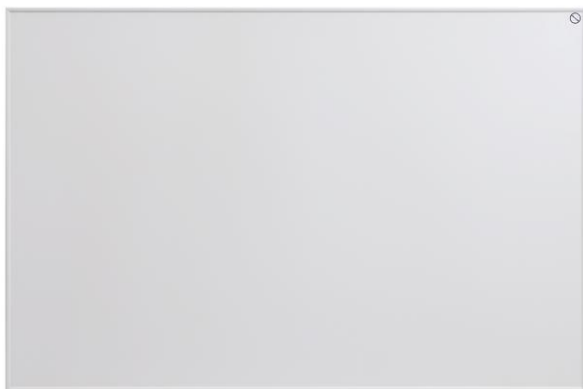


PANEL HEATER SP Quality Heating

INSTRUCTION MANUAL



SYMBOLS



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.

Symbols	Meaning
	This symbol located on the device indicates that it is prohibited to place objects (such as towels, clothes etc.) above or directly in front of the device. In order to avoid overheating and fire hazards, the device must not be covered.
	This symbol located on the device indicates dangers to the life and health of persons due to hot surface.
	This symbol located on the device indicates that it is prohibited to spray the device.
	This symbol located on the device and information marked indicates that operating manual must be observed.

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1 | WARNING & PRECAUTION

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use!

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury. Save all warnings and instructions for future reference.



Warning

Make sure the series you bought and install it in accordance to the tips in installation part!



Warning

Do not ceiling mount those devices designed for wall only!
Or else it may cause burning, fire and falling off risk!



Warning

The ambient temperature when using this device shall not exceed 30 degree.

Do not cover the surface of the device or block air vents.

Failure to follow these instructions may trigger the manual reset thermal cutoff, causing the device to stop heating!



Warning

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



Warning

Children of less than 3 years should be kept away unless continuously supervised.

Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.



Warning

Do not use the device in small rooms if persons are present who cannot leave the room independently and who are not under constant supervision.



Warning

Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present. Its dangerous of installation close to curtains and other combustible materials. To avoid the possibility of burns, the following people should be much more careful when using the heaters: infants and kids, people with sensitive skin, the old, the sick, people who is drunk, people who takes sleeping pills.

- Remove the protective film(on the front) before using.
- Be sure the input voltage is between 220-240V, 50Hz, and power supply has been strictly in accordance with IEC, left is null wire and right is live wire, and also well grounded.
- The devices will draw more current than small appliances, so a separate 10A+ socket is required.
- Do not use the device in potentially explosive rooms.
- Do not use the device in aggressive atmosphere.
- Set the device up in an upright and stable position.
- Let the device dry out after a wet clean. Do not operate it when wet.
- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Never insert any objects or limbs into the device.
- Do not cover or transport the device during operation.
- Do not sit on the device.
- This appliance is not a toy! Keep away from children and animals. Do not leave the device unattended during operation.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The electrical connection must correspond to locally relevant Electricity and Wiring Regulations.
- In order to avoid a hazard due to inadvertent resetting of the thermal cut-out this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is

regularly switched on and off by the utility.

- Insert the mains plug into a properly secured mains socket.
- Do not use the device when the socket or wire overloaded.
- Observe the device's power input, cable length and intended use when selecting extensions to the power cable. Completely unroll extension cables. Avoid electrical overload.
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket. Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly Qualified persons in order to avoid a hazard. Defective power cables pose a serious health risk.
- During the installation of the device observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the related chapter.
- Never drill into the heating device.
- Do not use the device in immediate proximity to curtains.
- Do not place the device on combustible ground.
- Do not transport the device during operation.
- Do not touch the surface during the device working to avoid burns.
- Allow the device to cool down before transport and / or maintenance work.
- Do not use this device near bathtubs, shower trays, swimming pools or other water containers. Risk of electric shock!

- The device must be placed where the switches and controllers cannot be touched by a person in a bathtub or shower.
- Do not use this device in a child-care centre and bathroom.(Only for Sweden)
- Wall mounted panels must be higher than 0.6meters.

2 | FEATURES

- The device is designed to provide an efficient, comfortable and healthy heating system for any domestic users.
- These devices can reduce air circulation and help to maintain a clean, silent, dust free environment.
- A wide range of devices available in a huge choice of colors, sizes and styles.

3 | TECHNICAL INFORMATION

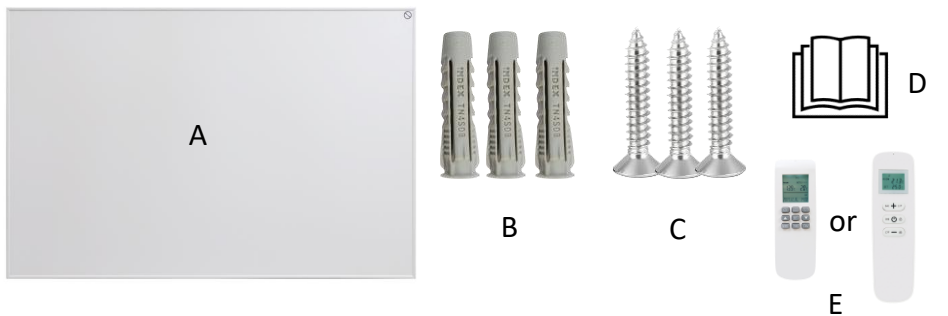
SHL series

Heating element	Carbon
Heating way	Far infrared heating
Input Voltage	220-240V/50Hz
Surface temperature	Mainly 90-110℃
Frame	Aluminum
IP grade	IP20 (exclude plug)
Over heating protection	Manual-reset thermal cutoff
Power cord length	1.9m

Model NO.	Size(mm)	Power (W)
IGT*-5HL0603x	603*303*45	170

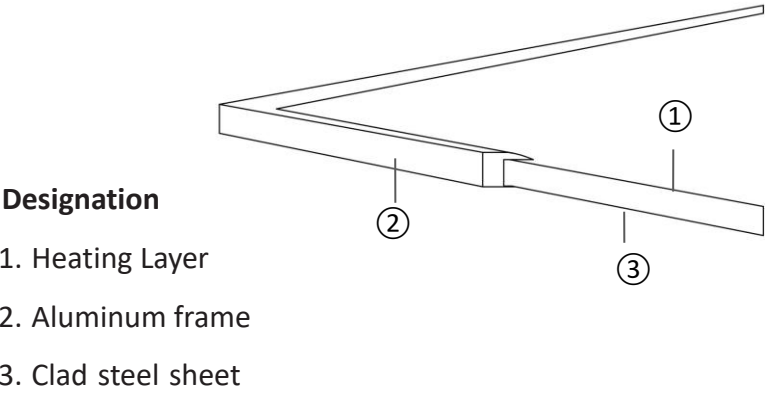
IGT*-5HL0603x-1	603*303*45	200
IGT*-5HL0605x-2	603*503*45	350
IGT*-5HL0605x	603*503*45	300
IGT*-5HL0605x-1	603*503*45	290
IGT*-5HL0606x	603*603*45	450
IGT*-5HL0606x-1/2	603*603*45	350
IGT*-5HL0706x-2	703*603*45	500
IGT*-5HL0706x-1	703*603*45	400
IGT*-5HL0806x-1	803*603*45	600
IGT*-5HL0906x-2	903*603*45	700
IGT*-5HL0906x-1	903*603*45	520
IGT*-5HL1006x-3	1003*603*45	750
IGT*-5HL1006x-1	1003*603*45	800
IGT*-5HL1206x-1	1203*603*45	900
IGT*-5HL1206x	1203*603*45	700
IGT*-5HL1207x-1	1203*753*45	850
IGT*-5HL1209x-1	1203*903*45	1050
IGT*-5HL10072x	1003*723*45	1000
IGT*-5HL1008x	1003*803*45	800
IGT*-5HL1010x	1003*1003*45	1000
IGT*-5HL12085x	1203*853*45	1300
I=built-in temperature control; *=1/2(1=Remote thermostat; 2= WIFI and remote thermostat); X=P/null(P=PET surface, null=sprayed surface)		

4 | SCOPE OF SUPPLY



(A) Heating Device x 1	(B) Gray Dowels x 3
(C) Self-tapping Screws x 3	(D) Manual x 1
(E) Thermostat x 1(optional)	

5 | DEVICE STRUCTURE



6 | INSTALLATION

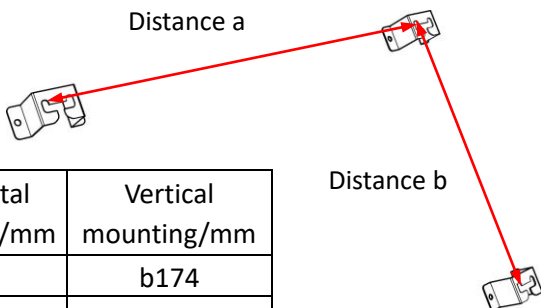
Make sure remove the protective film(on the front)!

- 1. Choose the mounting position, keep the required minimum distances.

Distances required for device mounting	
front	Minimum 30cm
left	Minimum 10cm
right	Minimum 10cm
top	Minimum 50cm

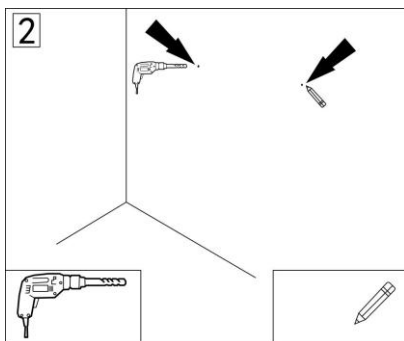
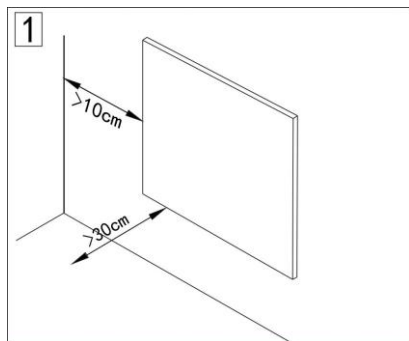
2. Measure and mark the correct distances "a" or "b" on the wall where you want to install. Drill two 8mm holes at the marked positions.

Note: The device supports both horizontal and vertical suspension. For horizontal suspension, refer to distance a; for vertical suspension, refer to distance b.



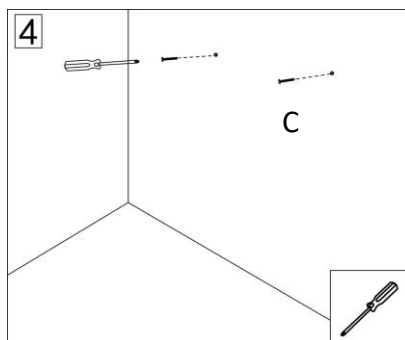
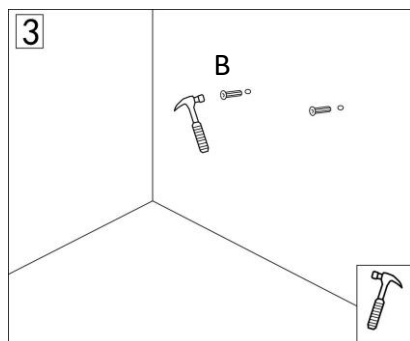
Panel Size/mm	Horizontal mounting/mm	Vertical mounting/mm
603*303	a310	b174
603*503	a310	b320
603*603	a310	b420
703*603	a360	b420
803*603	a480	b420
903*603	a480	b420
1003*603	a480	b420
1003*723	a480	b540
1003*803	a480	b710
1003*1003	a480	b820
1203*303	a660	b174
1203*603	a660	b420
1203*753	a660	b570
1203*803	a660	b620
1203*853	a660	b670

1203*903	a660	b720
1203*1003	a660	b820

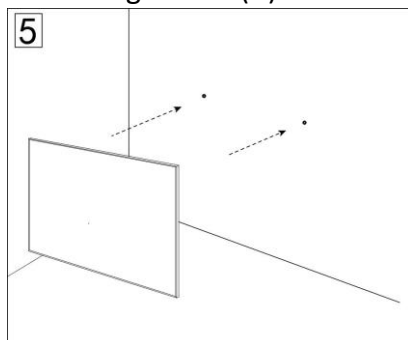


3. Insert the gray dowels(B) into the holes by a hammer.

4. Insert the Self-tapping Screws(C) into the dowels and fasten the screws. The screws should protrude approx.1.5 cm from the dowels.

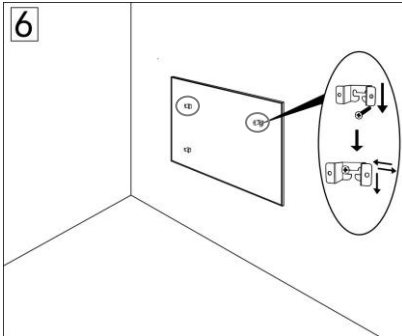


5. Move the infrared heating device (A) close to the wall.

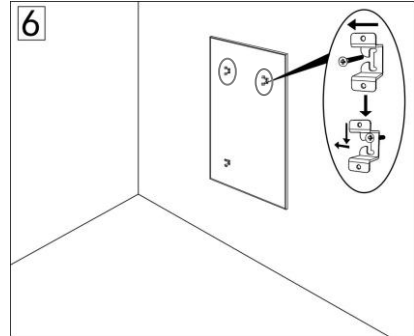


6. **Horizontal mounting:** Move the device downward so that the screws enter the openings on the back bracket, then slide the device horizontally to secure the screws in place, as shown in the diagram below.

Vertical mounting: Move the device to the left so that the screws enter the openings on the back bracket, then lower the device, and finally push it slightly to the left again to secure the screws in place, as shown in the diagram.

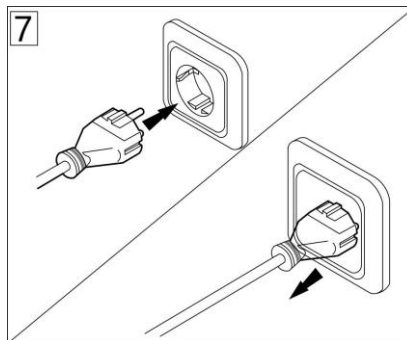


(Horizontal)



(Vertical)

7. Plug in to start using the heating device.
Do pull out the plug when not in use.



7 | OPERATION INSTRUCTIONS(additional instructions)

Depending on your order, you will receive the operating instructions that match the product you purchased.

Mode A	Control the device with a built-in remote thermostat	
Mode B	Control the device with a built-in WIFI and remote thermostat	

Please check more details in the additional page.

8 | TROUBLESHOOTING

Problem	Reason	Measure
The heating function stops, but all other functions remain unaffected and continue to operate normally.	The manual reset thermal cutoff was triggered (automatically shuts off power when the internal temperature exceeds the cutoff temperature). It may have been triggered due to one of the following reasons: a) Overheating - Poor ventilation, blocked air vents, or covered heater. b) High ambient temperature - Used to an environment exceeding 30°C. c) Power supply issue - Voltage fluctuation may cause abnormal operation.	1) Unplug the power cord immediately. 2) Wait at least 10 minutes for the heater to cool down. 3) Check and resolve the root cause: - Ensure power supply is stable; - Check and remove any obstructions blocking airflow; - Do not set the thermostat above 30°C to prevent overheating; 4) Plug in again - The heater should resume normal operation. Note: If the heater does not restart, ensure it has

		cooled for at least 10 minutes before reconnecting power.
It has noise when original charged with electricity.	Due to the structure stress of the heat insulator.	It is a normal phenomenon. Don't worry about it.
The surface of the device was slightly raised.	Due to the thermal expansion of the surface material.	It is a normal phenomenon. Don't worry about it.
The surface of the heating device is slightly warm.	1. The voltage is low. 2. In a low-temperature environment.	1. Install a voltage regulator. 2. It is normal.

9 | MAINTENANCE & SERVICING

Activities required before starting maintenance



Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Allow the device to cool down completely.



Warning of electrical voltage

Tasks which require the housing to be opened must only be carried out by authorized specialist companies.

Cleaning the device



Warning of electrical voltage

Never immerse the device in water!

Clean the device with a soft, damp and lint-free cloth. Ensure that no moisture enters the housing. Protect electrical

components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

Wipe the housing dry after cleaning

10 | STORAGE

When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- in an upright position where it is protected from dust and direct sunlight
- with a cover to protect it from invasive dust, if necessary
- Place no further devices or objects on top of the device to prevent it from being damaged.

11 | TECHNICAL ANNEX

This electrical local space heaters has different control types to choose from, and different control types have different information requirements.

Information requirements for models with remote thermostat

Model	Nominal heat output/ (Pnom)/ (KW)	Minimal heat output(in dicative)/ (Pmin)/ (KW)	Maximum continuous heat output/ (Pmax.c)/ (KW)	At nominal heat output/ (elmax)/ (KW)	At nominal heat output/ (elmax)/ (KW)
IGT1-5HL0603x-1	0.2	0.2	0.2	N/A	N/A
IGT1-5HL0603x	0.17	0.17	0.17	N/A	N/A
IGT1-5HL0605x-2	0.35	0.35	0.35	N/A	N/A

IGT1-5HL0605x-1	0.29	0.29	0.29	N/A	N/A
IGT1-5HL0605x	0.3	0.3	0.3	N/A	N/A
IGT1-5HL0606x	0.45	0.45	0.45	N/A	N/A
IGT1-5HL0606x-1/2	0.35	0.35	0.35	N/A	N/A
IGT1-5HL0706x-2	0.5	0.5	0.5	N/A	N/A
IGT1-5HL0706x-1	0.4	0.4	0.4	N/A	N/A
IGT1-5HL0806x-1	0.6	0.6	0.6	N/A	N/A
IGT1-5HL0906x-2	0.7	0.7	0.7	N/A	N/A
IGT1-5HL0906x-1	0.52	0.52	0.52	N/A	N/A
IGT1-5HL1006x-3	0.75	0.75	0.75	N/A	N/A
IGT1-5HL1006x-1	0.8	0.8	0.8	N/A	N/A
IGT1-5HL1206x-1	0.9	0.9	0.9	N/A	N/A
IGT1-5HL1206x	0.7	0.7	0.7	N/A	N/A
IGT1-5HL1207x-1	0.85	0.85	0.85	N/A	N/A
IGT1-5HL10072x-1	1	1	1	N/A	N/A
IGT1-5HL1008x	0.8	0.8	0.8	N/A	N/A
IGT1-5HL1010x	1	1	1	N/A	N/A
IGT1-5HL12085x	1.3	1.3	1.3	N/A	N/A

Item	Unit
Type of heat output/room temperature control (select one)	
single stage heat output and no room temperature control	[no]
Two or more manual stages, no room temperature control	[no]
with mechanic thermostat room temperature control	[no]
with electronic room temperature control	[no]
electronic room temperature control plus day timer	[no]
electronic room temperature control plus week timer	[yes]
Other control options (multiple selections possible)	
room temperature control, with presence detection	[no]
room temperature control, with open window detection	[yes]

with distance control option	[no]
with adaptive start control	[no]
with working time limitation	[yes]
with black bulb sensor	[no]
self-learning functionality	[no]
control accuracy	[no]

Information requirements for models with wifi thermostat

Model	Nominal heat output/ (P _{nom}) / (KW)	Minimal heat output(in dicative)/ (P _{min})/ (KW)	Maximum continuou s heat output/ (P _{max.c})/ (KW)	At nominal heat output/ (el _{max})/ (KW)	At nominal heat output/ (el _{max})/ (KW)
IGT2-5HL0603x-1	0.2	0.2	0.2	N/A	N/A
IGT2-5HL0603x	0.17	0.17	0.17	N/A	N/A
IGT2-5HL0605x-2	0.35	0.35	0.35	N/A	N/A
IGT2-5HL0605x	0.3	0.3	0.3	N/A	N/A
IGT2-5HL0605x-1	0.29	0.29	0.29	N/A	N/A
IGT2-5HL0606x	0.45	0.45	0.45	N/A	N/A
IGT2-5HL0606x-1/2	0.35	0.35	0.35	N/A	N/A
IGT2-5HL0706x-2	0.5	0.5	0.5	N/A	N/A
IGT2-5HL0706x-1	0.4	0.4	0.4	N/A	N/A
IGT2-5HL0806x-1	0.6	0.6	0.6	N/A	N/A
IGT2-5HL0906x-2	0.7	0.7	0.7	N/A	N/A
IGT2-5HL0906x-1	0.52	0.52	0.52	N/A	N/A
IGT2-5HL1006x-3	0.75	0.75	0.75	N/A	N/A
IGT2-5HL1006x-1	0.8	0.8	0.8	N/A	N/A
IGT2-5HL1206x-1	0.9	0.9	0.9	N/A	N/A

IGT2-5HL1206x	0.7	0.7	0.7	N/A	N/A
IGT2-5HL1207x-1	0.85	0.85	0.85	N/A	N/A
IGT2-5HL10072x	1	1	1	N/A	N/A
IGT2-5HL1008x	0.8	0.8	0.8	N/A	N/A
IGT2-5HL1010x	1	1	1	N/A	N/A
IGT2-5HL12085x	1.3	1.3	1.3	N/A	N/A

Item	Unit
Type of heat output/room temperature control (select one)	
single stage heat output and no room temperature control	[no]
Two or more manual stages, no room temperature control	[no]
with mechanic thermostat room temperature control	[no]
with electronic room temperature control	[no]
electronic room temperature control plus day timer	[no]
electronic room temperature control plus week timer	[yes]
Other control options (multiple selections possible)	
room temperature control, with presence detection	[no]
room temperature control, with open window detection	[no]
with distance control option	[yes]
with adaptive start control	[no]
with working time limitation	[yes]
with black bulb sensor	[no]
self-learning functionality	[no]
control accuracy	[no]



The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.