INSTRUCTION MANUAL

line condensing halogen line heater Series Model:LHW- 55/f25/L280/H18/200V-5kW

Thank you very much for purchasing our company's Power Supply for Halogen Spot Heater. Please be sure to read this manual prior to the usage in order to use this product safely.

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Halogen line heater unit specifications

1 . Introduction Thank you for choosing a halogen line heater unit. Please read and observe the following items carefully to ensure safe use.

2 . Model LHW-55/f 25/L280/H18/200V-5kW

•		5/L280/H18/			-			
3 . Specifi			it specifications Irradiation distance	Irradiation width	cooling method	Cooling water flow rate	Body material	mass
	280mm				water cooling	_		
367mm Mass ex		55mm	25mm glass and bracket we	$8 \sim 9$ mm	and air cooling	2.5 ~ 5L/min(Indication)	Aluminum	2.4kg
WIASS CA		a lamp speci	-	ignt.				
ating an		1 1		Avera	ge life	Power tolerance	Maximum ter	nnerature
ating and capacityColor temperature200V-5000W3100k			mate500h	±8%	1000 ~ 1200			
		es depending	g on the usage condi					
extended The mai 4 . How to Power s Use a po Connect If you ha output te Installat	d more than t ximum temper o use supply wer supply w the heater lea ve our contro erminal below tion	wice the indi- erature is mea- with a slow sta ad wire to the ol power supp of the AC lam	or more from the rat icated average life. asured under our spe art function.] If an power terminal. (T oly HLC-HN / 10, co p display on the rear beside the cooling v	ecific conditions inrush current fl he lamp rating ponnect it to the N panel.	s. ows, it may sho is AC200V) M5			
install it s Cooling Connect Use pure Please us	to that it matc g (water cool a water flow water or PH se so that the	thes the irrad ling of the m v tube to the 5-8 water for temperature	iation distance. irror body and air c Φ6 fitting and che c the quality of the co of the cooling water mended for continu	cooling of the ck that the coo poling water. can be maintair	lamp end) ling water is flo			
There is a of each t Supply 7 Lamp re	o not use the p a joint that al erminal box to 10 L / min eplacement P3-P4 haloge	broduct for a lows piping o is passed. n of air here. (Note) en lamp, repla	long time, drain the	water from the Φ 4 tube beside	the hole throug	ay cause impurities and cl h which the power line		
0 0	g / maintenan			alaan hafana (ha	1			
			r protection glass is oth soaked in water-		-			
-			g the applied voltag		•			
0	•	• •	0 11 0		trol method inst	tead of the ON / OFF co	ontrol.	
			tage, the lamp life v					
	he lamp with					prolong the lamp life.		
The halo			gets hot, so cool it w	ell while it is live	t or after it is tur	med off.		
			ed to the power suj	oply is the same	e as the lamp vo	oltage.		
6 . Warrar			_		_			
If a defe	ct due to mar	ufacturing o	ccurs within one yea	r after delivery,	we will repair of	or replace it free of cha	rge.	
However	r, products m	anufactured	using line heaters at	your company a	and those caused	d by the following are e	excluded.	
	-		modification or una	-				
	-	-	, dropping, transport					
	-		thquake, flood, light	ning, other natu	iral disasters, po	ollution,		
	nal voltage, o							
D 1	ement of cons	sumable parts	s (lamp, mirror prote	ction glass, etc.)			

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[Safety precautions]

Since halogen light is hot, do not irradiate the human body with halogen light. (Cause of burns)

Do not bring close to or cover flammable materials such as paper or cloth. (Cause of fire)

- Be sure to turn off the power when installing, removing, or cleaning the equipment (lamp house). (Cause of electric shock)
- 'The lamp is a glass product, so be careful not to damage it. (Cause of injury)
- Since the pressure inside the lamp is high, do not apply vibration or impact, or apply excessive force. (Cause of damage or injury)
- Do not touch the glass part of the lamp with bare hands. It may break due to dirt on the grease. (Damage, cause of injury)
- Do not touch it with bare hands during irradiation or immediately after extinguishing the light. (Cause of burns)
- Do not change the structure of the device. (Causes of failure, electric shock, smoke, fire, etc.)
- 'When connecting the wires, make sure that they are not loose or disconnected.
- (Causes of electric leakage, electric shock, fire, etc.)
- Be careful not to scratch the wire or insulation processing part with a blade. (Failure, cause of electric shock)

<u>∧</u> Note

- This device is for indoor use only and cannot be used outdoors. (Causes of electric leakage, electric shock, fire, etc.)
- Do not use in corrosive atmospheres or dusty places. (Cause of performance degradation)
- Do not touch the glass part of the lamp with bare hands. If it is lit while dirty, it may be devitrified. (Cause of damage and short life)
- Do not use the product where it is exposed to water drops or high humidity. (Cause of damage)
- Do not use in flammable atmospheres such as thinner. (Causes of fire and explosion)
- Do not touch the lamp or light bulb while it is lit or immediately after it is turned off. (Cause of burns)
- Do not stare at the lamp that is lit up for a long time. (Causes of eye pain and visual impairment)
- We recommend that you replace the lamp after the rated life has passed. (Rarely cause of damage)
- Do not use this product on the mirror or lamp that may become dirty during heating.
- However, in the case with mirror protection glass, it can be handled by regularly cleaning and
- replacing the mirror protection glass. (Cause of damage or performance degradation)
- Do not energize when cooling water is not flowing. (Causes of burns, fire and damage due to heat generation)
- ·Use cables and cables in a slacked state and do not pull them.
- (Causes of accidents such as heat generation due to disconnection or poor contact)
- Be careful not to damage the wire with a knife. (Causes of wire breakage)
- · If not used for a long time, please energize regularly.(Causes of electrical fire due to poor insulation due to moisture)

[Precautions for use]

- \cdot Use this device in the ambient temperature range of 0 to 40 $^\circ$ C.
- · Do not apply shock or vibration to the lamp, especially during lighting.
- ·Check the inside of the lamp regularly according to the instruction manual.
- ·Use at rated voltage or lower.
- Be sure to insert a fuse in the power circuit. When the heater is disconnected, a large current may flow.
- If a heater is installed in a place that is affected by heat, such as radiation, protect it with a shielding plate.

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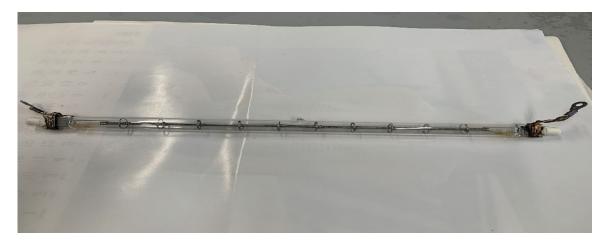
Halogen lamp replacement procedure

Precautions before replacing the halogen lamp

- · Do not hold the lamp glass with bare hands.
- · Work with gloves. (Gloves such as cotton smooth are recommended)
- · Halogen lamp glass may be damaged if it is touched or scratched.
- When replacing the lamp, be careful not to hit the lamp through hole in the mirror body.

• Immediately after the lamp is turned off, the line heater unit body, halogen lamp and mirror protection glass are hot. Please be sure to replace the mirror unit or halogen lamp after confirming that it is cooled.

- Replaced halogen lamps do not have + or polarity. (Photo of halogen lamp appearance below)
- When replacing the lamp, place the mirror body on a horizontal base and follow the procedure below.



Halogen lamp replacement procedure

Turn off the power. Stop the cooling water. Remove the line heater unit from the installed device.

Remove the cooling water hose. A suitable amount of air is sent to the $\phi 6$ fitting on the line heater unit.

Remove the water remaining inside. * Be careful not to get the line heater unit wet with water.

Place it on a horizontal table where the lamp will be replaced.

Remove the left and right terminal box covers. The terminal box is screwed in one place with M4 x 6 screws.

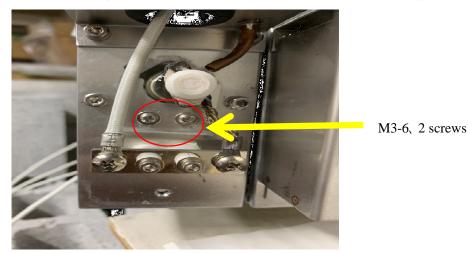


Terminal BOX appearance photo

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The terminal BOX cover is removed as shown in the photo below.

·Loosen the fixing plate screws (M3-6x2) that secure the left and right lamps so that the lamps come out.



Terminal BOX internal halogen lamp wiring

Loosen the M4-8 screws connecting the lamp wiring and remove the wiring.

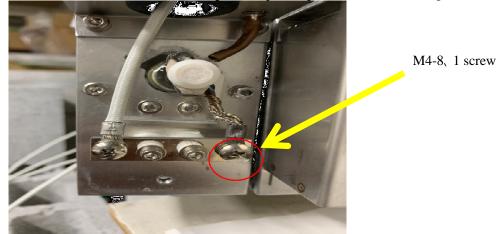
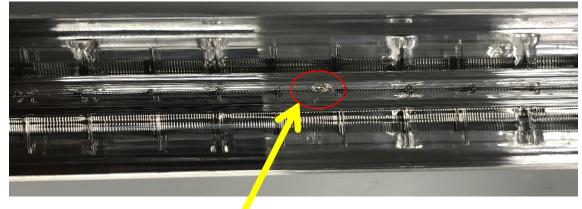


Photo of the halogen lamp wiring in the terminal box

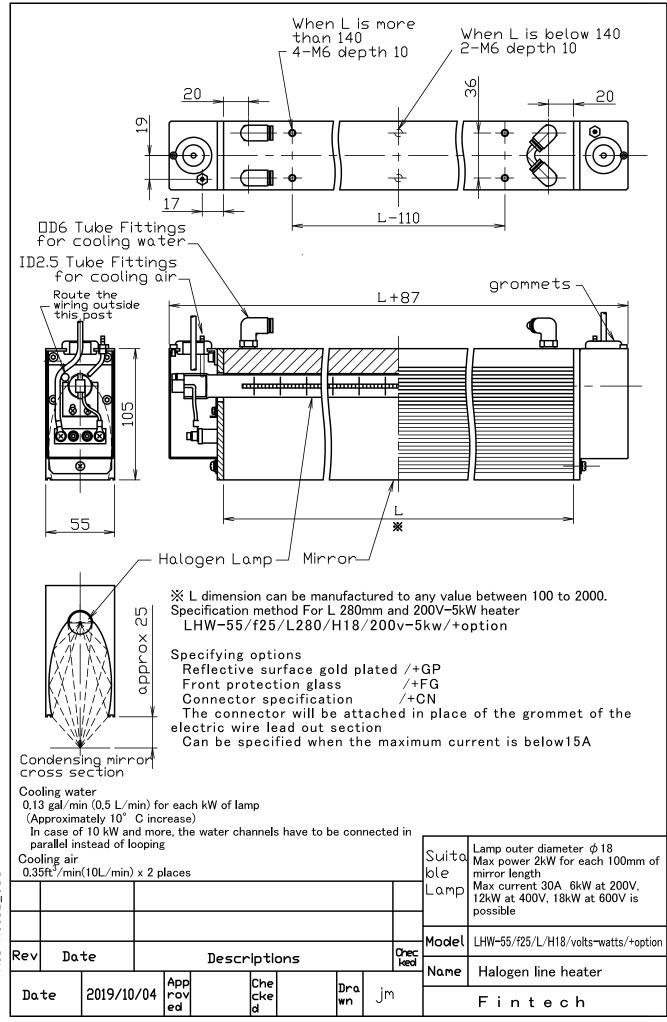
When replacing with a used lamp or a new lamp, remove the lamp from the mirror side hole or lamp fixing plate. Please be careful not to hit or scratch it.

When passing a halogen lamp through the hole in the mirror body, the lead wiring part with a round terminal will be twisted. It is easier to replace if it is straightened so that there is no.

Also, make sure that the protrusion at the center of the lamp glass faces the light irradiation area before screwing the lamp wiring.



Mirror inside halogen lamp glass part protruding part After inserting the lamp, replace the lamp according to the reverse procedure of Fintech Co., Ltd.



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