Fast heating Far-infrared Point Heater FPH Series



- ◆ Ultra-compact.
- Clean.
- Stable radiation characteristics.
- Rising is early, so heating time can be reduced.
- ◆ This is a far-infrared radiation, so this is good at heating of glass.

Heat-tech



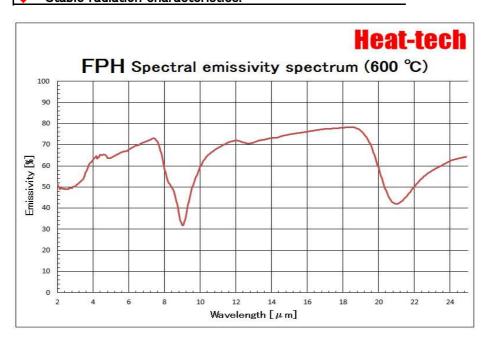
[FPH-30 Series]

It is ultra-compact with a diameter of $\Phi\,30\text{mm}$ x height 40mm. It can be installed in the gap of the machine. Focus diameter is two types of $\Phi\,3$ and $\phi\,5$.

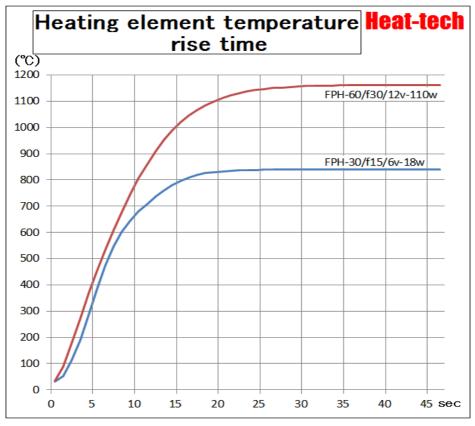
Olean.

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

♦ Stable radiation characteristics.



Rising is early, so heating time can be reduced.



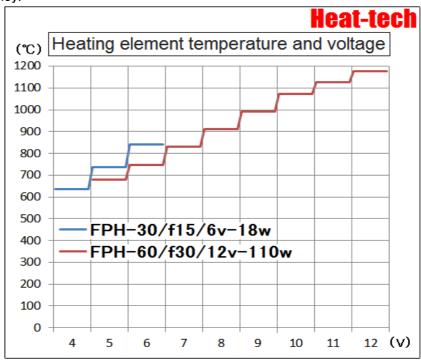
This heater reach the high temperature of 800 °C in only 15 sec.

Frequency management of heating element can be done.

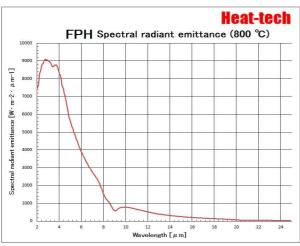
By adjusting the temperature of the heating element, it is possible to manage the far-infrared rays of the peak frequency.

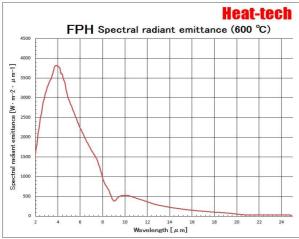
Black body radiation energy

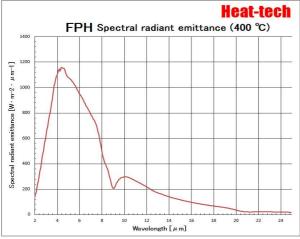
Temp.	Peak wavelength
800°C	2.70 μ m
700°C	2.98 μ m
600°C	3.32 μ m
500°C	3.75 μ m
400°C	4.31 μm
300°C	5.06 μm
200°C	6.13 µ m
100°C	7.77 µm

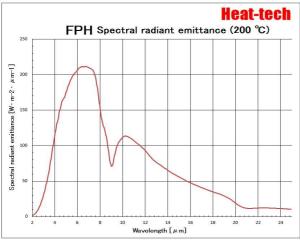


💥 It also reduces the transfer (radiation) energy and lower the temperature.



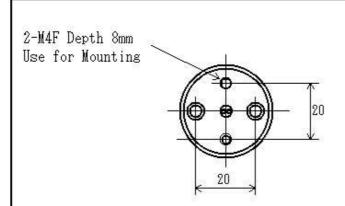


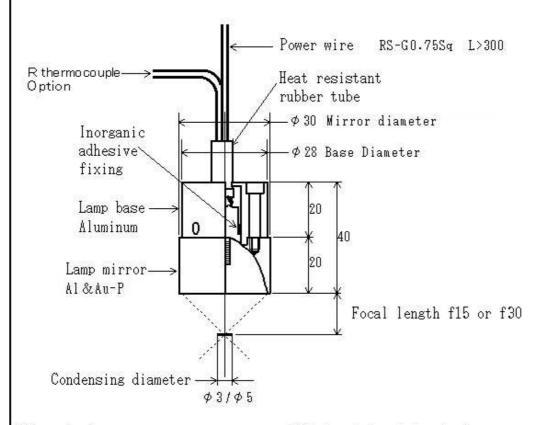




Model configuration

Basic	Mirror	Cooling	Focal	Voltage	output	Thermo	Water	Power	Detailed
Dasic	diameter	method	length	voitage	oltage output	couple	cooling	wire	description
FPH-			/f□	□>-	□w	/R	/□	/P□m	
	30								DiameterΦ30
	60								DiameterΦ60
		blank							Natural cooling
		Α							Air cooling
			f15						15mm
			f30						30mm
				6v					Voltage 6v
				12v					Voltage 12v
					18w				output 18w
					110w				output 110w
						blank			
						R			R-type thermocouple
							blank		
							WCU-30		Water cool unit Ф30
							WCU-60		Water cool unit Ф60
								P1 m	Power wire 1 m
								P()m	Designated length





(Caution)

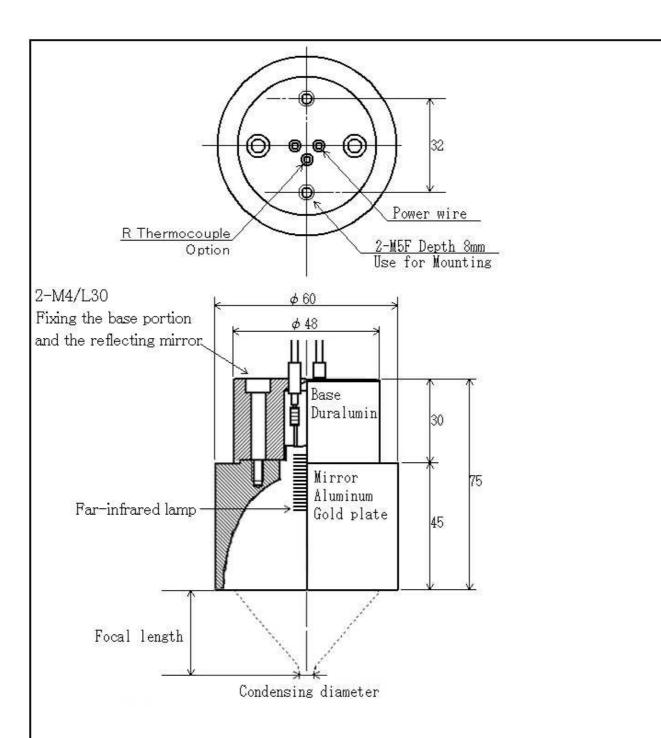
- (1).The temperature is a higher as a short focus.
- (2).The focus diameter is a diameter of the orientation center. About 1/3 of the electricity is condensed.
- (3).The infrared rays are distributed around the focus diameter.
- (4). When the surface temperature of the heater exceeds 160°C, cooling is necessary.

Date 2016/8/30 Design Y.shimoda

[Option & Special order] Specified power supply line

Focus	15mm	30mm	
Diameter	Ф3	Ф5	
Volt-Power	AC/DC 6v-18w		
Mass	approx.65g		
Water Cooloing	Option		
Hood	Option		
D/#	FPH-30/f□/6v-18w		
Model	Far-infrared point heater		

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(Caution)

(1).The temperature is a higher as a short Specified power supply line focus

- (2).The focus diameter is a diameter of the orientation center. About 1/3 of the electricity is condensed.
- (3).The infrared rays are distributed around the focus diameter.
- (4).When the surface temperature of the heater exceeds 160°C, cooling is necessary.

			18785 R-276 35:
Date	2016/8/30	Design	Y.shimoda

[Option & Special order] Specified nower supply line

Focus	30mm	60mm	105 mm	
Diameter	Ф10	Ф18	Ф25	
Volt-Power	AC/DC 12v-110w			
Mass	approx330g			
Water Cooloing	Option			
R Thermocouple	Option			
D/#	FPH-60/f□/12v-110w			
Model	Far-infrared point heater			

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