

Carbon Line Heater

CFLH series



Heat-tech

3th edition

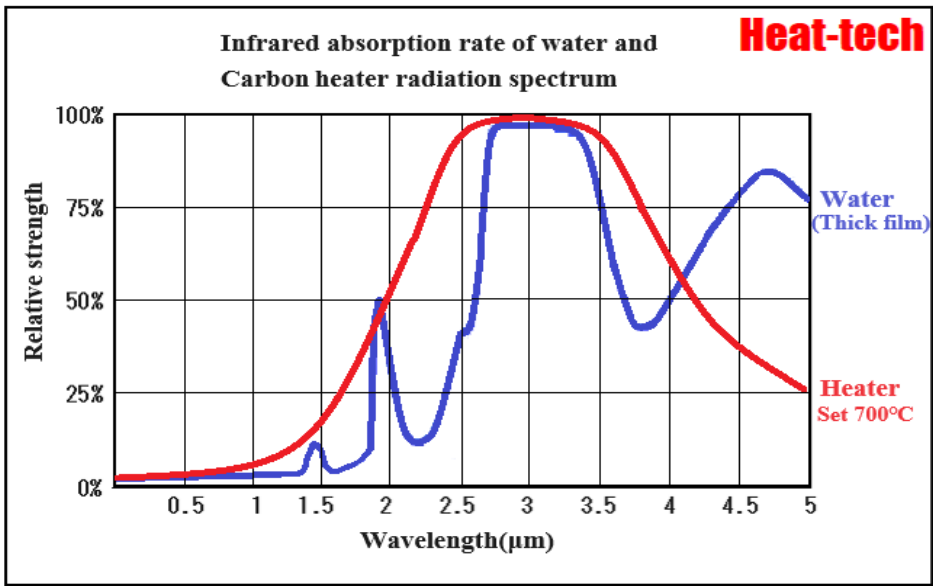
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1.Features of CFLH series

1.Emits mid-infrared rays close to the absorption wavelength of water

When the heating element temperature is set to 700° C, the peak wavelength of the radiant energy is approximately 3 μ m, making it ideal for heating water droplets, aqueous solutions, and other hydrated compounds.

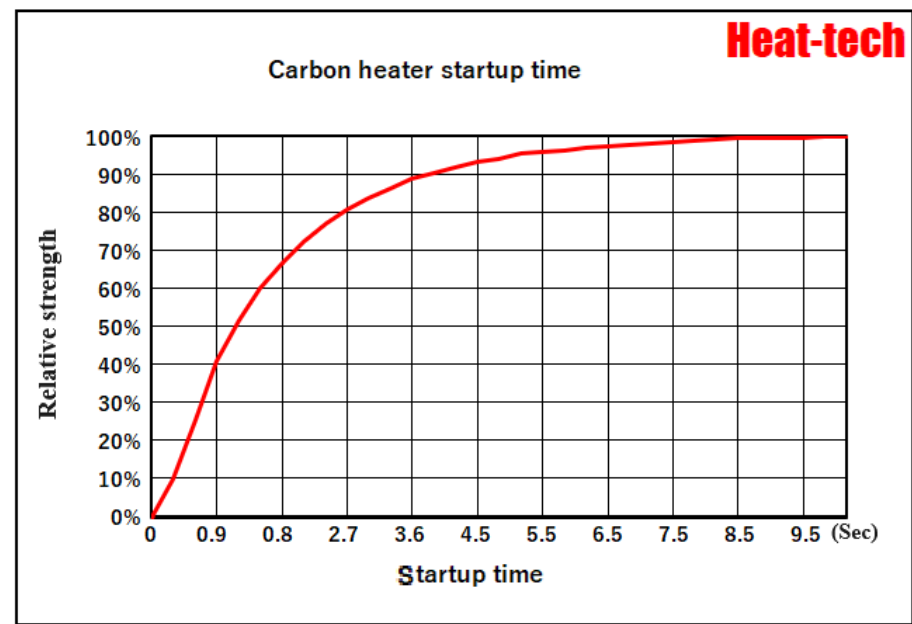


2. Ideal for resin heating

Since it is a carbon fiber heating element derived from a polymer compound, it is good at heating resin.

3. Quick start-up

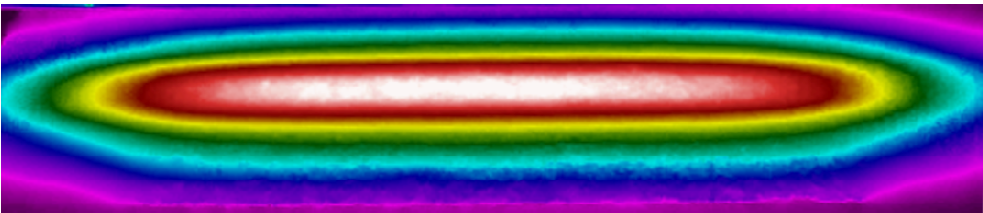
Reaching 80% in just 2.7 second and 100% in 8.5 seconds.



4. Free heating direction

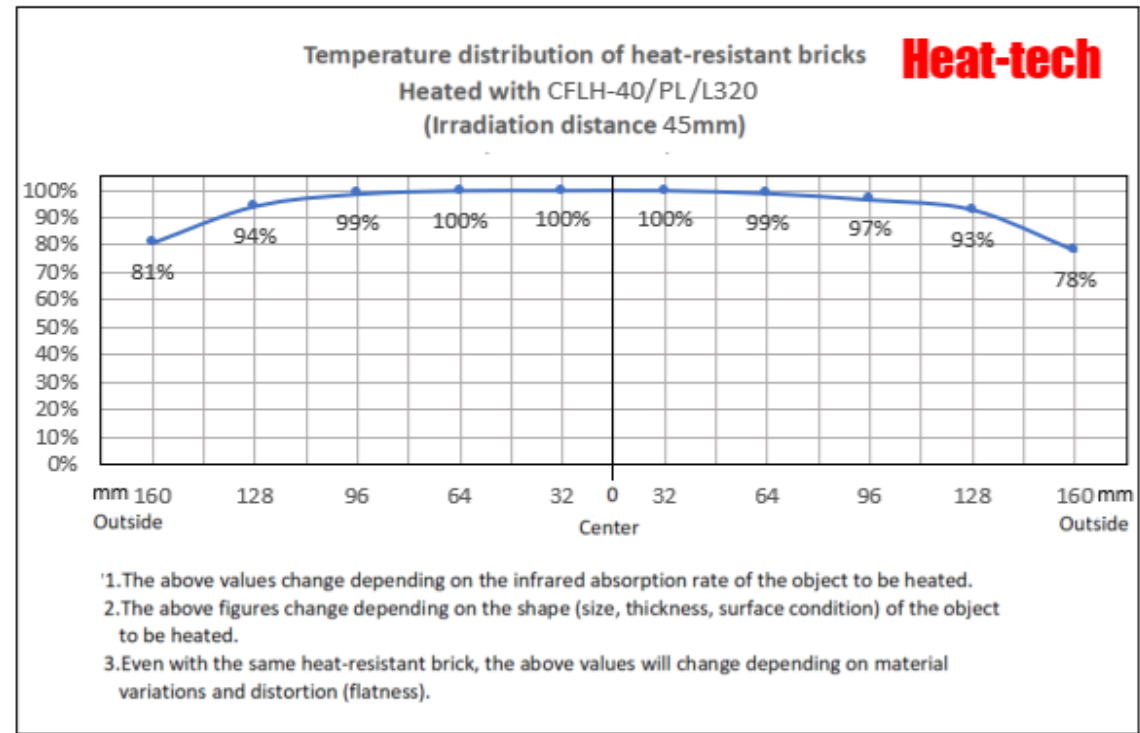
The heating element itself is lightweight and can be lit in any direction, vertically, horizontally or diagonally. Moreover, it has excellent impact resistance.

2. Temperature distribution of CFLH series



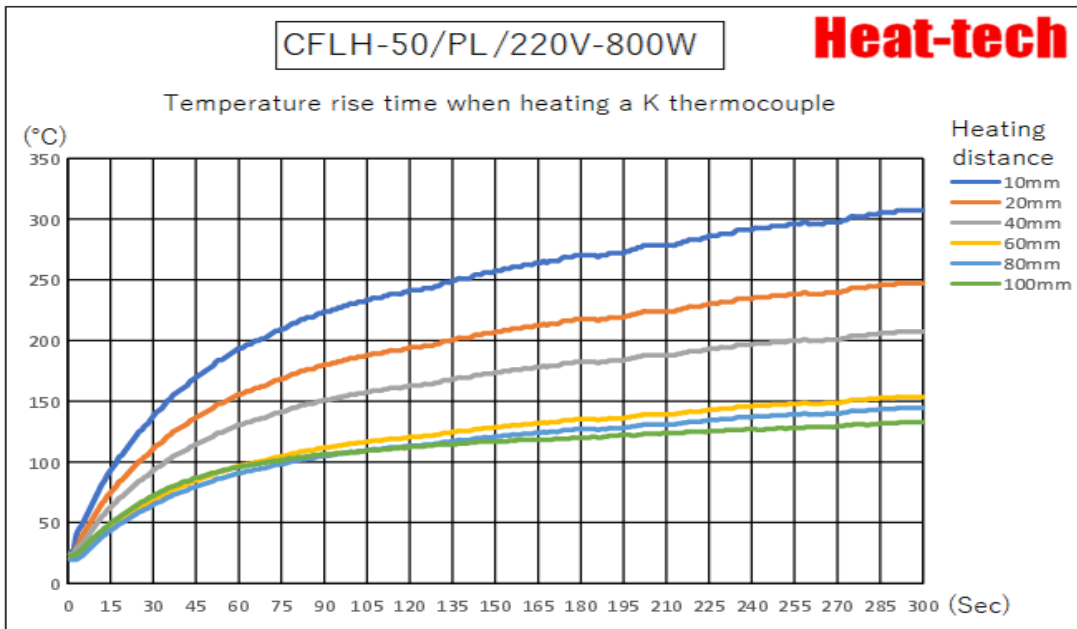
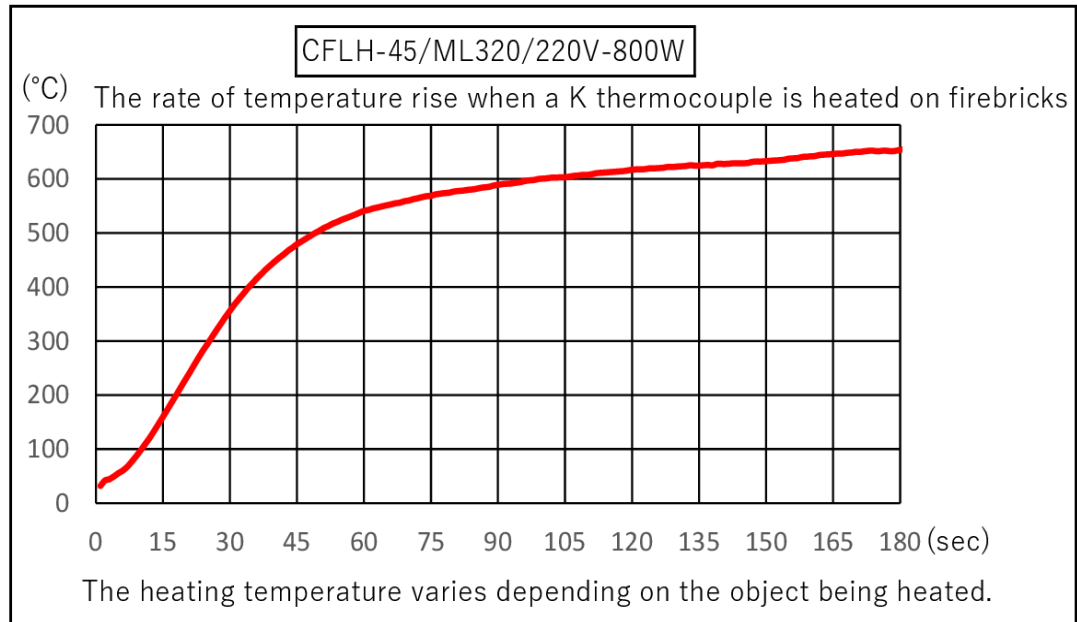
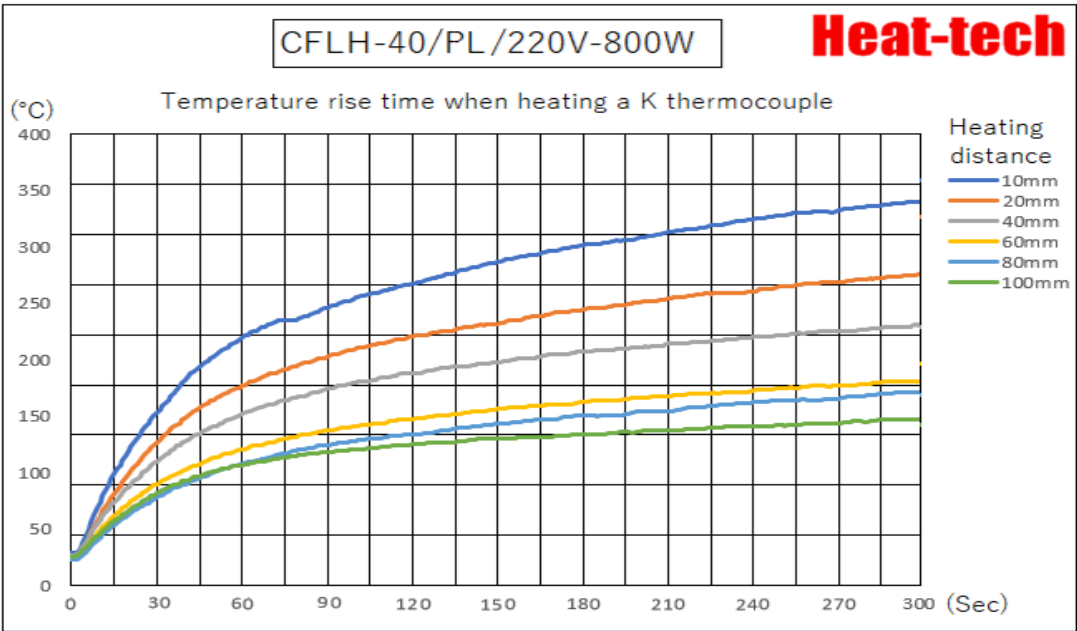
This is a thermal image of heat-resistant brick irradiated from a distance of 45 mm.

The thermal image is divided into 10 by the condenser mirror range (320mmx40mm) of the halogen line heater CFLH series, Divide the maximum temperature of each divided range by the maximum temperature of the entire range to quantify the temperature distribution of the heat-resistant bricks.



Since the incident heat is dissipated to the outside, the temperature decreases toward the outside.

3. Temperature rising time of CFLH series



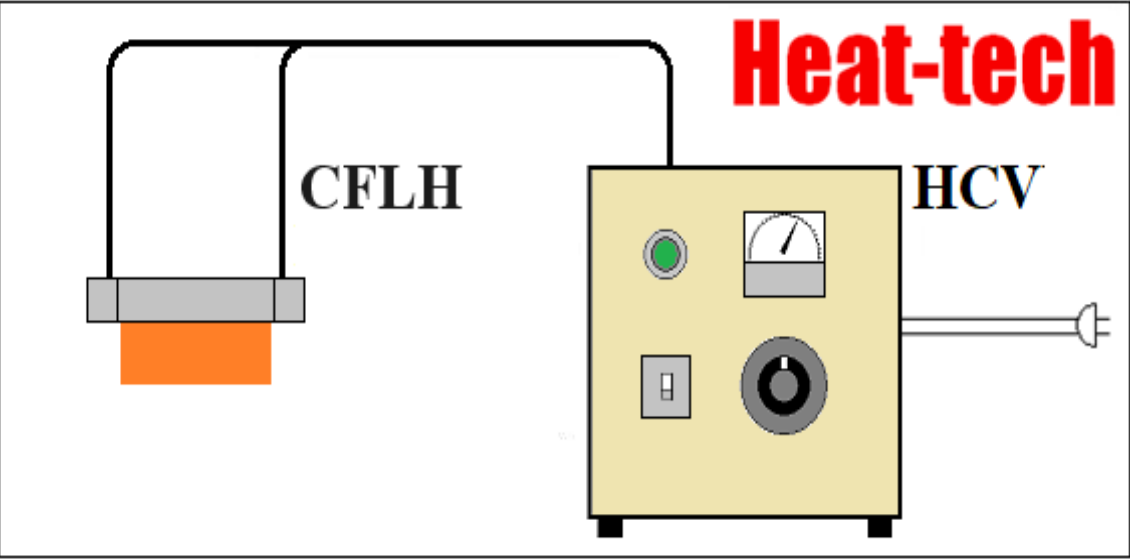
【Please note】

In infrared heating, the heating temperature changes depending on the infrared absorption rate of the object.

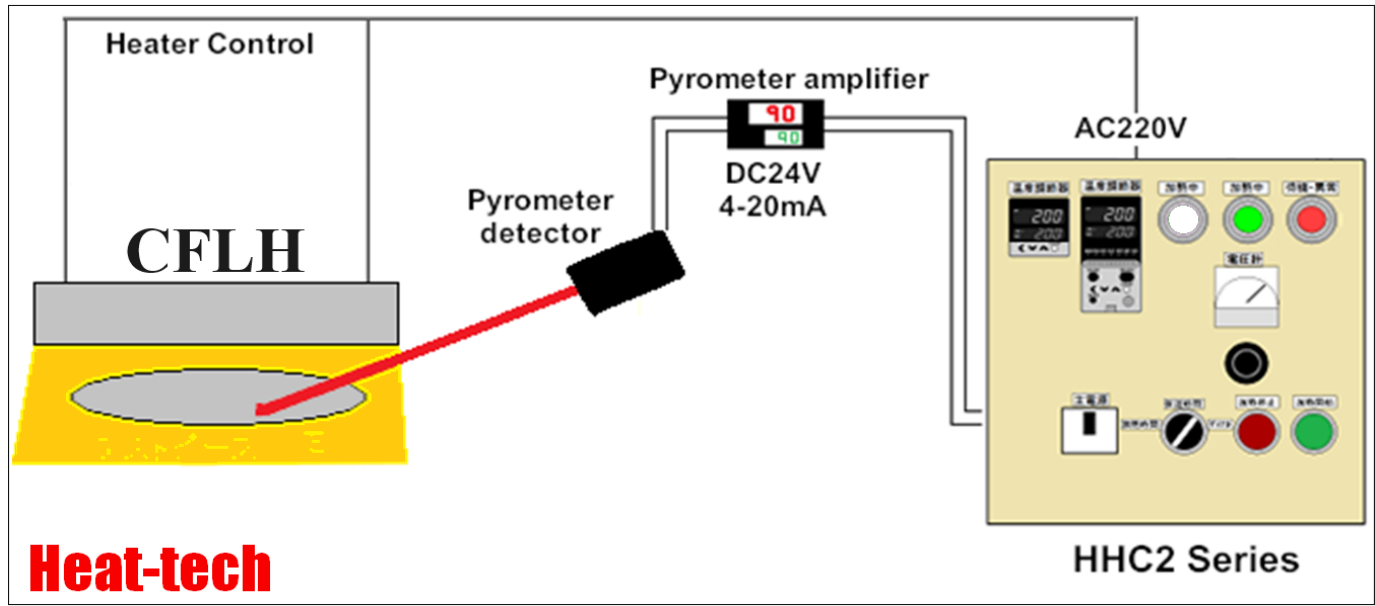
The closer the heating distance, the higher the temperature.

The longer the heating time, the higher the temperature.

4. Manual control → HCV series



5. Automatic temperature control → HHC2 series



6.Configuration of CFLH series

Heater Design Number	Mirror Length	Volts-Watts	Design Life
CFLH-40/PL/ML100/110V-300W	100mm	110V-300W	7500h
CFLH-40/PL/ML120/220V-400W	120mm	220V-400W	7500h
CFLH-40/PL/ML240/220V-800W	240mm	220V-800W	7500h
CFLH-40/PL/ML320/220V-800W	320mm	220V-800W	7500h
CFLH-40/PL/ML475/220V-1500W	475mm	220V-1500W	7500h

Spare Lamp Design Number	Mirror Length	Volts-Watts	Design Life
CFLH-40/ML100/110V-300W	110mm	110V-300W	7500h
CFLH-40/ML120/220V-400W	120mm	220V-400W	7500h
CFLH-40/ML240/220V-800W	240mm	220V-800W	7500h
CFLH-40/ML320/220V-800W	320mm	220V-800W	7500h
CFLH-40/ML475/220V-1500W	475mm	220V-1500W	7500h

Options	Items
CA	Air-cooling joint
LW*m	Lead wire specified length
GP	Gold plated paraller mirror

Heater Design Number	Mirror Length	Volts-Watts	Design Life
CFLH-45/f20/ML100/110V-300W	100mm	110V-300W	7500h
CFLH-45/f20/ML120/220V-400W	120mm	220V-400W	7500h
CFLH-45/f20/ML240/220V-800W	240mm	220V-800W	7500h
CFLH-45/f20/ML320/220V-800W	320mm	220V-800W	7500h
CFLH-45/f20/ML475/220V-1500W	475mm	220V-1500W	7500h

Spare Lamp Design Number	Mirror Length	Volts-Watts	Design Life
CFLH-45/ML100/110V-300W	110mm	110V-300W	7500h
CFLH-45/ML120/220V-400W	120mm	220V-400W	7500h
CFLH-45/ML240/220V-800W	240mm	220V-800W	7500h
CFLH-45/ML320/220V-800W	320mm	220V-800W	7500h
CFLH-45/ML475/220V-1500W	475mm	220V-1500W	7500h

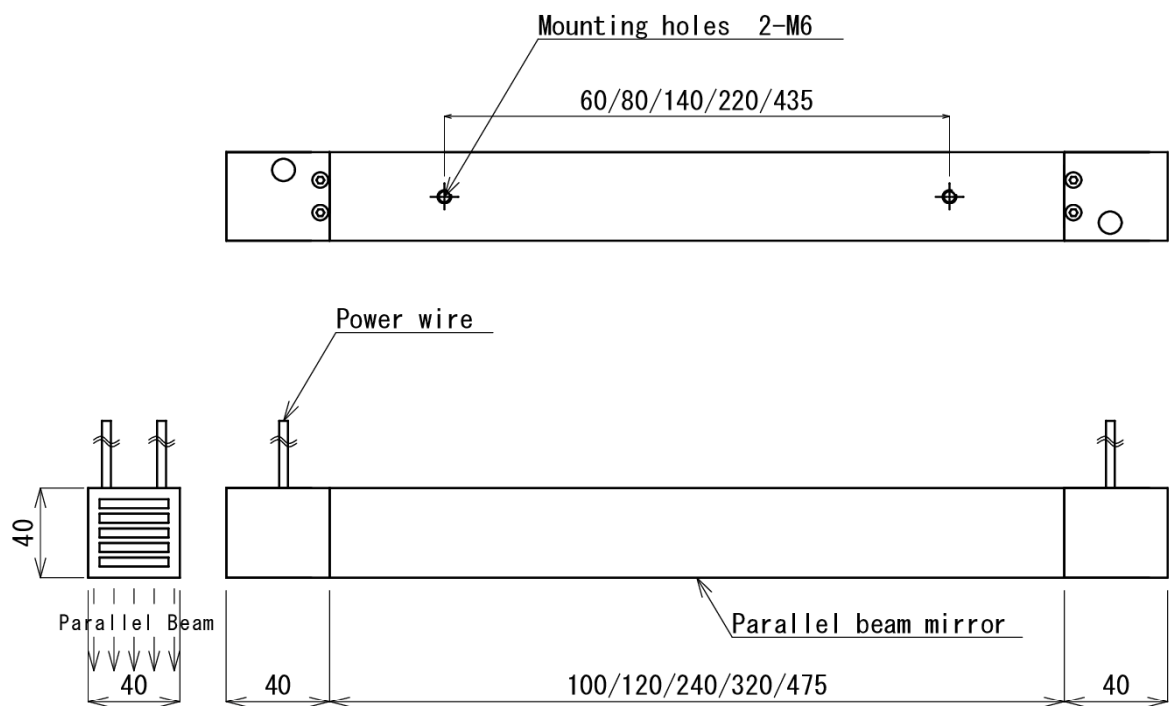
Options	Items
CA	Air-cooling joint
LW*m	Lead wire specified length
GP	Gold plated paraller mirror

Heater Design Number	Mirror Length	Volts-Watts	Design Life
CFLH-50/PL/ML100/110V-300W	100mm	110V-300W	7500h
CFLH-50/PL/ML120/220V-400W	120mm	220V-400W	7500h
CFLH-50/PL/ML240/220V-800W	240mm	220V-800W	7500h
CFLH-50/PL/ML320/220V-800W	320mm	220V-800W	7500h
CFLH-50/PL/ML475/220V-1500W	475mm	220V-1500W	7500h

Spare Lamp Design Number	Mirror Length	Volts-Watts	Design Life
CFLH-50/ML100/110V-300W	110mm	110V-300W	7500h
CFLH-50/ML120/220V-400W	120mm	220V-400W	7500h
CFLH-50/ML240/220V-800W	240mm	220V-800W	7500h
CFLH-50/ML320/220V-800W	320mm	220V-800W	7500h
CFLH-50/ML475/220V-1500W	475mm	220V-1500W	7500h

Options	Items
CA	Air-cooling joint
LW*m	Lead wire specified length
GP	Gold plated paraller mirror

7. Outline drawing of CFLH series



【 Caution - For use in high temperature environments 】

To prevent a decrease in the product lifespan, keep the temperature of the heating element sealing part under 300°C.

If the heating element sealing part exceeds 300°C, forcibly cool the heating element element sealing part using a model equipped with an air-cooling joint.

【Specification at the time of ordering】

ML* Specified Mirrorlength

*V-*W Voltage-power designation

【Option & Special order】

/P*~~m~~ Specified poer line

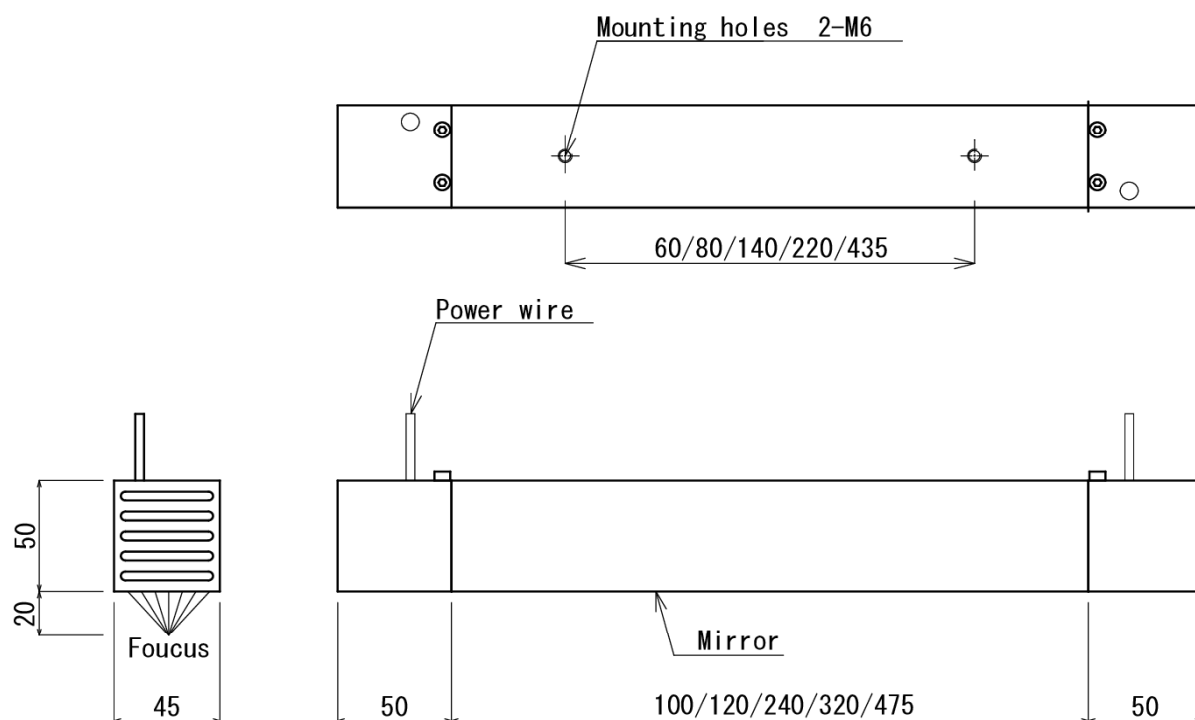
/GP Specified Gold Plate

/CA Air-cooling joint

Type	Standerd				
Foucus FL	PL Parallel beam				
Mirror Length ML	100mm	120mm	240mm	320mm	475mm
Voltage V	110V	220V			
Power W	300W	400W	800W	800W	1500W
D/#	CFLH-40/PL/ML*/*V-*W/Option				
Model	Parallel Beam Type Carbon Fiber Line Heater				

Date	Drawing number
2025. 04. 14	CFLH-E103

Heat-tech Co.,Ltd.



【 Caution - For use in high temperature environments 】

To prevent a decrease in the product lifespan, keep the temperature of the heating element sealing part under 300°C.

If the heating element sealing part exceeds 300°C, forcibly cool the heating element element sealing part using a model equipped with an air-cooling joint.

【Specification at the time of ordering】

ML* Specified Mirrorlength

*V-*W Voltage-power designation

【Option & Special order】

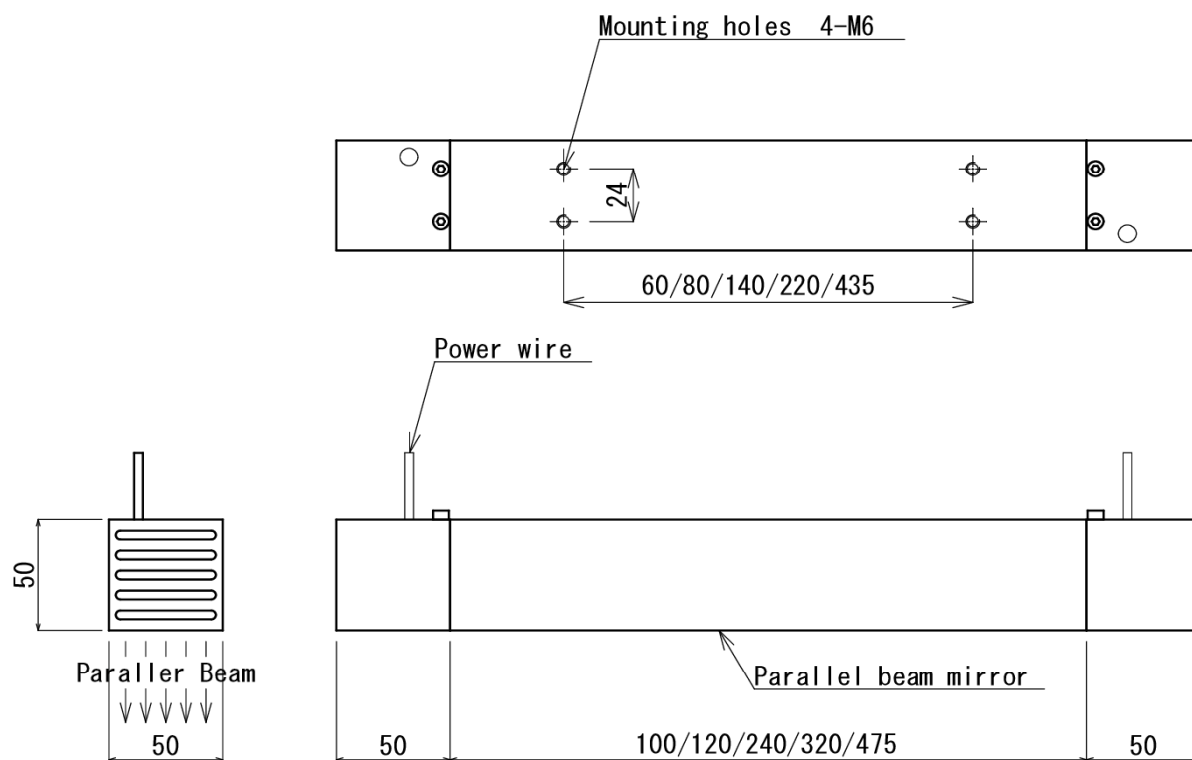
/P*m Specified poer line

/GP Specified Gold Plate

/CA Air-cooling joint

Type	Standerd				
Focus FL	FL20mm				
Mirror Length ML	100mm	120mm	240mm	320mm	475mm
Voltage V	110V	220V			
Power W	300W	400W	800W	800W	1500W
D/#	CFLH-45/FL20/ML*/*V-*W/Option				
Model	Focus Cpndensing Type Carbon Fiber Line Heater				

Date	Drawing number	Heat-tech Co.,Ltd.
2025. 04. 14	CFLH-E104	



【 Caution - For use in high temperature environments 】

To prevent a decrease in the product lifespan, keep the temperature of the heating element sealing part under 300°C.

If the heating element sealing part exceeds 300°C, forcibly cool the heating element element sealing part using a model equipped with an air-cooling joint.

【Specification at the time of ordering】

ML* Specified Mirrorlength

*V-*W Voltage-power designation

【Option & Special order】

/P*m Specified poer line

/GP Specified Gold Plate

/CA Air-cooling joint

Type	Standerd				
Foucus	PL Parallel beam				
Mirror Length ML	100mm	120mm	240mm	320mm	475mm
Voltage V	110V	220V			
Power W	300W	400W	800W	800W	1500W
D/#	CFLH-50/PL/ML*/V-W/Option				
Model	Parallel Beam Type Carbon Fiber Line Heater				

Date	Drawing number
2025. 04. 14	CFLH-E105

Heat-tech Co.,Ltd.

No-touch High Temperatures Hating

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