

High-performance Air Blow Heater Controller AHC3 series



Heat-tech

Overview of the high-performance air blow heater controller AHC3 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.

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.

In the I/O 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 times.

Using a duplication sensor of the optional selected, a over temperature alarm management is possible.

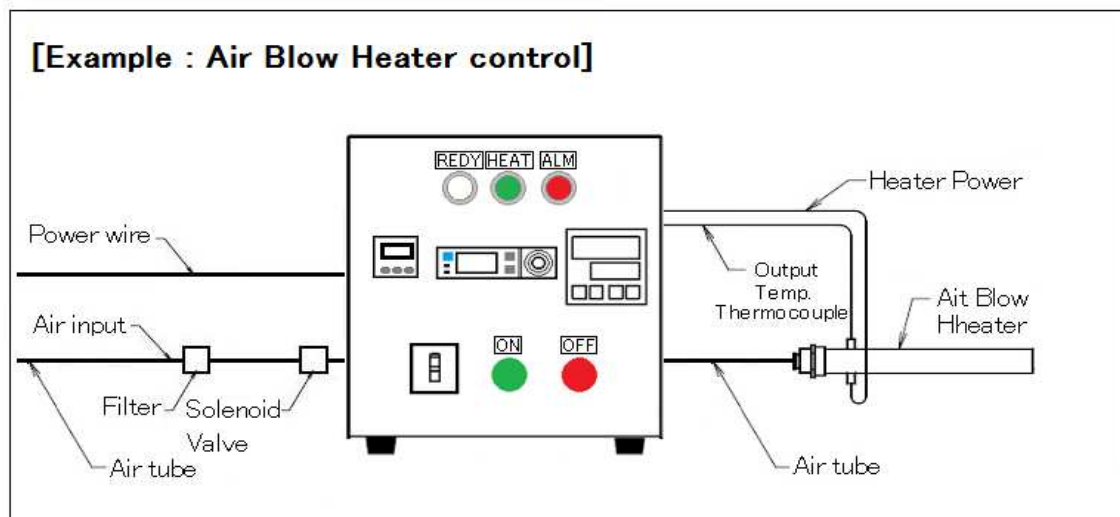
Using a one-shot timer of the optional selected, an precision heating examination is possible.

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.



【 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

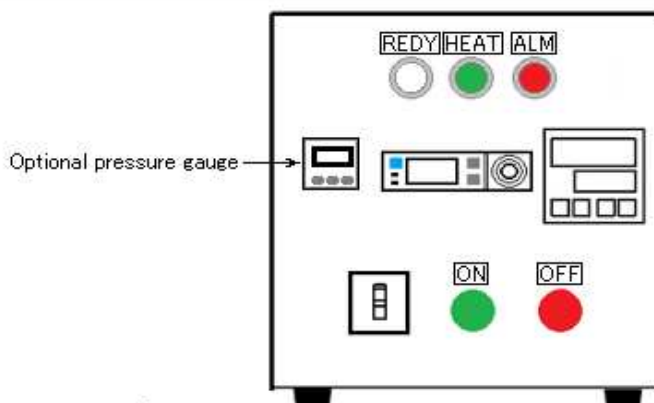
【 Basic Specifications 】

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】

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【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
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【Note】

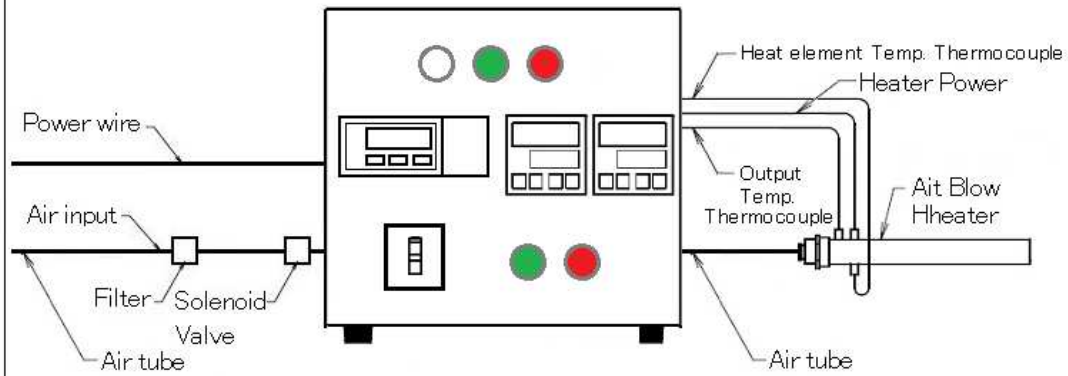
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Model	High-performance Air Blow Heater controller

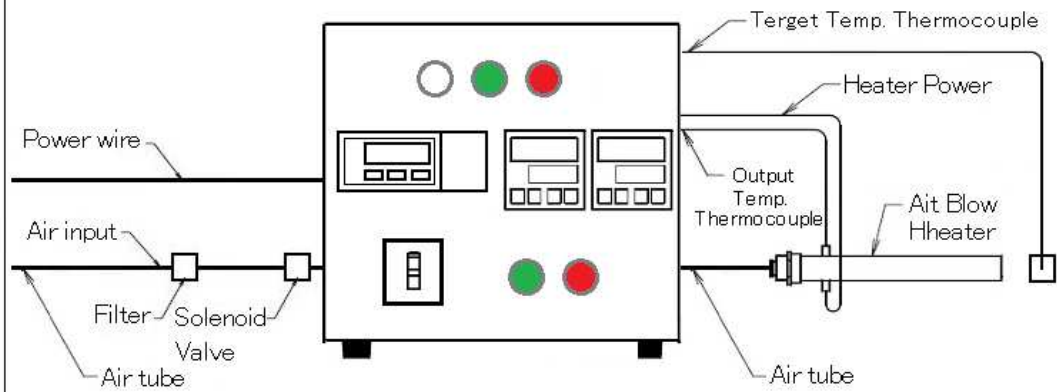
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[Example : Air Blow Heater overheat control]

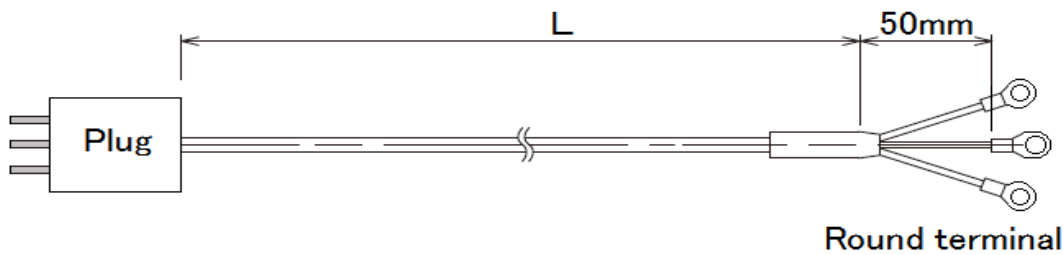


[Example : Air Blow Heater Target heat control]



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 >>

AHC3-TCDFM/15A-200L-TypeA-5m

No-touch High Temperatures Hating

Heat-tech

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