

# Heater Controller General Catalog



HCA



AHC3



ACC



HCV



HCF



HCP



HCS



HHC2



SSC



UVPC-3.6V



UVPC-1500V

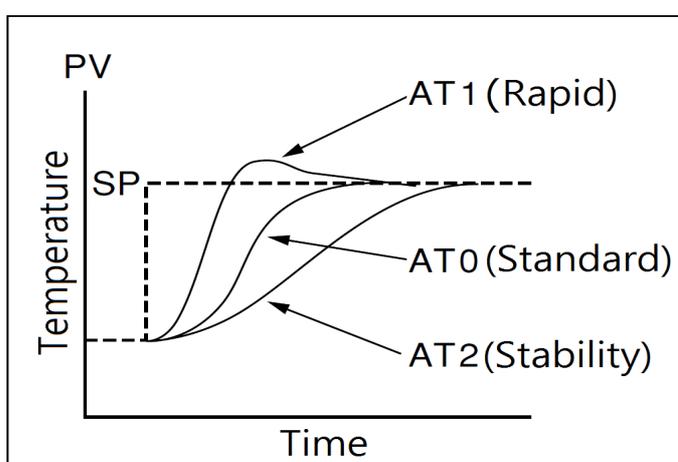
# Heat-tech

- 1 Thermocontroller built-in heater controller HCA series
- 2 High-performance air blow heater controller AHC3 series
- 3 Air Blow Cooler controller ACC series
- 4 Manual halogen heater controller HCV series
- 5 Heater controller feedback type for Pyrometer ( Radiation thermometer ) HCF series
- 6 Pulse input heater controller for halogen heater HCP series
- 7 Speed proportional heater controller HCS series
- 8 High-performance heater controller HHC2 series
- 9 Stepset Controller Profile-maker SSC series
- 10 For Ultraviolet rays point type irradiator UVP-30 Manual power supply controller UVPC3.6V
- 11 For cold cathode low pressure mercury lamps, For Ultraviolet rays point type irradiator UVP-60  
Manual power supply controller UVPC-1500V
- 12 Power Cable for Heater Controller



# 1. Thermocontroller built-in heater controller HCA series

[Attention] HCA series can not control the halogen heater.  
The control of the halogen heater recommends HCV series, HHC2 series, and SSC series.



HCA has a built-in high-performance thermocontroller, handling is easy.  
By overheating zero setting, providing a stable heating.

## [Specifications]

D/#	Voltage	Current	Control	Supervisor function
HCA-AC100~240V-15A	AC100~240V	15A	1pcs	None
HCA-AC100~240V-30A	AC100~240V	30A	1pcs	None
HCAR-AC(In)V/(Out)V-15A	AC100~240V	30A	1pcs	None
HCASV-AC100~240V-15A	AC100~240V	15A	1pcs	Built-in
HCASV-AC100~240V-30A	AC100~240V	30A	1pcs	Built-in
HCAW-AC100~240V-15A	AC100~240V	15A	2pcs	None
HCAW-AC100~240V-30A	AC100~240V	30A	2pcs	None
HCAFMSV-AC100~240V-15A	AC100~240V	15A	1pcs	Built-in
HCAFMSV-AC100~240V-30A	AC100~240V	30A	1pcs	Built-in

Please contact us. about 50A ,100A and 150A products.

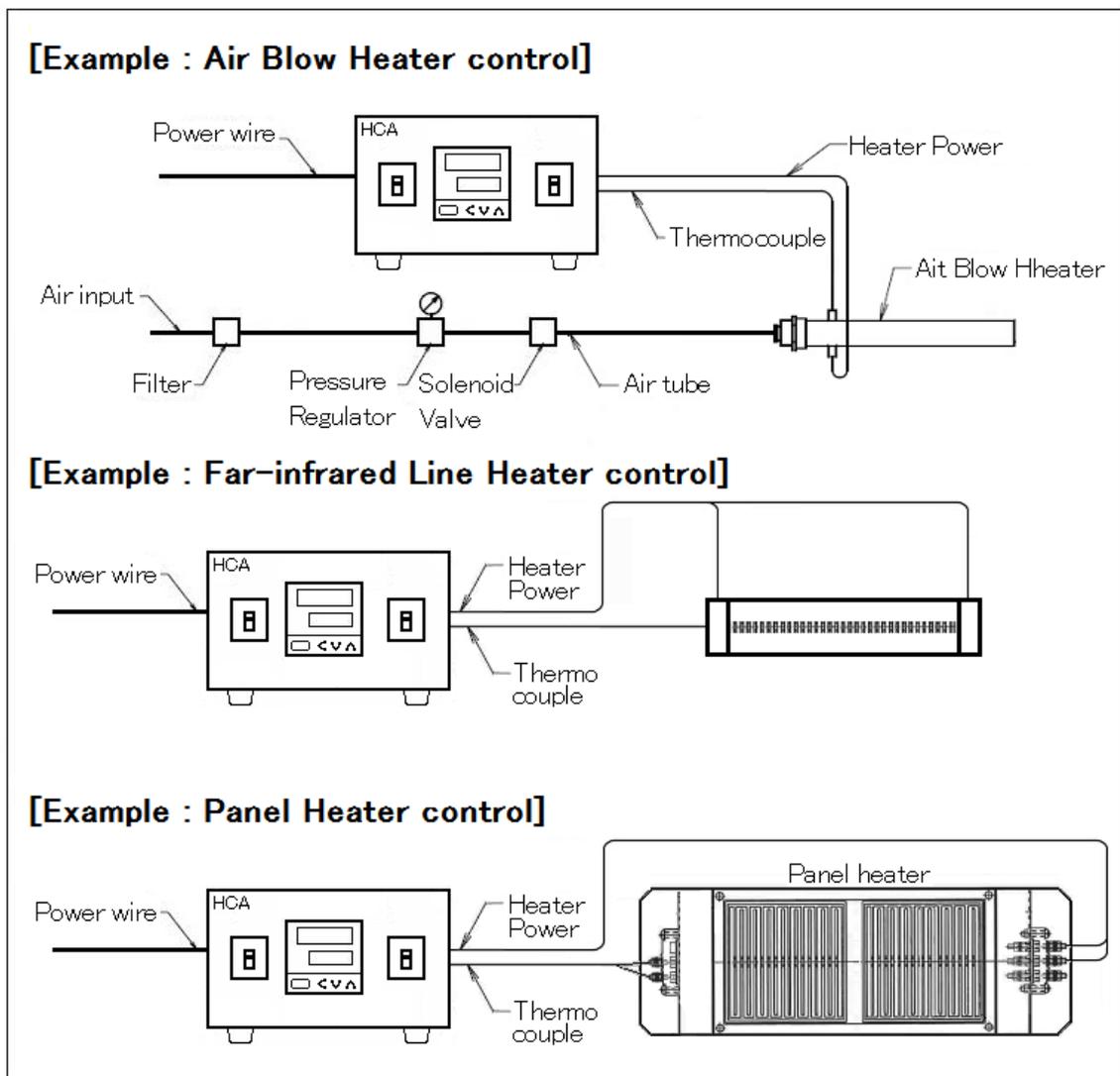
## Option

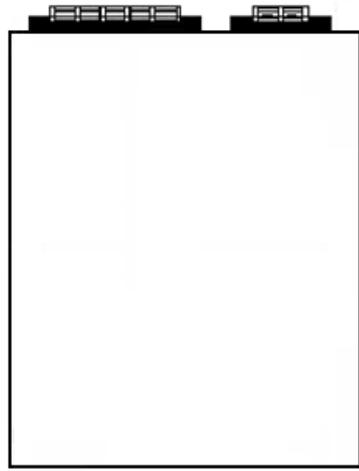
D/#	Item and Description
BO	Heater burnout detection
RS-485	RS-485 Communication for IOT
PS	Non-airflow Alarm and current cut-off.
FPR	Front Protection Rail
RPR	Rear Protection Rail
LH	Lifting Handle
Power Cable	Manufacture the specification of the power cable.

## 1-1. Standard type HCA

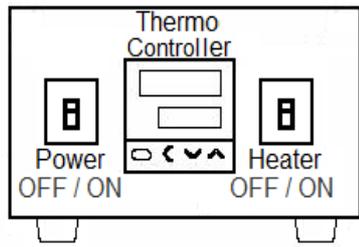


HCA has a built-in high-performance thermocontroller, handling is easy.  
By overheating zero setting, providing a stable heating.

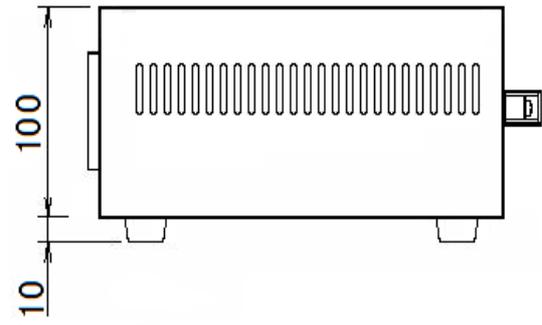




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Control method	Time division PID control
Voltage	AC100V~220V
Current	15A / 30A
Option	B0 Heater Disconnection
Option	FPR Front Protection Rail
Option	RPR Raer Protection Rail
Dimention	Width 150 x height 110 x depth 205 mm
D/#	HCA-AC100V/220V-□A/(Options)
Model	<b>Thermocontroller built-in Heater Controller</b>

Date 2016/5/3 Draw Y.Shimoda

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## 1-2. Supervisor-function built-in HCASV



HCASV has a built-in high-performance thermocontroller, handling is easy.

By overheating zero setting, providing a stable heating.

1 heater is watched and controlled by 2 of thermocontroller.

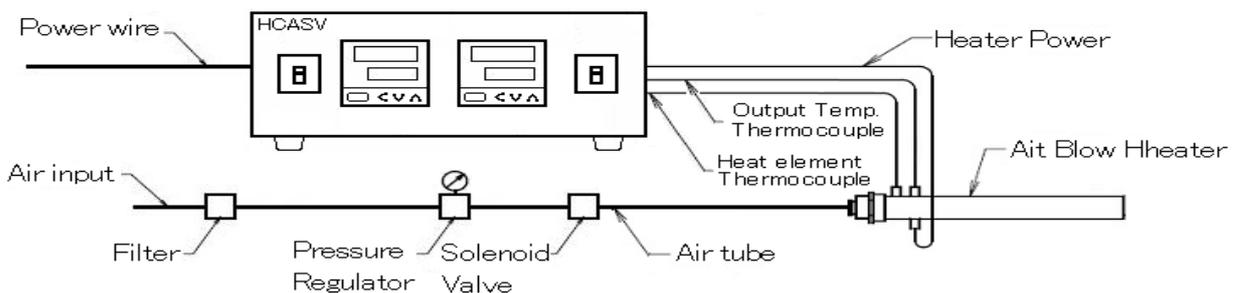
[Example : Air Blow Heater overhear control]

In a hot-air outlet thermocouple input, it will control the hot air to the proper temperature. It will monitor the excessive rise in temperature of the Air Blow Heater in the heating element temperature thermocouple. When the excessive temperature rise occurs, it will send an alarm to cut off the heater power supply.

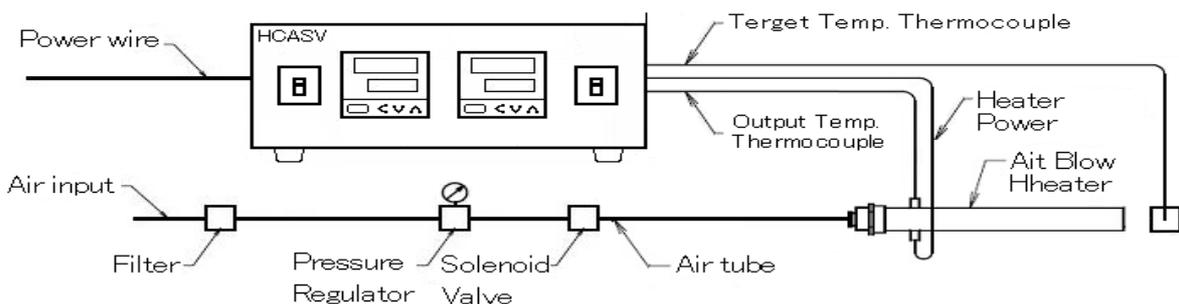
[Example : Air Blow Heater Target heat control]

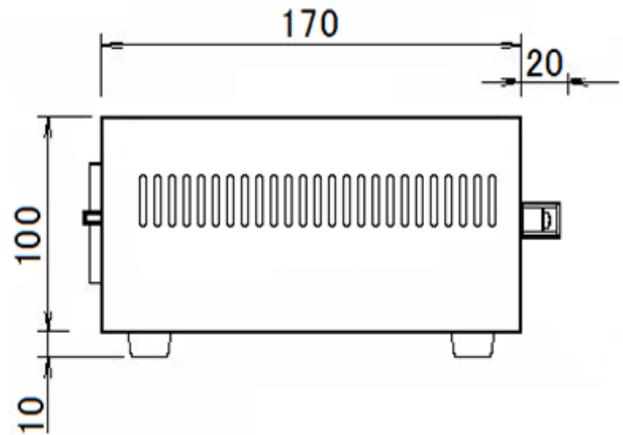
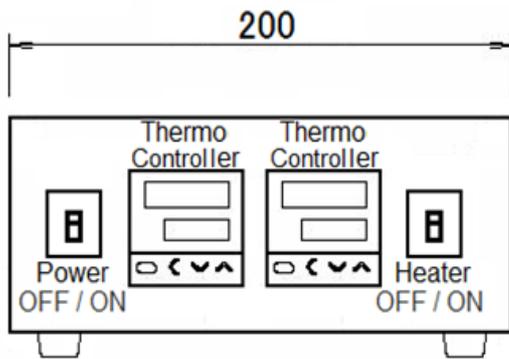
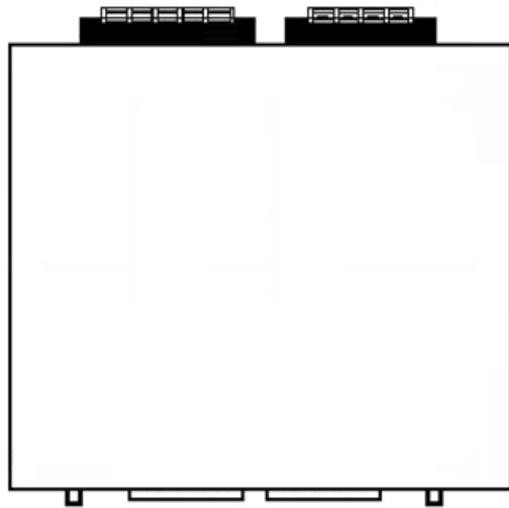
The target thermocouple input, it will control the object at an appropriate temperature. It will monitor the excessive rise in temperature of the hot air heater in a hot air exit thermocouple. When the excessive temperature rise occurs, it will send an alarm to cut off the heater power supply.

### [Example : Air Blow Heater overhear control]



### [Example : Air Blow Heater Target heat control]





Control method	Time division PID control
Voltage	AC100V~220V
Current	15A / 30A
Option	B0 Heater Disconnection
Option	FPR Front Protection Rail
Option	RPR Raer Protection Rail
Dimention	Width 200 x height 110 x depth 205 mm
D/#	HCASV-AC100V/220V-□A/(Options)
Model	<b>Thermocontroller built-in Heater Controller</b>

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### 1-3. Two heaters control type HCAW

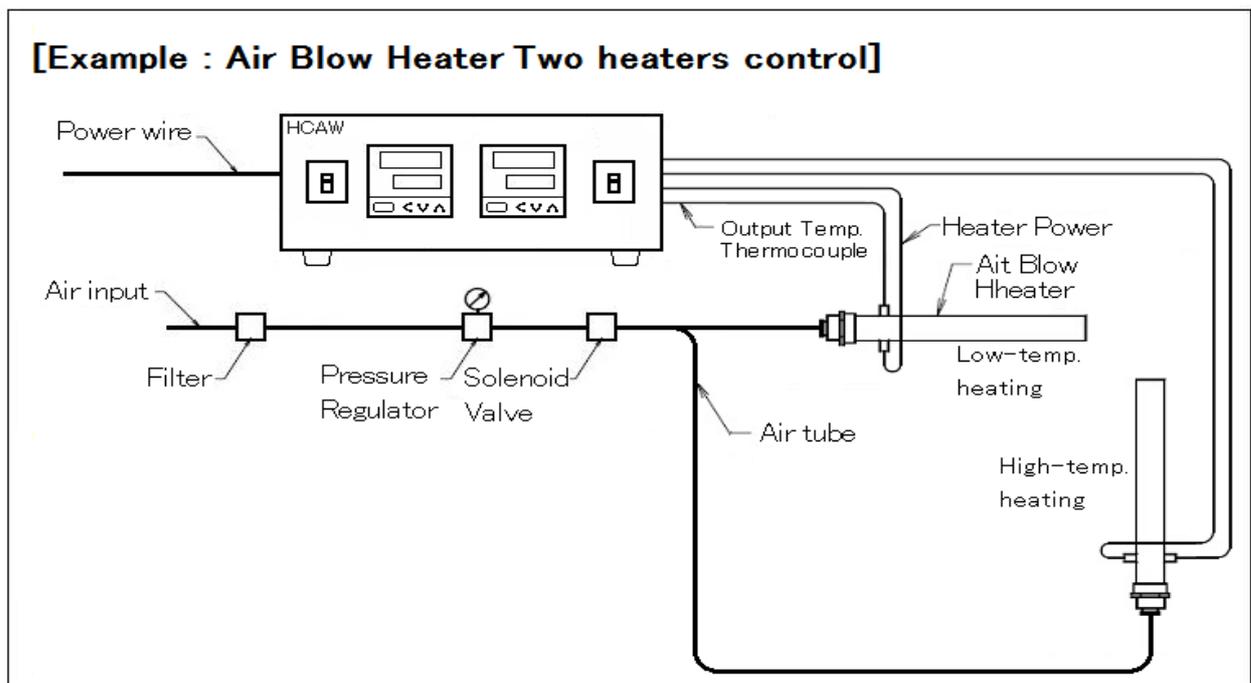


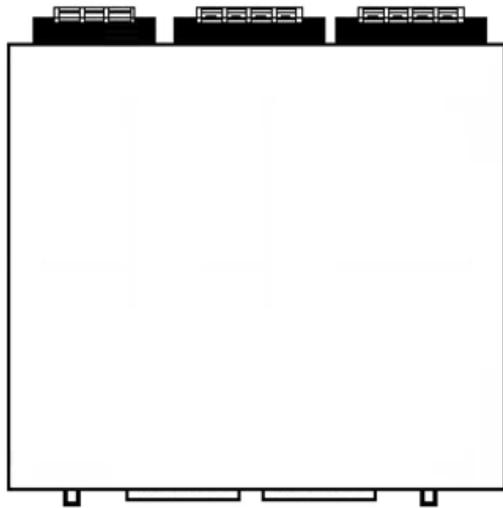
HCAW can control two heaters at the same time, such as the air blow heater, the far infrared rays line heater, and far infrared rays panel heater.

Since the thermocontrollers are equipped with two, user can set the temperature individually.

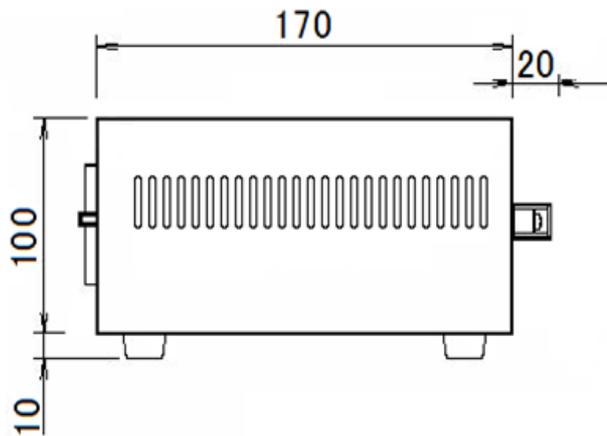
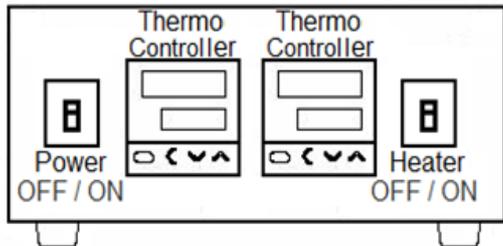
HCAW has a built-in high-performance thermocontroller, handling is easy.

By overheating zero setting, providing a stable heating.





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Control method	Time division PID control
Voltage	AC100V~220V
Current	15A / 30A
Option	B0 Heater Disconnection
Option	FPR Front Protection Rail
Option	RPR Raer Protection Rail
Dimention	Width 200 x height 110 x depth 205 mm
D/#	HCAW-AC100V/220V-□A/(Options)
Model	<b>Thermocontroller built-in Heater Controller</b>

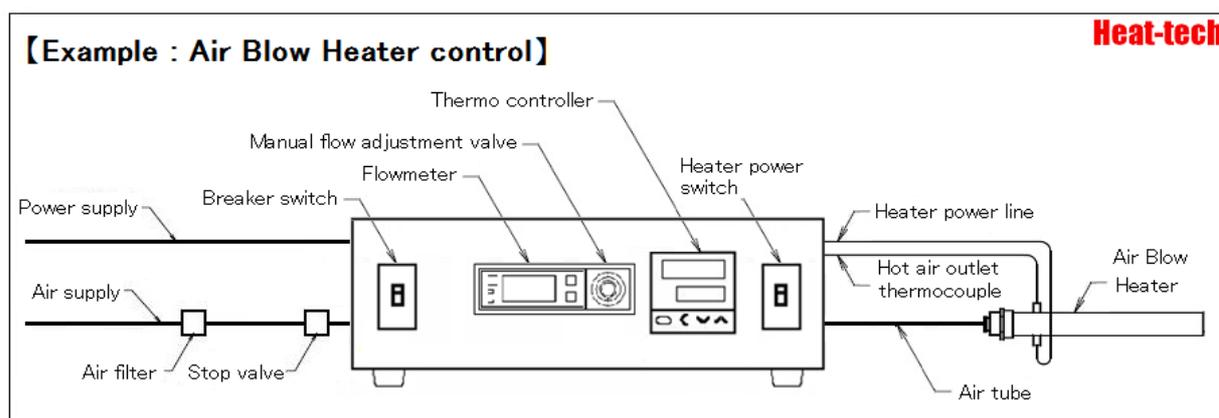
Date 2016/5/3 Draw Y.Shimoda

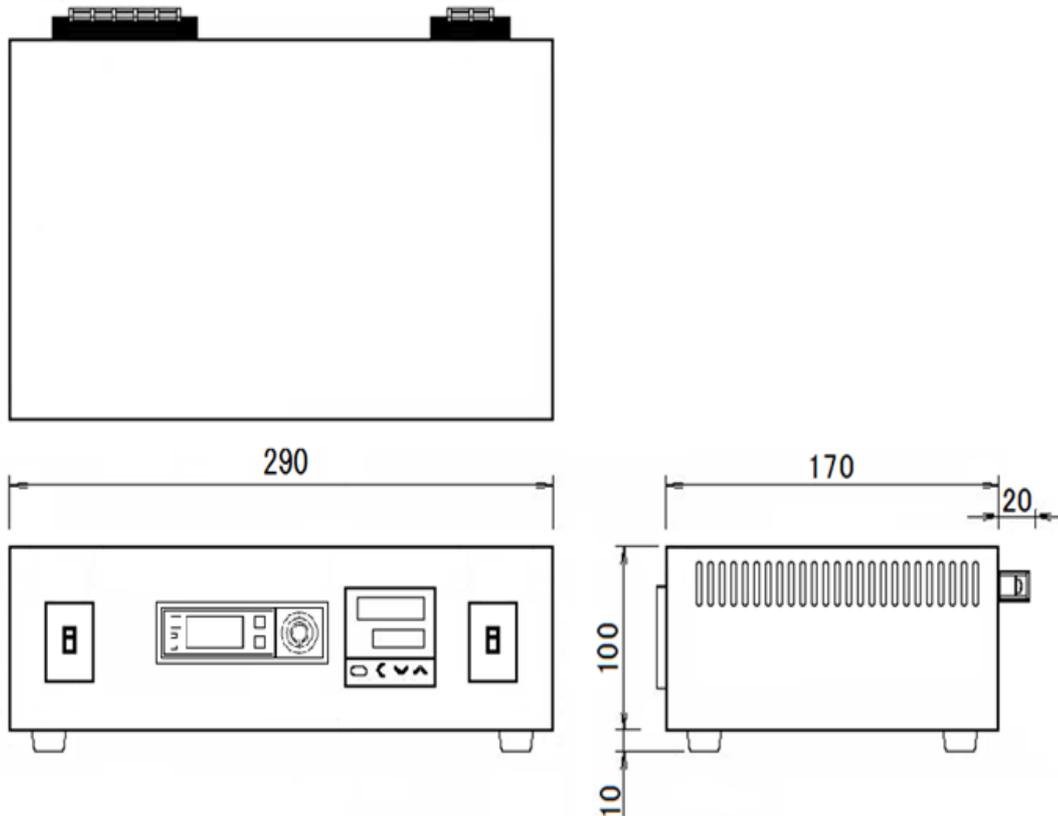
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## 1-4. Thermocontroller & Flow control type HCAFM



Temperature control and flow control of the Air Blow Heater can be performed.  
By overheating zero setting, providing a stable heating.  
The flow control valve can adjust the flow rate.  
The built-in no-gas heating prevention function and prevents heat damage to the heater.  
Since the main power switch and the heater power switch are separated, user can start the heating after the temperature setting.





Option

BO	With heater burnout detection and display.
PS	Air Blow Heater and terminal cooling air pressure shortage alarm
RS-485	RS-485 Communication
AirV	Air opening and closing valve
SV	Supervisor function for Over-heat protect or Target-heating
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
R&H	Front Protection Rail, Rear Protection Rail and Lifting Handle

[Note.] When the to add a function, there is that the external dimensions changes.

Control	Time division PID control
Voltage	AC100V~240V
Current	15A / 30A / 50A / 100A / 150A
Flow rate	0 ~ 200L/min
Dimention	Width 290 x height 110 x depth 205 mm
D/#	HCAFM-□A-200L/(Option)
Model	Thermocontroller built-in Heater Controller

Date	2019/4/5	Draw	Y.Shimoda
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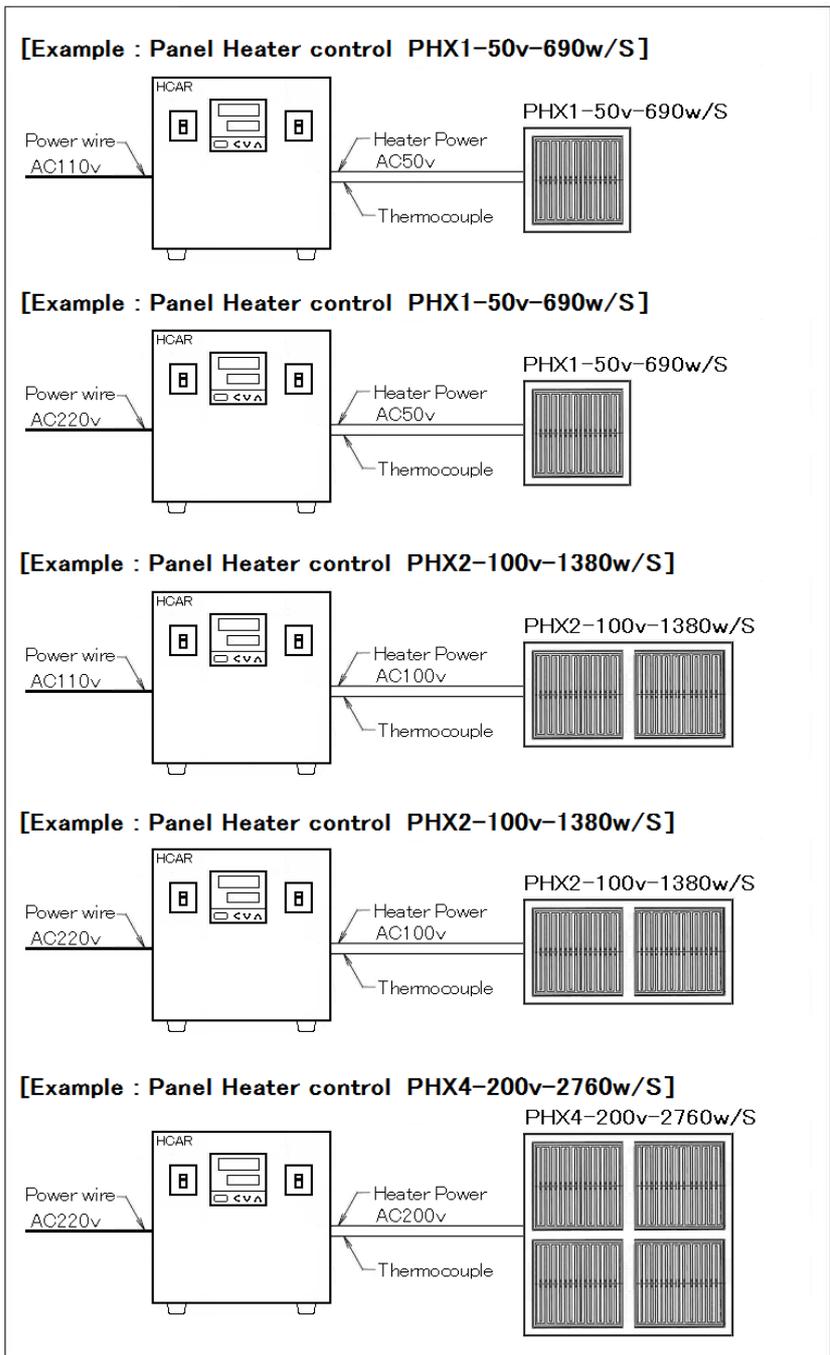
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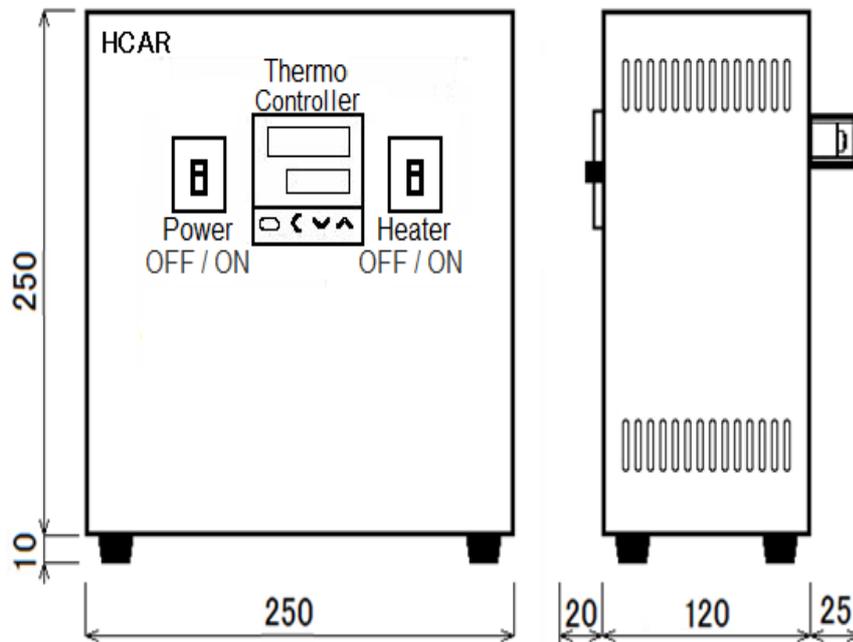
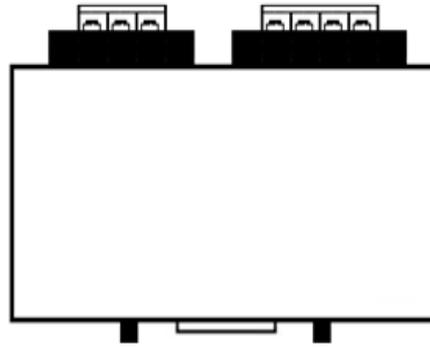
# 1-5. Down Voltage Regulator type HCAR



[Example : Panel Heater control]

Adjust the specified power supply voltage to the specified voltage and control the heater.





**Option**

BO	With heater burnout detection and display.
PS	Air Blow Heater and terminal cooling air pressure shortage alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
LH	Lifting Handle
RS-485	RS-485 Communication

Control method	Time division PID control
Supply voltage	AC100V / AC110V / AC200V / AC220V
Control voltage	AC50 / AC100 / AC200V
Current	15A
D/#	HCAR-AC(In)V/AC(Out)V-15A/(Options)
Model	Thermocontroller built-in Heater Controller

Date	2017/11/22	Draw	Y.Shimoda
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## 2.High-performance air blow heater controller AHC3 series



AHC3 is a heater controller that combines options with basic functions and is customized for use. By overheating zero setting of the thermocontroller, it makes the stable hot-air heating. At a flow rate management by a flow control valve with a float-type flow meter, a flow control valve with a digital flow meter, or mass flow controller, to ensure the reproducibility of the

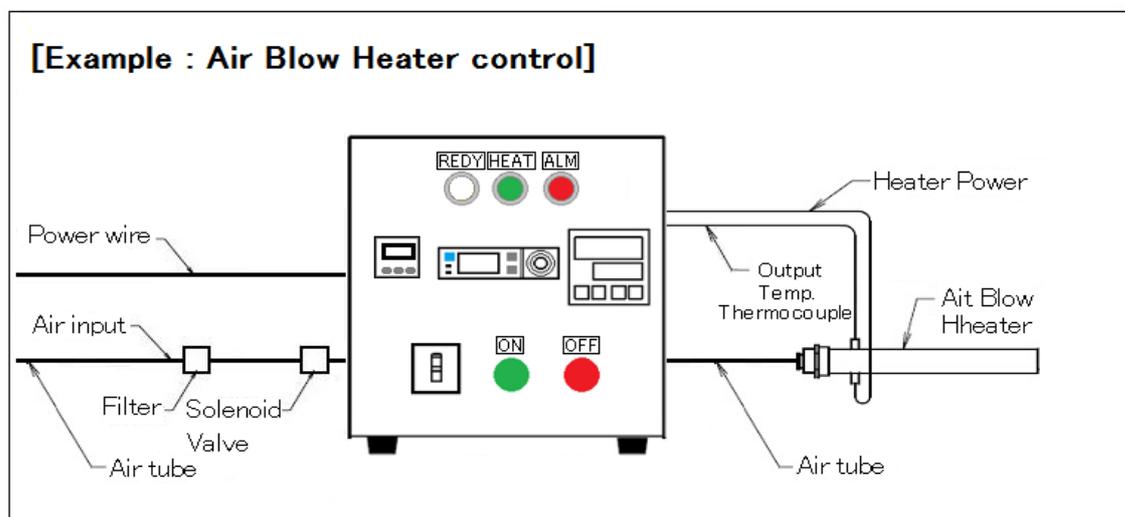
Color universal design type can be specified CUD as an option.  
White, blue and yellow indicator lights, Blue and Yellow operation buttons.  
The color scheme is easy for anyone to see.

Thermocontroller on-board of the option selected, there is a thermocouple specification or a radiation thermometer specification.

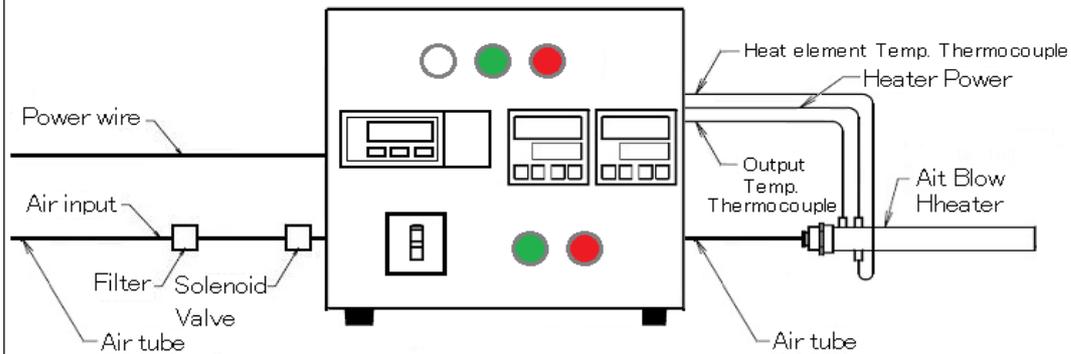
In option selected, user can control of ON-OFF and the voltage is possible with the outside signal. The IOT-function of the option selected, user can confirm data such as, the set temperature, heating temperature, operation time, operation number of times, heater exchange number of Using a duplication sensor of the optional selected, a over temperature alarm management is possible. Using a one-shot timer of the optional selected, an precision heating examination is possible.

### AHC3 Basic Specifications Thermocontroller & digital flow meter

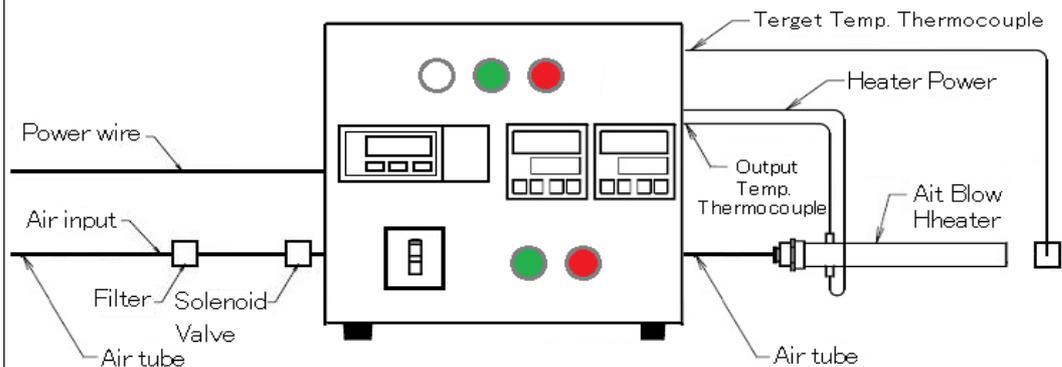
By overheating zero setting of the thermocontroller, it makes the stable hot-air heating. At a flow rate management by the flow control valve with a digital flow meter, to ensure the reproducibility of the amount of heat supplied. The built-in no-gas heating prevention function and prevents heat damage to the heater.



**[Example : Air Blow Heater overheat control]**



**[Example : Air Blow Heater Target heat control]**



**【 Model configuration list 】**

Basic Model	Thermo Controller	Electric Current	Gasflow Quantity	Contents
AHC3				Airblow Heater Controller
	No symbol (standard)			Thermo-couple input
	TP			Pyrometer input
		15A		Control Electric current 15A
		30A		Control Electric current 30A
		50A		Control Electric current 50A
		100A		Control Electric current 100A
			200L	Gas control flow rate 200L/min
			1000L	Gas control flow rate 1000L/min

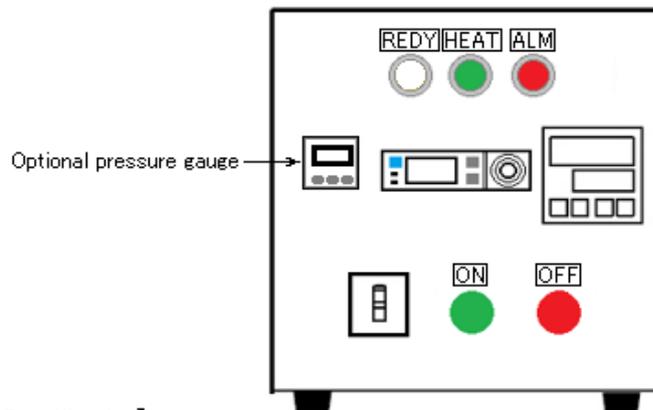
**【 Basic Specifications 】**

Power voltage	Single-phase AC100V ~ 240V 50 / 60Hz
Control current	15A / 30A / 50A / 100A
Thermocontroller	Surface mount thermocouple input type
Thermocontrol system	Time division PID control
Air flow meter	Thermal flow meter
Air flow rate setting	Manual control valve
Air flow rate (ℓ / min)	2~200 / 10~1000
Air input	Taper thread for pipes
Air output	Taper thread for pipes
Usage environment	Temperature 0 ~ 45 °C Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Additional Specifications】

Abbreviation	Contents
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
RC1	Heating start or stop in the signal from outside
SV	Over-heat Alarm. (For ABH/DGH□v-□w/□□/+2S type)
HL	High-Low Control for rapid-heating or preheating
TMR1	Mounting surface.-For one-shot heating
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RSP	Specified thermocontroller temp. in 4-20mA
MON	The temperature of the hot air is output to the outside as a 4-20mA signal.
MON	The flow rate of the supply gas is output to the outside as a 4-20mA signal.
MON	The pressure of the supply gas is output to the outside as a 4-20mA signal.
RS485	RS-485 Communication
IOT	IOT function
BO	With heater burnout detection and display. With current limiter.
AP	Air Blow Heater and terminal cooling air pressure shortage alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Thermo controller : Pyrometer input
PM	Pyrometer mounted surface.
FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.
+ α	If user need a function other than the above, please contact us.

[Note] When the to add a function, there is that the external dimensions changes.



【Basic Specification】

Power voltage	Single-phase AC100V ~ 240V 50 / 60Hz
Control current	15A / 30A / 50A / 100A
Thermocontroller	Surface mount thermocouple input type
Thermocontrol system	Time division PID control
Air flow meter	Thermal flow meter
Air flow rate setting	Manual control valve
Air flow rate (ℓ / min)	2~200 / 10~1000
Air input	Taper thread for pipes
Air output	Taper thread for pipes
Usage environment	Temperature 0 ~ 45 °C Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Additional Specifications】

CUD	Color universal design type white-blue-yellow indicator light and operation switch.
PG	Surface-mounted pressure gauge
RC1	Heating start or stop in the signal from outside
SV	Over-heat Alarm. (For ABH/DGH□V-□w/□□/+2S type)
HL	High-Low Control for rapid-heating or preheating
TMR1	Mounting surface.-For one-shot heating
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RSP	Specified thermocontroller temp. in 4-20mA
MON	The temperature of the hot air is output to the outside as a 4-20mA signal.
MON	The flow rate of the supply gas is output to the outside as a 4-20mA signal.
MON	The pressure of the supply gas is output to the outside as a 4-20mA signal.
RS485	RS-485 Communication
IOT	IOT function
BO	With heater burnout detection and display. With current limiter.
AP	Air Blow Heater and terminal cooling air pressure shortage alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Thermo controller : Pyrometer input
PM	Pyrometer mounted surface.
FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.
+α	If user need a function other than the above, please contact us.

【Note】

When the to add a function, there is that the external dimensions changes.

D/#	AHC3-□/□A-□L/Add. Spec.
Model	High-performance Air Blow Heater controller

Date	2022/5/12	Draw	YShimoda
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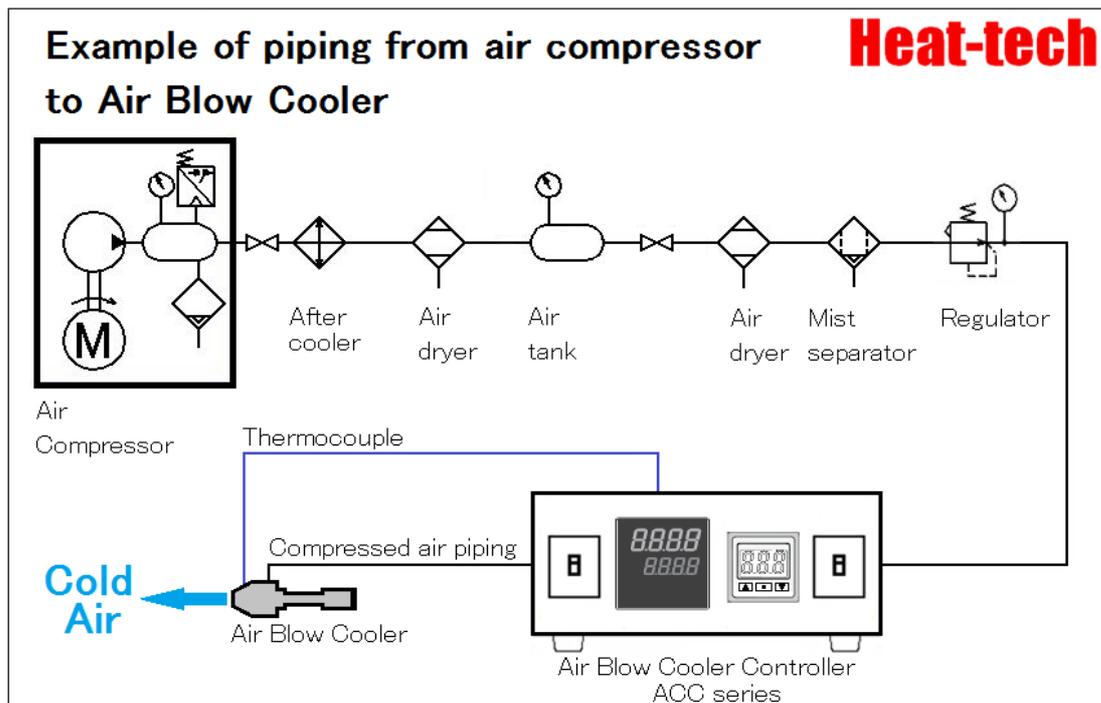
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### 3. Air Blow Cooler controller ACC series



◆ Feature ◆

ACC performs stable cooling control by feedback control using a thermocouple.



[Specifications]

D/#	Features
ACC-0.7MPa-300L	Temperature controller surface mounted
ACCP-0.7MPa-300L	Temperature controller and pressure gauge surface mounted
ACCPFM-0.7MPa-200L	Temperature controller, pressure gauge and flow meter surface mounted
ACCPFM-0.7MPa-300L	Temperature controller, pressure gauge and flow meter surface mounted

Options

D/#	Item and Description
TP	Thermo controller : Pyrometer input
TMR1	Mounting surface.-For one-shot cooling
TMR2	Mounting surface.-For thermal holding time
TMR3	Mounting surface.-cooling time for the predictive maintenance
RC1	Cooling start or stop in the signal from outside
RC2	Specified output voltage in 4-20mA from outside
RSP	Specified thermocontroller temp. in 4-20mA
MON	Monitor, Output 4-20mA signal the temperature of the cooling object.
RS485	RS-485 Communication
IOT	IOT function
TCB	Thermocouple break alarm
AP	Cooling air pressure shortage alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
PM	Pyrometer mounted surface.
FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.
+ α	If user need a function other than the above, please contact us.

[Note] When the to add a function, there is that the external dimensions changes.

## Standard type ACC

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ACC has a separate main power switch and cooler start switch, so user can start cooling after setting the temperature.

And, it is possible to report that the cooling temperature has not been reached as an option. In addition, the jetting temperature can be externally output to 4–20mA as an option.

## Built-in pressure gauge ACC/P

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ACC/P has a separate main power switch and cooler start switch, so user can start cooling after setting the temperature.

And, it is possible to report that the cooling temperature has not been reached as an option. In addition, the jetting temperature can be externally output to 4–20mA as an option.

The ACC/P is equipped with a pressure gauge so that user can visually check the pressure. And, a pressure shortage alarm can be issued.

In addition, the pressure can be externally output to 4–20mA as an option.

## Built-in pressure gauge and flowmeter ACC/P/FM

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ACC/P/FM has a separate main power switch and cooler start switch, so user can start cooling after setting the temperature.

And, it is possible to report that the cooling temperature has not been reached as an option. In addition, the jetting temperature can be externally output to 4–20mA as an option.

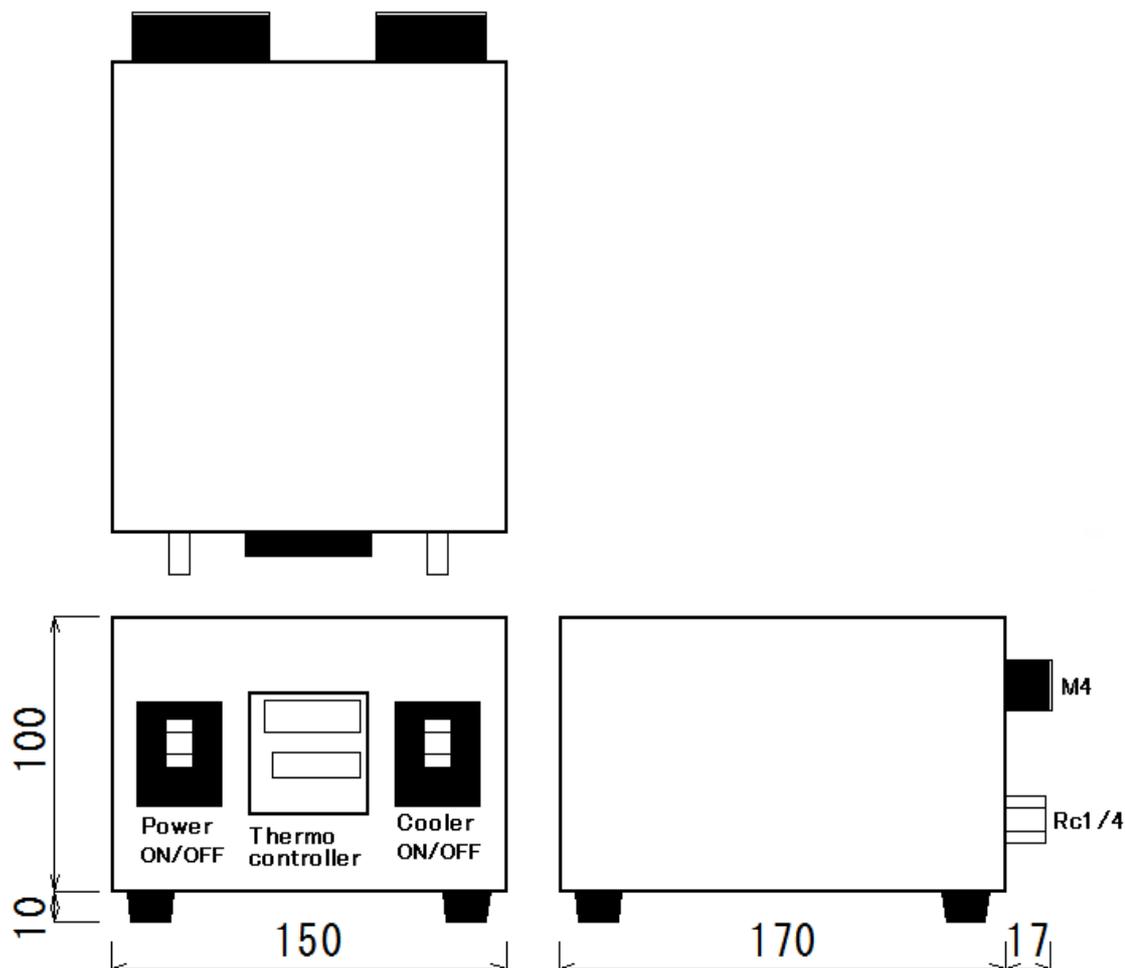
The ACC/P/FM is equipped with a pressure gauge so that user can visually check the pressure. And, a pressure shortage alarm can be issued.

In addition, the pressure can be externally output to 4–20mA as an option.

The ACC/P/FM is equipped with a flow meter to visually check the flow rate.

And, a flow rate shortage alarm can be issued.

In addition, the flow rate can be externally output to 4–20mA as an option.



Options

D/#	Item and Description		
TP	Thermo controller : Pyrometer input		
TMR1	Mounting surface.-For one-shot cooling		
TMR2	Mounting surface.-For thermal holding time		
TMR3	Mounting surface.-cooling time for the predictive maintenance		
RC1	Cooling start or stop in the signal from outside		
RC2	Specified output voltage in 4-20mA from outside		
RSP	Specified thermocontroller temp. in 4-20mA		
MON	Monitor, Output 4-20mA signal the temperature of the cooling object.		
RS485	RS-485 Communication	FPR	Front Protection Rail
IOT	IOT function	RPR	Rear Protection Rail
TCB	Thermocouple break alarm	PM	Pyrometer mounted surface.
AP	Cooling air pressure shortage alarm	FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.		
Power Cable	Manufacture the specification of the power cable.		

If user need a function other than the above, please contact us.

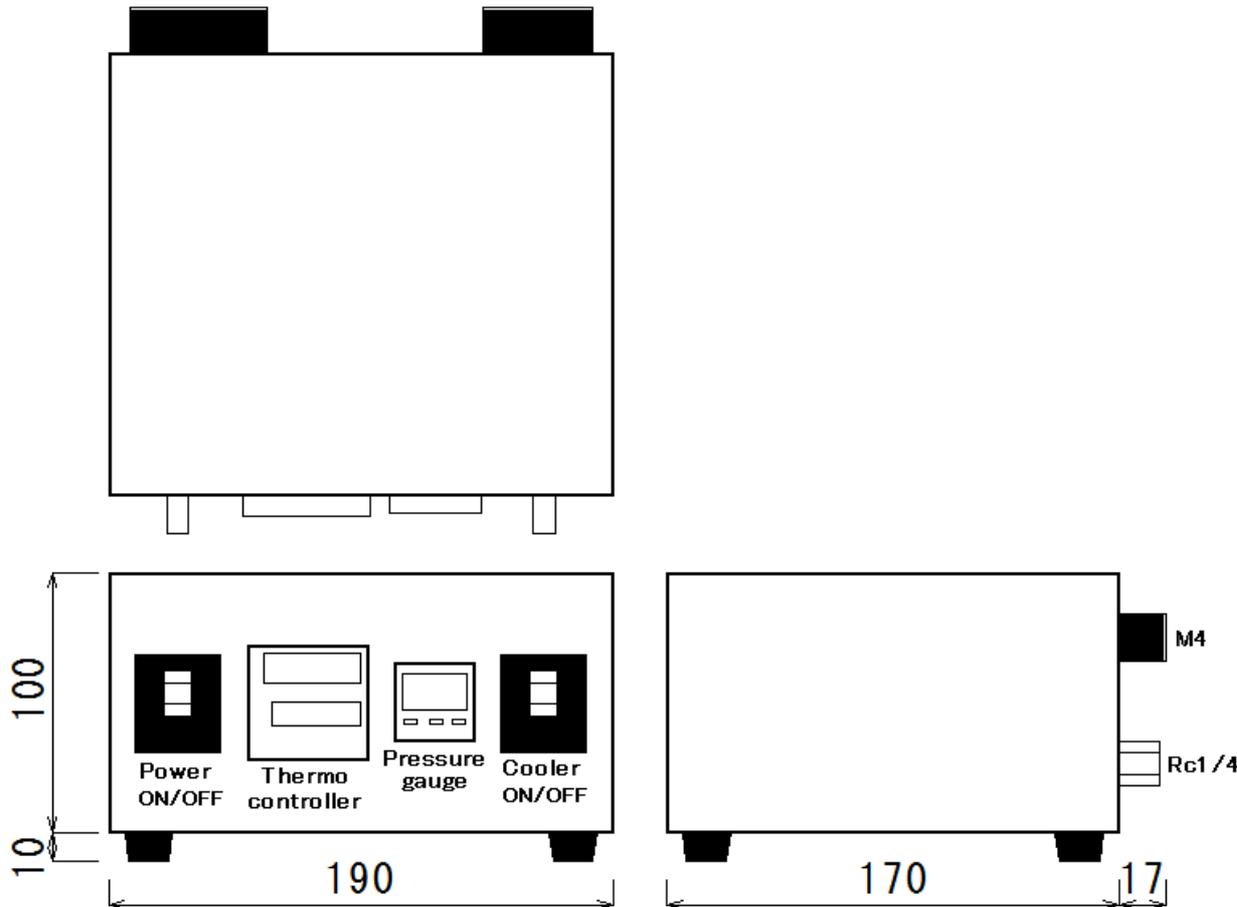
[Note]

When the to add a function, there is that the external dimensions changes.

<b>Control method</b>	<b>Time division PID control</b>
<b>Current temperature measurement</b>	<b>K thermocouple</b>
<b>Power-supply voltage</b>	<b>AC100V~240V</b>
<b>Rated pressure</b>	<b>0.05MPa~0.7MPa</b>
<b>Rated flow rate</b>	<b>300L/min</b>
<b>D/#</b>	<b>ACC-0.7MPa-300L</b>
<b>Model</b>	<b>.Air Blow Cooler controller</b>

Date 2020/5/13 Draw Y.Shimoda

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Options

D/#	Item and Description		
TP	Thermo controller : Pyrometer input		
TMR1	Mounting surface.-For one-shot cooling		
TMR2	Mounting surface.-For thermal holding time		
TMR3	Mounting surface.-cooling time for the predictive maintenance		
RC1	Cooling start or stop in the signal from outside		
RC2	Specified output voltage in 4-20mA from outside		
RSP	Specified thermocontroller temp. in 4-20mA		
MON	Monitor, Output 4-20mA signal the temperature of the cooling object.		
RS485	RS-485 Communication	FPR	Front Protection Rail
IOT	IOT function	RPR	Rear Protection Rail
TCB	Thermocouple break alarm	PM	Pyrometer mounted surface.
AP	Cooling air pressure shortage alarm	FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.		
Power Cable	Manufacture the specification of the power cable.		

If user need a function other than the above, please contact us.

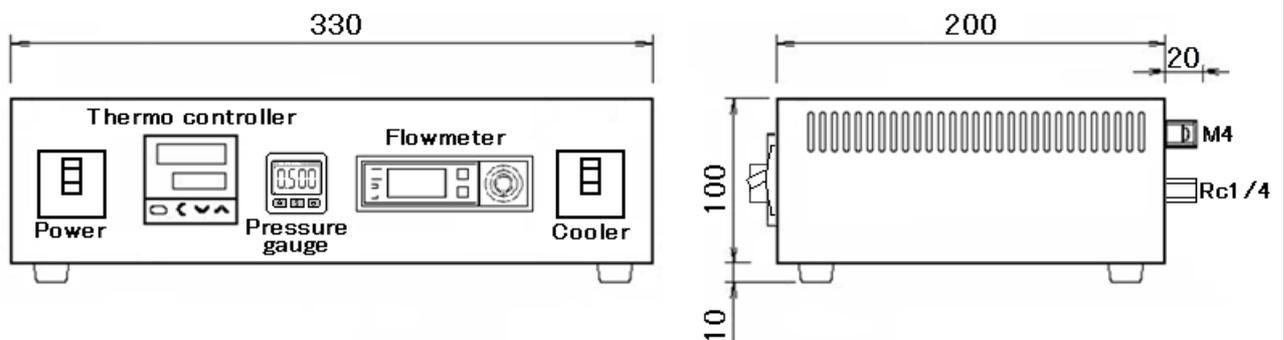
[Note]

When the to add a function, there is that the external dimensions changes.

Control method	Time division PID control
Current temperature measurement	K thermocouple
Power-supply voltage	AC100V~240V
Rated pressure	0.05MPa~0.7MPa
Rated flow rate	300L/min
D/#	ACCP-0.7MPa-300L
Model	.Air Blow Cooler controller

Date	2020/5/13	Draw	Y.Shimoda
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Options

D/#	Item and Description		
TP	Thermo controller : Pyrometer input		
TMR1	Mounting surface.-For one-shot cooling		
TMR2	Mounting surface.-For thermal holding time		
TMR3	Mounting surface.-cooling time for the predictive maintenance		
RC1	Cooling start or stop in the signal from outside		
RC2	Specified output voltage in 4-20mA from outside		
RSP	Specified thermocontroller temp. in 4-20mA		
MON	Monitor, Output 4-20mA signal the temperature of the cooling object.		
RS485	RS-485 Communication	FPR	Front Protection Rail
IOT	IOT function	RPR	Rear Protection Rail
TCB	Thermocouple break alarm	PM	Pyrometer mounted surface.
AP	Cooling air pressure shortage alarm	FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.		
Power Cable	Manufacture the specification of the power cable.		

If user need a function other than the above, please contact us.

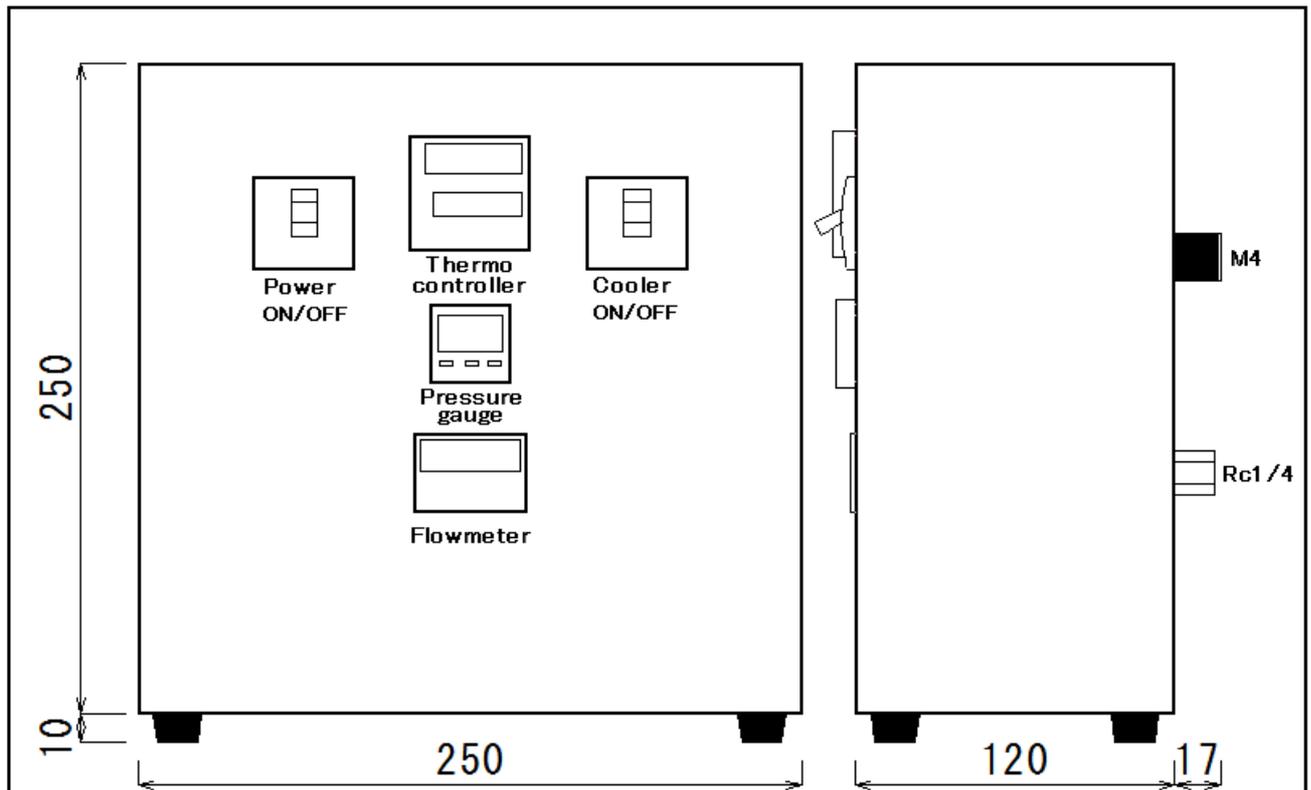
[Note]

When the to add a function, there is that the external dimensions changes.

Control method	Time division PID control
Current temperature measurement	K thermocouple
Power-supply voltage	AC100V~240V
Rated pressure	0.05MPa~0.7MPa
Rated flow rate	300L/min
D/#	ACCPFM-0.7MPa-200L
Model	Air Blow Cooler controller

Date	2020/9/2	Draw	Y.Shimoda
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Options

D/#	Item and Description		
TP	Thermo controller : Pyrometer input		
TMR1	Mounting surface.-For one-shot cooling		
TMR2	Mounting surface.-For thermal holding time		
TMR3	Mounting surface.-cooling time for the predictive maintenance		
RC1	Cooling start or stop in the signal from outside		
RC2	Specified output voltage in 4-20mA from outside		
RSP	Specified thermocontroller temp. in 4-20mA		
MON	Monitor, Output 4-20mA signal the temperature of the cooling object.		
RS485	RS-485 Communication	FPR	Front Protection Rail
IOT	IOT function	RPR	Rear Protection Rail
TCB	Thermocouple break alarm	PM	Pyrometer mounted surface.
AP	Cooling air pressure shortage alarm	FX570	Flexible Stand for Pyrometer
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.		
Power Cable	Manufacture the specification of the power cable.		

If user need a function other than the above, please contact us.

[Note]

When the to add a function, there is that the external dimensions changes.

<b>Control method</b>	<b>Time division PID control</b>
<b>Current temperature measurement</b>	<b>K thermocouple</b>
<b>Power-supply voltage</b>	<b>AC100V~240V</b>
<b>Rated pressure</b>	<b>0.05MPa~0.7MPa</b>
<b>Rated flow rate</b>	<b>300L/min</b>
<b>D/#</b>	<b>ACCPFM-0.7MPa-300L</b>
<b>Model</b>	<b>Air Blow Cooler controller</b>

Date	2020/5/13	Draw	Y.Shimoda
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**Heat-tech Co.,Ltd.**

## 4.Manual halogen heater controller HCV series



Equipped with a dial, user can manually voltage control of the halogen heater.

Color universal design type HCV-CUD / HCVD-CUD

A blue indicator light is used to create a color scheme that is easy for anyone to see.

Please specify additional CUD to the model of your order.

### [Specifications]

D/#	Power Supply	Output	Power supply for
HCV-AC100-240V/DC6V-25A	AC100~240V	DC6V-25A	Without
HCV-AC100-240V/DC12V-25A	AC100~240V	DC12V-25A	Without
HCV-AC100-240V/DC24V-12.5A	AC100~240V	DC24V-12.5A	Without
HCV-AC100-240V/DC36V-12.5A	AC100~240V	DC36V-12.5A	Without
HCV-AC100-240V-25A	AC100~240V	AC100~240V-25A	Without
HCV-AC100-240V-50A	AC100~240V	AC100~240V-50A	Without
HCV-AC100-240V-75A	AC100~240V	AC100~240V-75A	Without
HCV-AC220V/AC100V-25A	AC220V	AC100V-25A	Without
HCV-AC220V/AC120V-25A	AC220V	AC120V-25A	Without
HCVD-AC100-240V/DC12V-25A	AC100~240V	DC12V-25A	DC24V-0.5A
HCVD-AC100-240V/DC24V-12.5A	AC100~240V	DC24V-12.5A	DC24V-0.5A
HCVD-AC100-240V/DC36V-12.5A	AC100~240V	DC36V-12.5A	DC24V-0.5A
HCVD-AC100-240V-25A	AC100~240V	AC100~240V-25A	DC24V-0.5A
HCVD-AC100-240V-50A	AC100~240V	AC100~240V-50A	DC24V-0.5A
HCVD-AC100-240V-75A	AC100~240V	AC100~240V-75A	DC24V-0.5A

### Options

D/#	Item and Description
CUD	Color universal design type blue indicator light
FPR	Front Protection Rail
RPR	Rear Protection Rail
LH	Lifting Handle
Power Cable	Manufacture the specification of the power cable.

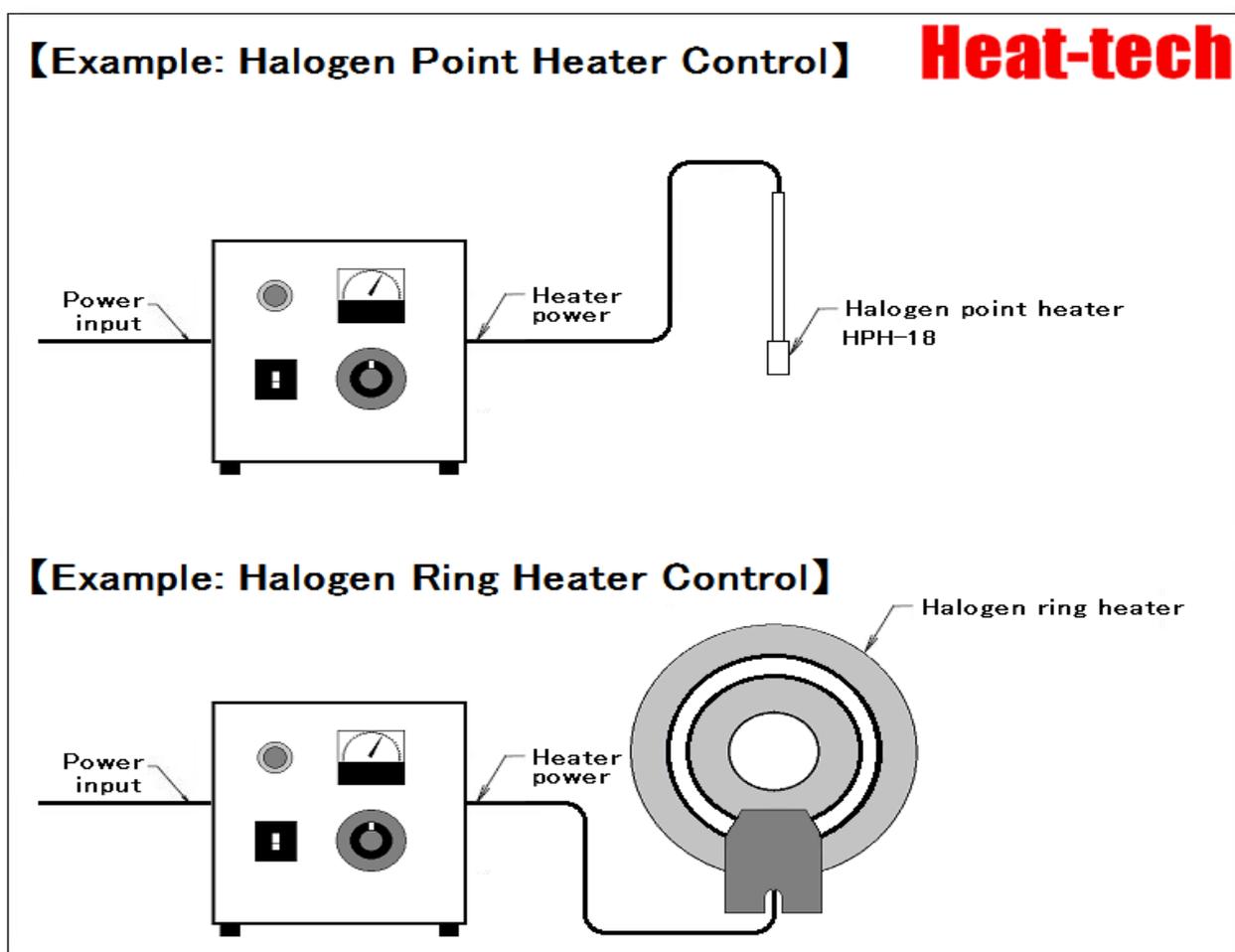


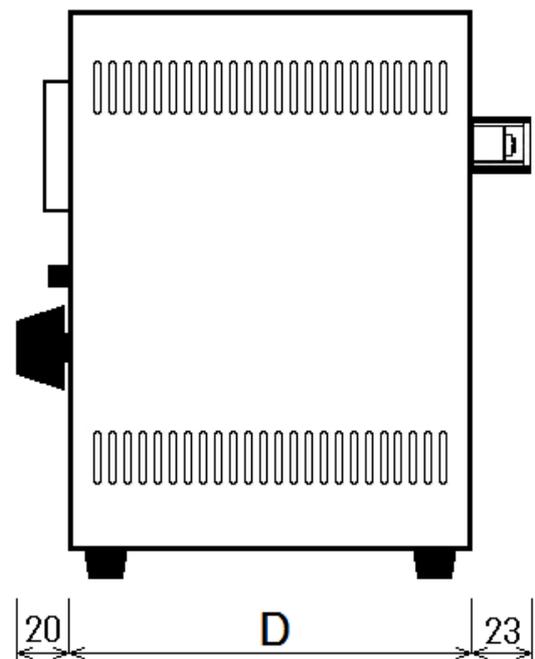
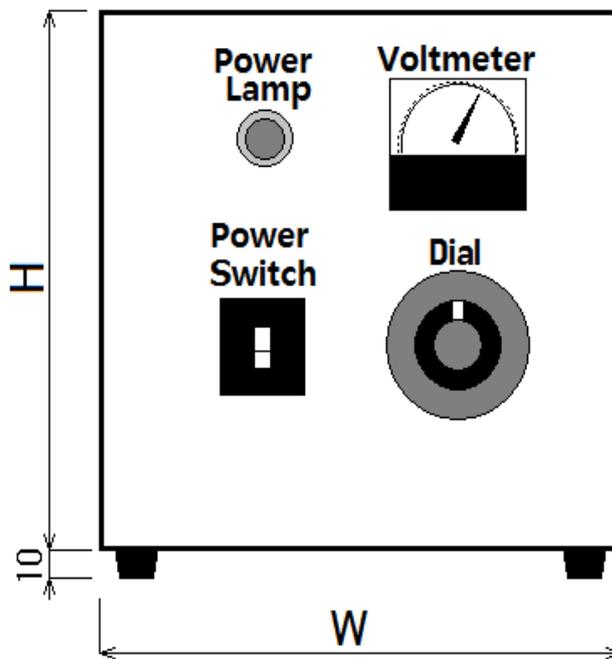
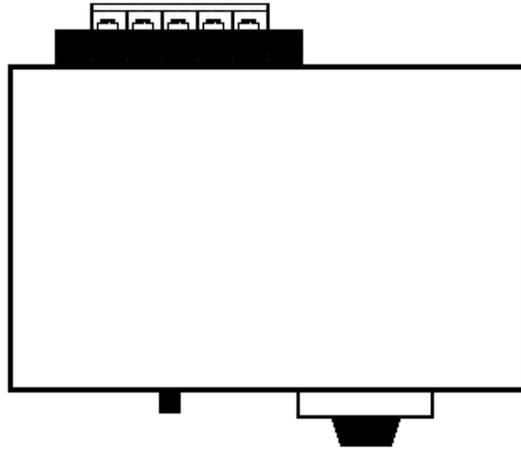
【 Options Front Protection Rail · Rear Protection Rail · Lifting Handle 】

#### 4-1. Standard type HCV



Equipped with a dial, user can manually voltage control of the halogen heater.





Input (V)	AC100V-240V						AC220V		
Output (V)	DC6V	DC12V	DC24V	DC36V	AC100V-240V			AC100V	AC120V
Output (A)	25A	25A	12.5A	12.5A	25A	50A	75A	25A	25A
Height (H)	250								
Width (W)	250								
Depth (D)	120								
D/#	HCV-Input(V) / (Output (V)-Output (A)								
Model	Manual Power Controller for Halogen Heater								

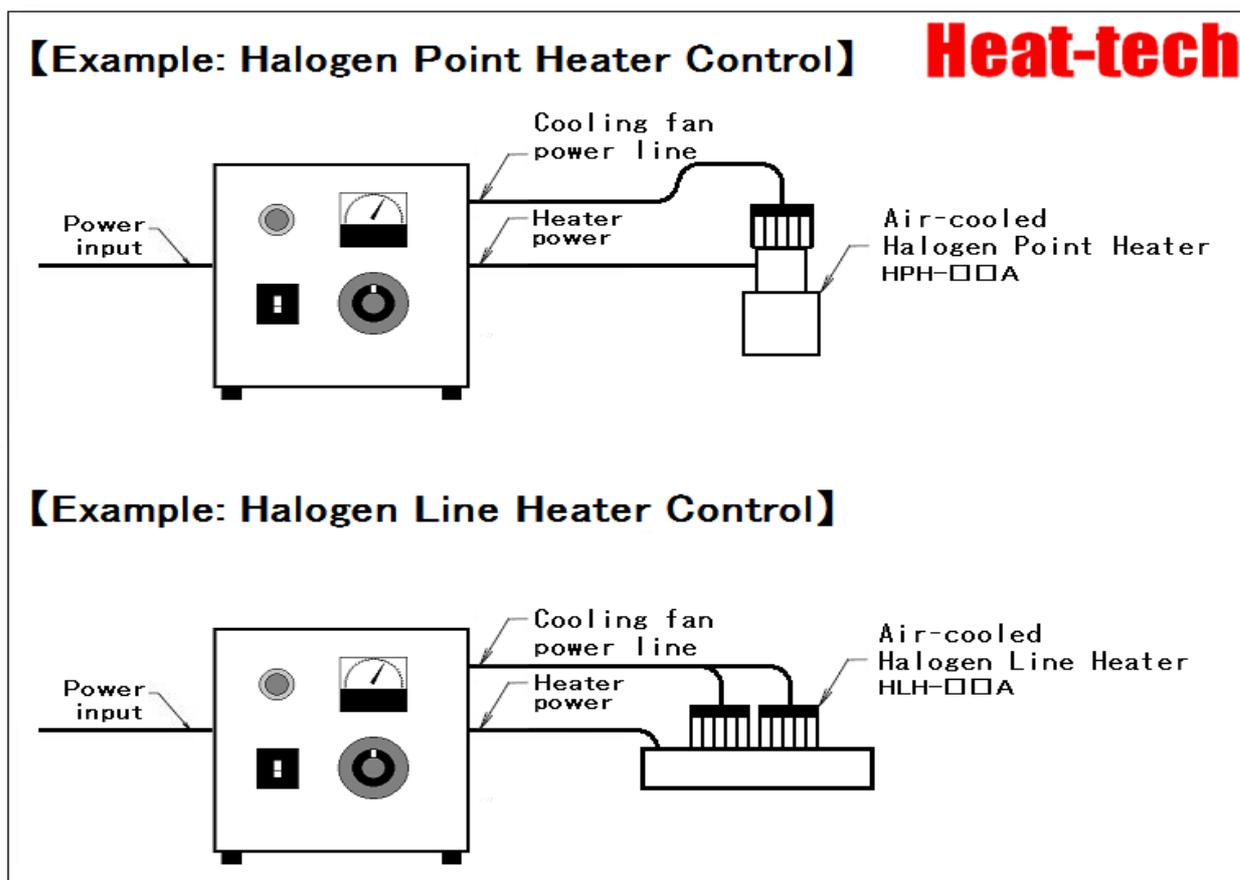
Date  
2023.8.25

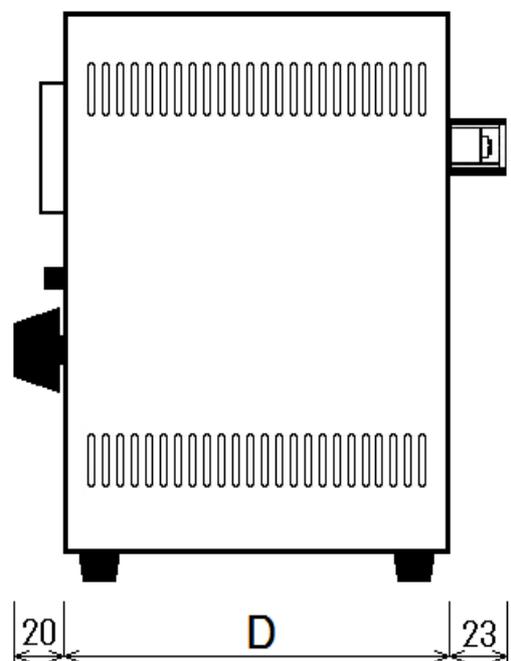
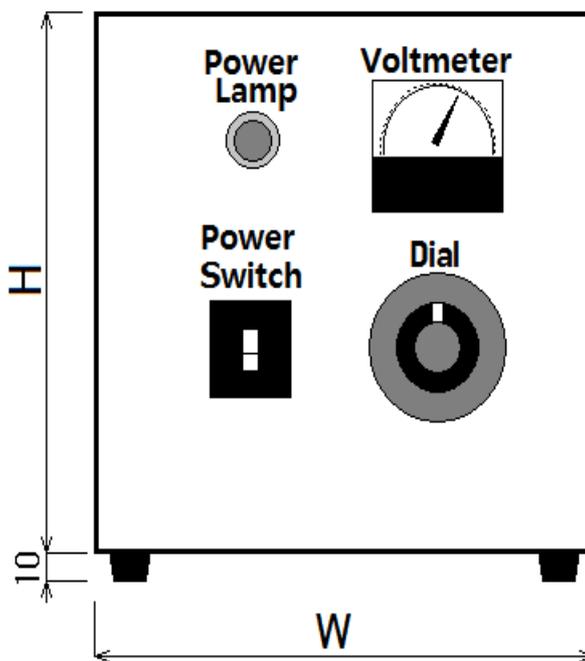
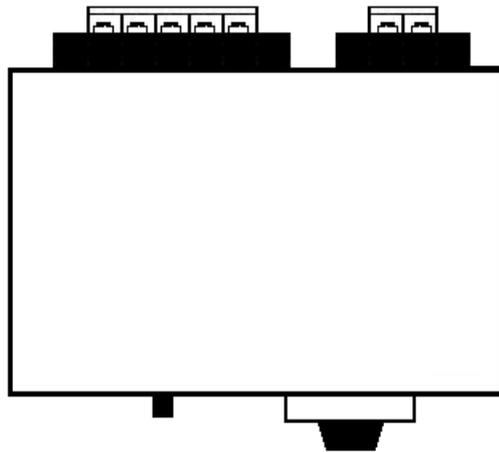
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#### 4-2.DC power supply built-in for air cooling type HCVD



Equipped with a dial and DC power supply for the air cooling fan, user can manually voltage control of the air-cooled halogen heater.





Input (V)	AC100V-240V					
Output (V)	DC12V	DC24V	DC36V	AC100V-240V		
Output (A)	25A	12.5A	12.5A	25A	50A	75A
DC Power	DC24V 0.5A					
Height (H)	250					
Width (W)	250					
Depth (D)	120					
D/#	HCVD-Input(V) / (Output (V)-Output (A)					
Model	DC power supply built-in for air cooling Manual Power Controller for Halogen Heater					

Date  
2023.8.25

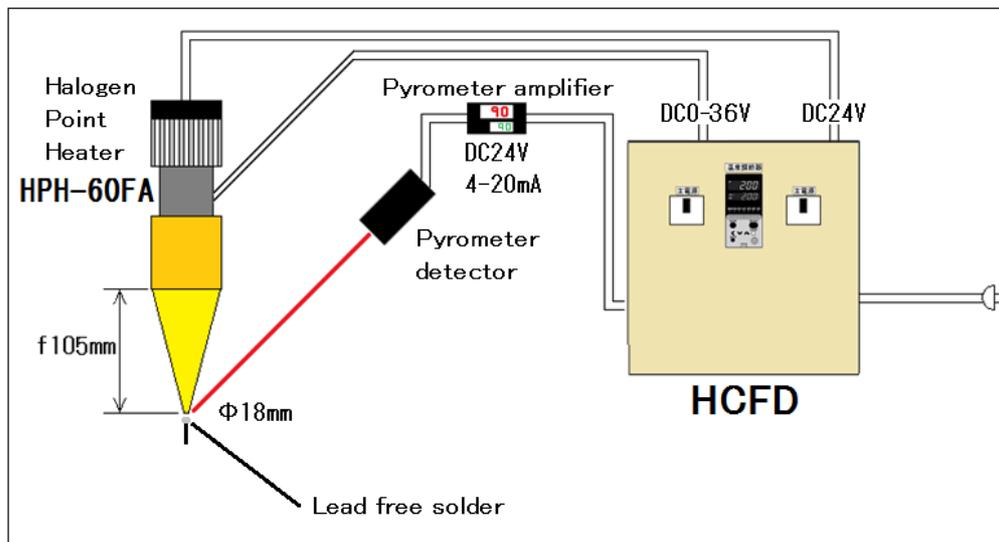
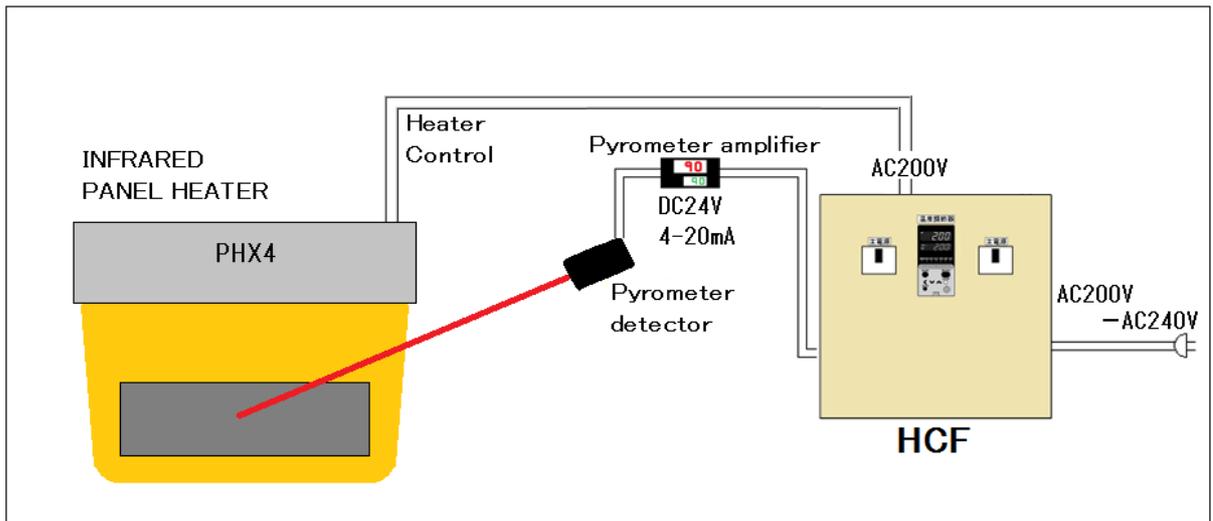
**Heat-tech**

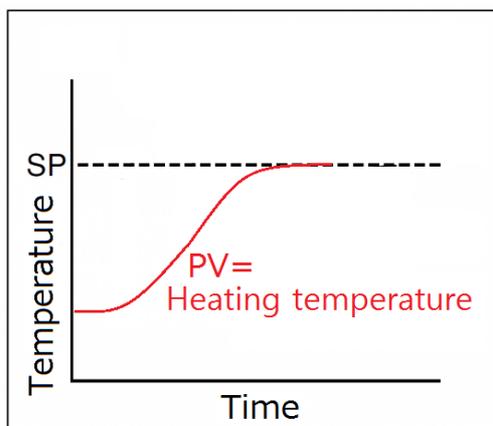
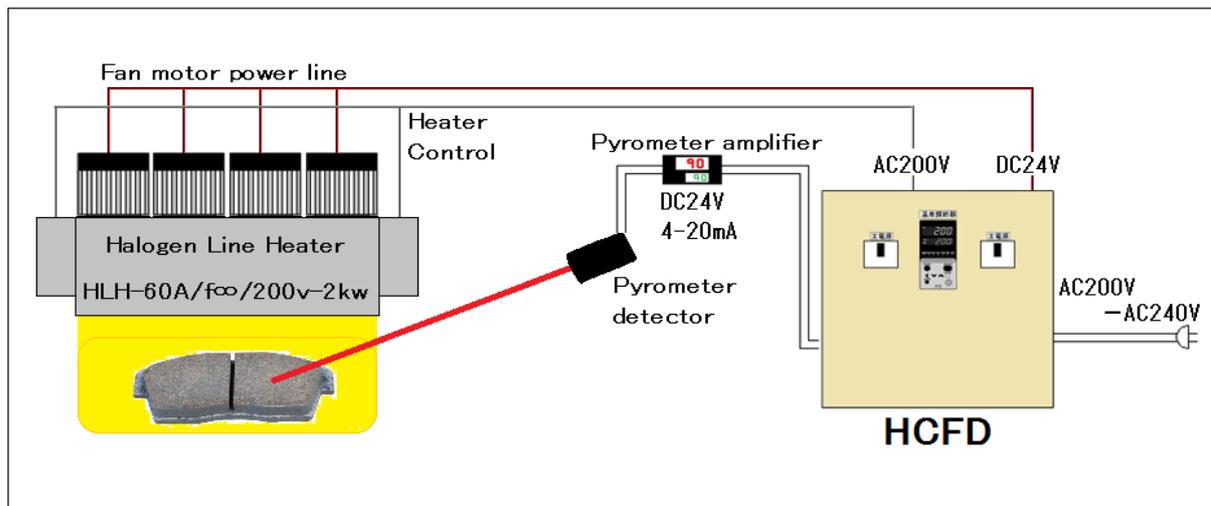
5.Heater controller feedback type for Pyrometer ( Radiation thermometer ) HCF series



◆ Feature ◆

- 1 Feedback control can be performed using a radiation thermometer.
- 2 By overheating zero setting, providing a stable heating.
- 3 Equipped with an air-cooling fan power supply as an option, it allows feedback control of an air-cooled halogen heater.
- 4 By installing the front protection rail, the rear protection rail, and the handle as optional, it becomes the field specification.
- 5 If user need more sophisticated control, we recommend a high-end model "High-performance heater controller HHC2".





By overheating zero setting, providing a stable heating.

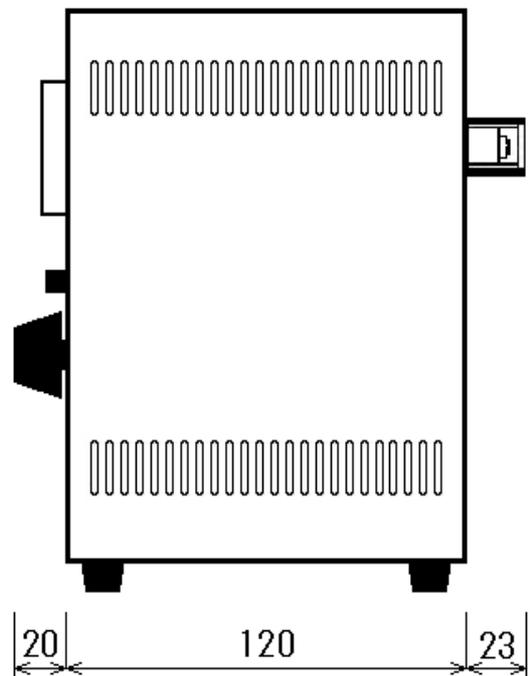
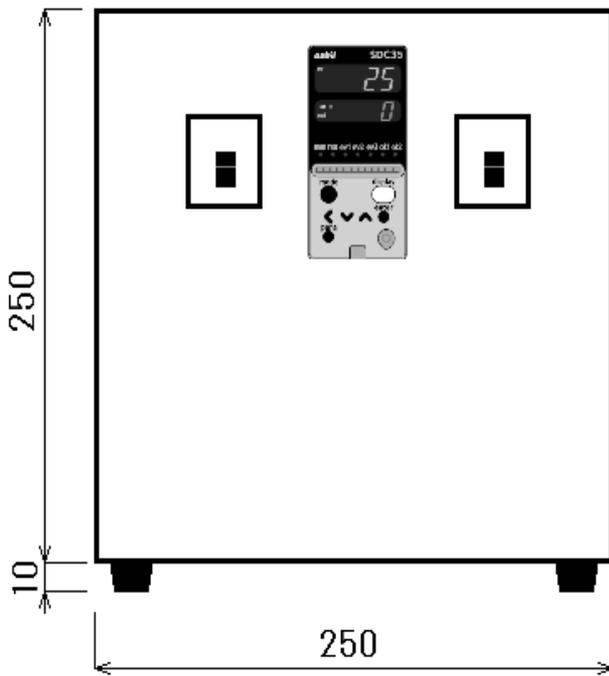
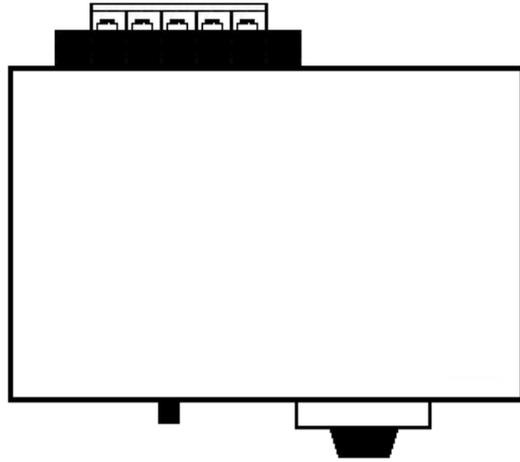
D/#	Input Power	Output	Power supply for cooling fan
HCF-AC100-240V/DC6V-150W	AC100~240V	DC6V-150W	With-out
HCF-AC100-240V/DC12V-300W	AC100~240V	DC12V-300W	With-out
HCF-AC100-240V/DC24V-300W	AC100~240V	DC24V-300W	With-out
HCF-AC100-240V/DC36V-600W	AC100~240V	DC36V-600W	With-out
HCF-AC100-240V-30A	AC100~240V	AC3KW/6KW	With-out
HCF-AC220V/AC120V-3KW	AC220V	AC120V-3KW	With-out
HCFD-AC100-200V/DC12V-300W	AC100~240V	DC6V-150W	DC24V-0.5A
HCFD-AC100-200V/DC24V-300W	AC100~240V	DC12V-300W	DC24V-0.5A
HCFD-AC100-200V/DC36V-600W	AC100~240V	DC24V-300W	DC24V-0.5A
HCFD-AC100-240V-30A	AC100~240V	DC36V-600W	DC24V-0.5A
HCFD-AC100V/AC100V-2.5KW	AC100~240V	AC3KW/6KW	DC24V-0.5A

#### Options

D/#	Item and Description
FPR	Front Protection Rail
RPR	Rear Protection Rail
LH	Lifting Handle
TC	Thermo couple input
BO	Heater burnout detection
RC1	Heating start or stop in the signal from outside
Pyrometer 0-500°C type	Output 4-20mA as 0-500°C.
Pyrometer 0-1350°C type	Output 4-20mA as 0-1350°C.
Power Cable	Manufacture the specification of the power cable.

For high-performance control, Please select the high-end model "High-performance heater controller HHC2".

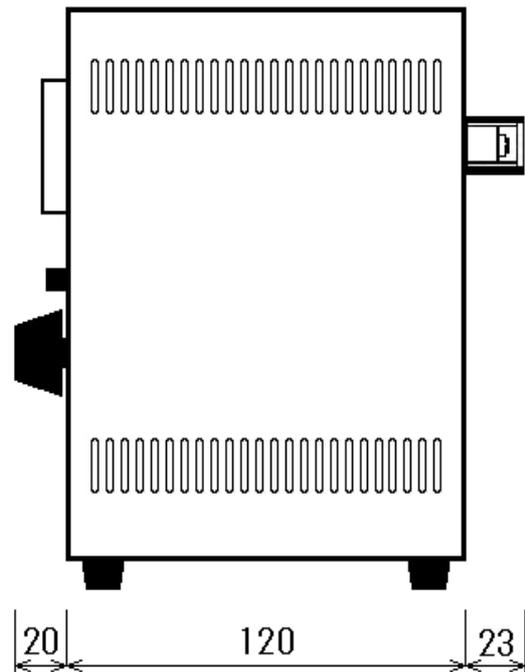
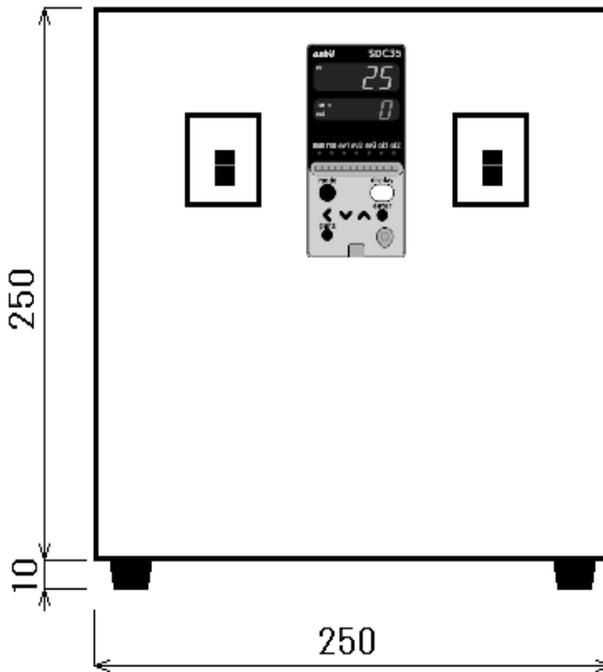
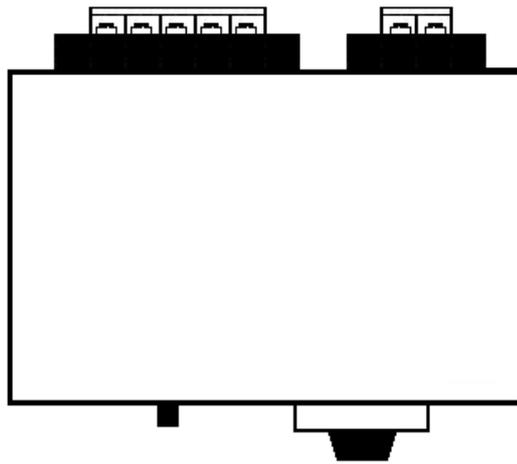
[Note] When the to add a function, there is that the external dimensions changes.



Input (V)	AC100V-240V					AC220V
Output (V)	DC6V	DC12V	DC24V	DC36V	AC100V-240V	AC120V
Output (W)	150W	300W	300W	600W	30A	3KW
D/#	HCF-Input(V) / (Output (V)-Output (W))					
Model	Heater controller feedback type for Pyrometer					

Date 2020/3/27

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Input (V)	AC200V-240V			
Output (V)	DC12V	DC24V	DC36V	AC100V-240V
Output (W)	300W	300W	600W	30A
DC Power	DC24V 0.5A			
D/#	HCF-Input(V) / (Output (V)-Output (W)			
Model	DC power supply built-in for air cooling Heater controller feedback type for Pyrometer			

Date 2020/3/27

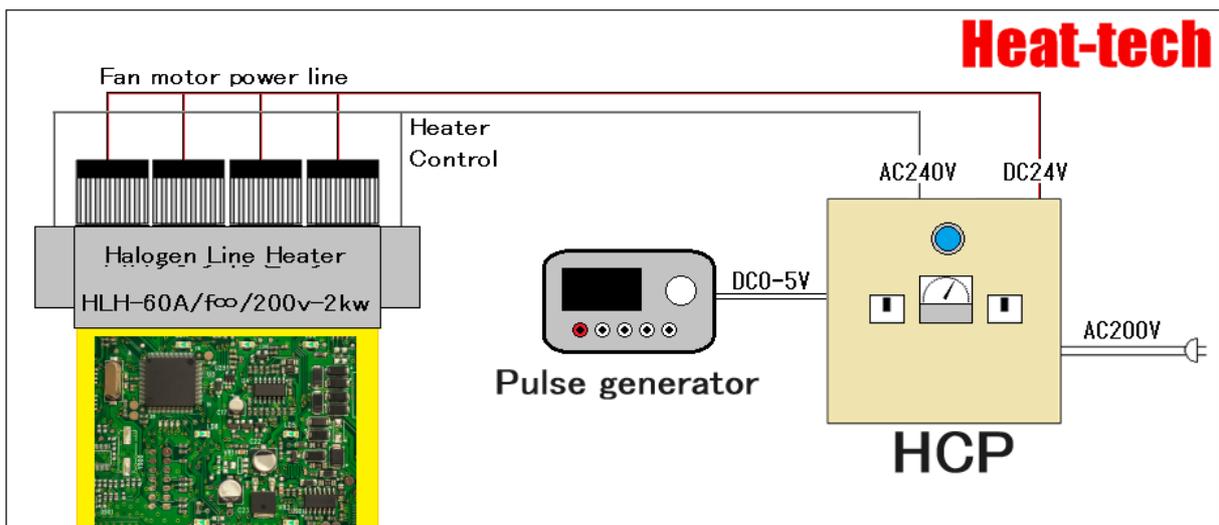
**Heat-tech**

## 6. Pulse input heater controller for halogen heater HCP series



### ◆ Feature ◆

- 1 It can flash the halogen heater with a 0–5V pulse.  
Lock-in infrared exothermic analysis – can be used for lock-in thermography methods.
- 2 Sine curve irradiation of a halogen heater can be performed with a voltage of 0–5V.



By changing the applied frequency, it is possible to limit the region of the heat generating location. By changing the applied voltage, the heat generation state can also be changed. With low cycle application, there is a large temperature change and a large area is visible. With high cycle applications, it can be limited to small areas.

[Caution] Pulse flashing heating will shorten the life of the halogen heater.

**Model list**

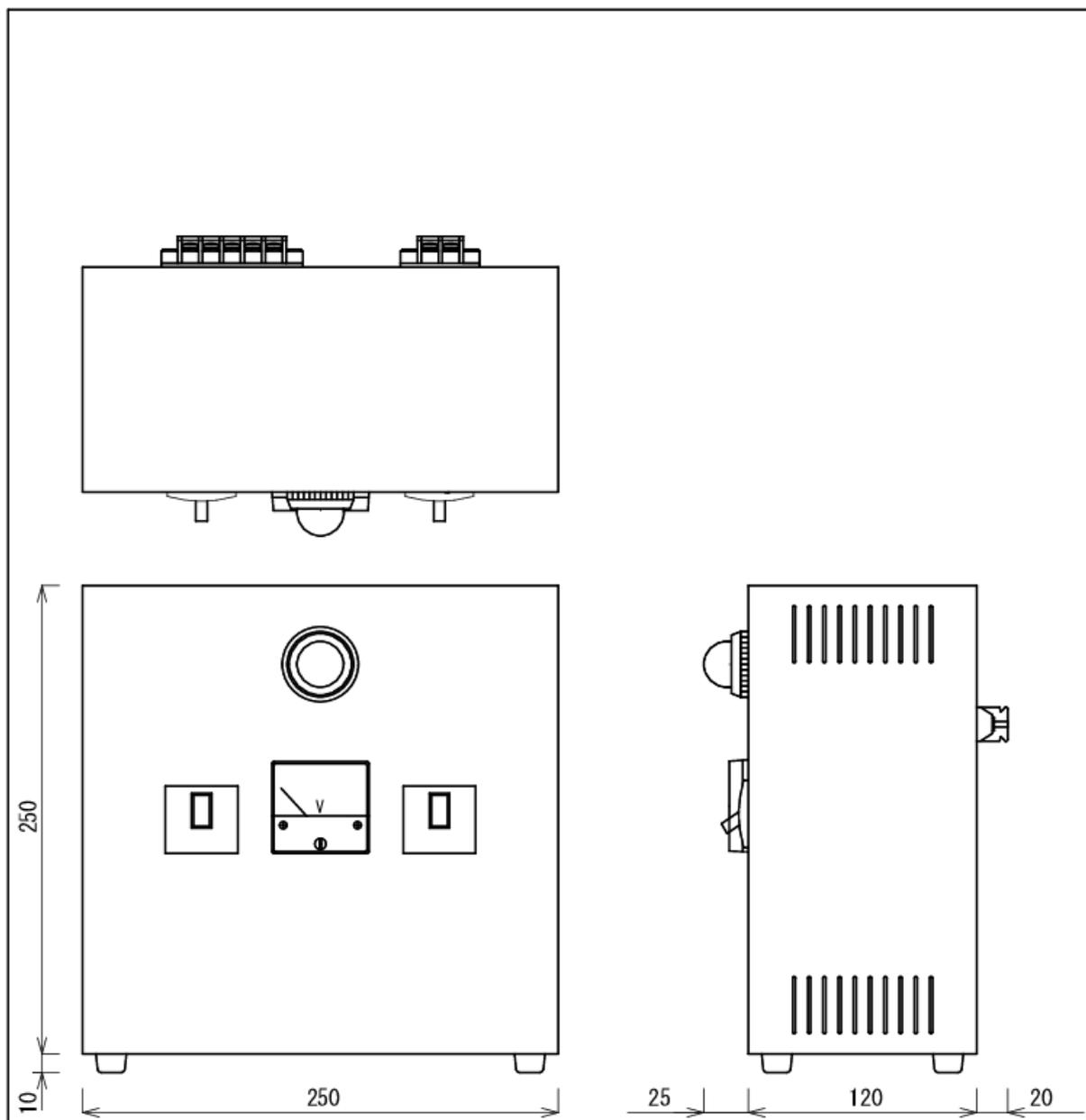
D/#	Input Power	Output	Power supply for cooling fan
HCP-AC100-240V/DC12V-300W	AC100~240V	DC12V-300W	With-out
HCP-AC100-240V/DC24V-300W	AC100~240V	DC24V-300W	With-out
HCP-AC100-240V/DC36V-600W	AC100~240V	DC36V-600W	With-out
HCP-AC220V/AC100V-2.5KW	AC220V	AC100V-2.5KW	With-out
HCP-AC220V/AC200V-5KW	AC220V	AC200V-5KW	With-out
HCPD-AC100-200V/DC12V-300W	AC100~240V	DC12V-300W	DC24V-0.5A
HCPD-AC100-200V/DC24V-300W	AC100~240V	DC24V-300W	DC24V-0.5A
HCPD-AC100-200V/DC36V-600W	AC100~240V	DC36V-600W	DC24V-0.5A
HCPD-AC220V/AC100V-2.5KW	AC220V	AC100V-2.5KW	DC24V-0.5A
HCPD-AC220V/AC200V-5KW	AC220V	AC200V-5KW	DC24V-0.5A

**Additional specifications**

D/#	Item and Description
FPR	Front Protection Rail
RPR	Rear Protection Rail
Power Cable	Manufacture the specification of the power cable.

For high-performance control, Please select the high-end model "High-performance heater controller HHC2".

[Note] When the to add a function, there is that the external dimensions changes.



Basic	HCP				HCPD					
Power supply for cooling fan	With-out				DC24V-0.5A					
Input	AC100V-240V		AC220V		AC100V-240V		AC220V			
Output	DC12V	DC24V	DC36V	AC100V	AC200V	DC12V	DC24V	DC36V	AC100V	AC200V
Power	300W	600W	2.5kW	5kW	300W	600W	2.5kW	5kW		
Control signal	DC0-5V									
D/#	HCP-(Input)/(Output)/Option									
Model	Pulse input heater controller for halogen heaters									

Data	Drwing Number
2024. 03. 04	HCP-E1

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

## 6.Speed proportional heater controller HCS series



**HCS**



**HCS/SM**



**HCS/PM**



**HCS/SMPM**

- 1 User can specify the option CUD for Color Universal Design type.  
A blue indicator light is used, and the color scheme is easy for anyone to see.
- 2 The rotary encoder is used to control the heating temperature proportional to the speed of the belt conveyor or line. When the line stops, so does the heater.
- 3 HCSS can be heated only when there is a work in synchronization with the photoelectric switch.
- 4 HCSS saves energy because it stops heating when there is no work.
- 5 HCSS / SM can measure the temperature of only the object to be heated in synchronization with the photoelectric switch.
- 6 By attaching the front protection rail, back protection rail, and handle as options, it becomes a site movement specification.

### Model configuration

Basic model	Synchronous	Control	Power supply	Control current	Additional function	Contents
HCS	Nothing					Nothing
		S				Sensor synchronization function
	Nothing					Nothing
		F				Feedback control using a temperature controller and a radiation thermometer
				AC100~240V		Power supply voltage AC100-240V
				30A		Control current 30A
				60A		Control current 60A
				80A		Control current 80A
				100A		Control current 100A
					Nothing	Nothing
					CUD	Color universal design type blue indicator light
					SM	Mounted on the surface of the speedometer
					PM	Mounted on the surface of the radiation thermometer
					DC24	24V DC power supply for cooling fan
					BO	Heater disconnection alarm
				RC1	Remote control: Start / stop heating by external signal	
				RC2	Remote control: Control the output voltage with an external 4 to 20mA signal	
				RC3	Remote control: Set the target temperature with an external 4 to 20 mA signal	
				MONT	Temperature monitor output 4-20 mA signal	
				MONS	Speed monitor output 4-20 mA signal	
				FPR	Front protection rail	
				RPR	Rear protection rail	

### [Optional product]

Rotary encoder incremental type 100 pulse / rotation
Photoelectric switch for synchronization
Radiation thermometer 0-500°C type
Radiation thermometer 0-1350°C type
Power cable We will manufacture the specified power cable.
Flexible stand for radiation thermometer

## 6-1. Standard type HCS

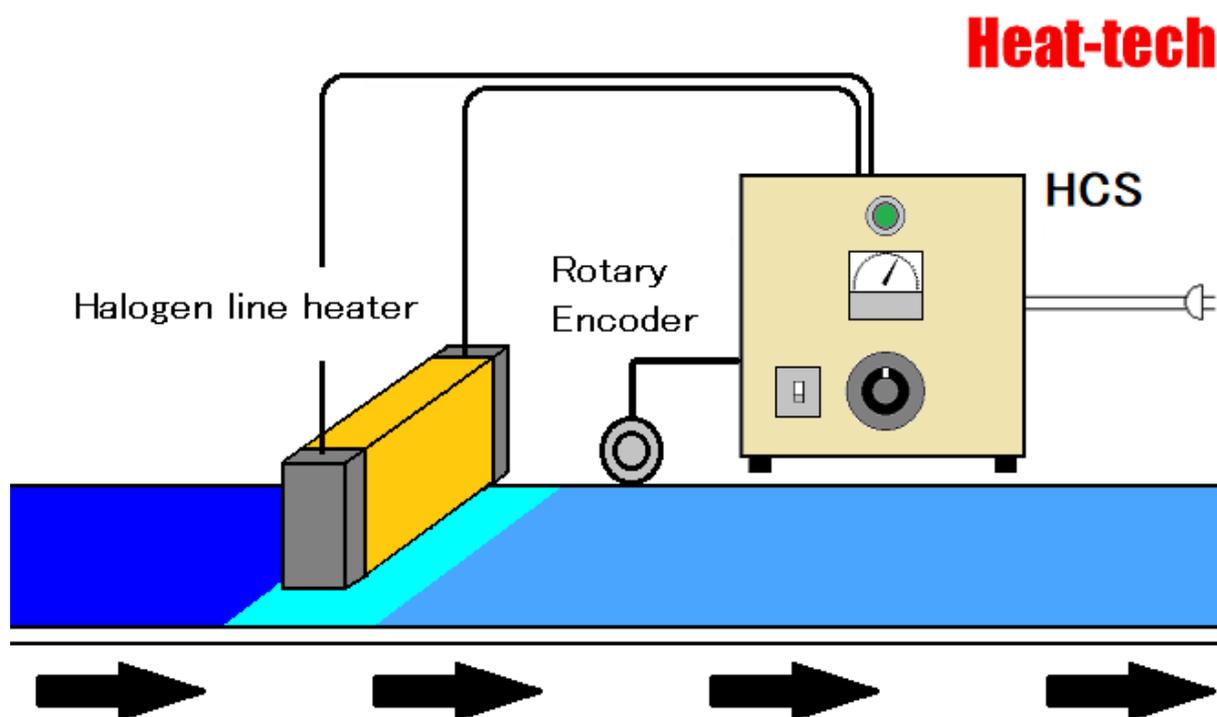


The rotary encoder is used to control the heating temperature proportional to the speed of the belt conveyor or line.

The heater output is increased when the line speed is increased, and the heater output is decreased when the line speed is decreased.

When the line stops, so does the heater.

Fine adjustment is made with the dial mounted on the surface.



6-2. Sensor synchronization type HCSS

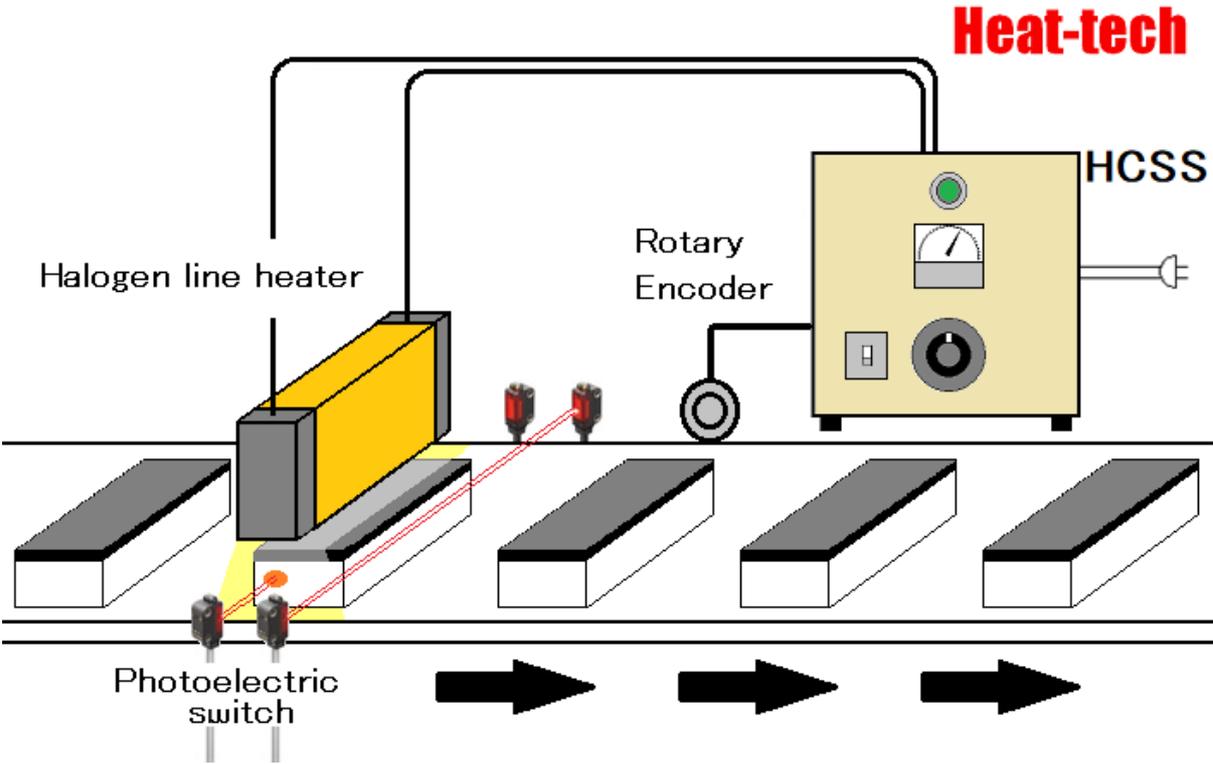


The rotary encoder is used to control the heating temperature proportional to the speed of the belt conveyor or line.

The heater output is increased when the line speed is increased, and the heater output is decreased when the line speed is decreased.

In synchronization with the photoelectric switch, heating is performed only when there is a work.

Fine adjustment is made with the dial mounted on the surface.

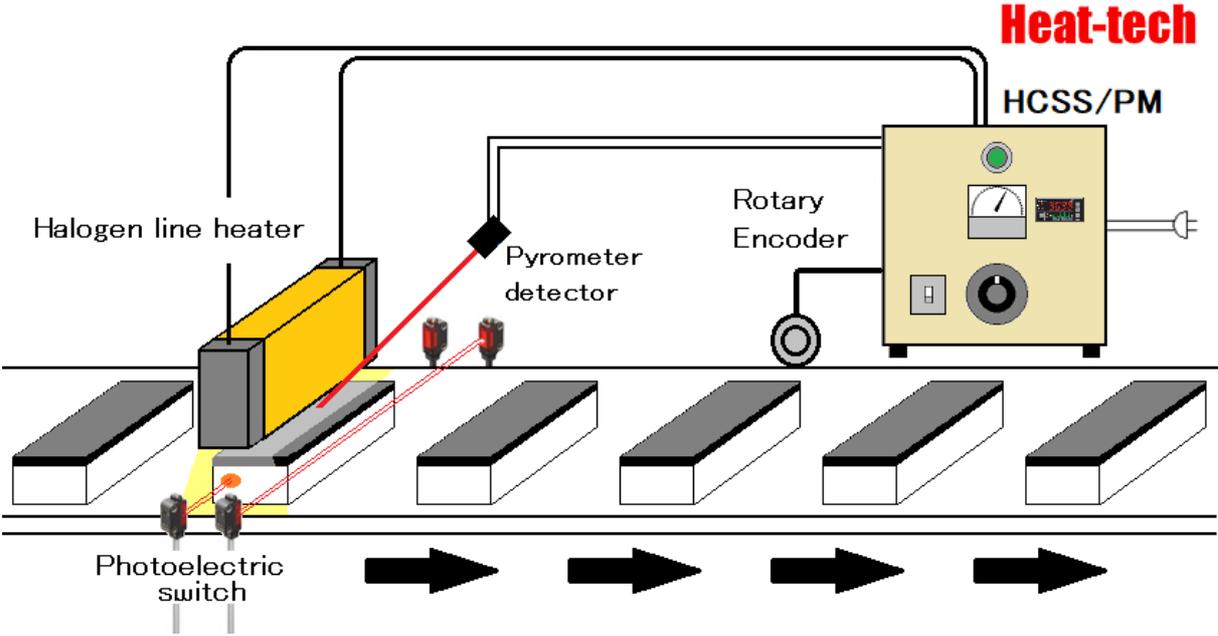


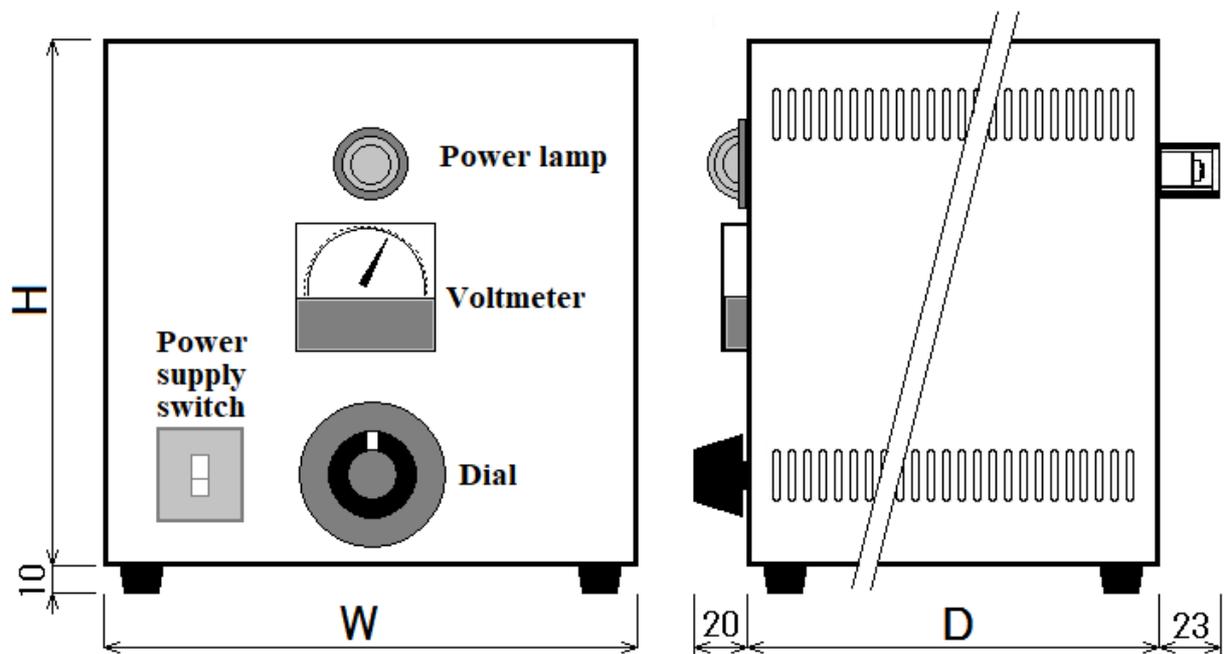
6-3. Radiation thermometer measurement type HCSS/PM



HCS/PM  
HCSS/PM

The heater output is increased when the line speed is increased, and the heater output is decreased when the line speed is decreased.  
In synchronization with the photoelectric switch, heating is performed only when there is a work.  
At the same time, the surface temperature of the work is measured with a radiation thermometer.  
Fine adjustment is made with the dial mounted on the surface.





Basic model	Synchronous	Control	Power supply	Control current	Additional function	Contents
HCS						
	Nothing					Nothing
	S					Sensor synchronization function
		Nothing				Nothing
		F				Feedback control using a temperature controller and a radiation thermometer
			AC100~240V			Power supply voltage AC100-240V
				30A		Control current 30A
				60A		Control current 60A
				80A		Control current 80A
				100A		Control current 100A
					Nothing	Nothing
					CUD	Color universal design type blue indicator light
					SM	Mounted on the surface of the speedometer
					PM	Mounted on the surface of the radiation thermometer
					DC24	24V DC power supply for cooling fan
					BO	Heater disconnection alarm
					RC1	Remote control: Start / stop heating by external signal
					RC2	Remote control: Control the output voltage with an external 4 to 20mA signal
					RC3	Remote control: Set the target temperature with an external 4 to 20 mA signal
					MONT	Temperature monitor output 4-20 mA signal
					MONS	Speed monitor output 4-20 mA signal
					FPR	Front protection rail
					RPR	Rear protection rail

Power-supply voltage	AC100V-240V
Control current	30A· 60A· 80A· 100A
External dimensions	Height (H)250 x Width(W)250 x Depth(D)250
D/#	<b>HCS□□-AC100V~240V-(Current)/(Addition)</b>
Model	<b>Speed proportional heater controller</b>
Date 2022.3.29	<b>Heat-tech</b>

## 7.High-performance heater controller HHC2 series

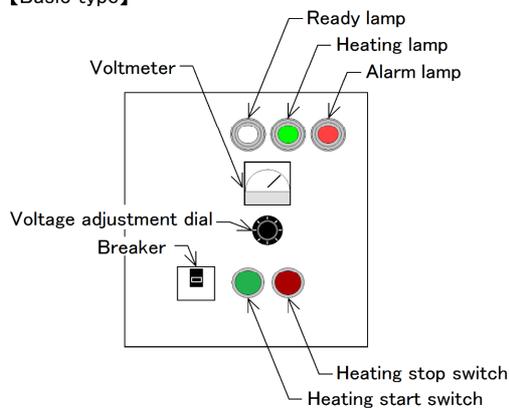


### 【Feature】

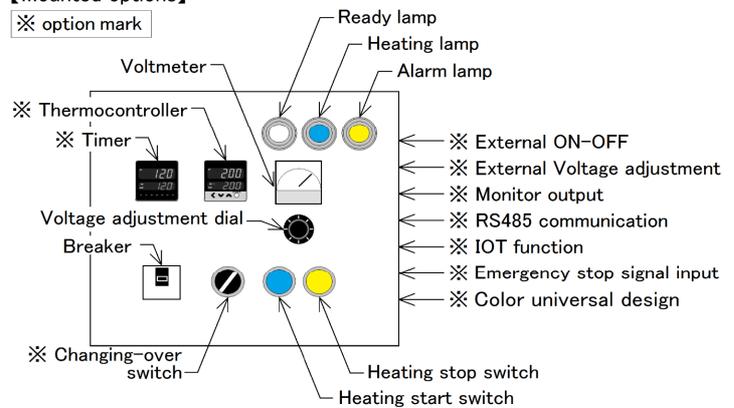
HHC 2 is a heater controller that combines options with basic functions and is customized for use.

- Color universal design type can be specified CUD as an option.  
White, blue and yellow indicator lights, Blue and Yellow operation buttons.  
The color scheme is easy for anyone to see.
- “HHC2” has the ability to manually control the ON-OFF of the power, voltage.  
Current limit, slow-up, over-current breaker of voltage and so on,  
It incorporates enough safety equipment necessary to the halogen heater.
- Thermocontroller on-board of the option selected, there is a thermocouple specification or a radiation thermometer specification.
- In option selected, user can control of ON-OFF and the voltage is possible with the outside signal.
- The IOT-function of the option selected, user can confirm data such as, the set temperature, heating temperature, operation time, operation number of times, heater
- Using a duplication sensor of the optional selected, a over temperature alarm management is possible.
- Using a one-shot timer of the optional selected, an precision heating examination is possible.

### 【Basic type】



### 【Mounted options】



D/#	Supply voltage	Heater voltage	Control current
HHC2-12v-25A	AC100-240v	DC12v	25A
HHC2-24v-13A	AC100-240v	DC24v	13A
HHC2-36v-15A	AC100-240v	DC36v	15A
HHC2-36v-28A	AC100-240v	DC36v	28A
HHC2-120V-25A	AC200-240v	AC120v	25A
HHC2-100v/240v-15A	AC100-240v	AC100-240v	15A
HHC2-100v/240v-30A	AC100-240v	AC100-240v	30A
HHC2-100v/240v-60A	AC100-240v	AC100-240v	60A

#### 【Standard Function】

Power-supply voltage	AC100V~240V 50/60Hz
DC Control current	12v-300w / 24v-300w / 36v-500w / 36v-1kw
AC Control current	15A / 30A / 60A
Analog voltmeter	The output voltage of Halogen Heater is indicated by the analog meter.
Manual ON-OFF	Output ON-OFF by switch of the panel.
Manual adjustment	Adjustable voltage from 0 to 98% by 4-20mA signal from Remote.
AC power soft-start	At startup, the inrush current is controlled by increasing the voltage slowly.
Overcurrent protect	The power semiconductor device is protected from the excessive current.
Burnout detect	With heater burnout detection and display. AC output type limited installed.
Usage environment	Temperature 0 ~ 45 °C Humidity 10% to 95% (non-condensing)
External dimensions	Width 300 x height 300 x depth 300 mm

#### 【Options】

Abbreviation	Contents
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
TC	Thermo controller : Thermo couple input
TP	Thermo controller : Pyrometer input
PM	The Pyrometer and mounted surface.
SV	Supervisor function for Over-heat protect or Target-heating
HL	High-Low Control for rapid-heating or preheating
TMR1	Mounting surface.-For one-shot heating
TMR2	Mounting surface.-For thermal holding time
TMR3	Mounting surface.-Heating time for the predictive maintenance
BZ	The buzzer sounds after the time is up.
RC1	Heating start or stop in the signal from outside
RC2	Specified output voltage in 4-20mA from outside
RSP	Specified thermocontroller temp. in 4-20mA
MON	Output in 4-20mA present temp. to the outside
RS485	RS-485 Communication
IOT	IOT function
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
WP	Cooling water pressure shortage alarm
AP	Air Blow Heater and terminal cooling air pressure shortage alarm
DC24	DC24V power supply cooling fan
CFS	Cooling fan stop detection signal processing
FPR	Front Protection Rail
RPR	Rear Protection Rail
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

※ If user need a function other than the above, please contact us.

[Note] When the to add a function, there is that the external dimensions changes.

## 8. Stepset Controller Profile-maker SSC series



- ◆ Heating data can be taken out easily from a memory card slot in the panel surface.

- ◆ Memory card data folder function

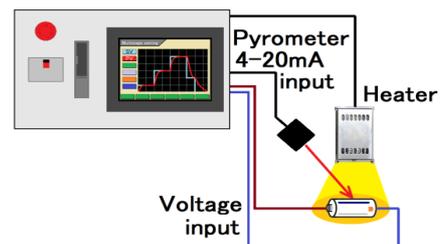


- ◆ Multistep setting can be done easily by a touch panel display.

- ◆ Multistage setting function

- ◆ Gradient setting function

- ◆ Sine curve setting function



- ◆ By setting the heating temperature and time, this can precise heating test.

- ◆ One-Shot heating function

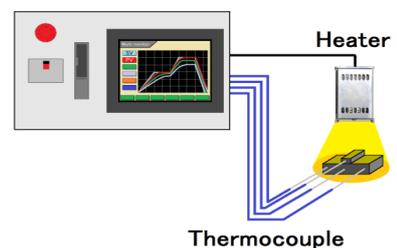
- ◆ Trigger Shift function (optional)

- ◆ From multiple sensors, can be heating test by setting any of the input to the reference temperature.

- ◆ Multi-monitor function

- ◆ Reference temperature input selection function

- ◆ Average value control function



- ◆ Multi-loop supervisor function built-in. That can cooperative control several heaters.

- ◆ 2 heater coordination heating function (2-loop)

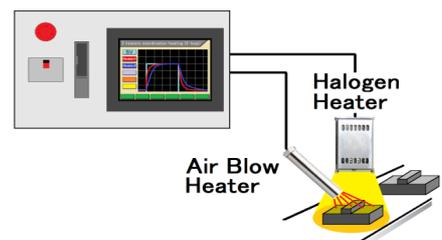
- ◆ 2 heater independent heating function (2-loop)

- ◆ 3 heater coordination heating function (3-loop)

- ◆ 3 heater independent heating function (3-loop)

- ◆ 4 heater coordination heating function (4-loop)

- ◆ 4 heater independent heating function (4-loop)



Design Number	Input	Output	Power	Loop	Signal	Dimension
SSC-DC12V-300W-1L	AC85-264v	DC3-12v	300w	1Loop	Temp. input 4CH / Analog input 4CH	Standard
SSC-DC24V-300W-1L	AC85-264v	DC5-24v	300w	1Loop		Standard
SSC-DC24V-600W-2L	AC85-264v	DC5-24v	300w x2	2Loop		Standard
SSC-DC36V-600W-1L	AC85-264v	DC7-36v	600w	1Loop		Standard
SSC-DC36V-1200W-2L	AC85-264v	DC7-36v	600w x2	2Loop		Standard
SSC-AC15A-1L	AC100-110/200-220v		15A	1Loop		Standard
SSC-AC30A-1L	AC100-110/200-220v		30A	1Loop		Standard
SSC-AC30A-2L	AC100-110/200-220v		15Ax2	2Loop		Standard
SSC-AC45A-3L	AC100-110/200-220v		15Ax3	3Loop		Large
SSC-AC60A-1L	AC100-110/200-220v		60A	1Loop		Standard
SSC-AC60A-2L	AC100-110/200-220v		30Ax2	2Loop		Standard
SSC-AC60A-4L	AC100-110/200-220v		15Ax4	4Loop		Large
SSC-AC90A-3L	AC100-110/200-220v		30Ax3	3Loop		Large
SSC-AC120A-2L	AC100-110/200-220v		60Ax2	2Loop		Large
SSC-AC120A-4L	AC100-110/200-220v		30Ax4	4Loop		Large

\*1. Temperature input : J,T,E,R,B,N,S,w5Re,w26Re,JPt100,Pt100

\*2. Analog input : ±10V, ±5V, 0-10V, 0-5V, 1-5V, 0-20mA, 4-20mA

\*3. In order to use the water-cooled type halogen heater, water cooling system is required.

\*4. HLH of high output type requires a separate cooling air.

\*5. Nameplate will be created in designated language as much as possible.

## Standard Function

Memory card data folder	Read the heating data from the memory card, and can edit the tables and graphs in EXCEL.
Multi-monitor	Displays the total 8CH of temperature input 4CH and analog input 4CH the trend graph.
Multi-temperature	Multistage, Sign-curve and Gradient heating setting by a touch panel.
Supervisor	Multiple signal and several heaters coordination heating function.
One-shot heating	Heating time can be established by one shots from the preset temperature arrival value.
Temperature input 4CH	K,J,T,E,R,B,N,S,w5Re,w26Re,JPt100,Pt100 4CH
Analog input 4CH	±10V, ±5V, 0-10V, 0-5V, 1-5V, 0-20mA, 4-20mA 4CH

## Optional Function

TA4	Temperature and analog multiple input 4CH
HL	High-Low Control for rapid-heating or preheating
TR	When the trigger is input, and then shift move on to the next set temperature.
RC1	Heating start or stop in the signal from outside
RC2	Specified output voltage in 4-20mA from outside
RSP	Specified thermocontroller temp. in 4-20mA
PVMON	Monitor, Output 4-20mA signal the temperature of the heating object.
SVMON	Monitor, Output 4-20mA signal the temperature of the set volume.
RS485	RS-485 Communication
IOT	IOT function
ACOUT	Power supply for AC Air cooling fan.
DC24	DC24V power supply cooling fan
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
BO	With heater burnout detection and display. With current limiter.
OVH	Over-heat Alarm. (For ABH/DGH□v-□w/□□/+2S type)
WP	Cooling water pressure shortage alarm
AP	Air Blow Heater and terminal cooling air pressure shortage alarm
CFS	Cooling fan stop detection signal processing
FPR	Front Protection Rail
RPR	Rear Protection Rail
Power Cable	Manufacture the specification of the power cable.
+α	If user need a function other than the above, please contact us.

\*6. When the function is added, there is a possibility that change is external size.

## General specification

Power supply	AC100-240v
Internal current consumption	1.6A(except the heater output)
Ambient temperature	0~50°C (No freezing No condensation No dew)
Storage temperature	-10~+60°C (No freezing No condensation No dew)
Use and storage humidity	35~85%RH (No freezing No condensation No dew)
Withstand voltage	AC1500V 1minute Between power supply terminal and input and output terminals
Noise resistance	1500Vp-p Pulse width 1 μ s,50ns IECstandard compliant 61000,4-2/3/4/6)
Insulation resistance	DC500MV- 5MΩ over (Between the power supply terminal and case)
Use atmosphere	No Dust, No terribly corrosive gas
Use altitude	2000m or less
External dimensions	Height 250mm width 400mm depth 270mm (Standard type)
Mass	About 5kg (Standard type)

## Touch panel specification

Display element	Ultra-high brightness TFT color LCD
Display dots Number	VGA 640x480
LCD life	About 5000 hours (Normal temp. and humidity)
Backlight life	About 5400 hours (Normal temp. and humidity, Cold-cathode tube can not replaced)
Touch switch life	1million times or more (touch switch actuating force 0.98NT below)

## Memory card specification

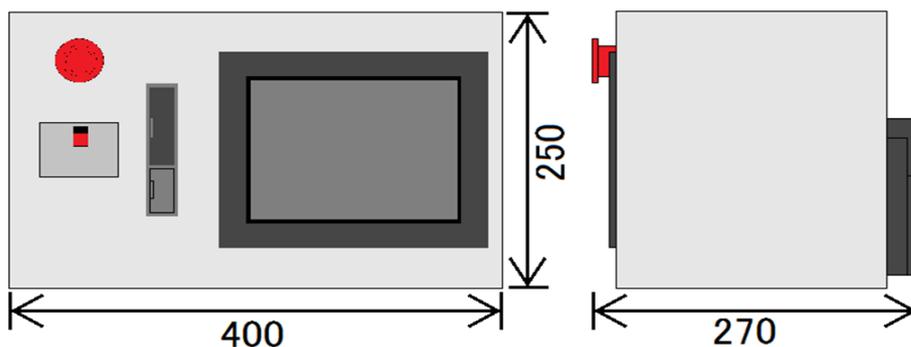
Storage element	CF compact flash card EEPROM
File type	CSV
Memory capacity	128MB
Number of rewrites	100,000 or more times
Storage capacity	Maximum 128MB, 262144 files



【 Options Front Protection Rail 】



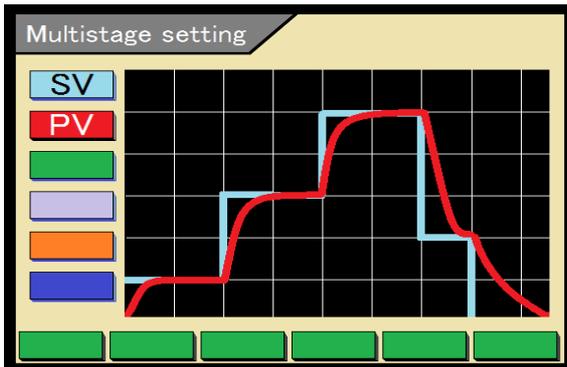
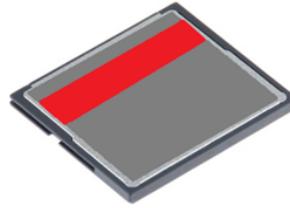
【 Options Rear Protection Rail 】



	A	B	C	D	E	F
1	10:00.00	25	26	25	24	
2	10:00.01	26	27	26	25	
3	10:00.02	27	28	27	26	
4	10:00.03	28	29	28	27	
5	10:00.04	29	30	29	28	
6	10:00.05	30	31	30	29	
7	10:00.06	31	32	31	30	
8	10:00.07	32	33	32	31	
9	10:00.08	33	34	33	32	
10	10:00.09	34	35	34	33	
11	10:00.10	35	36	35	34	
12	10:00.11	36	37	36	35	
13	10:00.12	37	38	37	36	
14	10:00.13	38	39	38	37	
15	10:00.14	39	40	39	38	
16	10:00.15	40	41	40	39	
17	10:00.16	41	42	41	40	
18	10:00.17	42	43	42	41	

### ◆ Memory card data folder function

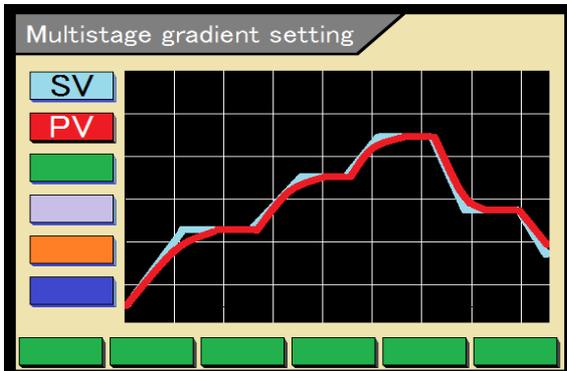
Read the heating data from the memory card, and can edit the tables and graphs in EXCEL.



### ◆ Multistage setting function

A processing method such as a decline of the surface tension by the heating and extinction of the residual stress can be considered.

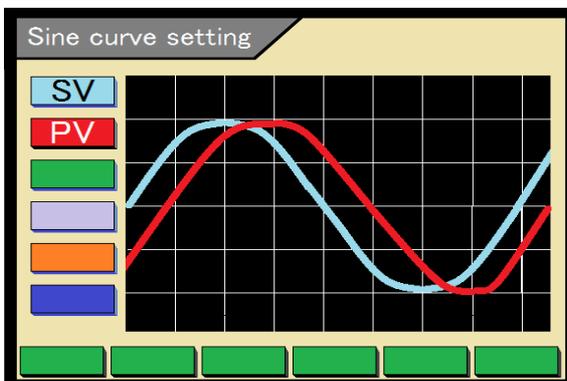
- Setting the reservoir of intermediate polymerization reaction
- Repeated heating and cooling method
- Maintenance of solution processing temperature
- Two-stage preheating quenching processing
- Gas nitriding processing
- Gas two-stage nitriding processing
- Salt bath soft nitriding processing
- Gas soft nitriding processing



### ◆ Gradient setting function

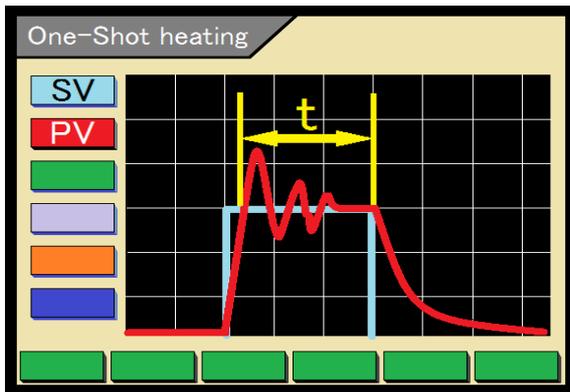
Important expansion and shrinkage rate, it is test for a precision material .

- Trapezoidal control
- Isothermal annealing
- Management of recrystallization temperature
- Slow heat → annealing → slow cooling process
- Two-stage annealing
- Age hardening treatment



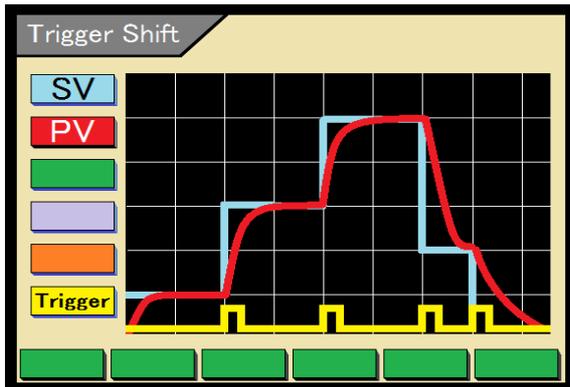
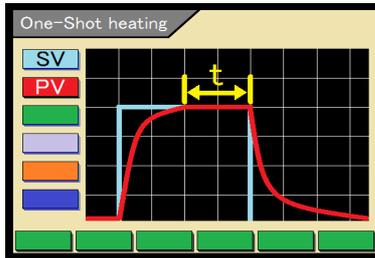
### ◆ Sine curve setting function

Heat cycle test of an electronic device.  
Aging accelerated test of an electronic device.



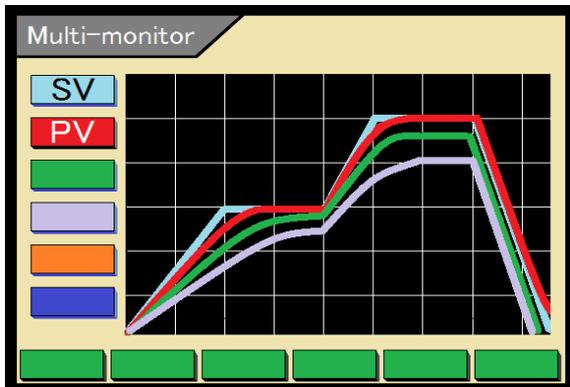
### ◆ One-Shot heating function

- The condition shortening of the tact time
- The tempering time management
- The normalizing time management



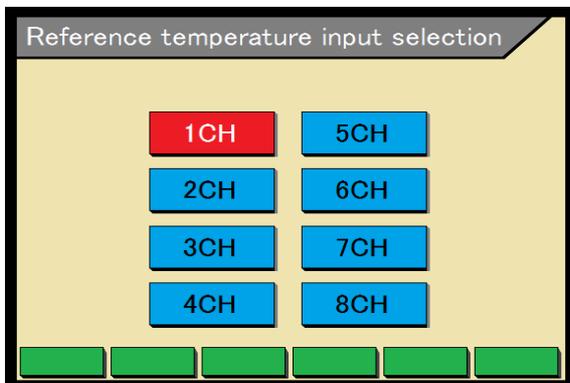
### ◆ Trigger Shift function (optional)

When the trigger is input, and then move on to the next set temperature.



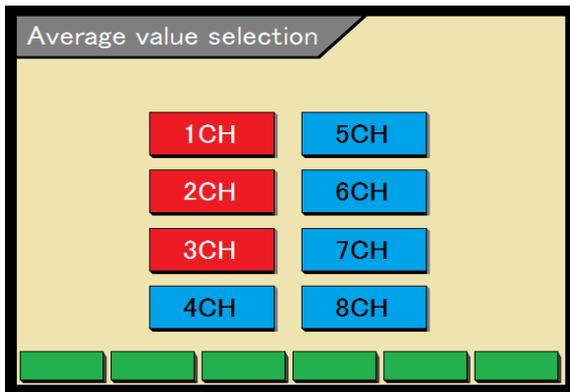
### ◆ Multi-monitor function

Temperature distribution can know in real time.



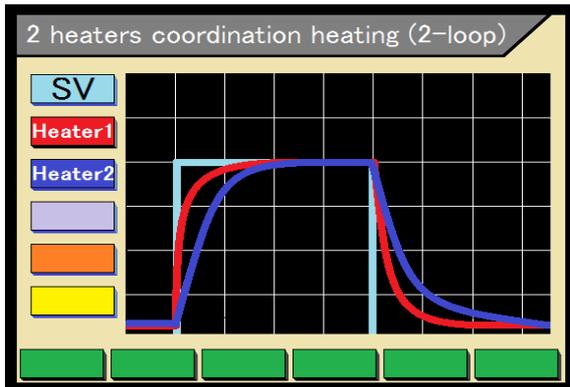
### ◆ Reference temperature input selection function

The sensors can be multiple mounting, heating the any position on the reference or the best, can evaluate the mounting position.



◆ Average value control function

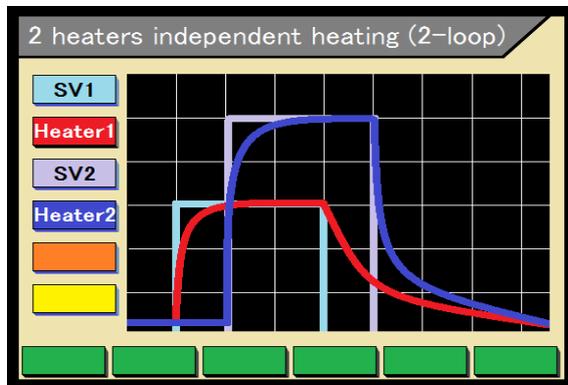
The sensor can be multiple mounting, the heating evaluate the position of the virtual to the reference.



◆ 2 heater coordination heating function (2-loop)

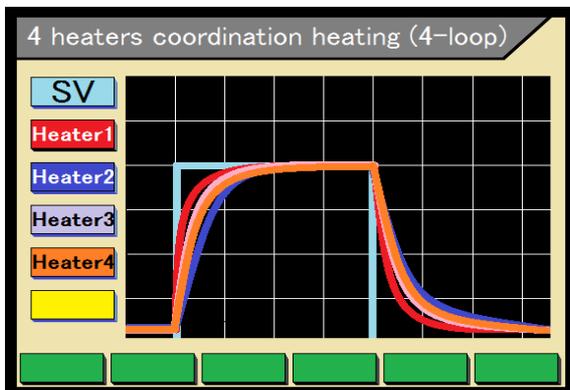
Heat the one object, use the air blow heater and halogen heater.

Heat the one object, use the two halogen heaters.



◆ 2 heater independent heating function (2-loop)

A certain areas is heated uniformly using several heaters.



◆ 4 heater coordination heating function (4-loop)

A certain areas is heated uniformly using 1 heater.

9.For Ultraviolet rays point type irradiator  
 UVP-30 Manual power supply controller UVPC3.6V



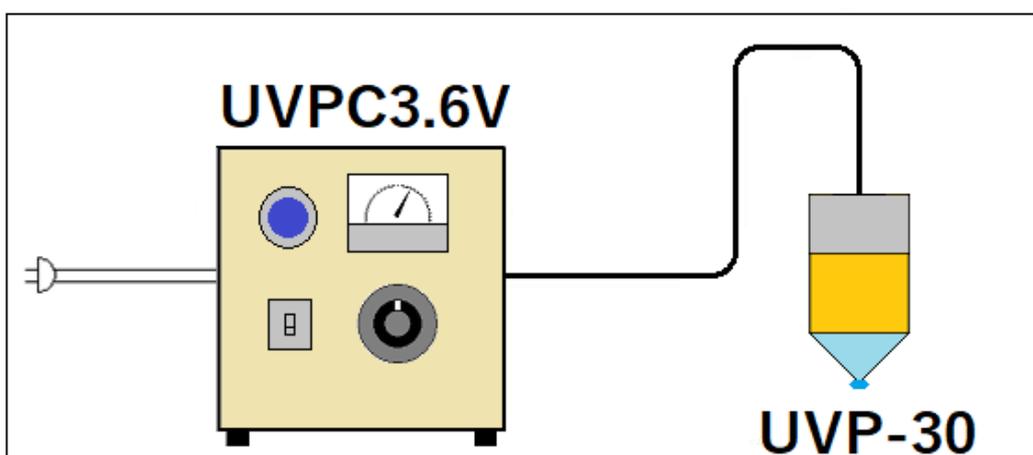
- Color universal design UVCP3.6V series
  - A blue indicator light has been adopted to make it easy for anyone to see.
  - A dial is included to allow manual current control of the UVP-30 at 3.6V.
- ※ Note – Cannot be used for UVP-60.

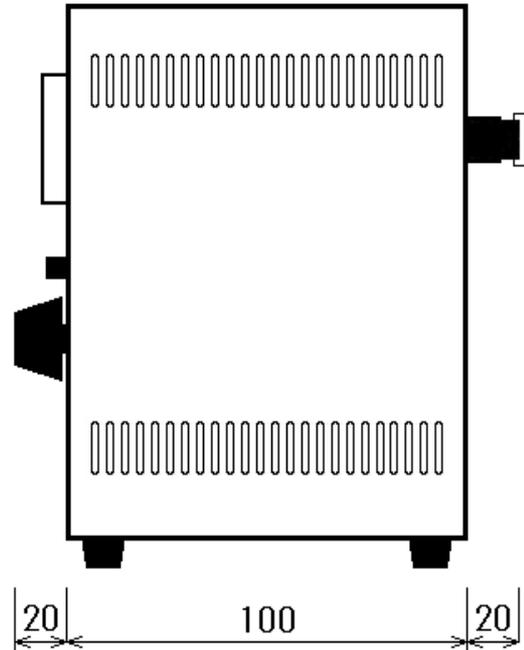
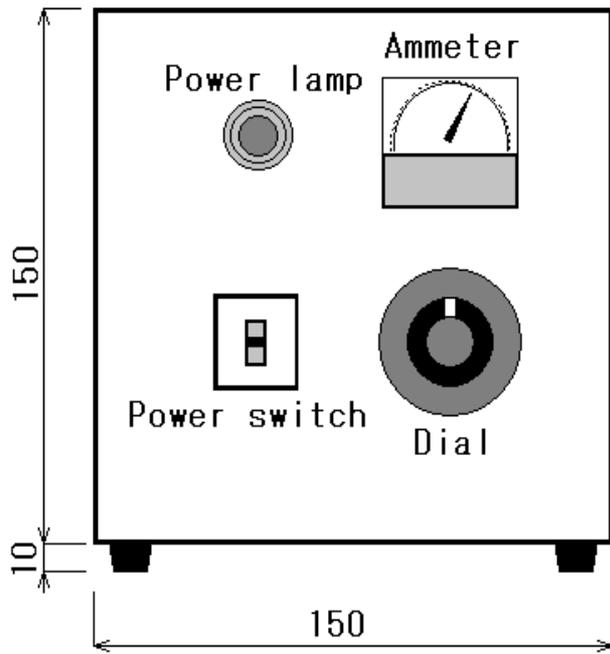
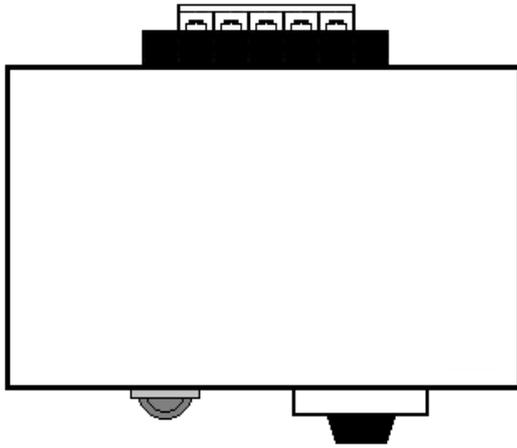
**【Specifications】**

D/#	Input Vpltage	Output Voltage	Ammeter
UVPC-3.6V-30mA	AC100~240V	DC3.6V	30mA
UVPC-3.6V-50mA	AC100~240V	DC3.6V	50mA
UVPC-3.6V-100mA	AC100~240V	DC3.6V	100mA

Paid additional specifications

D/#	Item and Description
FPR	Front Protection Rail
RPR	Rear Protection Rail
LH	Lifting Handle
Power Cable	Manufacture the specification of the power cable.



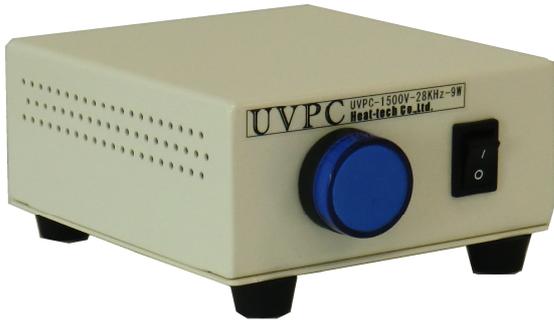


Input (V)	AC100V-240V		
Output (V)	DC3.6V		
Output (W)	0~0.2W		
Ammeter	30mA	50mA	100mA
D/#	UVPC-3.6V-(Ammeter)		
Model	Manual power supply controller for Ultraviolet rays point type irradiator UVP-30		

Date  
2022.10.6

**Heat-tech**

10. For cold cathode low pressure mercury lamps  
 For Ultraviolet rays point type irradiator UVP-60  
 Manual power supply controller UVPC-1500V



- Color universal design UVPC-1500V series
  - A blue indicator light has been adopted to make it easy for anyone to see.
  - It has a built-in inverter and can light UVP-60 and cold cathode type ultraviolet lamps.
- ※ Note – Cannot be used for UVP-30.

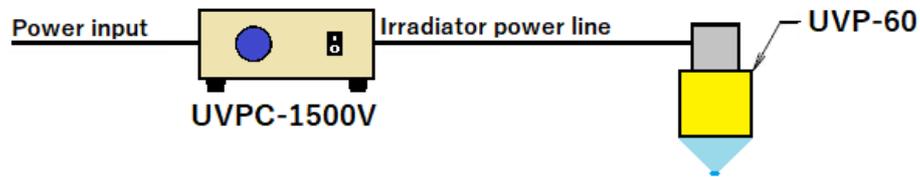
## 【Specifications】

D/#	Input Vpltage	Output Voltage	Current
UVPC-1500V	AC100~240V	Max. 1500V rms	Max. 20mA

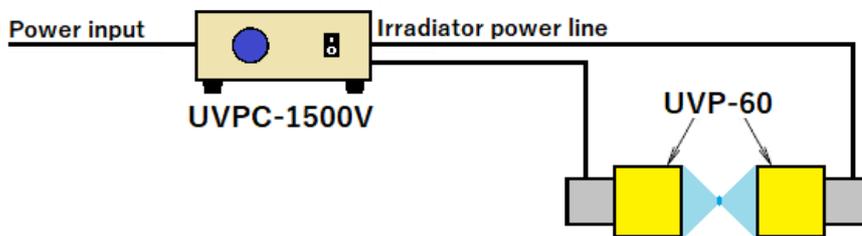
### Paid additional specifications

D/#	Item and Description
FPR	Front Protection Rail
RPR	Rear Protection Rail
LH	Lifting Handle
Power Cable	Manufacture the specification of the power cable.

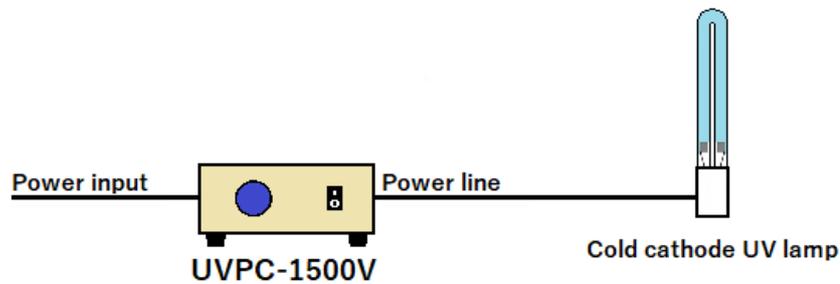
[Usage example: UV point type irradiator UVP-60]



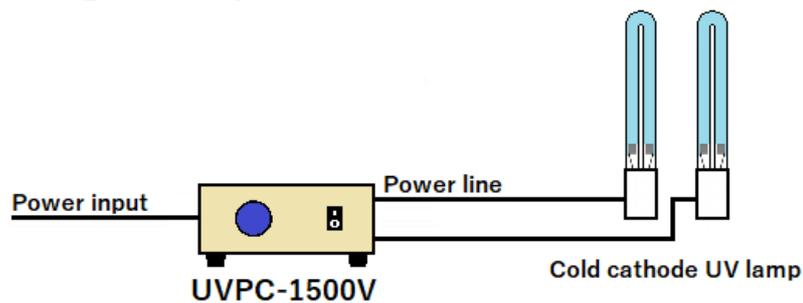
[Usage example:  
UV point type irradiation device UVP-60 2 unit control]

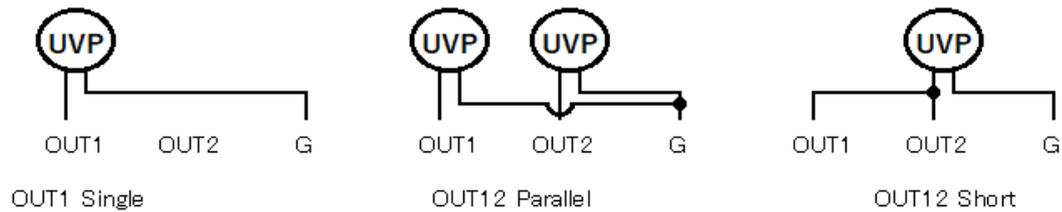
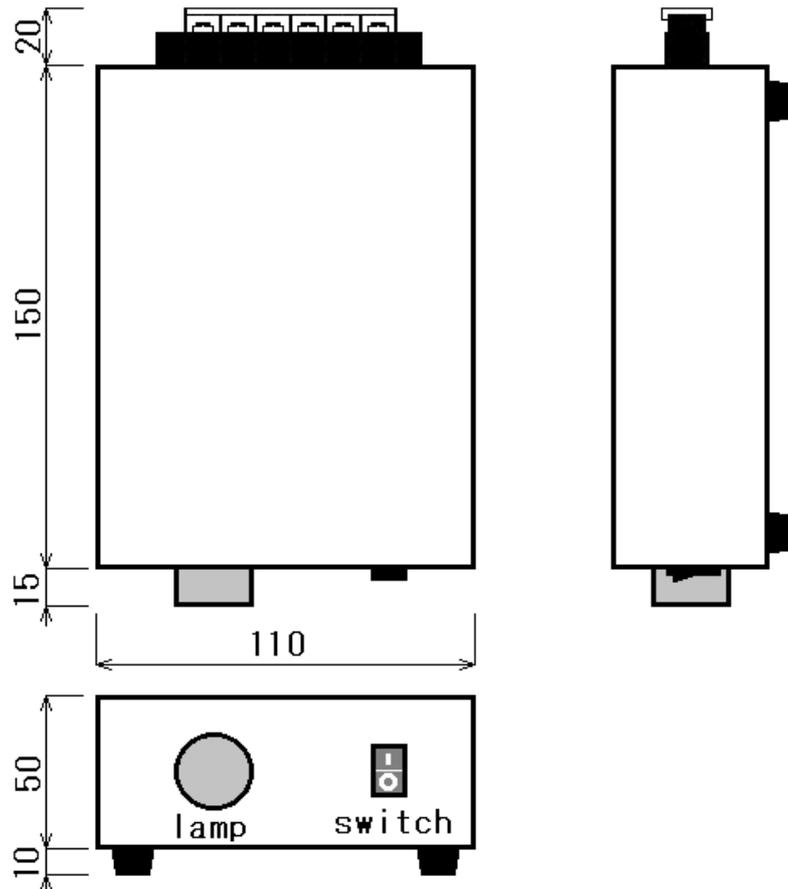


[Usage example: cold cathode UV lamp control]



[Usage example: Control of 2 cold cathode UV lamps]





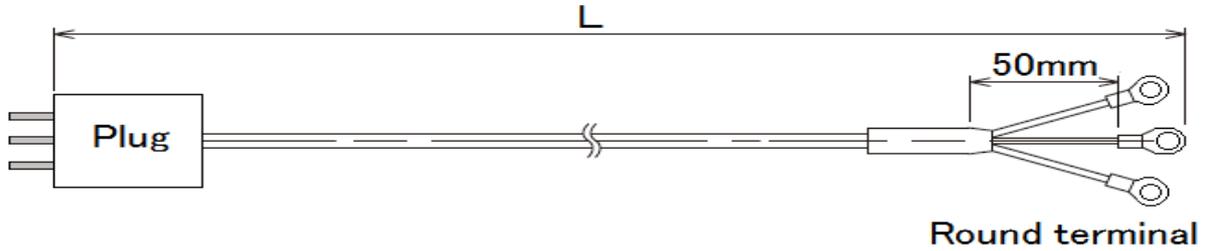
Input (V)	AC100V-240V		
Open circuit voltage	1500V rms		
Connection type	OUT1 Single	OUT12 Parallel	OUT12 Short
Output (A)	12mA rms	10mA rms	20mA rms
Output (W)	5.4W	4.5W	9W
Frequency	32KHz	28KHz	28KHz
D/#	UVPC-1500V		
Model	Power supply controller for Ultraviolet rays point type irradiator UVP-60		

Date  
2022.10.11

**Heat-tech**

# 11. Power Cable for Heater Controller

Manufacture the specification of the power cable.



Type A	Type B	Type C	Type D	Type E	Type F
Type G	Type H	Type I	Type J	Type L	

VOLT	NEMA	15 AMPERE		20 AMPERE		30 AMPERE	
		Receptacle	Plug	Receptacle	Plug	Receptacle	Plug
125 V	L1	 L1-15R	 L1-15P				
250 V	L2			 L2-20R	 L2-20P		
125 V	L5	 L5-15R	 L5-15P	 L5-20R	 L5-20P	 L5-30R	 L5-30P
250 V	L6	 L6-15R	 L6-15P	 L6-20R	 L6-20P	 L6-30R	 L6-30P
277V, A.C.	L7	 L7-15R	 L7-15P	 L7-20R	 L7-20P	 L7-30R	 L7-30P
480 V	L8			 L8-20R	 L8-20P	 L8-30R	 L8-30P
600 V	L9			 L9-20R	 L9-20P	 L9-30R	 L9-30P

When the plug or the connector which the upper figure does not have are necessary, we will manufacture as much as possible.

<< Quotation model specification method >>

(Heater controller model) - (Plug shape) - (Cable length)

<< Quotation example >>

HCA-AC100/220V-15A-TypeA-5m

No-touch High Temperatures Hating

**Heat-tech**

**HEAT-TECH CO., LTD.**

<http://www.heater.heat-tech.biz/>

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