

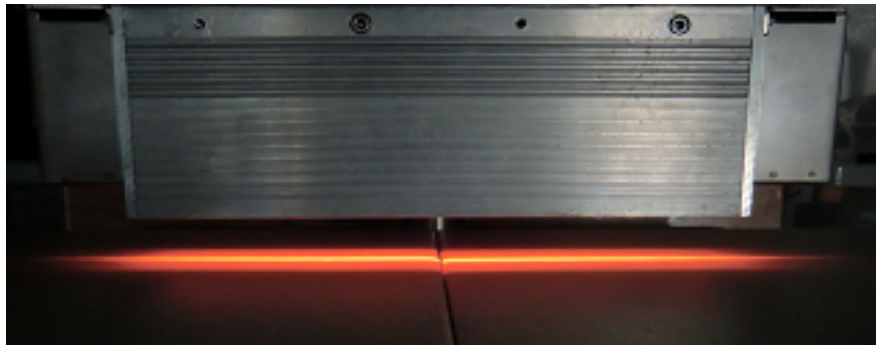
No-touch High Temperatures Heating

Heat-tech

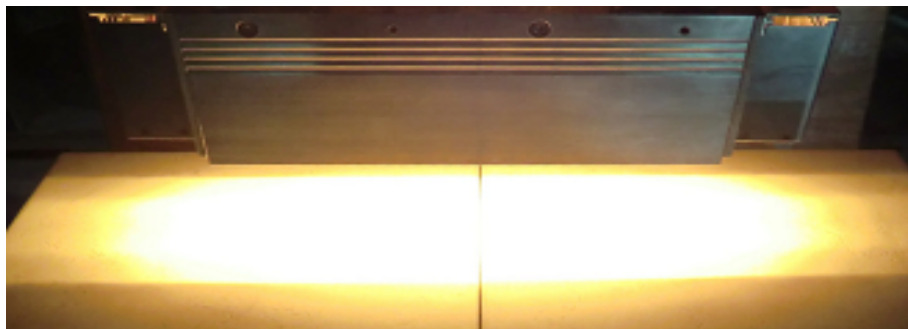
Our company is aiming at 'Offer of a simple, safe, clean industrial instrument'
to achieve the sustainable recycling society
that harmonizes with the global environment.



◀◀ No touch Point Heating ▶▶



◀◀ No touch Line Heating ▶▶



◀◀ No touch Plane Heating ▶▶

【Products line up】

Heat-tech

■ Air Blow Heater

Mini size Air Blow heater ABH-M series
Ultra-breeze type Air Blow Heater ABH-50W series
DC-power Air Blow Heater ABH-DC series
Standard type Air Blow heater ABH series
Large type Air Blow Heater ABHx6 series
High temp. type Air Blow Heater ABH-19A/22A/28A series
Air Blow Heater 200°C Heat resistant type ABH-HR series
Large size assembly unit type Air Blow Heater ABH-28AMX series
Clean room and chemical for Double Glass tube type Air Blow Heater DGH series
Clean room and chemical for Double glass tube type large Air Blow Heater DGHx6 series
Evacuation corresponding type Air Blow Heater VAH series

Needle nozzle for Air Blow Heater
Wide nozzle for Air Blow Heater
Special nozzle for Air Blow Heater
Air-pressure confirmation sensor for Air Blow Heater
Cross Nozzle for Air Blow Heater
Glass nozzle for Air Blow Heater
Protect Tube for Air Blow Heater

■ Air Blow Cooler

Small size Air Blow Cooler ABC-28 series
Air Blow Cooler Controller ACC series

■ For point heating Halogen point Heater

Super Small Halogen Point Heater HPH-12 / HPH-18
Small Halogen Point Heater HPH-30 / HPH-35 series
Small size High power Halogen Point Heater HPH-60 series
Middle Small size High power Halogen Point Heater HPH-80 series
Middle Small size High power Halogen Point Heater HPH-120 series
Large size High power Halogen Point Heater HPH-160 series

■ For highly accurate pinpoint heating

Halogen Glass Rod Heater HGRH-45 series
Halogen Glass Rod Heater HGRH-70 series

■ For line heating Halogen Line Heater

For line heating Halogen Line Heater HLH-30 series
For line heating Halogen Line Heater HLH-45 series
For line heating Halogen Line Heater HLH-55 series
For line heating Halogen Line Heater HLH-65 series

■ For plane heating Halogen Line Heater HLH series

For plane heating Halogen Line Heater HLH-35 series
For plane heating Halogen Line Heater HLH-40 series
For plane heating Halogen Line Heater HLH-50 series
For plane heating Halogen Line Heater HLH-60 series
For area heating Halogen Area Heater HAH series

■ For plug-in heating Halogen Double-Side Heater

Halogen Double-Side Heater HDSH series

■ For circular heating Halogen ring heater

Halogen Ring Heater HRH series

■ Mid-infrared Carbon heater

For plane heating Carbon Line Heater CFLH-40 series

For line heating Carbon Line Heater CFLH-45 series

For plane heating Carbon Line Heater CFLH-50 series

For peripheral heating Carbon Ring Heater CFRH series

For tube heating Carbon Spiral Heater CFSH series

■ Far-infrared Heater

Far-infrared Point Heater FPH series

Condensing the far-infrared line heater FLH-30 series

Condensing the far-infrared line heater FLH-55 series

Condensing the far-infrared line heater FLH-65 series

Parallel beam type far-infrared line heater FLH-35 Series

Parallel beam type far-infrared line heater FLH-60 Series

Far-infrared Panel heaters PHX series

■ Heater Stand & Mounting bracket

Air Blow Heater Vertical Stand

T-type stand for small hot air heater

H-type stand for medium and large heater

Flexible heater stand FXS-600

L-type stand for heaters

Cubic Test Stand for middle & large size heater

■ Heater Controllers

Thermocontroller built-in heater controller HCA series

High-performance air blow heater controller AHC3 series

Manual halogen heater controller HCV series

Halogen heater Controller Feedback control type HCF series

Pulse input heater controller for halogen heater HCP series

Speed proportional heater controller HCS series

High-performance Heater Controller HHC2 series

Stepset Controller Profile-maker SSC series

Power Cable for Heater Controller

■ Ultraviolet Equipment

Ultraviolet point type irradiation device UVP-30

Ultraviolet point type irradiation device UVP-60

Ultraviolet line type irradiation device UVL-115

Manual power supply controller UVPC-1500V

Ultraviolet rays sterilization and strong ozone deodorant

Ultraviolet lamps Cold Cathode Mercury Lamp Mini U Bulb UVCCU-M series

Ultraviolet lamps Cold Cathode Mercury Lamp Jacket U Bulb UVCCU-J series

Ultraviolet lamps Cold Cathode Mercury Lamp U Bulb UVCCU/UVCCW series

Ultraviolet lamps Cold Cathode Mercury Lamp Straight Bulb UVCCS series

Ultraviolet lamps Hot Cathode Mercury Lamp U Bulb UVHCU series

Ultraviolet lamps Hot Cathode Mercury Lamp Straight Bulb UVHCS series

For Ultraviolet rays point type irradiator UVP-30 Manual power supply controller UVPC-3.6V series

For cold cathode low pressure mercury lamps For Ultraviolet rays point type irradiator UVP-60

■ Laboratory Kit

Air Blow Heater Laboratory Kit burner type LKABH-13AM+ HCAFM + AS-1

Air Blow Heater Laboratory Kit LKABH-13AM/220V-350W + HCAFM

Air Blow Heater Laboratory Kit LKABH-19AM/220V-1.6kW+ HCAFM

Air Blow Heater Laboratory Kit LKABH-34NM/220V-3kW + HCAFM

Halogen Point Heater Laboratory-kit LKHPH-35CA/f15/12V-110W/GW + HCV

Halogen Point Heater Laboratory-kit LKHPH-60FA/f30/36V-450W +HCVD

Halogen Point Heater Laboratory-kit LKHPH-120FA/f45/200V-1kW +HCVD

Halogen Line Heater Laboratory-kit LKHLH-35A/f∞/100V-1000W +HCVD

Halogen Line Heater Laboratory-kit LKHLH-55A/f25/200V-2kW + HCVD

Halogen Line Heater Laboratory-kit LKHLH-60A/f∞/200V-2kW + HCVD

UV Irradiator Lab Kit LKUVP-30+UVPC

UV Irradiator Lab Kit LKUVP-60+UVPC

UV Irradiator Lab Kit LKUVL-115

■ Liquid level control equipment

Drum can Level Communicator DLC series

Water Surface Oil Film Detector C-200

■ Peripherals

Heat and Chemical resistance PEEK tape

【 Mini size Air Blow heater ABH-M series 】



Tip diameter $\Phi 4$
 Ultra-small match size $\Phi 6$ ABH-4D/100V-100W
 Tip diameter $\Phi 6$
 Ultra-small tobacco size $\Phi 8$ ABH-6□/100V-100W

For pinpoint heating.

【 Ultra-breeze type Air Blow Heater ABH-50W series 】



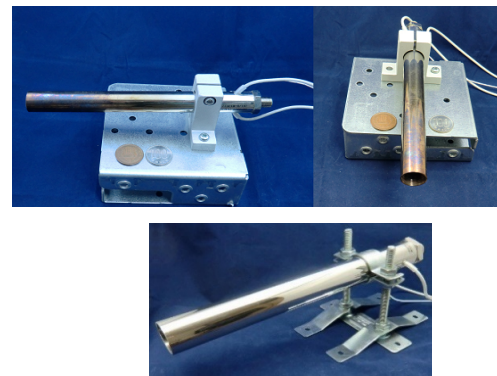
User can super breeze heating of 0.25L / min.

【 DC-power Air Blow Heater ABH-DC series 】



Manufacture at the range of DC12V:50W-100W.
 Manufacture at the range of DC24V:50W-200W.

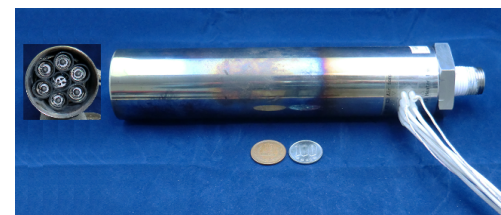
【 Standard type Air Blow heater ABH series 】



Simple, safe, clean, super-small high temperature heating device, using air as ubiquitous material.

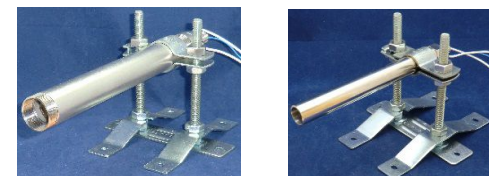
“Air Blow Heater” considers the resources problem, and promotes the materials science reformative.
 High heating for Gas and Air, Easy management temperature
 Air Blow Heater is in direct contact with the heating gas.
 Outside diameter is compact, high density of the heating surface area is large, heated to regular 900 °C / highest 1000 °C the gas passage.

【 Parallel large size Air Blow Heater ABH-X6 series 】



Manufacture at the range of $\Phi 38 \sim \Phi 101.6$, Max.30kW.

【 High temp. type Air Blow Heater ABH-19A/22A/28A series 】

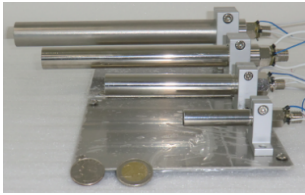


Discharge hot air more than 1000 °C.
 Ideal for pre-heating vacuum chamber and resin ballistics.

【 Large size assembly unit type Air Blow Heater ABH-28AMX series 】



Large output of 45kW.



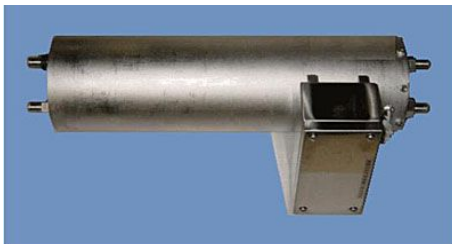
【 200°C Heat resistant type Air Blow Heater ABH-HR series 】

ABH-HR can heat gas in an environment of 200°C
 ABH-HR can discharge high temperature air up to 1000°C.



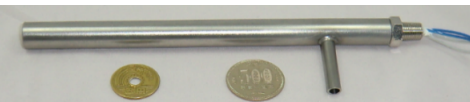
【 Clean room and chemical for Double Glass tube type Air Blow Heater DGH series 】

This heater eliminated output of contamination to the limit.
 Because the heating element and the sensor do not touch gas, it is applicable also to heating of vapour or low-concentration corrosive gas.



【 Clean room and chemical for Double glass tube type large Air Blow Heater DGH-X6 series 】

Manufacture at the range of 6~Φ 139.86、Max.12kW.



【Evacuation corresponding type Air Blow Heater VAH series】

For the high purity of the gas mixture
 For Deoxygenated nitrogen heating of semiconductor
 For Deoxygenated nitrogen heating of soldering and brazing
 For the pre-heating of the vacuum chamber



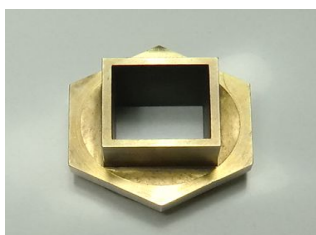
【 Air Blow Heater Needle Nozzle 】

It's most suitable for the pinpoint heating difficult so far.
 Even outside diameter Φ 1.0-6.0 prepared the rich line-up.
 Please use it for device heating on the printed circuit board and minute processing of arts and crafts.



【 Air Blow Heater Wide Nozzle 】

It's most suitable for heating of filamentous work difficult so far.
 The width of the balloon are 10mm, 15mm and 18.5mm types.
 Moreover, it is possible to use it as a spatula of air.



【 Air Blow Heater special nozzle 】

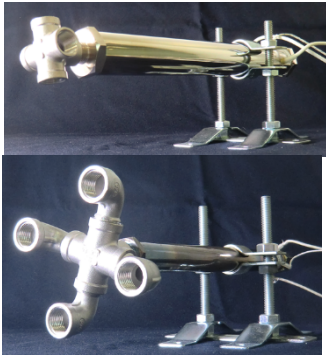
Square-shaped nozzle

We manufacture the nozzle according to the shape of the object to be heated.



【 Air Blow Heater Glass nozzle 】

It demand to avoid the discharge of the metal ion is for the semiconductor product heating.



【 Cross Nozzle for Air Blow Heater 】

For use exclusively with medium and large size Air Blow Heaters.

When combined with a hot air outlet fitting, it blow hot air from 4 sides.

Please insert into a pipe or hole and use for heating or drying. After inserting it all the way in, it sprays hot air along the side wall when pulled out, making it ideal for removing water droplets.

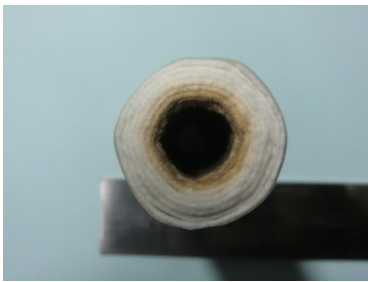
■ Air Blow Heater peripherals

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【 Air-pressure confirmation sensor 】

To prevent the calm energizing (heat without airflow), it set up on the input side.



【 Super Air Heater Protect Tube 】

Custom-designed will produce the protection tube according to the outside diameter and the length. Ceramic paper of heatproof 1250°C was used.

It becomes dangerous prevention in the Miss touch for a short time though it is felt that it is hot a little because heat is radiated for the thermal storage prevention.

* When protector tube is installed, radiation is oppressed, so heating efficiency rises a little.

■ Air Blow Cooler

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【 Small size Air Blow Cooler ABC-28 series 】

1. ABC produces cold air at 0 °C.
2. This is eco-friendly products not use refrigerant.
3. The cold air cooler can be precise temperature control.
4. The Air Blow Cooler uses air for non-contact cooling.
5. User can attach metal fittings of various lengths.
6. It is clean.

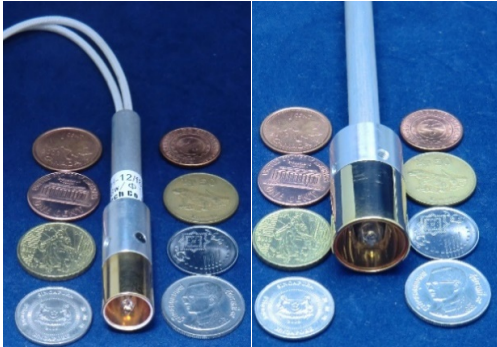


【 Air Blow Cooler Controller ACC series 】

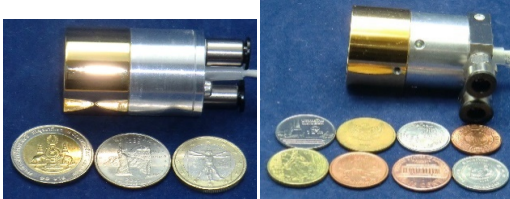
1.ACC performs stable cooling control by feedback control using a thermocouple.

2.ACC is possible to report that the cooling temperature has not been reached as an option.

3.In addition, the jetting temperature can be externally output to 4-20mA as an option.



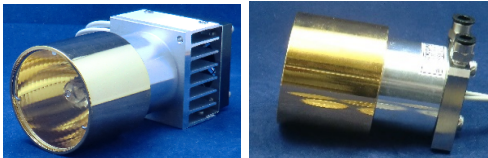
【 Super Small Halogen Point Heater HPH-12 / HPH-18 】
 Reflector diameter $\Phi 12 / \Phi 18$
 1) This heater can be 800 ~ 900 °C heating the point of $\phi 2.5$ in a very small.
 2) To achieve the perfect clean heating, heating is also available in a clean room or vacuum.
 3) Conventional can now also heating of did not like narrow space can accommodate only an optical fibber or a laser.
 4) This heater is no lighting direction of the limit, you can how to use while moving.



HPH-30

HPH-35

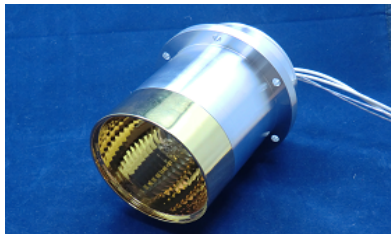
【 Small Halogen Point Heater HPH-30 / HPH-35 series 】
 Reflector diameter $\Phi 30 / \Phi 35$
 HPH-35 is a protective glass-mounted HPH-30.
 Are air-cooled & Water-cooled
 HPH-30 Point diameter $\Phi 5 \sim 9$ Focal length 15 ~ 40mm
 HPH-35 Point diameter $\Phi 5 \sim 8$ Focal length 12 ~ 30mm



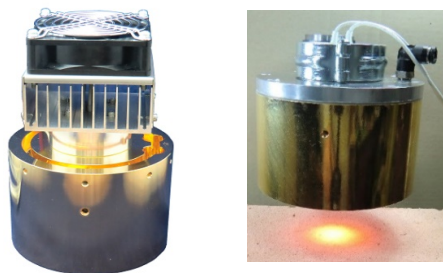
<<Air Cool>>

<<Water Cool>>

【 Small size High power Halogen Point Heater HPH-60 series 】
 Reflector diameter $\Phi 60$
 Are air-cooled & Water-cooled
 Point diameter $\Phi 5 \sim 13$ Focal length 15 ~ 105mm
 Watts 150W ~ 450W



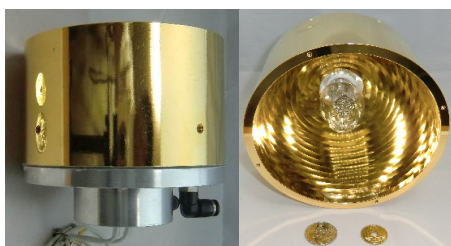
【 Middle Small size High power Halogen Point Heater HPH-80 series 】
 Reflector diameter $\Phi 80$
 Are air-cooled
 Point diameter $\Phi 50$ Focal length 40mm
 Watts 500W ~ 1kW



<<Air Cool>>

<<Water Cool>>

【 Middle Small size High power Halogen Point Heater HPH-120 series 】
 Reflector diameter $\Phi 120$
 Are air-cooled & Water-cooled
 Point diameter $\Phi 21 \sim 54$ Focal length 45 ~ 250mm
 Watts 500W ~ 1000W = 1kW

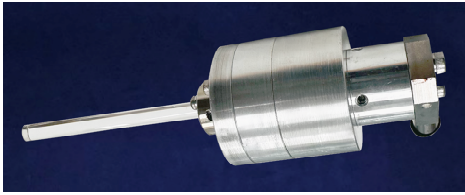


【 Large size High power Halogen Point Heater HPH-160 series 】
 Reflector diameter $\Phi 160$
 Water-cooled
 Point diameter $\Phi 24 \sim 200$ Focal length 40 ~ 1000mm
 Watts 2kW · 2.5kW · 3kW

■ For plane heating Halogen Line Heater

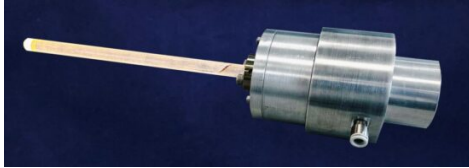
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【 Halogen Glass Rod Heater HGRH-45 series 】



- 1) Possible to heat to a max.of 700°C with pinpoint accuracy.
- 2) Can be inserted into liquid to heat liquid directly.
- 3) Heating can be done even in narrow and distant spaces.
- 4) Dual role for one person. If you divide the condenser mirror, it can be used as a normal halogen point.

【 Halogen Glass Rod Heater HGRH-70 series 】

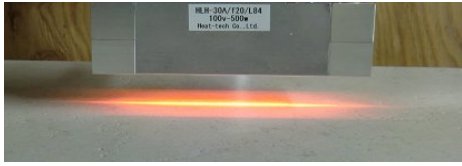


- 1) Possible to heat to a max.of 890°C with pinpoint accuracy.
- 2) Can be inserted into liquid to heat liquid directly.
- 3) Heating can be done even in narrow and distant spaces.
- 4) Dual role for one person. If you divide the condenser mirror, it can be used as a normal halogen point.

■ For line heating Halogen Line Heater

Heat-tech

【 For line heating Halogen Line Heater HLH-30 series 】



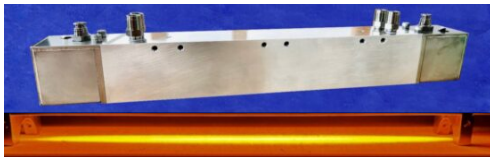
Are air-cooled & Water-cooled

Focal length 20mm, Reflector length 84~2500mm
Watts 200W~5kW

1. Sharp linear high-temperature heating!
2. High-temperature 800 °C - 1000 °C in 5 seconds!
3. It is clean.

【 Ultra-high temperature, HLH-45 series for line heating 】

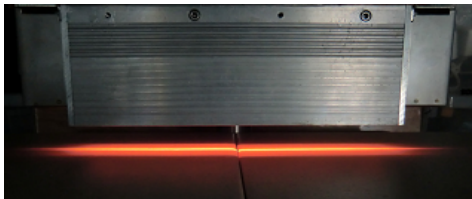
Water-cooled



Reflector width 45mm, Focal length 20mm, Reflector length 280mm
Watts 2kW~5kW

- 1) HLH-45 can heat linearly up to 1580° C.
- 2) Compact and High output
- 3) Two heaters can be placed opposite each other to sandwich and heat the object to be heated.

【 For line heating Halogen Line Heater HLH-55 series 】



Reflector width 55mm, Are air-cooled & Water-cooled

Focal length 25mm, Reflector length 100~2500mm
Watts 2kW~18kW

1. Sharp linear high-temperature heating!
2. High-temperature 1000 °C - 1400 °C in 5 seconds!
3. HLH-55 is clean.

【 For line heating Halogen Line Heater HLH-65 series 】

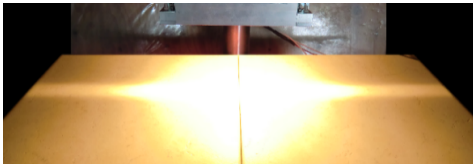


Reflector width 65mm, Are air-cooled & Water-cooled

Focal length 75mm, Reflector length 100~2500mm
Watts 2kW~18kW

1. Sharp linear high-temperature heating!
2. High-temperature 1000 °C - 1400 °C in 5 seconds!
3. HLH-65 is clean.

【 For plane heating Halogen Line Heater HLH-35 / f∞ series 】



Reflector width 35mm, Are air-cooled & Water-cooled

Reflector length 82~2500mm

Watts 200W~5kW

1. High-temperature heating of the wide surface!
2. High-temperature 800 °C – 1000 °C in 5 seconds!
3. It is clean.

【 For plane heating Halogen Line Heater HLH-40 / f∞ series 】



Reflector width 40mm, Water-cooled

Reflector length 280mm

Watts 2kW•3KW•5KW

- 1) It can be heated up to 900°C in strips
- 2) Miniaturization of high output
- 3) This heater is a higher-end model of HLH-35

【 For plane heating Halogen Line Heater HLH-50 / f∞ series 】



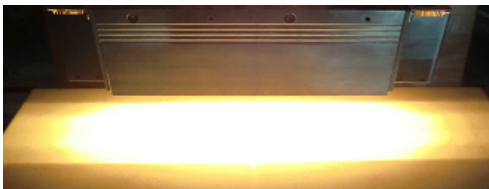
Reflector width 50mm, Water-cooled

Reflector length 280mm

Watts 2kW•3KW•5KW

- 1) It can be heated up to 1050°C in strips
- 2) Miniaturization of high output
- 3) Installation of equipment designed in inch units is also suitable.

【 For plane heating Halogen Line Heater HLH-60 / f∞ series 】



Reflector width 50mm, Are air-cooled & Water-cooled

Reflector length 100~2500mm

Watts 2kW~18kW

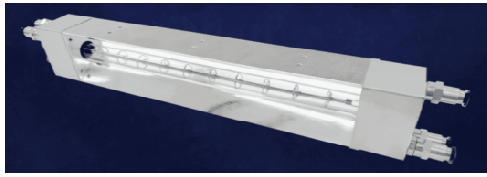
1. High-temperature heating of the wide surface!
2. High-temperature 1000 °C – 1400 °C in 5 seconds!
3. It is clean.



【 For area heating Halogen Area Heater HAH series 】

1. Extensive surface of high-temperature heating!
2. Air-cooled water-cooled pipe is unnecessary!
3. High-temperature 1000 °C – 1400 °C in 5 seconds!
4. Instant heating, it can reduce heating time.
5. Through the glass of the heating can.
6. This heater can temperature control of high precision.
7. It is clean.

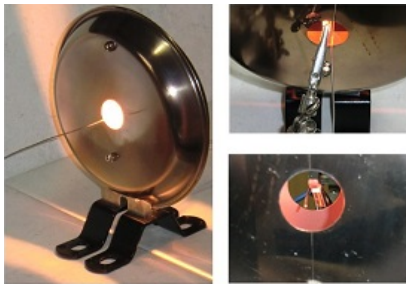
■ For plug-in heating Halogen Double-Side Heater



【 Halogen Double-Side Heater HDSH series 】

1. Both sides can be heated with one heater.
2. Suitable for heating molds.
3. Suitable for heating gaps.
4. Can be connected and used in multiple units.
5. Instant heating, it can reduce heating time.
6. It is clean.

■ For circular heating Halogen ring heater



【 For circular heating Halogen ring heater HRH series 】

1. Heating the wire from the perimeter!
2. For heat shrink processing of wire harness!
3. For heat shrink processing of hose tube!
4. Instant heating, it can reduce heating time.
5. This heater can temperature control of high precision.
6. It is clean.

■ Mid-infrared Carbon heater

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【 For plane heating Carbon Line Heater CFLH-40 series 】

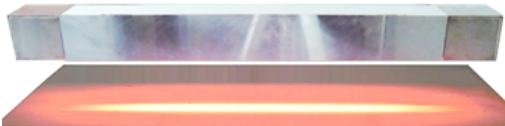


1. Emits mid-infrared rays close to the absorption wavelength of water

The peak wavelength of radiant energy is approximately $2\sim 3\ \mu\text{m}$, making it ideal for heating water droplets, aqueous solutions, and other hydrated compounds.

2. Ideal for resin heating
3. Quick start-up
4. Free heating direction

【 For line heating Carbon Line Heater CFLH-45 series 】



This is the focusing type of CFLH-40.

【 For plane heating Carbon Line Heater CFLH-50 series 】



This is the wide type of CFLH-40.

【 For peripheral heating Carbon Ring Heater CFRH series 】



1. Illuminates in a circular pattern from all directions.

Illuminates in a circular pattern from all directions, so there are no blind spots.

2. Ideal for resin heating
3. Quick start-up
4. Free heating direction

【 For tube heating Carbon Spiral Heater CFSH series 】



1. Ideal for non-contact liquid heating

The peak wavelength of radiant energy is approximately $2\sim 3\ \mu\text{m}$, making it ideal for heating water droplets, aqueous solutions, and other hydrated compounds.

2. Illuminates in a circular pattern from all directions.
3. Quick start-up
4. Free heating direction

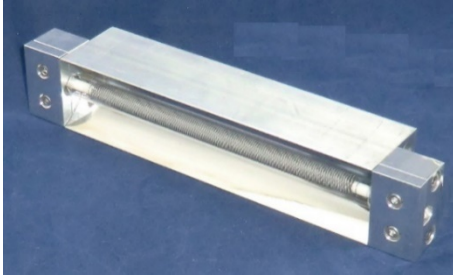
■ Far-infrared Point Heater

Heat-tech



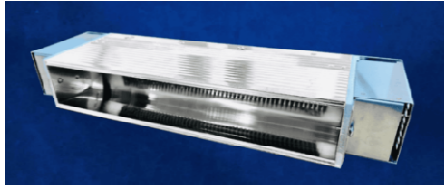
【 Fast heating Far-infrared Point Heater FPH series 】

1. Rising is early, so heating time can be reduced.
2. Highly precise temperature control can be done.
3. Frequency management of heating element can be done.
4. This is a far-infrared radiation, so this is good at heating of glass.
5. Ultra-compact.
6. Clean.



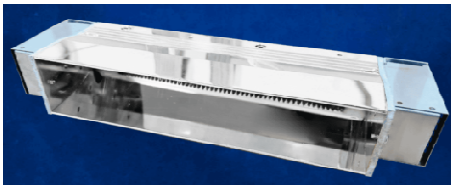
【 Fast heating Far-infrared Line Heater FLH-30 series 】

1. This heater can heat the narrow area.
2. Rising is early, so heating time can be reduced.
3. Highly precise temperature control can be done.
4. Frequency management of heating element can be done.
5. This is a far-infrared radiation, so this is good at heating of glass.
6. Ultra-compact.
7. Clean.



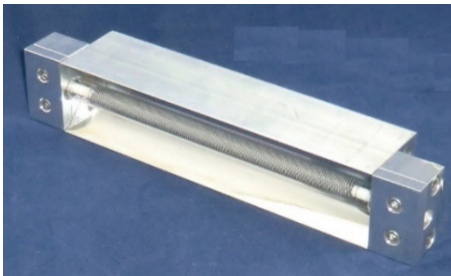
【 Fast heating Far-infrared Line Heater FLH-55 series 】

1. Light can be focused and heated in a linear shape.
2. Rising is early, so heating time can be reduced.
3. Highly precise temperature control can be done.
4. This is a far-infrared radiation, so this is good at heating of glass.
5. Clean.



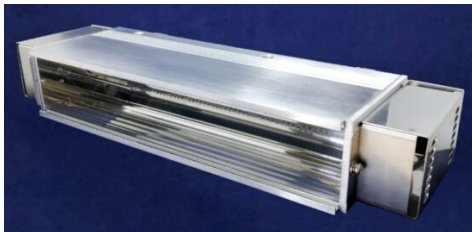
【 Fast heating Far-infrared Line Heater FLH-65 series 】

1. Light can be focused and heated in a linear shape.
2. Rising is early, so heating time can be reduced.
3. Highly precise temperature control can be done.
4. Frequency management of heating element can be done.
5. This is a far-infrared radiation, so this is good at heating of glass.
6. Clean.



【 Fast heating Far-infrared Line Heater FLH-35 series 】

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



【 Fast heating Far-infrared Line Heater FLH-60 series 】

1. Rising is early, so heating time can be reduced.
2. Highly precise temperature control can be done.
3. Frequency management of heating element can be done.
4. This is a far-infrared radiation, so this is good at heating of glass.
5. Clean.
6. When this is lined up, plane heating can be done.



【 Instant heating, Far-infrared Panel heaters PHX series 】

1. Far-red and near-red with a high radiation, I can in a short time in a uniform heating.
2. Since the surface is in the lattice type, it will have a good radiation distribution.
3. It is a clean panel heater with no dust.
4. This heater can temperature control of high precision.
5. This heater is excellent in safety.
6. Fast cooling at the time of trouble, you can reduce the risk of ignition of the object to be heated.

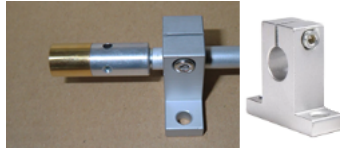
■ Heater Stand & Mounting bracket

Heat-tech



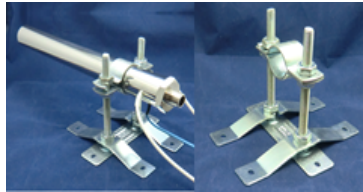
【Air Blow Heater Vertical Stand】

The Air Blow Heater can be sprayed vertically.
Replaces Bunsen burners.
Also available with a stop valve (cock).



【T-type Stand for small air blow heater】

For Air blow heater: ABH-4□・6□・8□・11M・13A・19A・22N・22A・28A
For Halogen point heater: HPH-12・18・30



【H-type Stand for middle & large size heater】

For Air blow heater: ABH-19A・22N・22A・28A・34N・43N
For Air blow heater: ABH-38x6・50x6・61x6・102x6
For Air blow heater: DGH-19N・34N・43N・50N・102x6・140x6
For Halogen point heater: HPH-30・35・60・120・160



【 Flexible Stand FXS-600 】

It's most suitable for the pinpoint heating difficult so far.
Even outside diameter Φ 1.0-6.0 prepared the rich line-up.
Please use it for device heating on the printed circuit board and
minute heating.



【L-type Stand for small size heater】

For Air blow heater: ABH-4□・6□・8□・11M・13A・15H・18H
For Halogen point heater: HPH-30・35



【L-type Stand for middle & large size heater】

For Air Blow heater: ABH-34N・43N・38x6・50x6・61x6
For Halogen point heater: HPH-60・120・160
For Halogen line heater: All models



【 Cubic Test Stand for middle & large size heater 】

For Air Blow heater: ABH-34N・43N・38x6・50x6・61x6
For Halogen point heater: HPH-60・120・160
For Halogen line heater: All models
For Infrared Heater: All models
For Carbon fiber heater: All models



【 Temperature controller mounted heater controller HCA series 】
By overheating zero setting, providing a stable heating.

1. HCA temperature controller equipped with single-function
2. HCASV supervisor-function
3. HCAW two heater control type
4. HCAFM Thermocontroller & Flow control type



【 Air Blow Heater controller AHC3 series 】

Combine basic functions with options to customize and use.
Stable air heating by setting a non-overheat of the temperature controller.
Flow control ensures 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.



【 Manual power controller HCV series 】

1. Manual Volts adjustment built in.
2. Also a power supply on-board HCVD air-cooling fan.
3. Color universal design type can be specified CUD as an option.



【 Halogen heater Controller Feedback control type HCF series 】

1. The heating temperature can be set with the temperature controller.
2. The feedback control of the halogen heater is possible when use a radiation thermometer.



【 Pulse input heater controller for halogen heater HCP series 】

1. HCP 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.



【 Speed proportional heater controller HCS series 】

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.



【 High-performance large-capacity heater controller HHC series 】

Combine basic functions with options to customize and use.
The inrush current in the slow-up, and long life.
User can more sophisticated control with rich options.

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.

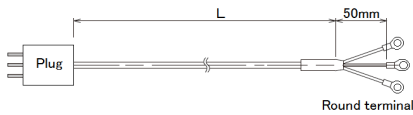


【 Step set controller profile manufacturers SSC series 】

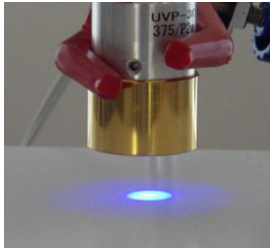
1. Multistage setting function
2. Sine curve setting function
3. Gradient setting function
4. One-shot heating function
5. Trigger Shift function (optional)
6. Multi-monitor function
7. Reference temperature input selection function
8. The average value of the control input
9. 2 heater coordination heating function (2-loop)
10. 2 heater independent heating function (2-loop)
11. 4 Heater coordination heating function (4-loop)

【 Power Cable for Heater Controller 】

Manufacture the specification of the power cable.

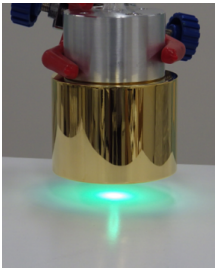


【 Ultraviolet point type irradiation device UVP-30 series 】



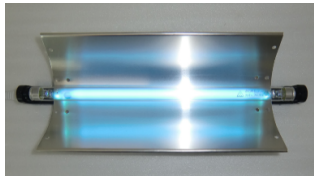
- 1) UVP-30 is compact and can irradiate a point of ϕ 13 with UV rays. UVP-30 is an ultraviolet point type irradiator that points the light of an ultraviolet lamp with a condensing mirror.
- 2) user can select from 5 wavelengths of near ultraviolet (UVA): 355nm, 360nm, 365nm, 370nm, and 375nm. Activation of cell functions and suntan effect can be compared by wavelength.
- 3) The manual variable power supply allows user to easily adjust the irradiation amount by adjusting the current. The effect of UV rays can be compared by the amount of irradiation.

【 Ultraviolet point type irradiation device UVP-60 series 】



- 1) UV-C 253.7nm irradiation is possible.
- 2) UVP-60 is compact and can irradiate a point of ϕ 12 with UV rays. UVP-60 is an ultraviolet point type irradiator that points the light of an ultraviolet lamp with a condensing mirror.
- 3) Perfect clean irradiation is realized, and irradiation in a clean room or vacuum is also possible.
- 4) A light-shielding hood ensures the safety of workers.

【 Ultraviolet line type irradiation device UVL-115 series 】



- 1) Built-in inverter ballast in a slim housing. Just supply 220V and you can irradiate ultraviolet rays.
- 2) UVL-115 has a strong bactericidal action. The 253.7nm-8W lamp has a median wavelength of 253.7nm (transparent color) and an output of 2.5W in the UVC region. A very small amount of bluish-purple and green are also output.
- 3) Since the start-up is fast, the irradiation time can be shortened. 80% output in 2 seconds.

【 Manual power supply controller UVPC-3.6V series 】

For Ultraviolet rays point type irradiator UVP-30



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.

【 Manual power supply controller UVPC-1500V 】

For cold cathode low pressure mercury lamps For Ultraviolet rays point type irradiator UVP-60



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.

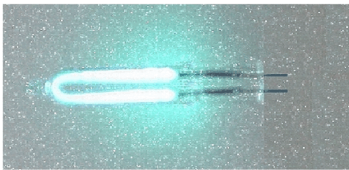


【 Ultraviolet rays sterilization and strong ozone deodorant 】
Volatile organic compound remove.

- Solvent smell of the ethanol removed in chemical factory.
- Removal of painting smell in body after car body is painted
- Resolution removal of solvent smell of Nail Salon ethanol.
- Prevention of sick house syndrome and multiple chemical sensitivity.

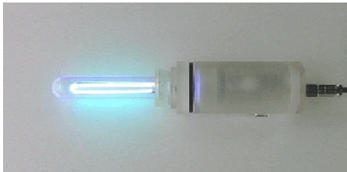
Formaldehyde, Ammonia, acetaldehyde, toluene, xylene, thinners, ethyl benzene, lower fatty acid, to remove and disassemble.

【 Ultraviolet lamps Cold Cathode Mercury Lamp Mini U Bulb UVCCU-M series 】



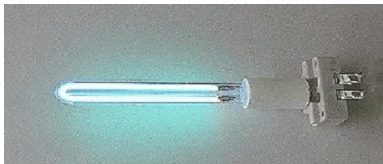
Volts200V/240V/300V、Watts1w/1.2w/1.5w

【 Ultraviolet lamps Cold Cathode Mercury Lamp Jacket U Bulb UVCCU-J series 】



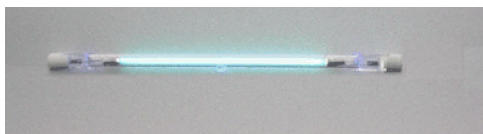
Volts200V/240V/300V、Watts1w/1.2w/1.5w

【 Ultraviolet lamps Cold Cathode Mercury Lamp U Bulb UVCCU/UVCCW series 】



Volts300V/350V/400V/450V、Watts3w/7w/8w/9w

【 Ultraviolet lamps Cold Cathode Mercury Lamp Straight Bulb UVCCS series 】



Volts170V/300V/350V/400V、Watts3.5w/6w/7w/8w

【 Ultraviolet lamps Hot Cathode Mercury Lamp U Bulb UVHCU series 】



Volts56v/95v/100V/130V/160V
Watts20W/40W/70W/90W/110W

【 Ultraviolet lamps Hot Cathode Mercury Lamp Straight Bulb UVHCS series 】



Volts95v/100V/130V/160V/200V
Watts40W/70W/90W/110W/200W

■ Air Blow Heater Laboratory-kit

Heat-tech

【 Air Blow Heater Laboratory Kit burner type LKABH-13AM+ HCAFM + AS-1】

- 1). Since it is a kit, the Air Blow Heater can be used easily.
- 2). Output a moment 900 °C high temperature hot air.
- 3). Equipped with an air regulator. Adjust the air pressure while Air Blow Heating test.

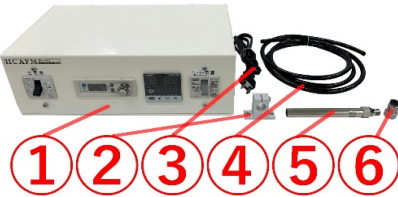


- ① Air Blow Heater Vertical Stand
- ② Air Blow Heater ABH-13AM/220V-350W/K (with built-in thermocouple code 4M)
- ③ $\Phi 8$ Urethane tube 4M
- ④ Heater Controller HCAFM
- ⑤ Power cable for heater controller
- ⑥ Foot switch

(※ Lab-Kit is delivered as individual components.)

【 Air Blow Heater Laboratory Kit LKABH-13AM/220V-350W + HCAFM 】

- 1). Since it is a kit, the Air Blow Heater can be used easily.
- 2). Output a moment 900 °C high temperature hot air.
- 3). Equipped with an air regulator. Adjust the air pressure while Air Blow Heating test.
- 4). Equipped with a thermocouple to the hot air blow section.
- 5). Temperature can be managed easily.
- 6). Various attachments can be mounted to the screw portion of the M17F.
- 7). Air is supplied, and it heats and only blows off!
- 8). No flame safe and clean! No flame, it can easy clearly photo shoot!



- ① Heater Controller HCAFM
 - ② Stand for the Air Blow Heater
 - ③ Power cable for heater controller
 - ④ Φ8Urethane tube 1m
 - ⑤ Air Blow Heater ABH-13AM/220V-350W/K
 - ⑥ One-touch connector for the Air Blow Heater
- (※ Lab-Kit is delivered as individual components.)

【 Air Blow Heater Laboratory Kit LKABH-19AM/220V-1.6kW+ HCAFM 】

- 1). Since it is a kit, the Air Blow Heater can be used easily.
- 2). Output a moment 900 °C high temperature hot air.
- 3). Equipped with an air regulator. Adjust the air pressure while Air Blow Heating test.
- 4). Equipped with a thermocouple to the hot air blow section.
- 5). Temperature can be managed easily.
- 6). Various attachments can be mounted to the screw portion of the M17F.
- 7). Air is supplied, and it heats and only blows off!
- 8). No flame safe and clean! No flame, it can easy clearly photo shoot!

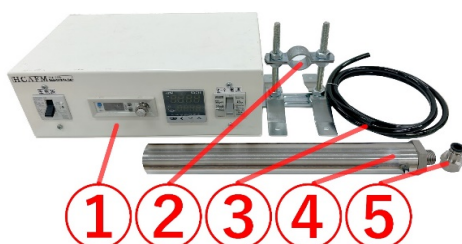


- ① Heater Controller HCAFM
- ② Stand for the Air Blow Heater
- ③ Φ8Urethane tube 1m
- ④ Air Blow Heater ABH-19AM/220V-1.6kW/K
- ⑤ One-touch connector for the Air Blow Heater

(※ Lab-Kit is delivered as individual components.)

【 Air Blow Heater Laboratory Kit LKABH-34NM/220V-3kW + HCAFM 】

- 1). Since it is a kit, the Air Blow Heater can be used easily.
- 2). Output a moment 900 °C high temperature hot air.
- 3). Equipped with an air regulator. Adjust the air pressure while Air Blow Heating test.
- 4). Equipped with a thermocouple to the hot air blow section.
- 5). Temperature can be managed easily.
- 6). Various attachments can be mounted to the screw portion of the M32F.
- 7). Air is supplied, and it heats and only blows off!
- 8). No flame safe and clean! No flame, it can easy clearly photo shoot!

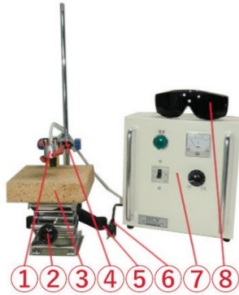


- ① Heater Controller HCAFM
- ② Stand for the Air Blow Heater
- ③ Φ8Urethane tube 1m
- ④ Air Blow Heater ABH-34NM/220V-3kW/K
- ⑤ One-touch connector for the Air Blow Heater

(※ Lab-Kit is delivered as individual components.)

【 Halogen Point Heater Laboratory-kit LKHPH-35CA/f15/12V-110W/GW + HCV 】

- 1). Easily heating high temperatures by the kit !
- 2). Easily heating high temperatures at focal size $\Phi 6$!
- 3). Easily adjusting the radiation diameter (focal size) by manual lift!
- 4). Easily changing the heat power (wattage) by slide transformer !
- 5). Easily cooling by compressed air!



- ① Air cool type small Halogen Point Heater HPH-35CA/f15/12V-110W/GW
 - ② Manual lift.
 - ③ Square Australia Brick. It is useful when place the test piece.
 - ④ Heater mounting bracket
 - ⑤ Test stand
 - ⑥ Power cable for heater controller
 - ⑦ Manual variable power supply HCV-AC100-240V/DC12V-300W
 - ⑧ Safety glasses against high intensity light
- ※ In addition to the above, compressed air for cooling is required for use.

(※ Lab-Kit is delivered as individual components.)

【 Halogen Point Heater Laboratory-kit LKHPH-60FA/f30/36V-450W +HCVD 】

- 1). Easily heating high temperatures by the kit!
- 2). Easily heating 1400°C case by max.temperature.
- 3). Easily adjusting the radiation diameter (focal size) by manual lift!
- 4). Easily changing the heat power (wattage) by slide transformer!
- 5). Easily cooling by cooling fan!



- ① Heater mounting bracket
- ② Manual lift.
- ③ Square Australia Brick. It is useful when place the test piece.
- ④ Test stand Pole & Base
- ⑤ Fan air cooling type Halogen Point Heater HPH-60FA/f30/36V-450W/GW
- ⑥ Power cable for heater controller
- ⑦ Manual variable power supply HCVD-AC100-240V/DC36V-600W
- ⑧ Safety glasses against high intensity light

(※ Lab-Kit is delivered as individual components.)

【 Halogen Point Heater Laboratory-kit LKHPH-120FA/f45/200V-1kW +HCVD 】

- 1). Easily heating high temperatures by the kit!
- 2). Easily heating 1300°C case by max.temperature.
- 3). Easily adjusting the radiation diameter (focal size) by manual lift!
- 4). Easily changing the heat power (wattage) by slide transformer!
- 5). Easily cooling by cooling fan!

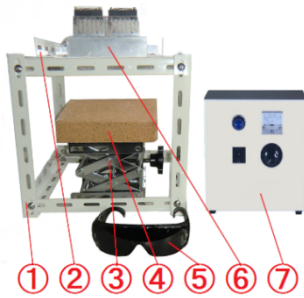


- ① Test Stand
- ② Halogen Point Heater HPH-120FA/f45/200V-1kW/GW
- ③ Refractory bricks
- ④ Manual lift. Up and down 80 mm by 16 rotating knobs, the accuracy is 0.5 mm.
- ⑤ Safety glasses against high intensity light
- ⑥ Manual variable power supply HCVD-AC200-240V/-AC200V-4KW

(※ Lab-Kit is delivered as individual components.)

【 Halogen Line Heater Laboratory-kit LKHLH-35A/f∞/100V-1000W +HCVD 】

- 1). Easily heating high temperatures by the kit !
- 2). Easily heating high temperatures at free range !
- 3). Easily adjusting the radiation area by manual lift!
- 4). Easily changing the heat power (wattage) by Manual power controller!
- 5). It is so simple cooling system use cooling fan.

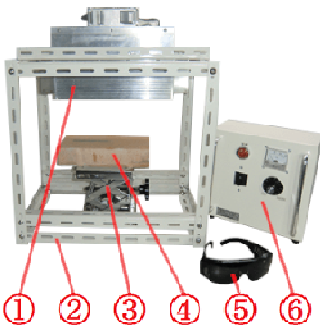


- ① Cubic test stand
- ② Heater mounting bracket
- ③ Manual lift.
- ④ Brick
- ⑤ Safety glasses against high intensity light
- ⑥ Halogen Line Heater HLH-35A/f∞/200V-1kW
- ⑦ Manual power controller HCVD-AC220V/AC200V-2KW

(※ Lab-Kit is delivered as individual components.)

【 Halogen Line Heater Laboratory-kit LKHLH-55A/f25/200V-2kW + HCVD 】

- 1). Easily heating high temperatures by the kit !
- 2). Easily line heating high temperatures at free range !
- 3). Easily adjusting the radiation area by manual lift!
- 4). Easily changing the heat power (wattage) by slide transformer !
- 5). It is so simple cooling system use cooling fan.

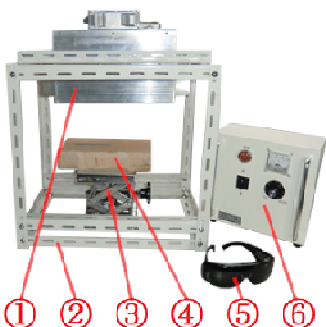


- ① Halogen Line Heater HLH-55A/f25/200V-2kW
- ② Cubic test stand
- ③ Manual lift.
- ④ Brick, This is useful when heating the test piece.
- ⑤ Safety glasses against high intensity light
- ⑥ Manual variable power supply HCV-AC200-240V/-AC200V-2KW

(※ Lab-Kit is delivered as individual components.)

【 Halogen Line Heater Laboratory-kit LKHLH-60A/f∞/200V-2kW + HCVD 】

- 1). Easily heating high temperatures by the kit !
- 2). Easily plate heating high temperatures at free range !
- 3). Easily adjusting the radiation area by manual lift!
- 4). Easily changing the heat power (wattage) by slide transformer !
- 5). It is so simple cooling system use cooling fan.



- ① Halogen Line Heater HLH-60A/f∞/200V-2kW
- ② Cubic test stand
- ③ Manual lift.
- ④ Brick, This is useful when heating the test piece.
- ⑤ Safety glasses against high intensity light
- ⑥ Manual variable power supply HCV-AC200-240V/-AC200V-2KW

(※ Lab-Kit is delivered as individual components.)

【 UV Irradiator Lab Kit LKUVP-30+UVPC 】

- 1). Since it is a kit, user can easily use the UV irradiation device.
- 2). UV irradiation of 375 nm is possible.
- 3). UV irradiation of $\Phi 13$ can be easily reproduced.
- 4). By a manual variable power supply user to easily adjust the irradiation amount by changing the current.
- 5). The manual lifting platform makes it easy to change and adjust the irradiation diameter.

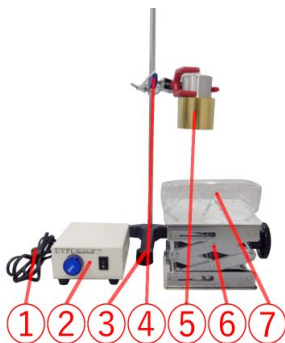


- ① Power cable for heater controller
- ② Manual variable power supply UVPC-3.6V
- ③ Test stand
- ④ Heater mounting bracket
- ⑤ Ultraviolet point type irradiation device UVP-30/f15/3.6v-25mA/375nm
- ⑥ Manual lift.
- ⑦ UV protection glasses

(※ Lab-Kit is delivered as individual components.)

【 UV Irradiator Lab Kit LKUVP-60+UVPC 】

- 1). Since it is a kit, user can easily use the UV irradiation device.
- 2). UV irradiation of 375 nm is possible.
- 3). UV irradiation of $\Phi 13$ can be easily reproduced.
- 4). The manual lifting platform allows for easy positioning.



- ① Power cable for heater controller
- ② Power controller UVPC-1500V
- ③ Test stand
- ④ Heater mounting bracket
- ⑤ Ultraviolet point type irradiation device UVP-60/f30/1500V-2W/253.7nm
- ⑥ Manual lift.
- ⑦ UV protection glasses

(※ Lab-Kit is delivered as individual components.)

【 UV Irradiator Lab Kit LKUVL-115 】

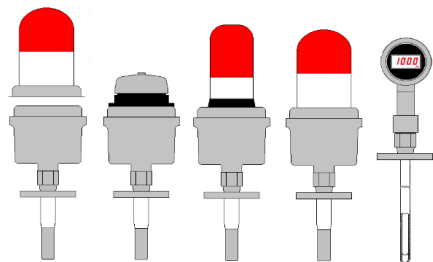
- 1). Since it is a kit, user can easily use the UV irradiation device.
- 2). Built-in amplifier makes lighting operation easy.
- 3). Irradiate 253.7 nm, which has a high sterilization effect, with a large output of 8 W.
- 4). The manual lifting platform allows for easy positioning.



- ① Double-open rotary clamp for fixing the irradiation device
- ② Ultraviolet linear irradiation device UVL-115/L245/253.7nm-8w
- ③ AC220V power cord 1.5m
- ④ Test stand base
- ⑤ Manual lifting platform
- ⑥ UV protection glasses

(※ Lab-Kit is delivered as individual components.)

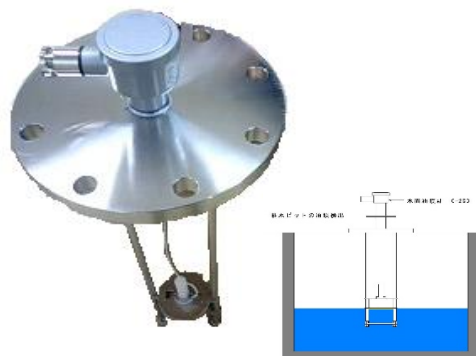
■ Liquid level control equipment



【 Drum can Level Communicator DLC-100 】

The usage is only inserted and turn on power !

- Warns with the bell and the light if drum can fills.
- To water, oil, and other liquids



【 Water Surface Oil Film Detector C-200 】

Relay Output and Detect Oil Film on the Water.

- Stable and can be detected in liquid shake.
- Water level fluctuations, follows the detector was attached to the floater up and down.
- The power supply, DC24V, AC110/220V, AC120/240V can also be produced.

■ Peripherals



【 PEEK resin has high heat resistance "Tough-tape" 】

PEEK resin with the world's first chemical-resistant tape heat insulation protection.

PEEK resin has high heat resistance, chemical resistance, abrasion wear resistance, excellent mechanical properties, barrier properties and radiation resistance, high purity, in addition to electrical insulation, has excellent hydrolysis resistance, low water absorption rate from a low penetration rate and to exert a material is ideal as a base film for high-performance tape.

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

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E-mail info@heat-tech.biz