High-performance

Air Blow Heater Controller

AHC2 series

Heat-tech

High-performance air blow heater controller AHC2 series

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 float-type flow meter or mass flow controller, to ensure the reproducibility of the amount of heat supplied.

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.

[Specifications]

Power voltage	Single-phase AC100V ～ 240V 50 / 60Hz
Control current	15A / 30A
Thermocontroller	Surface mount thermocouple input type
Thermocontrol system	Time division PID control
Air flow meter	Control valve with a float type flow meter/mass flow controller
Air flow rate setting	Manual control valve / Digital setting
Air flow rate (ℓ / min)	0.3～10 / 1.5～50 / 3～100 / 2～200 / 4～500
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 resin tube
Air output	One-touch fitting for φ6 resin tube etc.
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【 Model configuration list 】

Basic Model	Thermo Controller	Flow Conteol	Higher Control	Electric Current	Gasflow Quantity	Contents
AHC2						Airblow Heater Controller
	TC(standard)					Thermo-couple input
	TP					Pyrometer input
		DFM				Control valve with digital flow meter
		FM				Control valve with float flow meter
		FC				Mass flow controller
			(Blank)			None
			RC			Remort control function
			SV			Supervisor function
			RS-485			Remort control with RS-485 function
				15A		Control Electric current 15A
				30A		Control Electric current 30A
				50A		Control Electric current 50A
				100A		Control Electric current 100A
					10L	Gas control flow rate 10L/min
					50L	Gas control flow rate 50L/min
					100L	Gas control flow rate 100L/min
					200L	Gas control flow rate 200L/min
					500L	Gas control flow rate 500L/min
					1000L	Gas control flow rate 1000L/min

【Options】

Abbreviation	Contents
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
RC1	Remote Control switch mounted surface, heating start and stop from the outside.
SV	Supervisor function for Over-heat protect or Target-heating
HL	High-Low Control for rapid-heating or preheating
TMR1	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RSP	Specify the 4-20mA a setting from the outside.
MON	The current value to the external output in 4-20mA.
RS485	RS-485 Communication
IOT	IOT function
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	Pyrometer mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

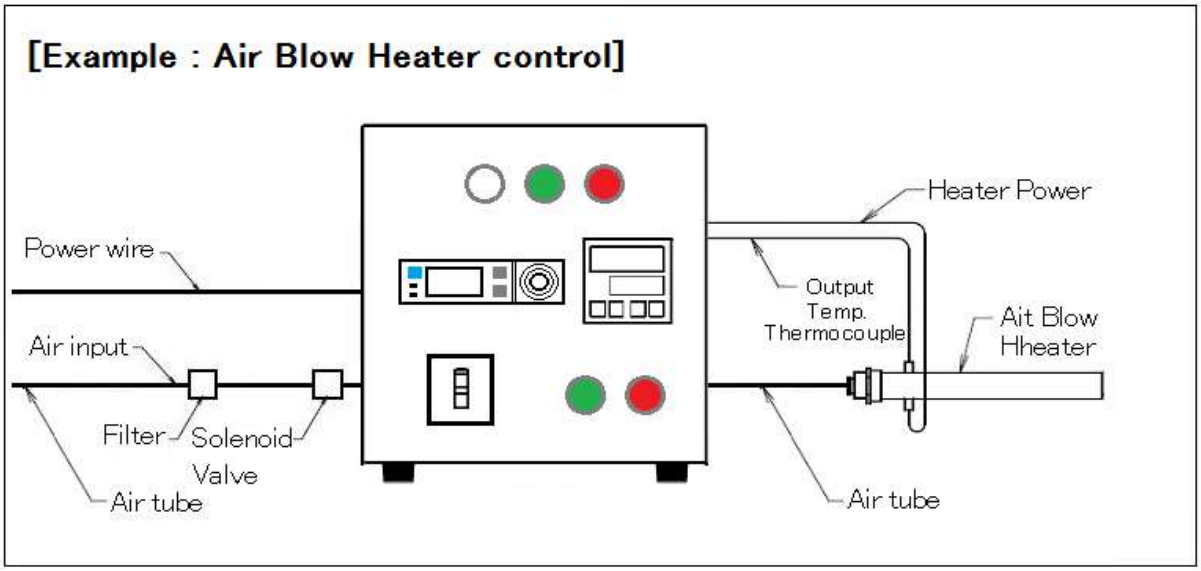
[Note] When the to add a function, there is that the external dimensions changes.

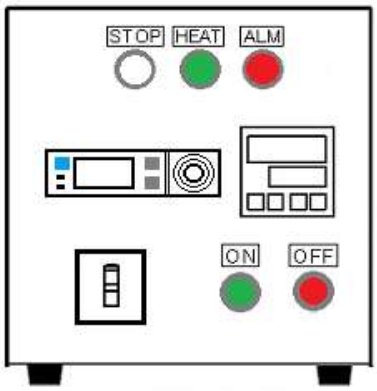
【 Options Front Protection Rail 】

【 Options Rear Protection Rail 】

1.Thermocontroller & digital flow meter　AHC2-TCDFM

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.





【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	Control valve with digital flow meter
Air flow rate setting	Manual control valve
Air flow rate (ℓ / min)	2～200
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ8 resin tube
Air output	One-touch fitting for φ8 resin tube
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

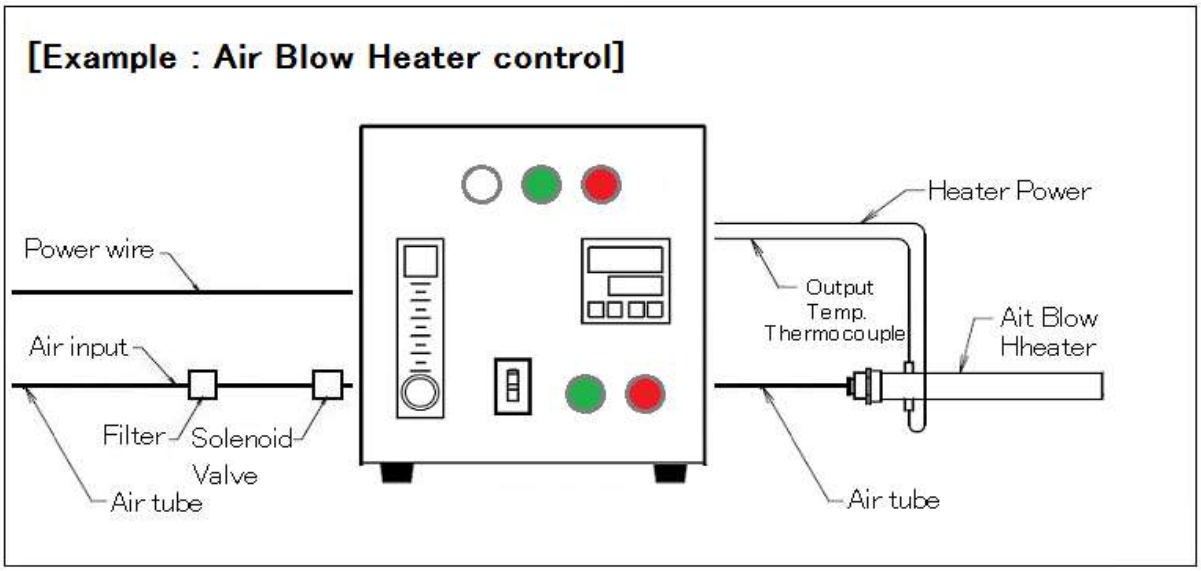
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

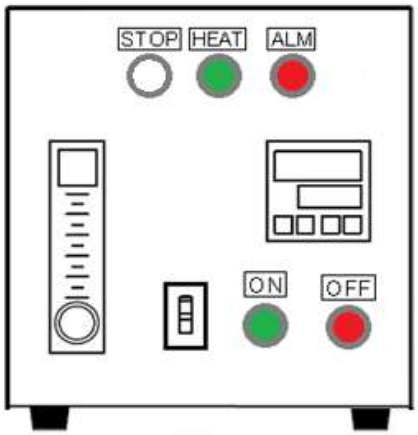
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCDFM/□A-200L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

2.Thermocontroller &float type flow meter AHC2-TCFM

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 float-type flow meter, to ensure the reproducibility of the amount of heat supplied.





【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	Control valve with a float type flow meter
Air flow rate setting	Manual control valve
Air flow rate (ℓ / min)	1～10 / 5～50 / 10～100
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 resin tube
Air output	One-touch fitting for φ6 resin tube
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

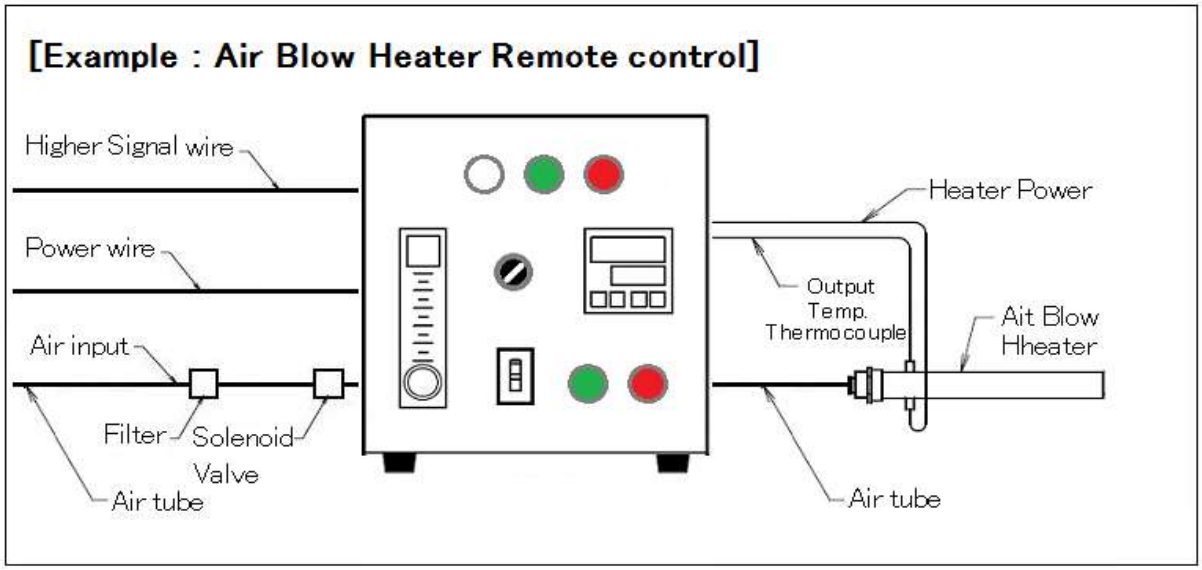
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

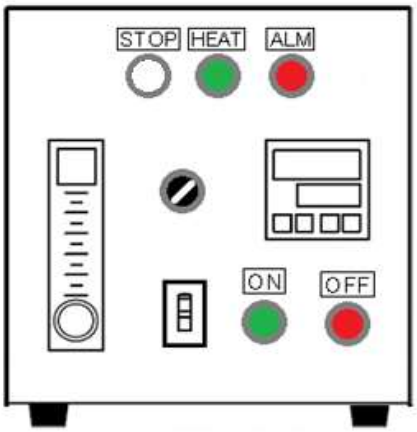
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCFM/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

3.Thermocontroller & float type flow meter with remote control AHC2-TCFMRC

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 float-type flow meter, to ensure the reproducibility of the amount of heat supplied.
AHC2-TCFMRC come with a heater by a remote control function in ON-OFF from the outside.
This controller corresponds to the IOT era in the rich options.





【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	Control valve with a float type flow meter
Air flow rate setting	Manual control valve
Air flow rate (ℓ / min)	1～10 / 5～50 / 10～100
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 resin tube
Air output	One-touch fitting for φ6 resin tube
Select switch	Remote Control switch mounted surface
Remote Control	Remote heating start and stop from the outside.
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

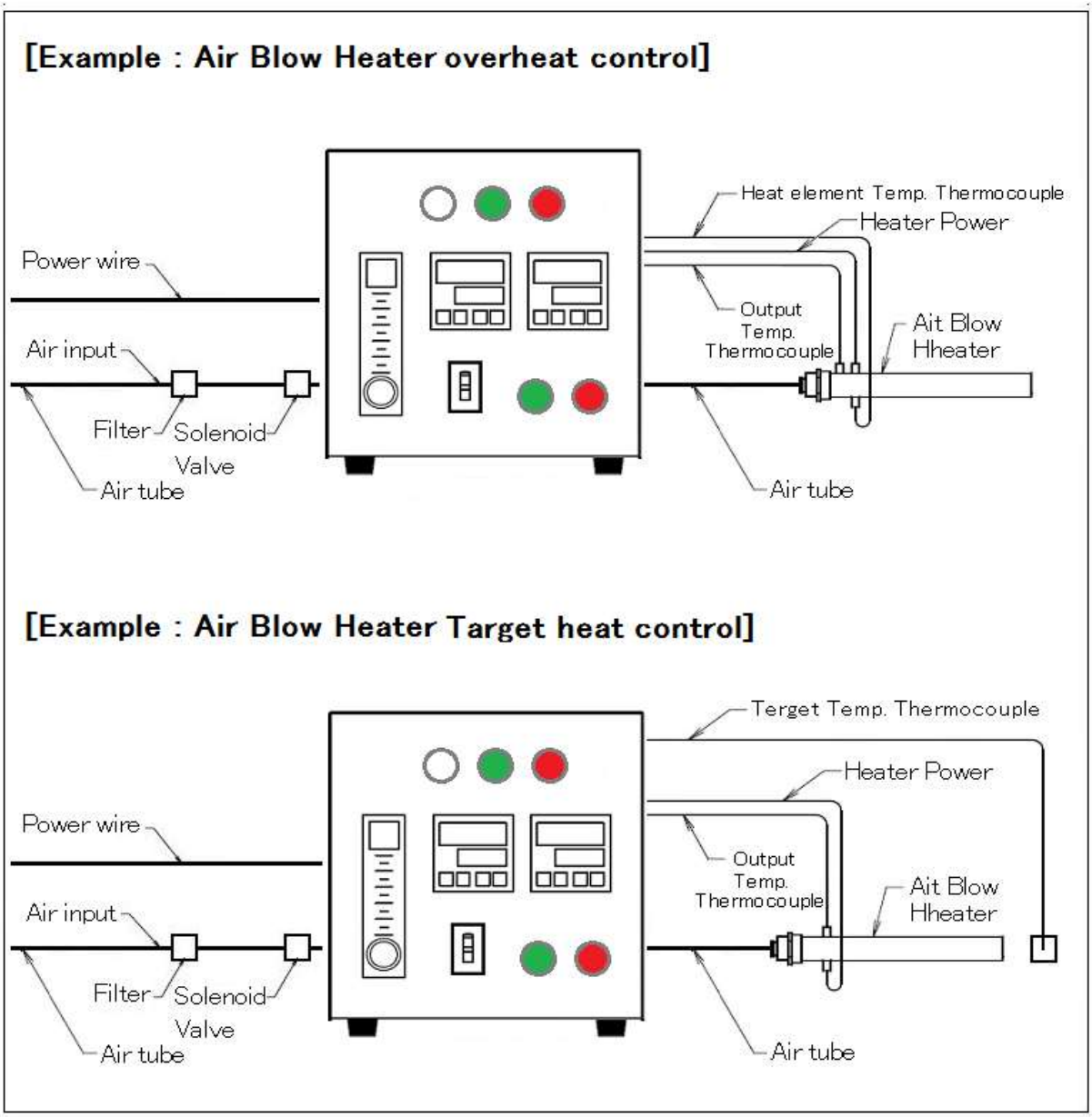
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RSP	Specify the 4-20mA a setting from the outside.
MON	The current value to the external output in 4-20mA.
RS485	RS-485 Communication
IOT	IOT function
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

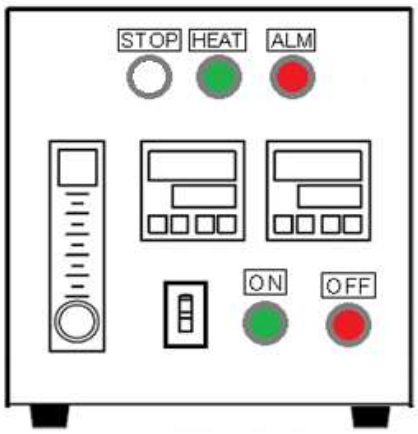
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCFMRC/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

4.Thermocontroller & float type flow meter with over-heat control AHC2-TCFMSV

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 float-type flow meter, to ensure the reproducibility of the amount of heat supplied.
To prevent in advance the heater disconnection and accidents caused by excessive temperature rise by the excessive rise in temperature monitoring function.





【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	Control valve with a float type flow meter
Air flow rate setting	Manual control valve
Air flow rate (ℓ / min)	1～10 / 5～50 / 10～100
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 resin tube
Air output	One-touch fitting for φ6 resin tube
Supervisor	Over-heat protect or Terget-heating
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

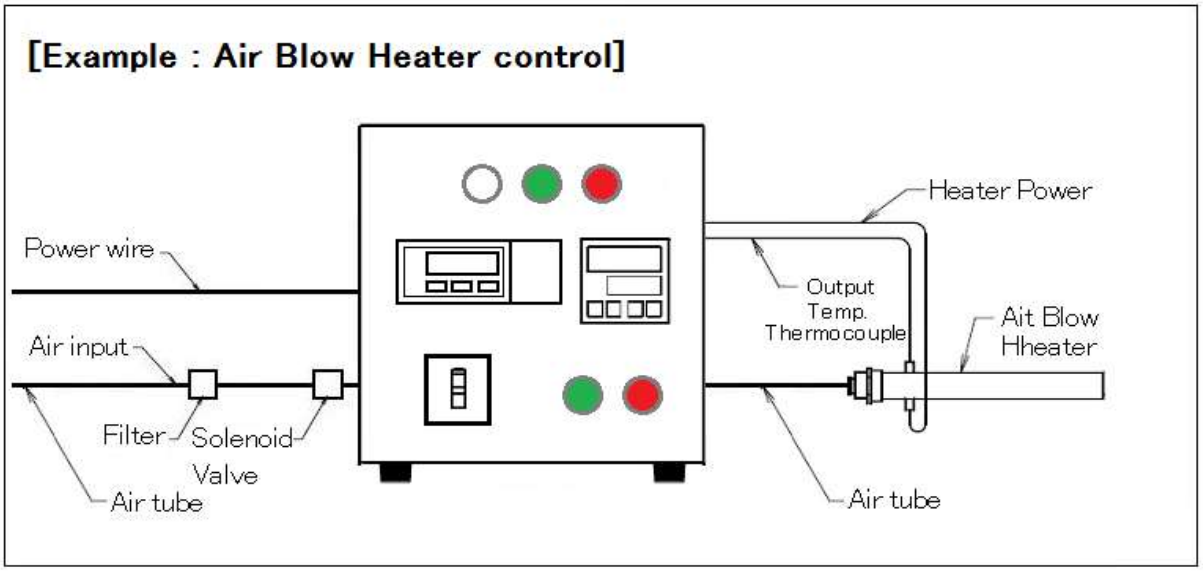
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RC	The switch is mounted surface, heating start and stop in the signal from the outside.
RSP	Specify the 4-20mA a setting from the outside.
MON	The current value to the external output in 4-20mA.
RS485	RS-485 Communication
IOT	IOT function
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

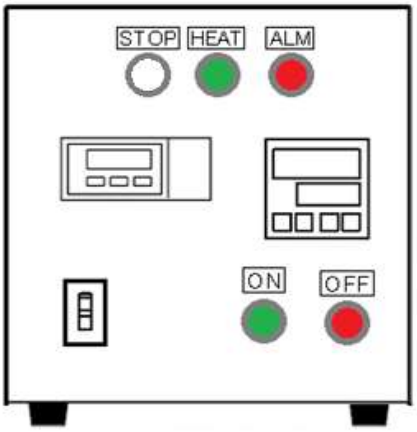
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCFMSV/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

5.Thermocontroller & mass flow controller AHC2-TCFC

By overheating zero setting of the thermocontroller, it makes the stable hot-air heating.
By the mass flow controller, it enables high-precision air flow control.
The temperature controller and mass flow controller, to ensure the reproducibility of the amount of heat supplied.





【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 rate setting	Massflowcontroller
Air flow rate (ℓ / min)	0.3～10 / 1.5～50 / 3～100 / 2～200 / 4～500
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 φ8 φ10 resin tube
Air output	One-touch fitting for φ6 φ8 φ10 resin tube
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

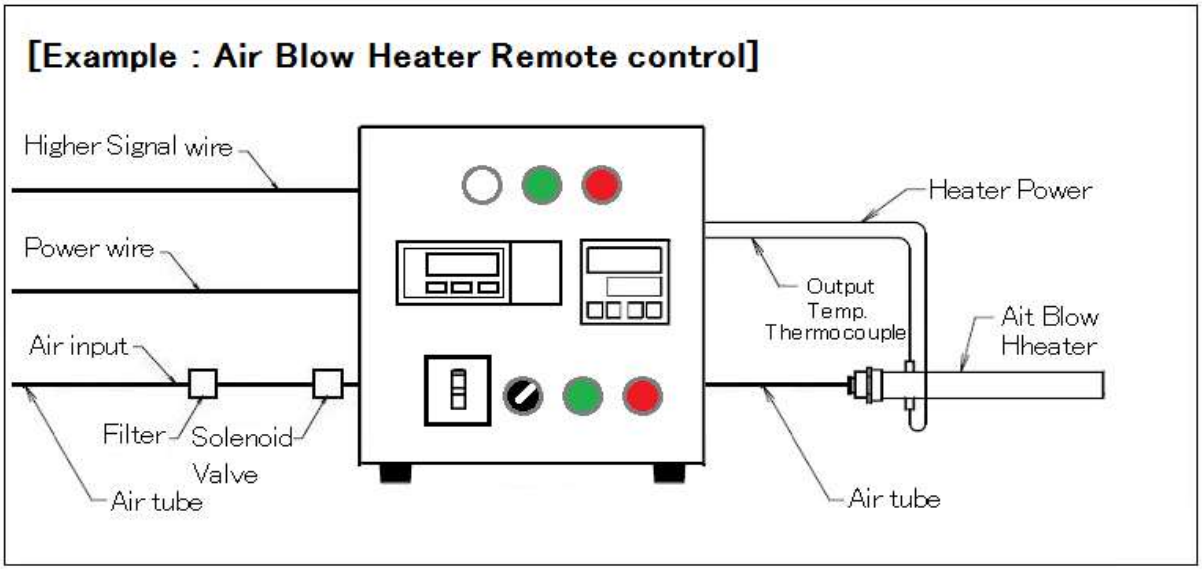
[Note] When the to add a function, there is that the external dimensions changes.

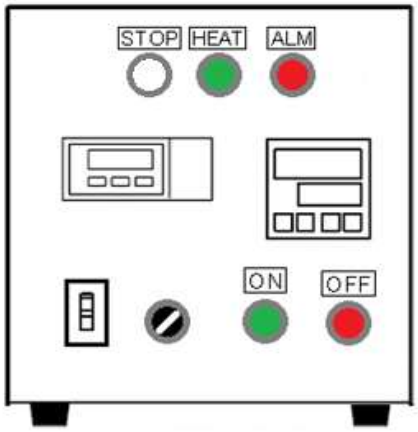
				D/#	AHC2-TCFC/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

6.Thermocontroller & massflowcontroller with remote control AHC2-TCFCRC

By overheating zero setting of the thermocontroller, it makes the stable hot-air heating.

By the mass flow controller, it enables high-precision air flow control.
The temperature controller and mass flow controller, to ensure the reproducibility of the amount of heat supplied.
AHC2-TCFCRC come with a heater by a remote control function in ON-OFF from the outside.
This controller corresponds to the IOT era in the rich options.





【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 rate setting	Massflowcontroller
Air flow rate (ℓ / min)	0.3～10 / 1.5～50 / 3～100 / 2～200 / 4～500
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 φ8 φ10 resin tube
Air output	One-touch fitting for φ6 φ8 φ10 resin tube
Select switch	Remote Control switch mounted surface
Remote Control	Remote heating start and stop from the outside.
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RSP	Specify the 4-20mA a setting from the outside.
MON	The current value to the external output in 4-20mA.
RS485	RS-485 Communication
IOT	IOT function
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

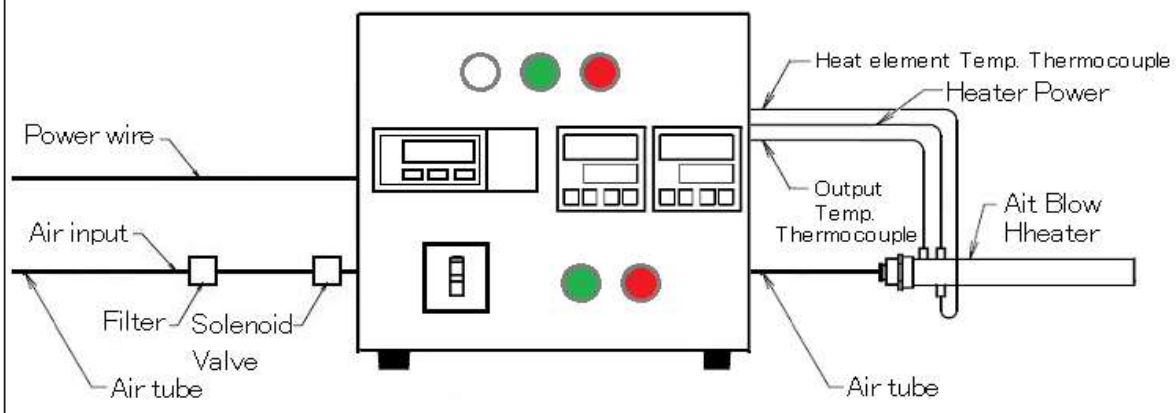
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCFCRC/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

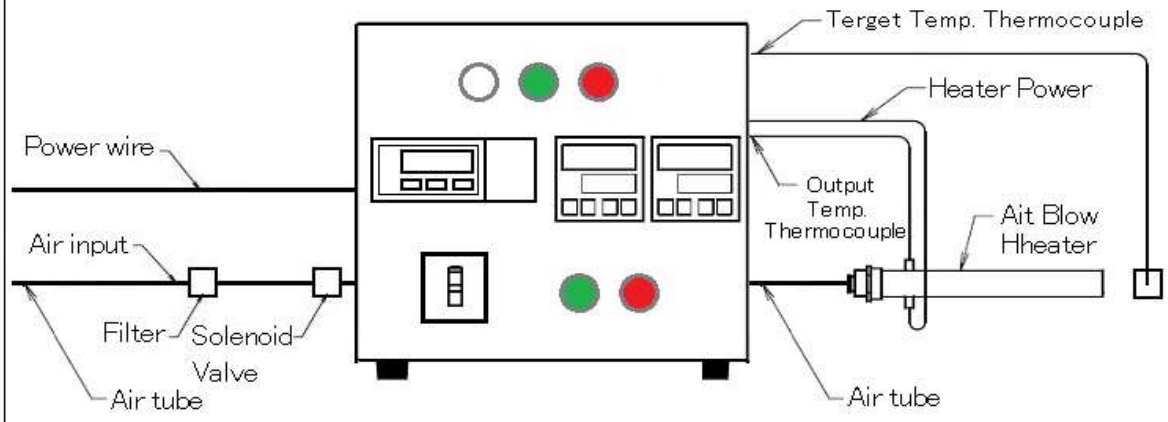
7.Thermocontroller & mass flow controller with over-heat control AHC2-TCFCSV

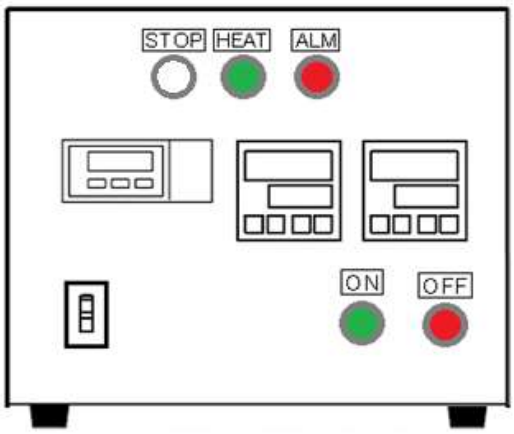
By overheating zero setting of the thermocontroller, it makes the stable hot-air heating.
By the mass flow controller, it enables high-precision air flow control.
The temperature controller and mass flow controller, to ensure the reproducibility of the amount of heat supplied.
To prevent in advance the heater disconnection and accidents caused by excessive temperature rise by the excessive rise in temperature monitoring function.

[Example : Air Blow Heater overheat control]



[Example : Air Blow Heater Target heat control]





【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 rate setting	Massflowcontroller
Air flow rate (ℓ / min)	0.3～10 / 1.5～50 / 3～100 / 2～200 / 4～500
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 φ8 φ10 resin tube
Air output	One-touch fitting for φ6 φ8 φ10 resin tube
Supervisor	Over-heat protect or Target-heating
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RC	The switch is mounted surface, heating start and stop in the signal from the outside.
RSP	Specify the 4-20mA a setting from the outside.
MON	The current value to the external output in 4-20mA.
RS485	RS-485 Communication
IOT	IOT function
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

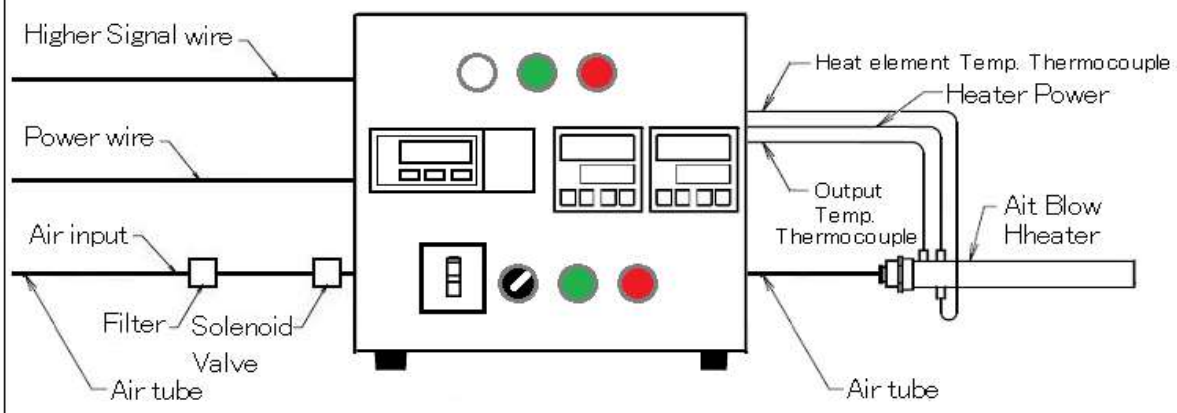
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCFCSV/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

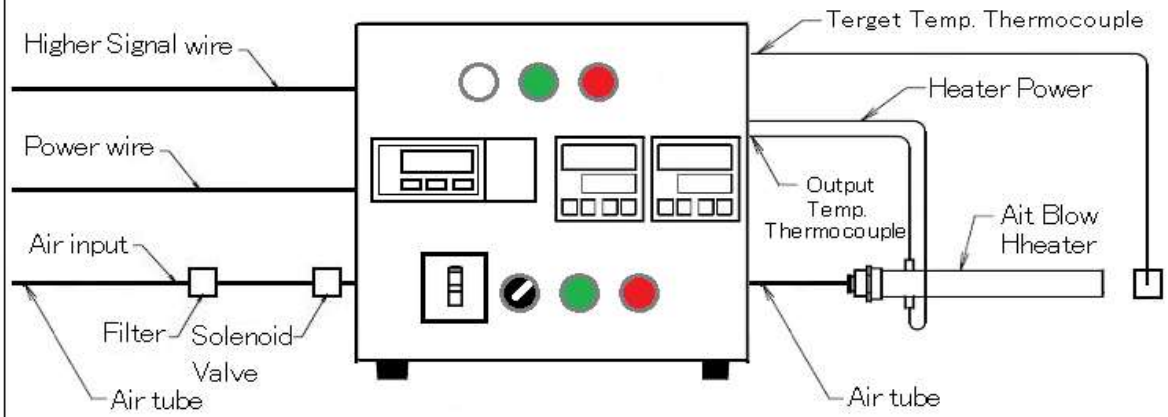
8.Thermocontroller & massflowcontroller with remote control & over-heat control AHC2-TCFCRCSV

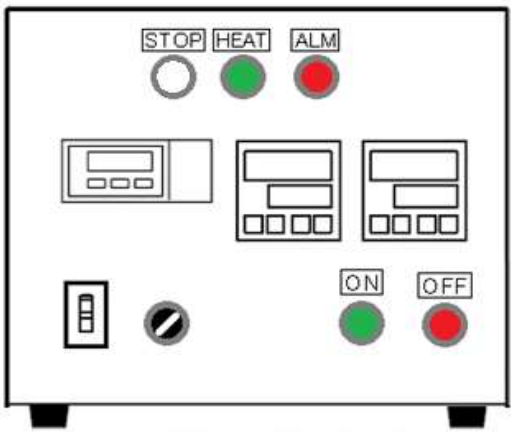
By overheating zero setting of the thermocontroller, it makes the stable hot-air heating.
By the mass flow controller, it enables high-precision air flow control.
The temperature controller and mass flow controller, to ensure the reproducibility of the amount of heat supplied.
AHC2-TCFCSVRC come with a heater by a remote control function in ON-OFF from the outside.
This controller corresponds to the IOT era in the rich options.
To prevent in advance the heater disconnection and accidents caused by excessive temperature rise by the excessive rise in temperature monitoring function.

[Example : Air Blow Heater overheat control]



[Example : Air Blow Heater Target heat control]





【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 rate setting	Massflowcontroller
Air flow rate (ℓ / min)	0.3～10 / 1.5～50 / 3～100 / 2～200 / 4～500
Air input	0.2MPa ～ 0.6MPa one-touch fitting for φ6 φ8 φ10 resin tube
Air output	One-touch fitting for φ6 φ8 φ10 resin tube
Select switch	Remote Control switch mounted surface
Remote Control	Remote heating start and stop from the outside.
Supervisor	Over-heat protect or Target-heating
Usage environment	Temperature 0 ～ 45 ℃ Humidity 10% to 95% (non-condensing)
External dimensions	Width 250 x height 250 x depth 250 mm

【Options】

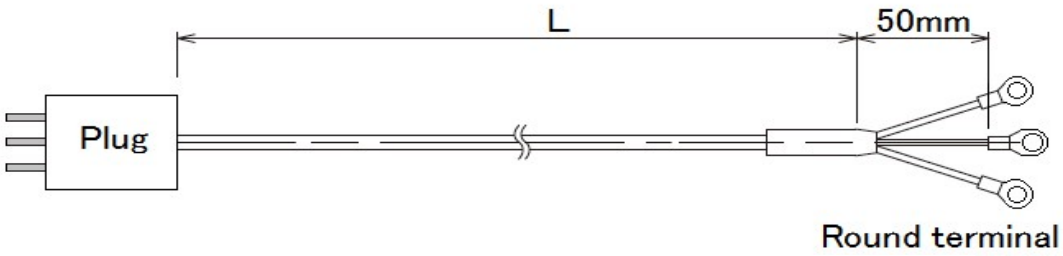
CUD	Color universal design type white-blue-yellow indicator light and operation switch.
HL	High-Low Control for rapid-heating or preheating
TMR	The setting timer one-shot heating and mounting surface.
AirV	Air opening and closing valve
OFDT	Air closing valve, heating stop after the cooling timer 5 minutes
RSP	Specify the 4-20mA a setting from the outside.
MON	The current value to the external output in 4-20mA.
RS485	RS-485 Communication
IOT	IOT function
BO	Heater burnout (Disconnection) Alarm
AP	Air pressure shortage Alarm
FPR	Front Protection Rail
RPR	Rear Protection Rail
TP	Replaced by thermocontroller of the pyrometer input specification.
PM	The Pyrometer and mounted surface.
Pyrometer	Pyrometer to choice of applications, and then fitted adjusted to the heater controller.
Power Cable	Manufacture the specification of the power cable.

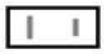
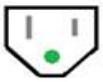
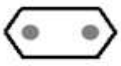
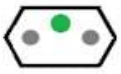
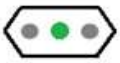
[Note] When the to add a function, there is that the external dimensions changes.

				D/#	AHC2-TCFCSVRC/□A-□L/(Options)
				Model	High-performance air blow heater controller
Date	2021/5/19	Draw	Y.Shimoda	Heat-tech Co.,Ltd.	

9.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 Receptacle	15 AMPERE Plug	20 AMPERE Receptacle	20 AMPERE Plug	30 AMPERE Receptacle	30 AMPERE 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 >>

AHC2-TCDFM/15A-200L-TypeA-5m

No-touch High Temperatures Hating

Heat-tech

HEAT-TECH CO., LTD.

https://www.heater.heat-tech.biz/

International Medical Device Alliance IMDA

1-6-5 Minatojima Minamimachi Chuoku Kobe 650-0047 Japan

TEL 81-78945-7894 FAX 81-78945-7895

E-mail info@heat-tech.biz