High Quality Heating Elements & Sensor for PHOTOVOLTIC, FLAT PANEL DISPLAY and SEMICONDUCTOR INDUSTRIES





since1971







more than heaters!



TABLE OF CONTENTS

COMPANY PROFILE	2
AREA HEATERS	3
SUGGESTION SIZE FOR AREA HEATER	4
TUBULAR HEATERS	4
BENDING PRECAUTION FOR TUBULAR HEATER	5
HOT PLATES	6
SUGGESTION SIZE FOR HOT PLATE	7
TUBULAR HEATERS (CROSS SECTION: SQUARE)	7
INSTALLATION	8
SMALLAREA OF ALUMINUM HOT PLATE	9
2" CHUCK HEATER	10
CONNECTING LEAD WIRE	11
HIGH TEMPERATURE WIRES	11
ULTRA-HIGH-TEMPERATURE RING TERMINALS	12
PRECAUTIONS	13
INFRARED HEAT LAMP	14
SHORT WAVE QUARTZ INFRARED HEAT LAMP	15
TWIN TUBE INFRARED HEAT LAMP	16
MEDIUM WAVE TWIN TUBE LAMP	17
SHORT WAVE TWIN TUBE LAMP	17
FLEXIBLE HEATERS	18
PIPE HEATING	19
AIR HEATERS	20
GAS HEATER	22
SCRUBBER SYSTEM	23
THERMOCOUPLES	24
JUNCTION STYLES	25
MINERAL INSULATED SHEATH TYPE	25
TC WAFER	26
SPECIAL MADE THERMOCOUPLE FOR PV, LED, SEMICONDUCTOR AND FPD INDUSTRIE	S27
PAPERLESS RECORDER	28
PAPERLESS RECORDER OPTIONAL BOX	29
TERMS AND CONDITIONS	30
CONTACT INFORMATION	24

正泰電熱股份有限公司 SINCE 1971
CHENG TAY HEATER & INSTRUMENT CO., LTD.

Reaters.

COMPANY PROFILE

Established in 1971, CHENG TAY HEATER & INSTRUMENT CO., LTD. as known as "CT HEATERS" has been in the business of developing and introducing the latest machinery while pioneering new electrical heating techniques and comprehensive thermocouple design. We have the engineering and manufacturing capabilities to be or define world-class quality. Therefore, made us the only specialists in Taiwan that can supply tailor-made or prototype heating elements for the entire scientific and industrial spectrum. Our years of experience have enabled us to even help our clients to solve their own machinery problems or improving its performance.

For over 49 years, CT HEATERS has stood for quality, flexibility and innovation. Our clients come to us with the knowledge that whatever their heating needs are, we have the solution for them.

We are committed to continually building our reputation, knowledge and respond quickly to the world's changing needs. Our business approach is to meet our client's needs and to offer a competitive price.

From a single item to a large-scale project, we can supply all your heater and thermocouple needs. All inquiries are welcome.

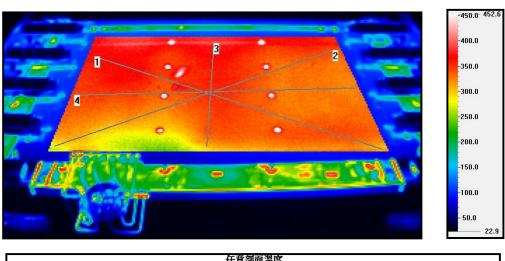
² We manufacture products according to drawings which serve as contractual documents. We are not responsible for damage resulting from inappropriate installation or use of our product.

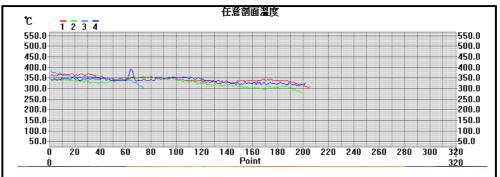
AREA HEATERS



Example of Area Heater

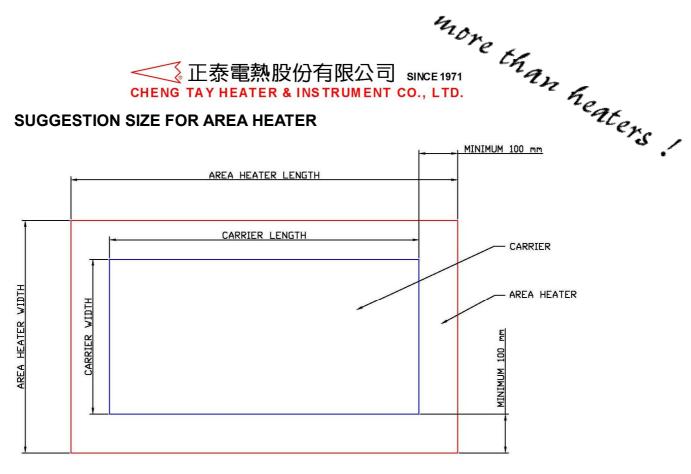
ACTUAL THERMO IMAGING OF AREA HEATER IN ATM





○ 正泰電熱股份有限公司 SINCE 1971 CHENG TAY HEATER & INSTRUMENT CO., LTD.

SUGGESTION SIZE FOR AREA HEATER



TUBULAR HEATERS

Sheath Diameter (mm)	Maximum Voltage*
Ф1	24
Ф1.5	120
Ф1.6	120
Ф2.4	120
Ф3.2	240
Ф4	240
Ф4.8	240
Ф5.4	380
Ф6.7	380
Ф8	440
Ф10.8	440
Ф13.5	440
Standard Resistance/Wattage Tolerance ±10%	*In some applications higher values may be possible
Tubular can run on both AC and DC, 50 or 60Hz	

We manufacture products according to drawings which serve as contractual documents. We are not responsible for damage resulting from inappropriate installation or use of our product.

more than heaters! 正泰電熱股份有限公司 SINCE 1971 CHENG TAY HEATER & INSTRUMENT CO., LTD.

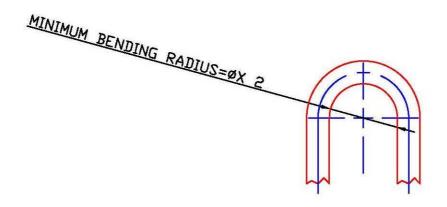
Materials of Sheath

SUS304, SUS304L, SUS316, SUS316L, SUS321, INCONEL 600, INCONEL 601, INCOLOY800, INCOLOY825

PLEASE NOTE, for some of the materials above may not have in-stock; please contact CT HEATERS representative for more information!

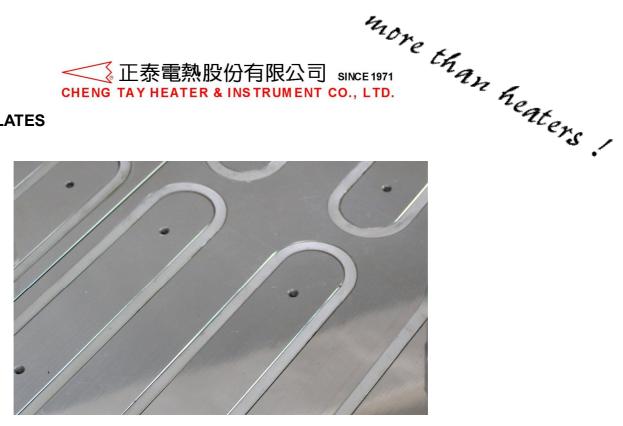
Wattage: Up to 3.4w/cm² for tubular heater design

BENDING PRECAUTION FOR TUBULAR HEATER



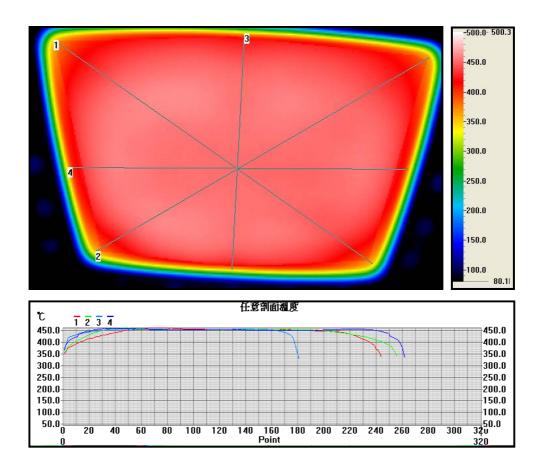
正泰電熱股份有限公司 SINCE 1971 CHENG TAY HEATER & INSTRUMENT CO., LTD.

HOT PLATES



Example of Hot Plate

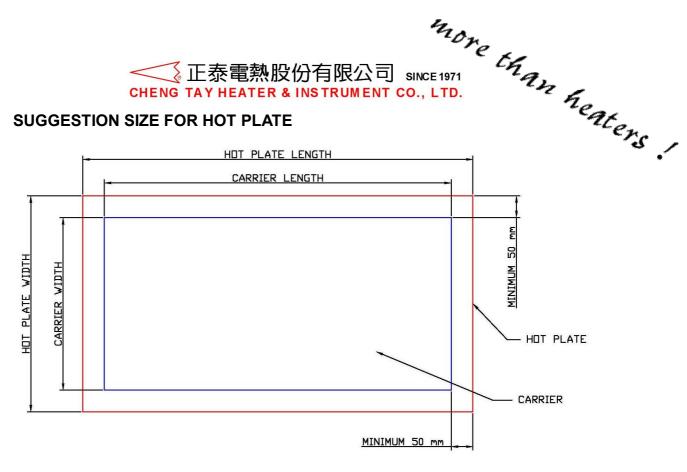
ACTUAL THERMO IMAGING OF HOT PLATE IN ATM



We manufacture products according to drawings which serve as contractual documents. We are not responsible for damage resulting from inappropriate installation or use of our product.



SUGGESTION SIZE FOR HOT PLATE



TUBULAR HEATERS (Cross Section: Square)

Sheath Diameter (cross section: square)	Maximum Voltage*
Q3X3	240
Q3.2X3.2	240
Q3.7X3.7	240
Q3.8X3.8	240
Q4.8X4.8	380
Q6X6	440
Q7X7	440
Q9.5X9.5	440
Standard Resistance/Wattage Tolerance ±10%	*In some applications higher values may be possible
Tubular can run on both AC and DC, 50 or 60Hz	

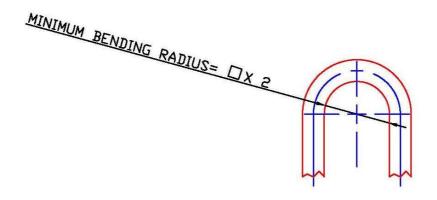
Materials of Sheath

SUS304, SUS304L, SUS316, SUS316L, SUS321, INCONEL 600, INCONEL 601, INCOLOY800, INCOLOY825

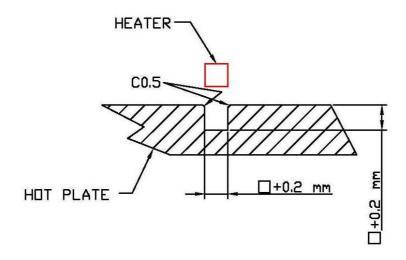
PLEASE NOTE, for some of the materials above may not have in-stock; please contact CT HEATERS representative for more information!

Wattage: Up to 15w/cm² for square tubular heater design

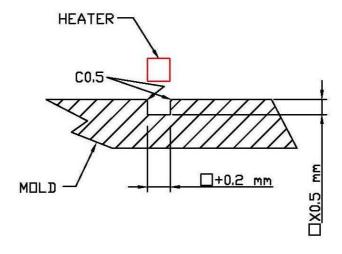
hore than heaters! INSTALLATION- for our bending service, please provide the hot plate(s) or mold plate(s). The detail of groove as the following



Hot Plate Groove



Mold Plate Groove



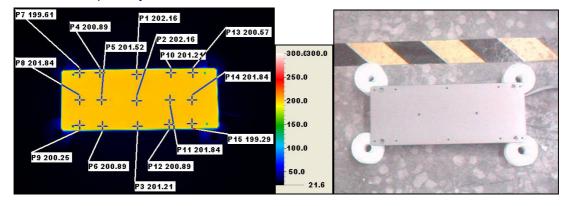


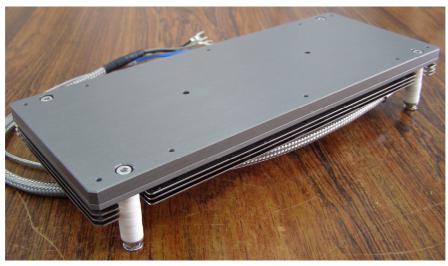
Small Area of Aluminum Hot plate

SPECIFICATION

1.	Maximum Temperature	380℃
2.	Temperature Stability	<±2%
3.	Temperature Uniformity	<±2%℃
4.	Maximum Voltage	220V
5.	Maximum Current	3.7A
6.	Heater Resistance	60.5Ω
7.	Power Supply	AC/DC
8.	Ramp Time to 150℃ (in ATM)	<3 minutes
9.	Ramp Time to 200℃ (in ATM)	<5 minutes
10.	Ramp Time to 380℃ (in ATM)	<10 minutes
11.	Cool-Down Time (380 $^{\circ}$ C to room temp., 1 ATM pressure)	Available

12. UHV Compatibility





EXAMPLE OF 220V800W w/ K-type sheath thermocouple Hard anodized aluminum, dim: 270X105X10T mm

SINCE 1971
LTD.

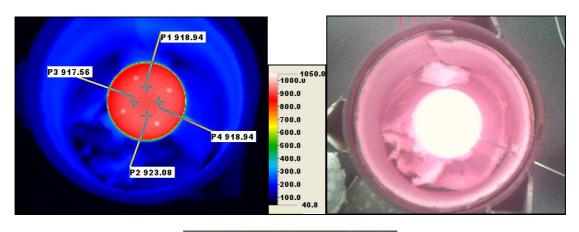
Keaters



2" Chuck Heater

SPECIFICATION

13.	Maximum Temperature	950℃
14.	Temperature Stability	±1.5%
15.	Temperature Uniformity (center circle diameter)	±5°C
16.	Maximum Voltage	60V
17.	Maximum Current	12A
18.	Heater Resistance	5Ω
19.	Power Supply	AC/DC
20.	Ramp Time to 750°C (in ATM)	<4 minutes
21.	Ramp Time to 950°C (in ATM)	<13 minutes
22.	Cool-Down Time (950 $^{\circ}$ C to room temp., 1 ATM pressure)	<40 minutes
23.	UHV Compatibility	YES
24.	Electrical Biasing	YES



Hot selling item!!



CONNECTING LEAD WIRE

more than heaters! High-temperature wire is recommended for connections to heater terminals and for runs in heated zone. We do carry variety of high-temperature heater hook up wire. Please do not use nickel-plated copper or tin-plated copper ring terminal for the connection due to the oxidization of copper. Copper will oxidize and loosen connection. For any heater connection, use of 100% nickel ring terminals are most recommended. Please contact CT HEATERS representative for more information!

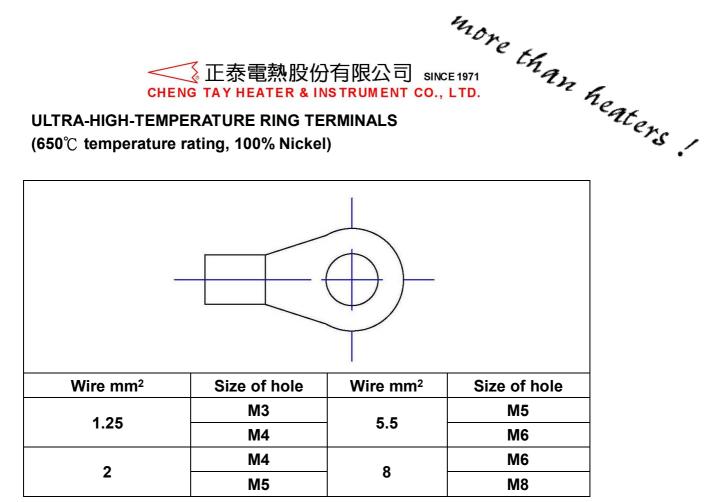
HIGH TEMPERATURE WIRES

Temperature Rating (℃)	Volt (V)	Stranded	Wire mm ²	A.W.G
		19/0.233	0.75	18
250	300	26/0.254	1.30	16
250	300	41/0.254	2.00	14
		65/0.254	3.30	12
		20/0.18	0.50	20
		30/0.18	0.75	18
300	300	50/0.18	1.25	16
300	300	37/0.26	2.00	14
		45/0.32	3.50	12
		35/0.45	5.50	10
		7/0.203	0.20	24
		7/0.254	0.32	22
		10/0.254	0.50	20
450	300	16/0.254	0.75	18
		41/0.254	2.00	14
		65/0.254	3.30	12
		105/0.254	5.20	10
		20/0.18	0.50	20
		30/0.18	0.75	18
600	300	50/0.18	1.25	16
000	300	37/0.26	2.00	14
		45/0.32	3.50	12
		35/0.45	5.50	10

All of high temperature wires above are nickel stranded and double glass fiber insulated sleeves



ULTRA-HIGH-TEMPERATURE RING TERMINALS (650°C temperature rating, 100% Nickel)



For other size of ultra-high-temperature ring terminals or different temperature rating ring terminals, please contact CT HEATERS representative for more information!

PRECAUTIONS

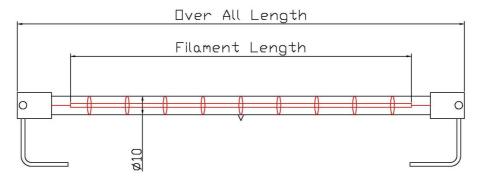
- 1. Area Heater and Hot Plate are hygroscopic in nature due to Mgo contents. If kept unused for longer period, there is moisture deposition on the terminals. Therefore CT HEATERS recommend you to de-moisture the heaters prior to installation by heating them at 90~120°C in an oven for at least 2 hours or use controllers with soft start function. This will help evaporate any moisture present inside.
- 2. On the Area Heater, at least two or more thermocouples are supplied, please connect them correctly. Each tubular heater should have thermocouple contact with heater, and do not let temperature of heater surface exceed 650°C.
- 3. Adapter area (cold zone) should be kept under 260°C
- Stabilized voltage supply increases the life of the heater as well as increases the wattage output. Grounding connection is must at all the time (green color coded wire).
- 5. Unheated zone once bent should not be re-bent or de-coiled. This will lead to breakage.
 Sharp edges along the lead wire path areas should be protected from combustible gases
 & liquid to avoid short-circuits.

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INFRARED HEAT LAMP



SHORT WAVE QUARTZ INFRARED HEATING ELEMENT



Features:

- Halogen type, which avoids blackening of tube and consequently infrared depreciation during life time
- Ideal high-power heat source for a wide range of industrial heating applications
- Economic heat source, 90% of energy is transmitted as infrared heat
- Short wave infrared radiates
- Clean, safe, green heat source
- Compact infrared heat source
- Fast response within 3 seconds to reach 100% power output after be electrified and reduce the temperature fast

¹⁴ We manufacture products according to drawings which serve as contractual documents. We are not responsible for damage resulting from inappropriate installation or use of our product.

SHORT WAVE INFRARED HEAT LAMP

HORT WAVI		電熱股份有附 IEATER & INSTRU EAT LAMP	名 是公司 SINCE 197 JM ENT CO., LTE	
Voltage	Wattage	Over Lamp Length (mm)	Filament Length (mm)	Diameter (mm)*
120	850	198	119	10
120	1150	355	280	10
240	500	227	159	10
240	850	198	113	10
240	1000	355	280	10
240	1000	531	440	10
240	1100	531	440	10
240	1500	355	280	10
240	1500	787	700	10
240	1750	787	700	10
240	2000	355	280	10
240	3000	787	700	10

Different voltage and wattage available upon request

Gold reflector infrared lamp available upon request

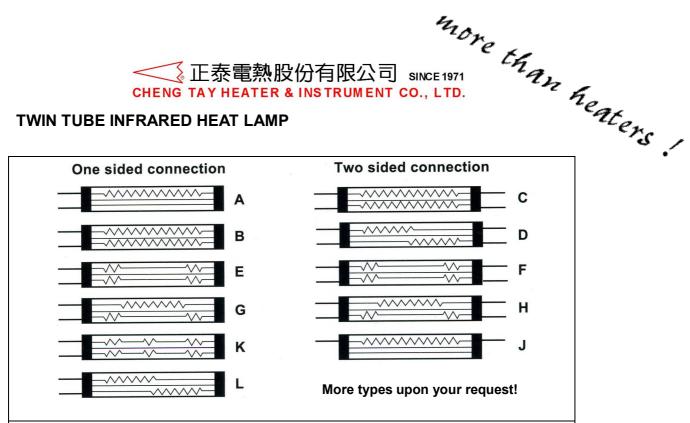
Applications

Plastics Thermoforming, blowing of plastic bottles, softening and melting of plastics, paint drying in tunnels and body shops, paper drying in paper mills, powder coating, drying of lacquers and printing inks, heat sterilization, PV, FPD, semiconductors

^{*}Other diameter available upon request

泰電熱股份有限公司 SINCE 1971 CHENG TAY HEATER & INSTRUMENT CO., LTD.

TWIN TUBE INFRARED HEAT LAMP



Twin Tube

The unique twin tube design offers high radiation power and very good mechanical stability. It is allowing emitters of lengths up to 3.5 meters. Emitters are available in **short wave**, medium wave, or long wave versions. CT HEATERS gives you the possibility to select the optimum wavelength for the material to be heated. Dimensions and filaments are matched up requirements.

Gold Reflector

CT HEATERS twin tube infrared heat lamp is made by virtue of a gold reflector which can emit heat directly to the product. A gold coating on the infrared emitters reflects the infrared radiation. Consequently the infrared radiation impinging on the product is virtually double.

Features:

- Infrared heaters can be matched up to material characteristics. It is allowing higher process speeds and less energy consumption
- Directed heat only where needed
- Infrared ovens need less space
- No contact or medium needed
- Short response times of infrared heaters for switch on/off

Applications:

Plastics Thermoforming, blowing of plastic bottles, softening and melting of plastics, paint drying in tunnels and body shops, paper drying in paper mills, powder coating, drying of lacquers and printing inks, heat sterilization, PV, FPD, semiconductors

MEDIUM WAVE TWIN TUBE LAMP

MEDIUM WAV		電熱股份有限 EATER & INSTR LAMP	似 限公司 SINCE 19 UMENT CO., LT	10 pe 6	An A
Wattage (W)	Voltage (V)	Heated length	Total length	Emitter	Diameter
vvaitage (vv)	voitage (v)	(mm)	(mm)	type	(mm)*
500	230	300	400	В	23x11
1000	230	500	600	В	23x11
2000	230	800	900	В	23x11
2500	230	1000	1100	В	23x11
2500	230	1200	1300	С	23x11
3250	230	1300	1420	В	23x11
3750	230	1500	1600	В	23x11
4100	400	1700	1800	В	23x11
4500	400	1800	1920	В	23x11
5750	400	2300	2400	В	23x11
6250	400	2500	2600	В	23x11

Different voltage and wattage available upon request

Gold reflector infrared lamp available upon request

*Other diameter available upon request

SHORT WAVE TWIN TUBE LAMP

Mottogo (M)	Voltage (V)	Heated length	Total length	Emitter	Diameter
Wattage (W)	voltage (v)	(mm)	(mm)	type	(mm)*
600	115	80	145	В	23x11
1200	230	340	405	В	23x11
1500	230	200	300	В	23x11
3000	230	500	650	С	23x11
3000	400	500	600	В	23x11
3000	400	500	600	В	23x11
3000	400	1000	1100	Α	23x11
4200	230	700	850	С	23x11
6000	400	1000	1150	С	23x11
7000	400	1300	1450	С	23x11

Different voltage and wattage available upon request

Gold reflector infrared lamp available upon request

*Other diameter available upon request

FLEXIBLE HEATERS

CT HEATERS offers both wire-wound and etched foil resistance elements.

Silicone rubber heater

Fiberglass reinforced silicone rubber gives your heater dimensional stability without sacrificing flexibility.



Wire-wound element

Maximum area size: 600X600 mm

Maximum wattage for wire-wound resistance element: up to 1w/cm²

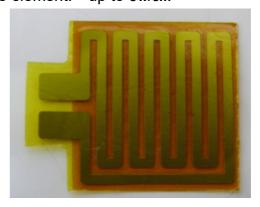
Etched foil element

Maximum area size: 290X900 mm

Maximum wattage for etched foil resistance element: up to 6w/cm²

Kapton®

A thin, lightweight transparent material from du Pont, Kapton® is designed for extremely precise heating requirement ranging from -195° to 200°C. It's ideal for applications requiring low out gassing in a vacuum, or resistance to radiation, fungus and chemicals



Etched foil element

Maximum area size: 240X300 mm

Maximum wattage for etched foil resistance element: up to 30w/cm²

Applications:

Photo processing equipment, curing of plastic laminates, computer peripheral, medical equipment, freeze protection for aircraft instrumentation, ultra-sonic cleaning tanks, wet processing, battery heating, satellite and communication equipment, and much more!

PIPE HEATING













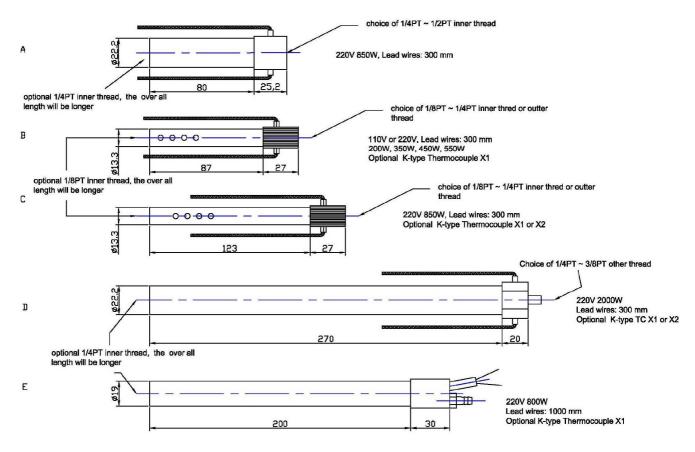
For this section, please consult to your CT **HEATERS** representative for more detail!





AIR HEATERS

Other Air Heater Dimensions



SPECIAL CAUTIONS

- The air flow MUST be given PRIOR to activation of the heater, and MUST be stopped AFTER cutting electricity (minimum 20 minutes of cooling time). This should be strictly monitored.
- Due to consideration shall be paid to keep the temperature at the heater tail under 200°C.
- Use an oil and water separator. The air/gas MUST be clean all the time.

No warranty shall attach to all consumable parts (including the heater element), therefore, you are requested to observe the above condition

- A. 220V 850W, lead wires: 300 mm
- B. 110V or 220V, lead wires: 300 mm, 200, 350, 450 and 550W, optional built-in thermocouple
- C. 220V 850W, lead wires: 300 mm, optional built-in thermocouple
- D. 220V 2000W, lead wires: 300 mm, optional built-in thermocouple
- E. 220V 800W, lead wires: 1000 mm, optional built-in thermocouple

more than heaters! **Applications** Excess Plastic Removal **Bolt Sealing** IC Processing Laminating Shrink Packaging Plastic Thermoforming **Activating Hotmelt** Shrinking Heat Shrinking Curing Adhesive Sleeves Bending Plastiç Plastic Target **Pipes** Welding Heating Plastic Inner Holes **Bolting** Soft Soldering **Drying** Push

For this section please consult with CT HEATERS representative for more information!

GAS HEATER

GAS HEATER-dual protection



DIM:

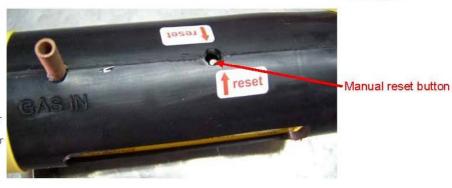
DIA. 56X160 mm, gas in & out tubing DIA. 6.35 mm, electric outlet 2M

Choice of:

210~230 V 120 VV (blue color code ends and blue label) or

90~120V 120W (yellow color code ends and yellow

label) usage.



85℃ thermostat(primary), 100℃ thermostat (secondary-manual reset)

Flows 0.3 kg/c m², 20L/min

AVG. High ℃ Low °C ΔT °C 129.2 74.8 54.4

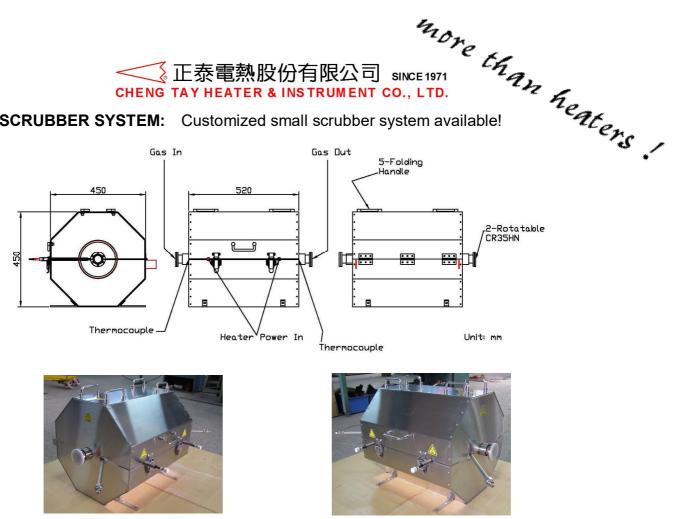
Flows	0.4	ka/c m²	, 30L/min
		. ral. a TIT	

GAS OUT

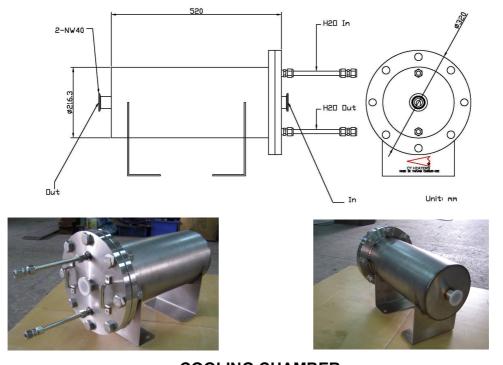
AVG.	High °ℂ	Low ℃	Δ Τ ℃
-	120.4	71.2	49.2

The GAS HEATER has built-in thermostat either 65°C or 85°C (primary-auto reset) and 100°C (secondary-manual reset) thermostat button type. Therefore, the reaction time (sensitivity) of this thermostat is bluntness. Thus, adjust the gas flow accordingly depend on the application you are using.

SCRUBBER SYSTEM: Customized small scrubber system available!



BURNING CHAMBER (maximum temperature 900°C)



COOLING CHAMBER For this section, please contact CT HEATERS representative for more information!



THERMOCOUPLES

MOST COMMON THERMOCOUPLE TYPES

ANSI	CONDUCTOR CHARACTERISTICS		CONDUCTOR CHARACTERISTICS TEMPERATURE RANGE		CONDUCTOR CHARACTERISTICS		IEC
CODE	POSITIVE +	NEGATIVE -	$^{\circ}$ C	°F	POSITIVE +	NEGATIVE -	CODE
	IRON	CONSTANTAN	0 TO 760		IRON	CONSTANTAN	
J	MAGNETIC	NON-MAGNETIC		32 TO 1400	MAGNETIC	NON-MAGNETIC	J
	WHITE	RED			BLACK	WHITE	
	CHROMEL [®]	ALUMEL [®]			CHROMEL [®]	ALUMEL [®]	
K	NON-MAGNETIC	MAGNETIC	0 TO 1260	32 TO 2300	NON-MAGNETIC	MAGNETIC	K
	YELLOW	RED			GREEN	WHITE	
N	NICROSIL	NISIL	0 TO 1260	32 TO 2300	NICROSIL	NISIL	N
11	ORANGE	RED	0 10 1260	32 10 2300	PINK	WHITE	IN

ALUMEL® and CHROMEL® are registered tr`ademarks of the Hoskins Manufacturing Company

THERMOCOUPLE TYPE	COMMENTS ENVIRONMENT BARE WIRE
J	Reducing, vacuum, inert. Limited use in oxidizing at high temperatures.
	Not recommended for low temperatures.
K	Clean oxidizing and inert. Limited use vacuum or reducing. Wide
	temperature range, most popular calibration. Not recommended where
	sulfur is present.
N	Alternative to K-type. More stable at high temperatures. It provides
	better resistance to oxidation at high temperatures and longer life in
	applications where sulfur is present.

CT HEATERS offers full range of thermocouples and RTD on the market

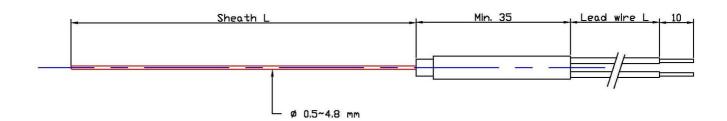
ANSI code	J	К	Т	Е	N	R	S	U	В
IEC code	J	K	Т	Е	N	R	S	U	В

JUNCTION STYLES

正泰電熱股份有限公司 SINCE 1971 CHENG TAY HEATER & INSTRUMENT CO., LTD. JUNCTION STYLES An exposed junction is recommended for the						
		An exposed junction is recommended for the				
	Exposed	measurement of static or flowing non-corrosive gas				
	Junction	temperatures where fast response time is required				
		A grounded junction is recommended for the				
		measurement of static or flowing corrosive gas and				
		liquid temperatures and for high-pressure				
	Grounded Junction	applications. The junction of a grounded				
Januari da	J = / L = /	thermocouple is welded to the protective sheath				
		giving faster response than the ungrounded junction				
		type.				
		An ungrounded junction is recommended for				
		measurements in corrosive environments it is				
	Ungrounded junction	desirable to have the thermocouple electronically				
		isolated from and shielded by the sheath. The				
		welded wire thermocouple is physically insulated				
		from the thermocouple sheath by MgO.				

MINERAL INSULATED SHEATH TYPE

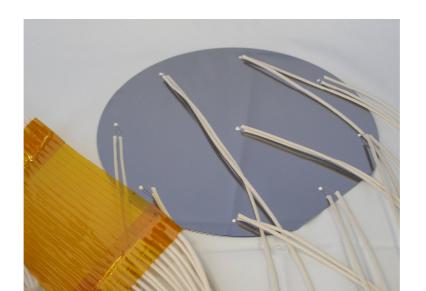
Basic Sheath Thermocouple (Grounded or Ungrounded Junction)



We do also carry spade lugs, standard/miniature size connectors, ceramic ultra high temperature standard/miniature connectors and more for the same thermo element for almost every type of thermocouple. Please contact CT HEATERS representative for more information!

正泰電熱股份有限公司 SINCE 1971 CHENG TAY HEATER & INSTRUMENT CO., LTD.

TC WAFER



You supplied at least 2 substrates (depends on the material of substrate) and we do the rest. The maximum 18 measurement points (K-type) on each substrate. The maximum total thermocouple wires length of each is 3000 mm (included feed-thru, the portion in the vacuum and the portion in ATM). Our wire protection sleeve (high grade of glass fiber), the portion in the vacuum, can withstand continuously at 600°C (for higher temperature available). The material of feed-thru is DuPont™ Kapton® polyimide films, and the temperature can withstand up to 300°C. The portion of wire protection sleeve is PTFE tubing in ATM, and finish up with miniature male connector. Paperless temperature recorder is available upon request!

There are many different types and bending shapes of thermocouples for PV, FPD and Semiconductor system. Please e-mail us at ct.heaters@msa.hinet.net for more information!

E 1971
LTD.

LTD.

heaters

²⁶ We manufacture products according to drawings which serve as contractual documents. We are not responsible for damage resulting from inappropriate installation or use of our product.

Special made thermocouple for PV, LED, Semiconductor and FPD industries



Vacuum side:

25 pins peek female D-sub with Kapton® insulation 9 pairs of K-type thermocouples ISO100 flange welded male D-sub feedthrough for vacuum application

ATM side:

25 pins cast-iron female D-sub with PFA insulation 9 pairs of K-type thermocouples and miniature male plugs

Please contact Kevin Huang

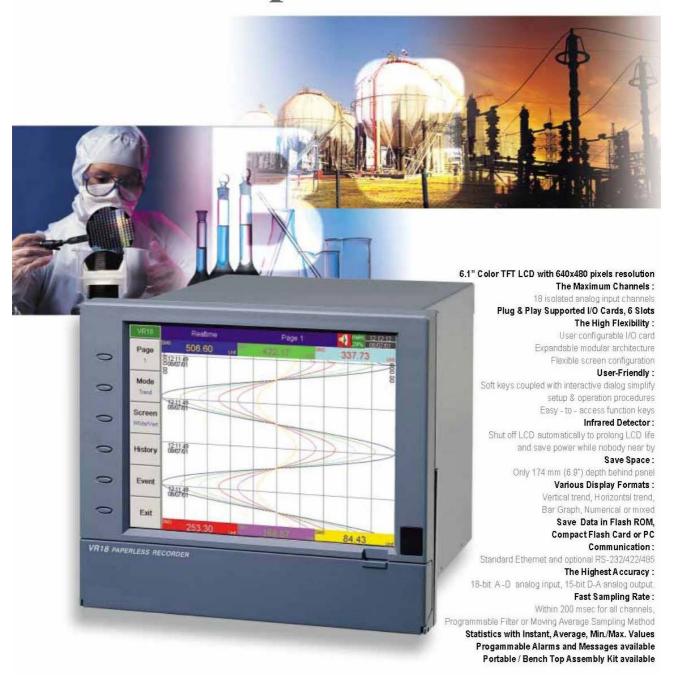
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E-mail: ct.heaters@msa.hinet.net

Please contact CT HEATERS representative for more information!

hore than heaters! VR18 Paperless Recorder



Paperless Recorder Optional Box





FRONT REAR

- Picture above is for K-type sensor male plug
- Shell SUS304, DIM: W200XH300XD267 mm (excluded handle and rubber footing).
- Standard Paperless recorder comes 6 measurement points, maximum up to 18 measurement points (each module has 3 measurement points).
 Pricing may varies depending on the number of module
- Real time viewer available via Ethernet connection with your laptop or desk top.

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CHENG TAY HEATER & INSTRUMENT CO., LTD.

**ROTE Change C

TERMS AND CONDITIONS

- 1. CT HEATERS warrants its Products against defects in material and workmanship for three months from the date of delivery. Many of Heaters are hygroscopic in nature due to Mgo contents. If kept unused for longer period, there is moisture deposition on the terminals. Therefore CT HEATERS recommend you to de-moisture the heaters prior to installation by heating them at 90~120°C in an oven for at least 2 hours or use controllers with soft start function. This will help evaporate any moisture present inside. CT HEATERS dose not warrant any PRODUCT against damage from corrosion, contamination, misapplication, improper specification, wear and tear, or operational conditions beyond CT HEATERS' control. In no event shall CT HEATERS be liable for special, indirect, incidental or consequential damages. CT HEATERS shall not be liable for, and buyer and any other person or entity to whom Products are transferred during the period of this warranty assumes responsibility for, all personal injury and property damage resulting from or related to the handling, possession or use of Products and Products manufactured and sold by CT HEATERS hereunder.
- 2. Deliveries may be suspended by either party in the event of: Act of God, war, riot, fire, explosion, accident, flood, sabotage; lack of adequate fuel, power, raw materials, labor, containers or transportation facilities; compliance with Governmental Requirements; breakage or failure of machinery or apparatus; national defense requirements or any other event, whether or not of the class or kind enumerated herein, beyond the reasonable control of such party; or in the event of labor trouble, strike, lockout or injunction which event makes impracticable the manufacture, transportation, sale, purchase, acceptance, use or resale of Products or a material upon which the manufacture of Products is dependent.
- 3. If Buyer orders and/or CT HEATERS delivers a Product designated as a "Prototype", no guarantees, warranties or representations as to fitness for a particular purpose or merchantability are made with respect to such Prototype. Buyer shall have the duty and sole responsibility to test a Prototype prior to acceptance and/or incorporation into end-use applications. Further, a production Product based on a Prototype design may differ in assembly methods and materials from the Prototype. Buyer, therefore, shall have the duty and sole responsibility for testing and acceptance of production Products which are based on Prototype designs.

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PLEASE NOTE:

No warranty provided on consumable parts (including the heater elements, thermocouples, etc.), therefore, please adhere to above conditions. CT **HEATERS** dose not warrant any PRODUCT against damage from corrosion, contamination, misapplication, improper specification, wear and tear, or operational conditions beyond CT HEATERS' control.

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CT HEATERS or CHENG TAY HEATER & INSTRUMENT CO., LTD. reserves the right to bring any modifications to our products. We manufacture products according to drawings which serve as contractual documents. We are not responsible for damage resulting from inappropriate installation or use of our product.











