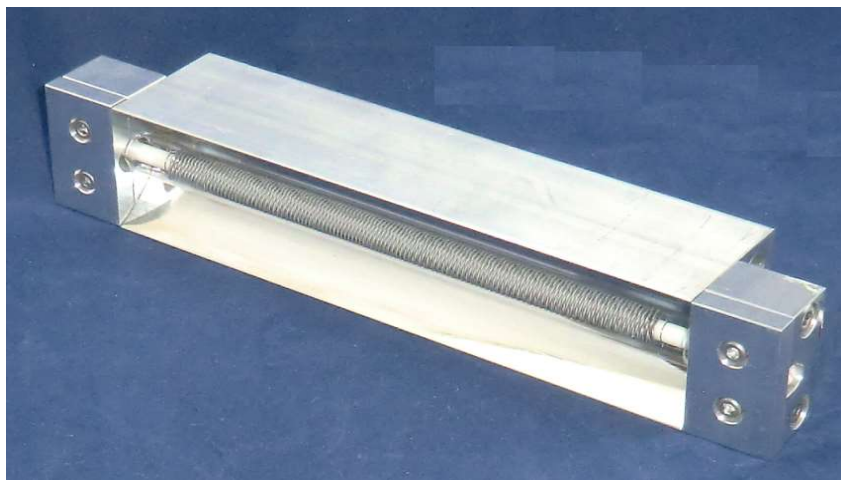
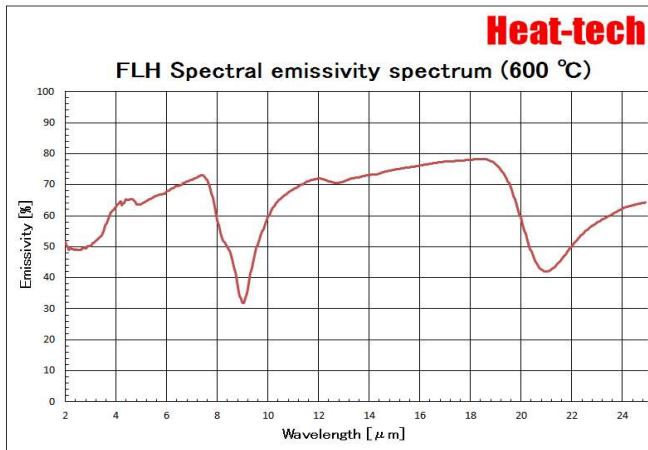


**FAST HEATING**  
Far-infrared Line Heater  
FLH-30 Series

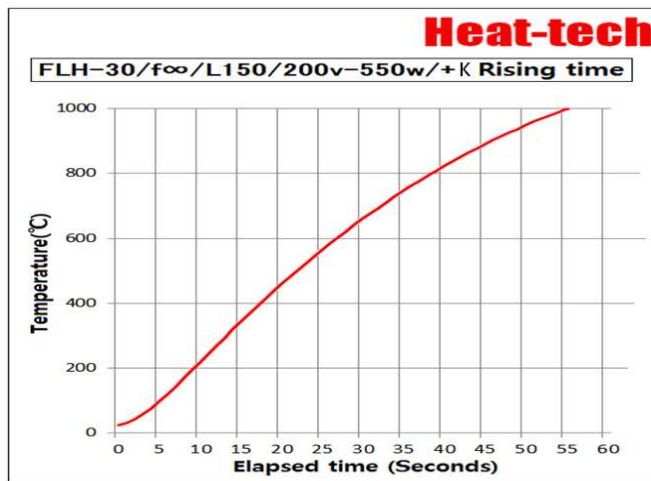


- ◆ Rising is early, so heating time can be reduced.
- ◆ Highly precise temperature control can be done.
- ◆ Frequency management of heating element can be done.
- ◆ This is a far-infrared radiation, so this is good at heating of glass.
- ◆ Ultra-compact.
- ◆ Clean.
- ◆ When this is lined up, plane heating can be done.

**Heat-tech**

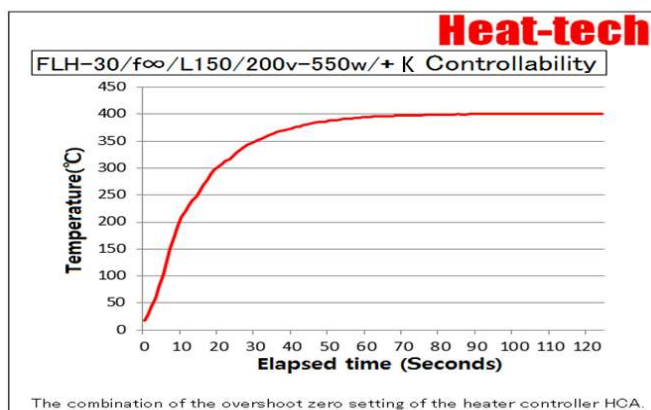


◆ Rising is early, so heating time can be reduced.



◆ Highly precise temperature control can be done.

Since thermocouple built-in, user can adjust freely the temperature of the heating element.



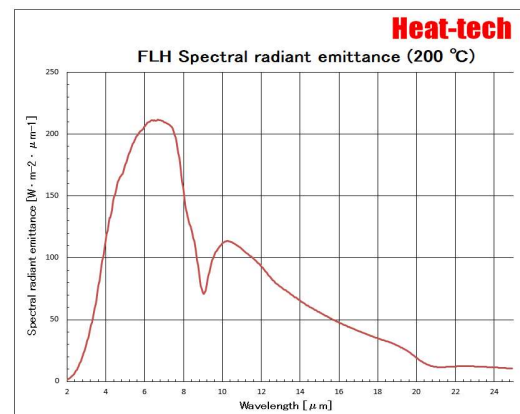
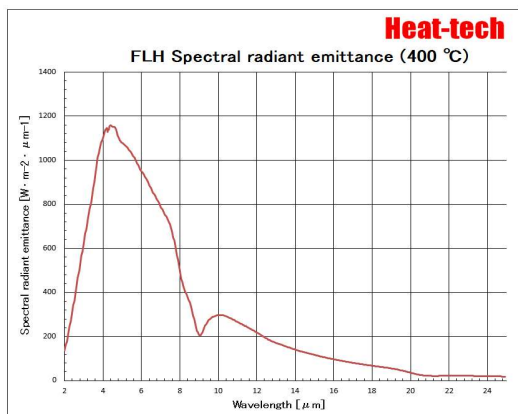
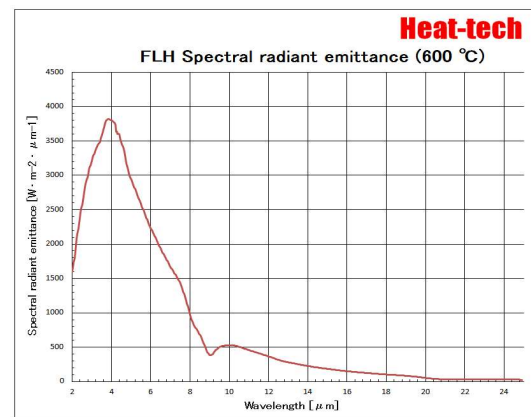
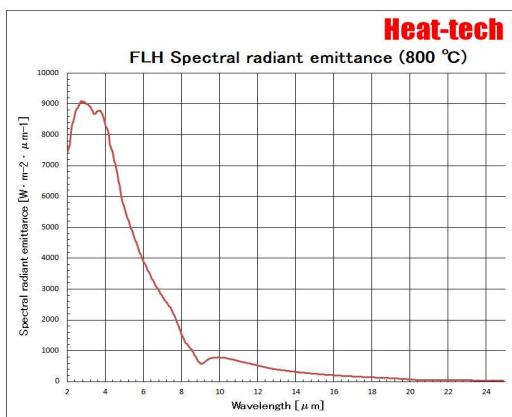
◆ **Frequency management of heating element can be done.**

By adjusting the temperature of the heating element, it is possible to manage the far-infrared rays of the peak frequ

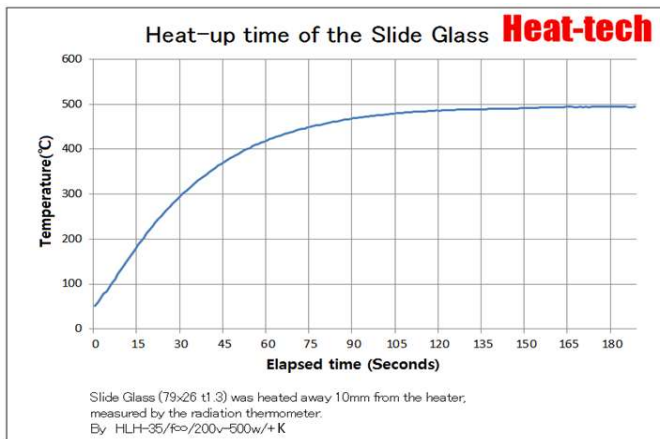
**Black body radiation energy**

Temp.	Peak wavelength
800°C	2.70 μ m
700°C	2.98 μ m
600°C	3.32 μ m
500°C	3.75 μ m
400°C	4.31 μ m
300°C	5.06 μ m
200°C	6.13 μ m
100°C	7.77 μ m

✂ It also reduces the transfer (radiation) energy and lower the temperature.



◆ This is a far-infrared radiation, so this is good at heating of glass.



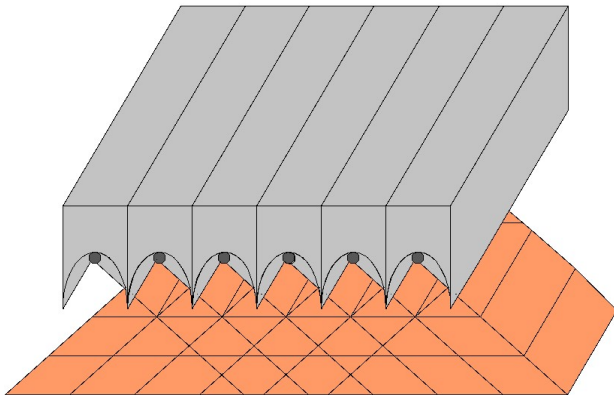
◆ **Ultra-compact.**

It is a very small. Height 36mm x Width 35mm x Length 50~316mm.  
It can be installed in the gap of the machine.

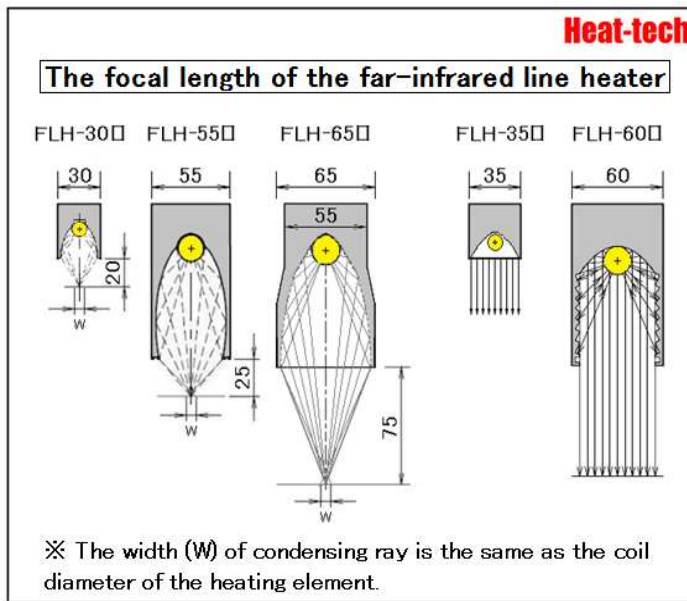
◆ **Clean.**

It's medium-less by non-contact heating, so it can be heated very cleanly.

◆ **When this is lined up, plane heating can be done.**



**【 Focal length 】**



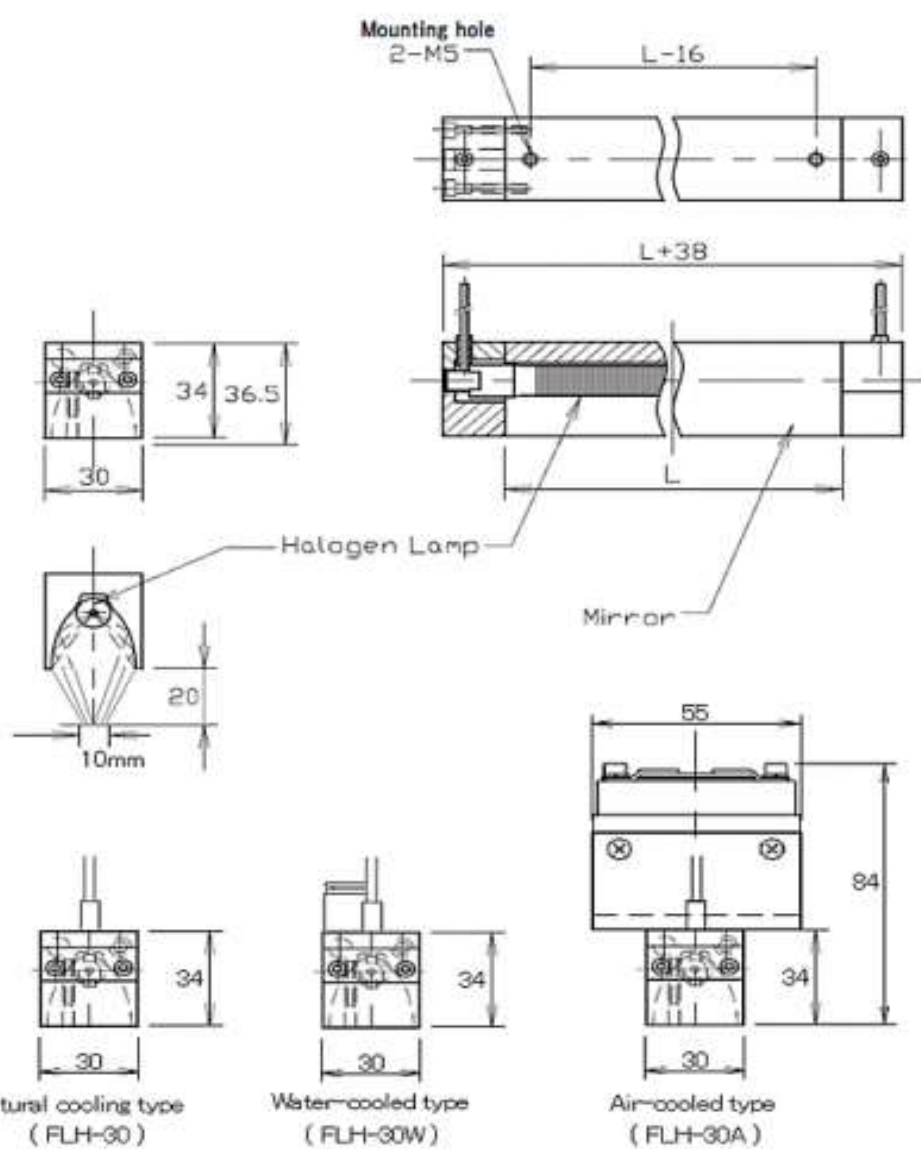
**【 Models Variation 】**

Model	Optical axis	Parallel beam width	Focal length	Cooling system	Power	Mirror length
FLH-30	Condensing	10mm	20mm	Natural dissipation	150w~1kw	50~318mm
FLH-30A				Air cooling	325w~1.3kw	82~318mm
FLH-30W				Water-cooled	325w~1.3kw	82~318mm

**【 Models constitution 】**

(Example) FLH-30A/f∞/L150/220v-650w/+K/P3m•K3m

Basic Model	Mirror width	Cooling	Focal length	Mirror length	Voltage	Wattage	Built-in T/C	Power wire	T/C wire	Detail description
FLH-	30	□	/20	/L□	/□v-	□w	/+K	/P□m	K□m	Far-infrared line heater Parallel beam
		無								Natural heat dissipation
		A								Air cooling
		W								Water-cooled
				50						Mirror net length 60mm
				82						Mirror net length 82mm
				150						Mirror net length 150mm
				316						Mirror net length 316mm
				Specified						Mirror net length specified
					110v					Heater voltage 110v
					220v					Heater voltage 220v
					Specified					Heater voltage Specified
							Specified			Heater power Specified
								Blank		Nothing
									K	K thermocouple
								Blank		Nothing
								Specified		Nothing
									Blank	Nothing
									Specified	T/C lead wire specified length



**【 Option & Special order 】**

- K thermocouple built-in
- Specified voltage
- Specified power
- Specified heat element length
- Specified mirror length
- Specified power supply line
- Specified thermocouple wires
- Specified cooling system

Type	Semi-standard		Standard			
Focus	f20					
Cooling	Natural heat dissipation			A/W	ND	A/W
Mirror length	50	82	150	318		
Voltage	110v	220v	110v	220v	220v	
Power	150w		300w	550w	650w	1kw 1.3kw
D/#	FLH-30□/f20/L□/□v-□w/(Option K-T/C)					
Model	Far-infrared line heater					

Date 2015/11/16 Design YShimoda

**Heat-tech Co.,Ltd.**

No-touch High Temperatures Hating

# Heat-tech

**Heat-tech Co., Ltd.**

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