

### Performance:

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.

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



HG 140-15W



HG 140-150W

### SPECIFICATION

<b>Operating voltage</b>	<b>110-250V AC/DC</b>
Thermal element	PTC, self-adjusting and temperature limiting
Material	Tensile aluminum
Electrical connection	3-position crimping terminal, Standard wire, 0.5-2.5mm <sup>2</sup>
Connection mode	UL94 V-0, black plastic
Install	Vertical
Operating/storage temperature	-45 ~ +70°C
Protection	IP20
Certificate	CE



Heater burn protective cover (optional)



(15W-75W) Universal

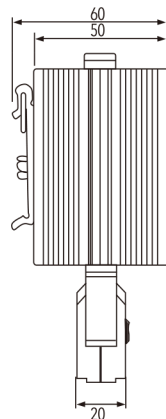
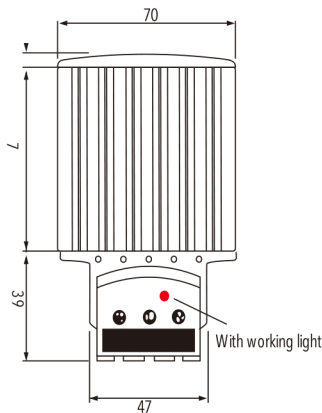


(100W-150W) Universal

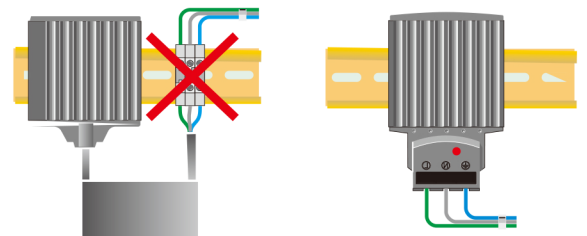
Operating voltage below 140V AC/DC will reduce the heat output by about 10%

Model	Heat output (W) 20°C ambient temperature	Maximum allowable current (A)	L (mm)	Weight (kg)
HG 140-15W	15W	1.5	70	0.25
HG 140-30W	30W	2.5	70	0.25
HG 140-45W	45W	3.0	70	0.25
HG 140-60W	60W	3.5	70	0.25
HG 140-75W	75W	4.0	70	0.25
HG 140-100W	100W	4.5	140	0.40
HG 140-150W	150W	9.0	140	0.40

### DIMENSION (mm)



### WIRING DIAGRAM



**Performance:**

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 aluminum profile heater body design has a chimney effect and distributes the heat evenly. The pressure clamp connectors save time and simplify installation.

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



LK 140-15W



LK 140-150W

**SPECIFICATION**

<b>Operating voltage</b>	<b>110-250VAC/DC</b>
Thermal element	Ptc, self-adjusting and temperature limiting
Material	Tensile aluminum
Electrical connection	3-position crimping terminal, standard wire, 0.5-2.5mm <sup>2</sup>
Connection mode	UL94 V-0, black plastic
Install	Vertical
Operating/storage temperature	-45 ~ +70°C
Protection	IP20
Certificate	CE



Heater burn protective cover (optional)



(15W-75W) Universal

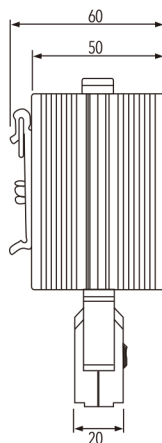
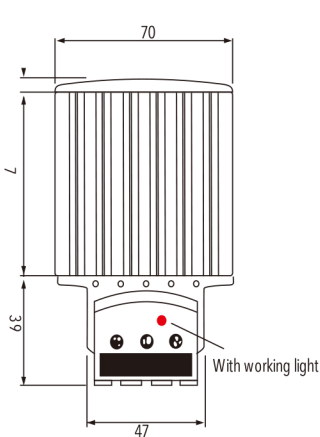


(100W-150W) Universal

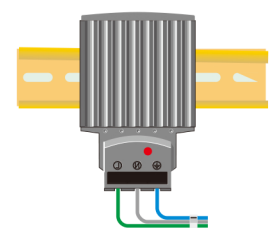
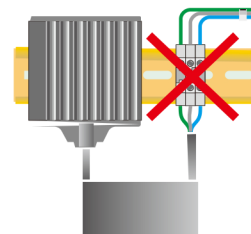
Operating voltage below 140V AC/DC will reduce the heat output by about 10%

Model	Heat output (W) 20°C ambient temperature	Maximum allowable current (A)	L (mm)	Weight (kg)
LK 140-15W	15W	1.5	70	0.25
LK 140-30W	30W	2.5	70	0.25
LK 140-45W	45W	3.0	70	0.25
LK 140-60W	60W	3.5	70	0.25
LK 140-75W	75W	4.0	70	0.25
LK 140-100W	100W	4.5	140	
LK 140-150W	150W	9.0	140	0.40

**DIMENSION (mm)**



**WIRING DIAGRAM**



### Performance:

- Adopt ceramic semiconductor PTC heating element;
- Aluminum alloy heat sink with high thermal conductivity;
- Modular heaters specially designed to accommodate limited installation space,
- 49/70/100mm three widths, uniform thickness, length can be customized;
- Customizable power and table temperature;
- Standard configuration of high temperature resistant silicone cable length 2 meters;
- Each face is designed with a structure for installation
- 35mm DIN rail mounting;

- Wide voltage(18~36V/110~240V AC/DC)
- High thermal efficiency
- Dynamic temperature rise
- Long life
- Constant surface temperature
- High safety factor



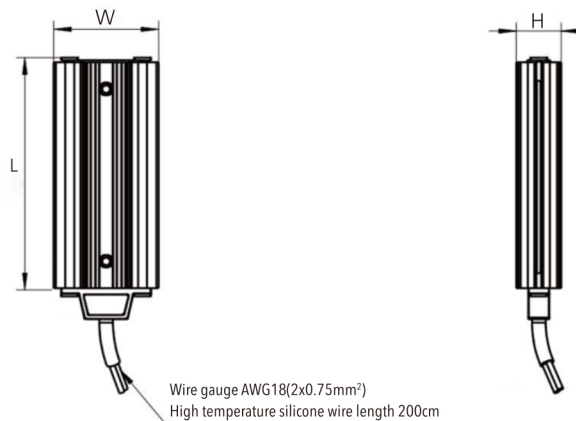
### SPECIFICATION



<b>Operating voltage</b>	AC/DC 110~240V (Min. 110V, Max. 265V) AC/DC 18~36V (Min. 16V, Max. 40V)
Heating element	Ceramic semiconductor PTC
Heat sink material	Aluminium alloy
Connection mode	Standard configuration high temperature resistant silicone cable 2×0.5mm <sup>2</sup> length 2 meters
Installation mode	Surface screw mounting / 35mm DIN rail mounting (additional accessories)
Dielectric withstand voltage	1500VAC 50/60Hz time 1 minute
Insulation resistance	100MΩ @500VDC
Ambient humidity	≤90%RH
Ambient temperature	-45°C~+70°C(storage -45°C~+120°C) no condensation, no icing
Protection/safety level	IP20

Model	Rated voltage	Heat sink size	Length	Power	Weight
	VAC/DC	mm	mm	W	g
LKP805-2050	110~240	W49×H21	110	50	277
LKP805-4015	18~36				
LKP807-2075	110~240	W70×H20	130	90	375
LKP807-4075	18~36				
LKP807-2100	110~240	W70×H20	160	120	435
LKP807-4100	18~36				
LKP810-2120	110~240	W49×H20	160	150	585
LKP810-4120	18~36				
LKP810-2150	110~240	W49×H20	200	165	685
LKP810-4150	18~36				

### DIMENSION (mm)



**Performance:**

- Adopt ceramic semiconductor PTC heating element;
- Aluminum alloy heat sink with high thermal conductivity;
- Ultra-thin, specially designed to fit in limited Spaces,
- Only 8.2mm thickness, 60/100mm two widths, length can be customized
- Customizable power and table temperature
- Wide operating voltage 18~36V/110~240V AC/DC universal
- Surface screw mounting

- Wide voltage(18~36V/110~240V AC/DC)
- High thermal efficiency
- Dynamic temperature rise
- Long life
- Constant surface temperature
- High safety factor

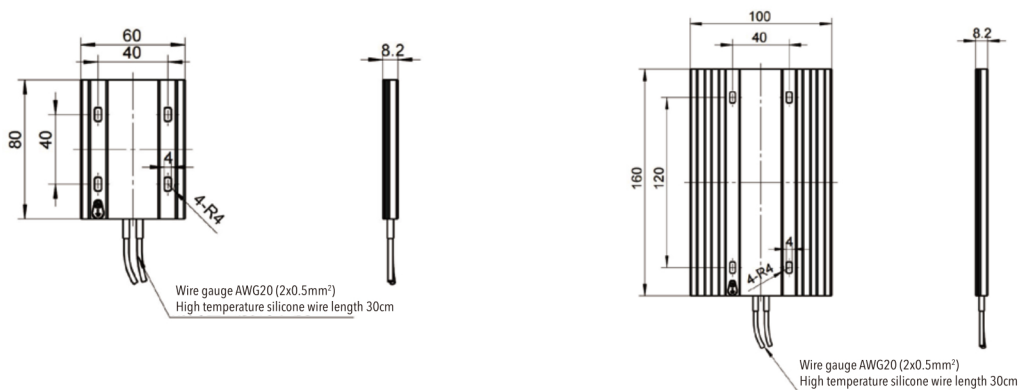


**SPECIFICATION**

<b>Operating voltage</b>	AC/DC 110~240V (Min. 110V, Max. 265V) AC/DC 18~36V (Min. 16V, Max. 40V)
Heating element	Ceramic semiconductor PTC
Heat sink material	Aluminium alloy
Connection mode	Wire gauge AWG20(2×0.5mm <sup>2</sup> )High temperature resistant silicone wire length 300mm
Installation mode	Surface screw mounting / 35mm DIN rail mounting (additional accessories)
Dielectric withstand voltage	1500VAC 50/60Hz time 1 minute
Insulation resistance	100MΩ @500VDC
Ambient humidity	≤90%RH
Ambient temperature	-45°C~+70°C(storage -45°C~+120°C) no condensation, no icing
Protection/safety level	IP20

Model	Rated voltage	Power	Surface temperature	Heat sink size	Length	Weight
	VAC/DC	W	°C	mm	mm	g
LKP506-2008	110~240	8	55	W60×H8	100	90
LKP506-2017	110~240	17	90			
LKP506-2022	110~240	22	115			
LKP506-4005	18~36	5	45			
LKP506-4016	18~36	16	95			
LKP506-4038	18~36	38	175			
LKP510-2031	110~240	31	90	W100×H8	160	215
LKP510-2043	110~240	43	110			
LKP510-2055	110~240	55	135			
LKP510-4010	18~36	10	45			
LKP510-4029	18~36	29	85			
LKP510-4069	18~36	69	160			

**DIMENSION (mm)**





### Performance:

- Adopt ceramic semiconductor PTC heating element
- Three operating modes of manual start and stop, high power and low power are realized through the transfer switch; In addition to the basic model with built-in AC axial fan, built-in turbocharged EC variable frequency axial fan, ball bearing, large air volume and strong convection;
- Built-in overheating temperature limit protection;
- Upgrade to push-type tool-free quick terminal
- Standard 35mm DIN rail mounting/optional surface screw mounting (additional accessories);

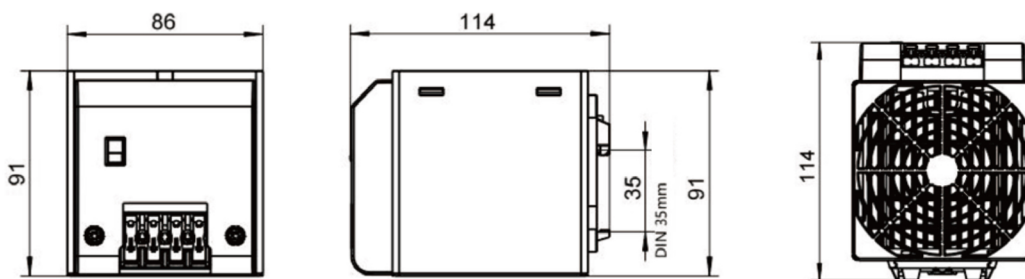
- Dynamic temperature rise
- Constant surface temperature
- High thermal efficiency
- Long life
- High safety factor



### SPECIFICATION

Model	LKP029	LKP029-EC
Rated voltage	220~240VAC 50/60Hz	110~240VAC/DC (Min. 110V, Max. 265V)
Heating power	Low power: 250W; High power: 400W	Low power: 300W; High power: 500W
Fan	□ 80 x 38mm AC aluminum alloy axial fan Ball bearing, 2600RPM, air volume 26CFM, Power consumption 15W, ≤60dB-A	□ 80 x 38mm supercharged EC variable frequency axial fan Ball bearing, 4000RPM, air volume 55CFM, power Consumption ≤18W, ≤60dB-A
Weight	Ceramic semiconductor PTC	
Heating element	Flame retardant reinforced nylon PA66 UL94-V	
Shell material	120C: Automatically reset	
Installation mode	Standard 35mm DIN rail mounting/Surface screw mounting (accessories purchased separately)	
Dielectric withstand voltage	1500VAC 50/60Hz time 1 minute	
Insulation resistance	100MQ@500VDC	
Ambient humidity	<90%RH	
Ambient temperature	-40C~+70C(storage -40°C~+120°C) No condensation, no icing	
Overall dimension	W86XH113XL91mm	

### DIMENSION (mm)



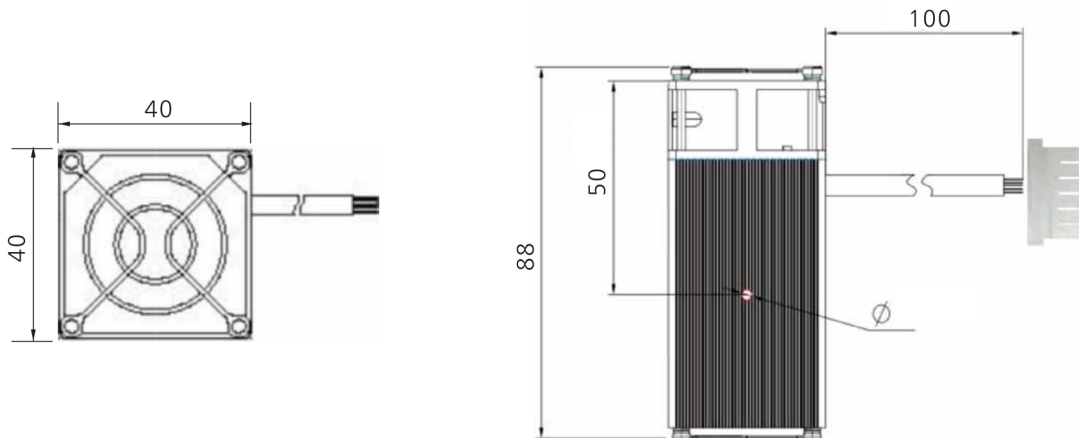
- Compact design
- Clip fixing
- Dynamic heating-up
- Over-heating cut-off
- Long service life
- Simple installation



**SPECIFICATION**

Heating element	PTC Resistor
Input	AC220V 50/60Hz 75W
Dielectric strength	Input 1500V/0.5mA/5s
Safety protection	Fan over-heat cut-off
Axial Fan	13.8/17.4m3/h (50/60Hz)
Service Life	50000H at25°C
Heater	AC220V
Axial Fan	DC24V
Cable Holder (black)	UL94V-0 plastic
Mounting	35mm DIN rail (vertical)
Operation Temperature	-45 to+ 70°C
Protection class	IP20

**DIMENSION (mm)**



### Performance:

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.

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



HGL 046-150W



HGL 046-400W

### SPECIFICATION

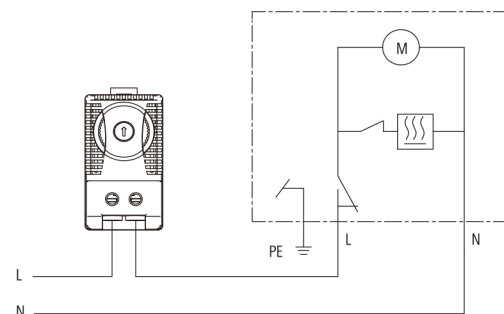
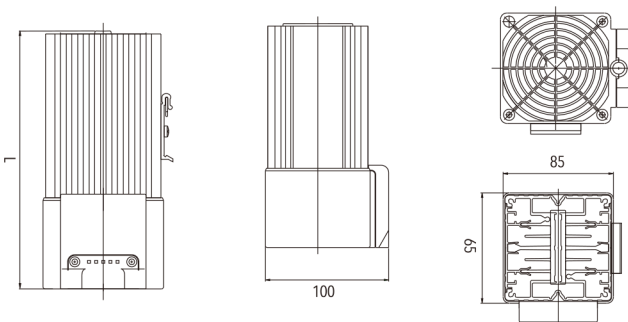
Operating voltage	230V AC 50/60Hz
Heating element	PTC resistor, self regulating and temperature limiting
Temperature safety cut-out	To protect against overheating in case of fan failure
Heater body	Anodised extruded aluminium profile
Surface temperature	Max. 75°C (400W)
Axial fan	Airflow, free flow AC: 45m <sup>3</sup> /h (50Hz) or 54m <sup>3</sup> /h (60Hz) DC: 54m <sup>3</sup> /h
Mean life	50 000h at 25°C
Connection	Internal connection terminal 1.5mm <sup>2</sup> 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-+70°C (-49-+158°F)
Protection type/Protection class	IP20 / I (earthed)



Model	Operating voltage	Heat production	Width/height/depth	Weight (kg)
HGL046-100W	230V AC, 50/60HZ	100W	85x130x85mm	0.77kg
HGL046-150W	230V AC, 50/60HZ	150W	85x130x85mm	0.77kg
HGL046-200W	230V AC, 50/60HZ	200W	85x130x85mm	0.77kg
HGL046-250W	230V AC, 50/60HZ	250W	85x183x85mm	1.10kg
HGL046-400W	230V AC, 50/60HZ	400W	85x216x85mm	1.40kg

### DIMENSION (mm)

### WIRING DIAGRAM



**Performance:**

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).

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



HVL 031-100W

HVL 031-200W

**SPECIFICATION**

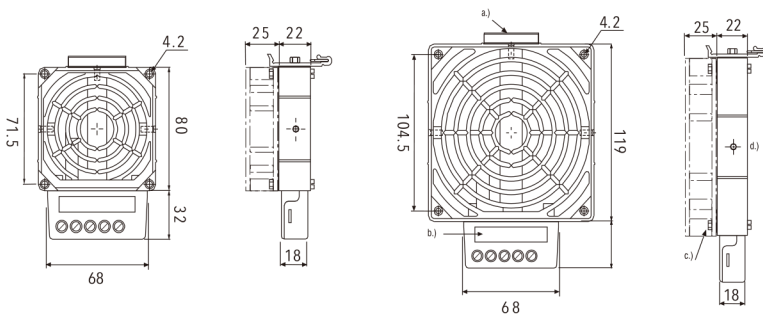
HVL 031/HV 031	Heater without fan (fan mounting kit included) / Heater with fan
Heating element	High performance cartridge
Temperature safety cut-out	to protect against overheating in case of fan failure
Heater body	Die-cast aluminium (glass bead blasted)
Connection	3-pole screw connector 2.5mm <sup>2</sup> , clamping torque 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 +70°C (-49 +158°F)
Protection type/Protection class	IP20/1 (earthed)
HVL 031	
Mean life	50,000h at 25°C (77°F)
Connection (axial fan)	2-pole screw connector 2.5mm <sup>2</sup> (L2/N2)



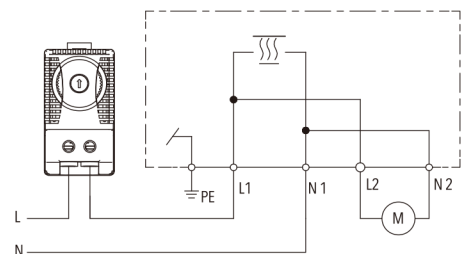
Art.no. HVL 031 (with fan)	Art.no. HVL 031 (with fan)	Heating wattage	Air flow rate	Size	Weight (kg)
230VAC, 50/60Hz	120VAC, 50/60Hz		Free Blow		
03102.0-00	03102.9-00	110W	35m <sup>3</sup> /h	80X112X47mm	0.60kg
03103.0-00	03103.9-00	150W	35m <sup>3</sup> /h	80X112X47mm	0.60kg
03113.0-00	03113.9-00	200W	108m <sup>3</sup> /h	119X151X47mm	0.90kg
03114.0-00	03114.9-00	300W	108m <sup>3</sup> /h	119X151X47mm	0.90kg
03115.0-00	03115.9-00	400W	108m <sup>3</sup> /h	119X151X47mm	0.90kg

Art.no. HVL 031 (with fan)	Art.no. HVL 031 (with fan)	Heating wattage	Size	Weight (kg)
230VAC, 50/60Hz	120VAC, 50/60Hz			
03102.0-00	03102.9-00	110W	80X112X47mm	0.40kg
03103.0-00	03103.9-00	150W	80X112X47mm	0.40kg
03113.0-00	03113.9-00	200W	119X151X47mm	0.50kg
03114.0-00	03114.9-00	300W	119X151X47mm	0.50kg
03115.0-00	03115.9-00	400W	119X151X47mm	0.50kg

**DIMENSION (mm)**



**WIRING DIAGRAM**



### Performance:

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

- Compact design
- Clip fixing
- Long service life
- Maintenance free

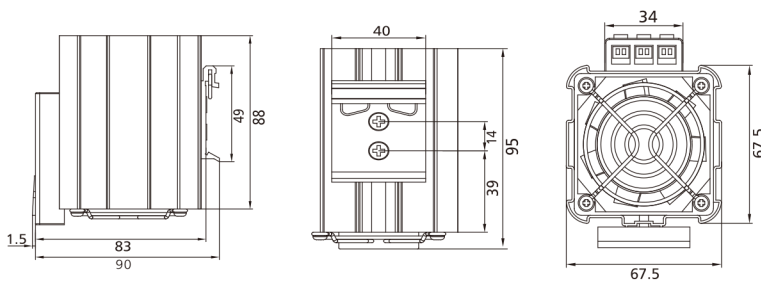


### SPECIFICATION

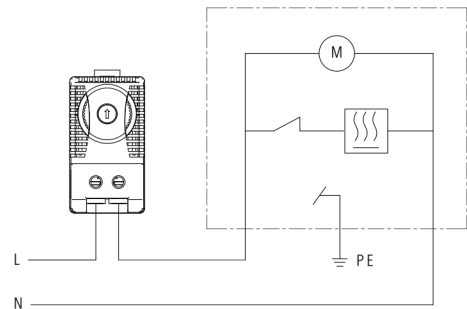
Model	LK143			
Rated output voltage (+5/-10%) at 10°C	150W	300W	400W	500W
Input voltage	220-240VAC			
Flat ratio	50-60Hz			
Maximum surface temperature (ambient temperature 25°C)	74°C			
Link method (cage connection)	Screw Type			
Operating/storage temperature	-40~70°C (RH < 20%)			
Air flow rate (zero static pressure)	30m³/hr (18 CFM)			
Weight	300g			
Protection level (en60529)	IP20			
	TBD	6.3A	6.3A	8TA
Installation method	35mm DIN rail clamp, see EN50022			

\*LK143 220-240V PTC resistor heating element with 60mm axial flow fan, cage crimping

### DIMENSION (mm)



### WIRING DIAGRAM





**Performance:**

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

- Compact design
- Long service life
- Maintenance free
- Built in high air flow axial fan
- PTC resistor, self regulating
- Guide rail installation, one card is closed

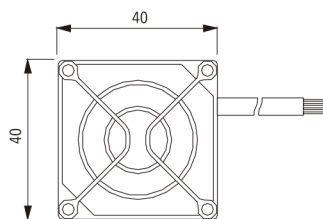


**SPECIFICATION**

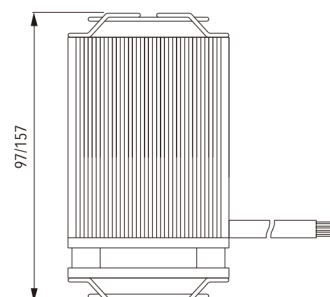
Feature	Unit	KHL120075.0-00	KHL120100.0-00	KHL120150.0-00	KHL120230.0-00	KHL120300.0-00
Heating capacity*	W	75	100	150	230	300
Voltage	V/Hz	110-250V AC/DC-Fan 24V AC/DC				
Maximum current	A	4	4	6	6	8
Heating element	-	PTC resistor, self regulating				
Radiator	-	Extruded aluminium profile, anodized				
	-	Ball bearing, service life 5.000 h at 25°C (77°F) Fair flow rate 11 m³/h, free flow				
Axial flow fan		Air flow rate 11 m³/h, free flow				Air flow rate 33 m³/h Free flow
Electrical connections	-	Silicone cable, 4x0.5m², length 400mm				
Protection level iec	-	Class I				
Protection level en60529	-	IP20				
Operating temperature	°C (°F)	-20~+70 (-4~+158)				
Storage temperature	°C (°F)	-25~+70 (-13~+158)				
Card slot installation	-	Clip for mounting on DIN rail 35mm EN50022				
Installation position	-	Best performance in vertical installation				
Size hxxxd	mm	97x40x40	97x40x40	132x40x40	142x40x40	157x40x40
Cable length	mm	400	400	400	400	400
Weight (packaging)	kg	0.20(0.21)	0.20(0.21)	0.26(0.28)	0.28(0.30)	0.40(0.42)
Certificate	-	CE				

\*Environmental temperature 20°C (68 °)

**DIMENSION (mm)**



**WIRING DIAGRAM**



The KTC3150 temperature controller is used to control heaters, fan filters, heat exchangers, etc.

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

### Performance

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

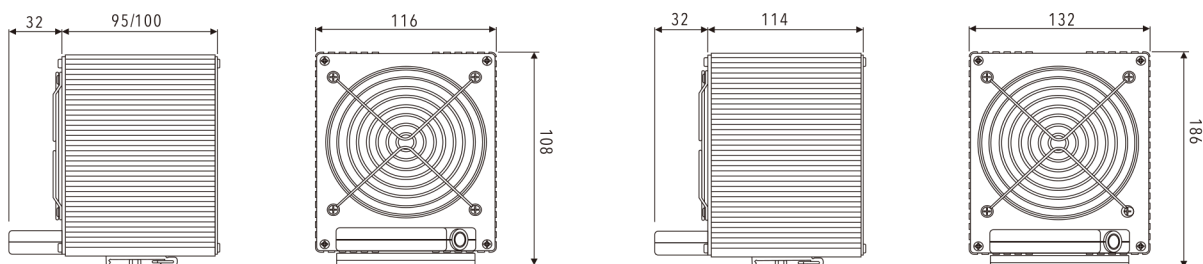


### SPECIFICATION

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: 35m <sup>3</sup> /h, dc: 54m <sup>2</sup> /h, service life: 50000h at 25°C (77°F)
Connection	5-pole screw connector 2.5mm <sup>2</sup>
Mounting	Clip for 35mm din rail, en 50022
Fitting position	Vertical
Operating temperature	-25~+70°C (-13~+158°F)
Storage temperature	-25~+70°C (-13~+158°F)
Protection class	IP20/1(earthed)

Model No.	Model No.	Heating capacity	Dimensions	Weight
230vac, 50/60Hz	115vac, 50/60Hz			
150.0-00	150.0-00	150W	108x116x127mm	0.6kg
200.0-00	200.0-00	200W	108x116x127mm	0.6kg
250.0-00	250.0-00	250W	108x116x127mm	0.6kg
300.0-00	300.0-00	300W	108x116x127mm	0.6kg
400.0-00	400.0-00	400W	108x116x127mm	0.6kg
650.0-00	650.0-00	650W	108x116x132mm	1.1kg
800.0-00	800.0-00	800W	168*132*146mm	1.5kg
1000.0-00	1000.0-00	1000W	168*132*146mm	1.5kg
1200.0-00	1200.0-00	1200W	168*132*146mm	1.5kg
1500.0-00	1500.0-00	1500W	168*132*146mm	1.5kg

### DIMENSION (mm)



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



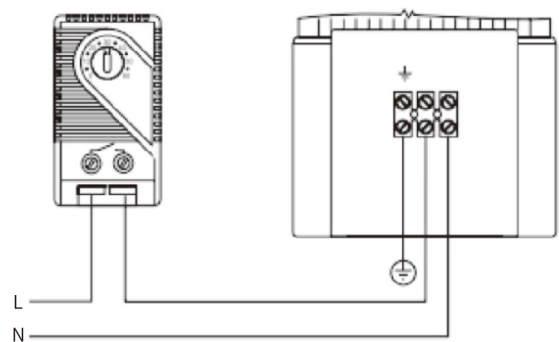
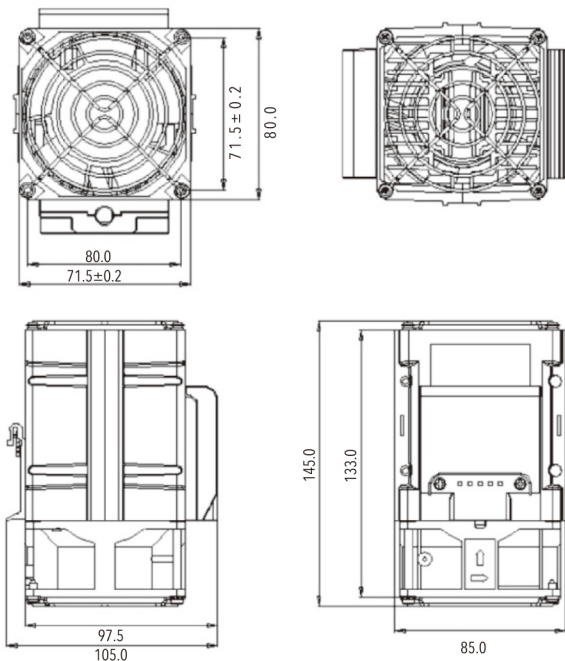
## SPECIFICATION

Model No.	KHP300 With Fan
Heating element	PTC
Input voltage, frequency, power	AC 230V 50/60Hz 300-350W
Insulating property	2000V/0.5mA/5s
Surface Temperature	60°C (at 30°C room temperature)
Axial fan, ball bearing	Air flow: AC: 24m <sup>3</sup> /h (50Hz) or 31m <sup>3</sup> /h (60Hz)
RPM	2400
Heater body	Aluminium alloy castings+PPS profile
Cooling method	Natural cooling
Connection Casing	Plastic according to UL94V-0, black
Mounting	Clip for 35mm DIN rail, EN50022
Fitting position	Vertical
Operating/Storage temperature	-4 ~ +70°C (-49 ~ +158°F)
Protection type/Protection class	IP20/I (grounded)
Mean life	50000h at 25°C (77°F)

Model No.	Rated operating voltage, frequency	Heating capacity
30005.0-00	230V AC, 50/60Hz	300W

## DIMENSION (mm)

## WIRING DIAGRAM



The product is composed of high-quality nickel-chromium alloy heat pipe, die-casting aluminum structure heat sink, high-performance axial fan, and temperature control switch. The electric heat pipe is placed in the center of the radiator body. The temperature control switch is near the electric heat pipe and hidden in the radiator body. The axial flow fan is close to the loose body.



### SPECIFICATION

LKHB 300	With fan
Heating element	High performance core
Input voltage, frequency, power	AC 230V 50/60HZ 300W
Insulating property	2000V/0.5mA/5s
Temperature safety cut-out	to protect against overheating in case of fan failure
Heating body	Die-cast aluminium (glass bead blasted)
Speed	2700Rpm
Mounting	Use M6 screws for fixation
Connection type	Plug terminal connection
Connect terminal press line range	Single wire: 0.08-4.0mm <sup>2</sup> (AWG 28-12)
Fitting position	Vertical
Operating/storage temperature	-40~+70°C (-49~+158°F)
Protection class	IP20/I (earthed)
Mean life	50000h at 25°C (77°F)
Cooling mode	Automatic cooling

### Connection Example

### WIRING DIAGRAM

