC,50/60Hz	600W	+32 to 140°F
KCR03050.0-00	Fan Heater with hygrostat	230VAC,50/60Hz	800W	0 to 60°C
KCR03050.0-02	Fan Heater with thermostat	230VAC,50/60Hz	800W	65% RH, factory-set
KCR03050.9-00	Fan Heater with hygrostat	120VAC,50/60Hz	800W	+32 to 140°F
KCR03051.0-00	Fan Heater with thermostat	230VAC,50/60Hz	900W	0 to 60°C
KCR03051.0-02	Fan Heater with hygrostat	230VAC,50/60Hz	900W	65% RH, factory-set
KCR03051.9-00	Fan Heater with thermostat	120VAC,50/60Hz	900W	+32 to 140°F
KCR03052.0-00	Fan Heater with hygrostat	230VAC,50/60Hz	1000W	0 to 60°C
KCR03052.0-02	Fan Heater with thermostat	230VAC,50/60Hz	1000W	65% RH, factory-set
KCR03051.9-00	Fan Heater with hygrostat	120VAC,50/60Hz	1000W	+32 to 140°F

<sup>\*</sup>according to UL 499 in combination with UL 508A

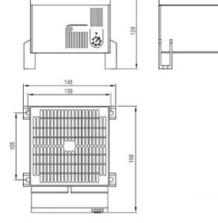




- Compact design
- Double insulated
- Integrated thermostat or hygrostat

The compact high performance fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric /electronic components. The plastic enclosure provides double insulation and acts as protection against contact. The fan heater is available with optional integrated thermostat for temperature control. The RCS 030 was designed as a stationary unit for the bottom of the enclosure. For wall fixing the fan heater RCS 130 is recommended.

#### Technical Drawing

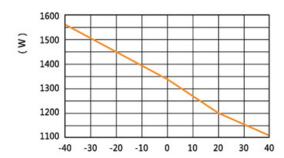


#### Technical Data

Heating element	high performance cartidge			
Temperature safety cut-out	to protect against overheating in case of fan failure.			
	automatic reset			
Service life	60,000h at 20℃ (68°F)			
Heater body	extruded alumin profile			
Axial fan, ball baring	airflow 160 m³/h, free flow			
Connection	2-pole max. 2.5mm², clamping screw with strain relief			
	torque 0.8Nm max.			
Casing	plastic according to UL94 V-0,black			
Mounting	screw fixing (M5)			
Fitting position	horizontal			
Dimensions	168×145×100mm			
Weight	approx. 1.20kg			
Operating/storage temperature	-45 to +70℃ (-49 to +158°F)			
Protection type/Production class	IP20 / II (double insulated)			

### Heating Performancel/Ambient Temperature

#### CS 030



Art. No.	Model	Operating voltage	Heating capacity	Inrush current max.	Setting range
KCS03060.0-00	Fan Heater with thermostat	230VAC, 50/60Hz	1200W	13A	0 to +60°C
KCS03060.0-01	Fan Heater without thermostat	230VAC, 50/60Hz	1200W	13A	-
KCS03060.9-00	Fan Heater with thermostat	120VAC, 50/60Hz	1200W	16A	+30 to +140°F
KCS03060.9-01	Fan Heater without thermostat	120VAC, 50/60Hz	1200W	16A	-