



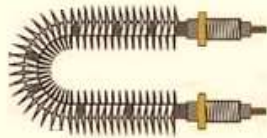
# 旭彩實業有限公司

## York Choi Industrial Limited

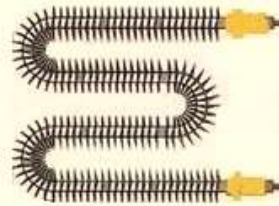


### PT " Electric Heating Systems

( Heater, Heater Control Box, Overheat Control )



U Type



W Type





**旭彩實業有限公司**  
**York Choi Industrial Limited**



**Power Tech**

## **COMPANY PROFILE**

Established in 1990, YORK CHOI INDUSTRIAL Limited is a leading manufacturer of air distribution products. Its Flying Horse brand of products include VAV terminal unit series, air diffusers, air grilles, light troffers diffusers, air ducts and various types of air conditioning accessories. Its Power Tech Company is subsidiary of York Choi Industrial Limited., Its "PT" brand of products include electric heating element, heater box, heater control box, overheat control . York Choi's team of professional managers have focused tirelessly on product quality, production capacity, customer services, and technological innovation.

旭彩實業有限公司成立于1990年，是一家穩健的空調分風產品制造商，其品牌飛馬產品系列包括變風量系統設備，多類型風咀，送風靜壓箱，燈盤用雙風箱，風管等。力科公司是我們的附屬公司，其品牌PT 產品系列包括電發熱線，發熱線箱，發熱線控制箱及高溫控制器。旭彩團隊憑借專業管理，銳意進取，嚴謹的質量監控，優質的客戶服務和創新的科技，逐步成為擁有眾多客戶的知名企業。



**旭彩實業有限公司**  
**York Choi Industrial Limited**

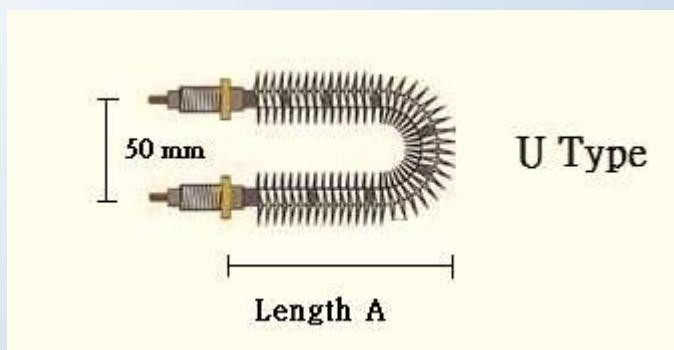
## **COMPANY PROFILE**

“Power Tech” have most experience in heating product, heating elements, heater box, heater control etc , And have CE 、 IEC safety approval , Our business aim is to provide highest quality product and services. Our business covered Hong Kong 、 Macau 、 Taiwan and China

“力科” 在加熱產品，發熱線，發熱線箱等方面擁有豐富的經驗，並獲得 CE 及 IEC 的產品安全証明我們的業務宗旨是提供最優質的產品和服務。我們的業務涵蓋香港、澳門、台灣及中國



## “ PT ” STAINLESS STEEL ELECTRIC HEATING ELEMENT



The tube diameter with fin both in 31U & W series; 46U & W series are 23mm

Model	Wattage	Length A
<b>31KW/m<sup>2</sup> 20W/in<sup>2</sup></b>		
PTS31U01	500	380
PTS31U02	750	535
PTS31U03	1000	710
PTS31U04	1500	1010
PTS31U05	1800	1200
PTS31U06	2000	1325
PTS31U07	2400	1580

Model	Wattage	Length A
<b>46.5KW/m<sup>2</sup> 30W/in<sup>2</sup></b>		
PTS46U01	500	215
PTS46U02	750	280
PTS46U03	1000	380
PTS46U04	1250	430
PTS46U05	1500	535
PTS46U06	1750	580
PTS46U07	2000	670
PTS46U08	2250	770
PTS46U09	2500	840
PTS46U10	2750	925
PTS46U11	3000	980
PTS46U12	3500	1165
PTS46U13	4000	1280
PTS46U14	4500	1465
PTS46U15	5000	1580

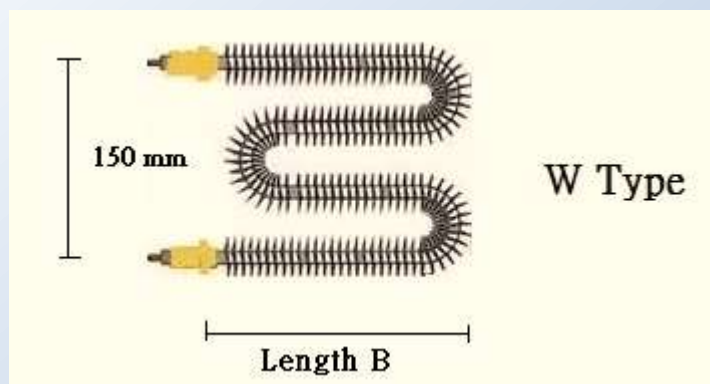
- 304 stainless steel tube and fin material
- Type M3 epoxy resin end sealed terminal and radio-ceramic for terminal isolator
- 304 stainless steel threaded mounting bushing
- Standard voltages 220V - 240V
- Black heat type
- Country of origin - PRC

- 304 不鏽鋼管及散熱片
- 以環氧化樹脂封口及陶瓷絕緣圈
- 304不鏽鋼螺絲底坐
- 標準電壓為 220V - 240V
- 管身為不發紅類別
- 產品來源地 - 中國





## “ PT ” STAINLESS STEEL ELECTRIC HEATING ELEMENT



The tube diameter with fin both in 31U & W series; 46U & W series are 23mm

Model	Wattage	Length B
<b>31KW/m<sup>2</sup> 20W/in<sup>2</sup></b>		
PTS31W01	500	200
PTS31W02	750	280
PTS31W03	1000	370
PTS31W04	1500	520
PTS31W05	1800	615
PTS31W06	2000	680
PTS31W07	2400	805

Model	Wattage	Length B
<b>46.5KW/m<sup>2</sup> 30W/in<sup>2</sup></b>		
PTS46W01	500	150
PTS46W02	750	180
PTS46W03	1000	205
PTS46W04	1250	235
PTS46W05	1500	295
PTS46W06	1750	310
PTS46W07	2000	350
PTS46W08	2250	405
PTS46W09	2500	435
PTS46W10	2750	480
PTS46W11	3000	510
PTS46W12	3500	605
PTS46W13	4000	685
PTS46W14	4500	760
PTS46W15	5000	840

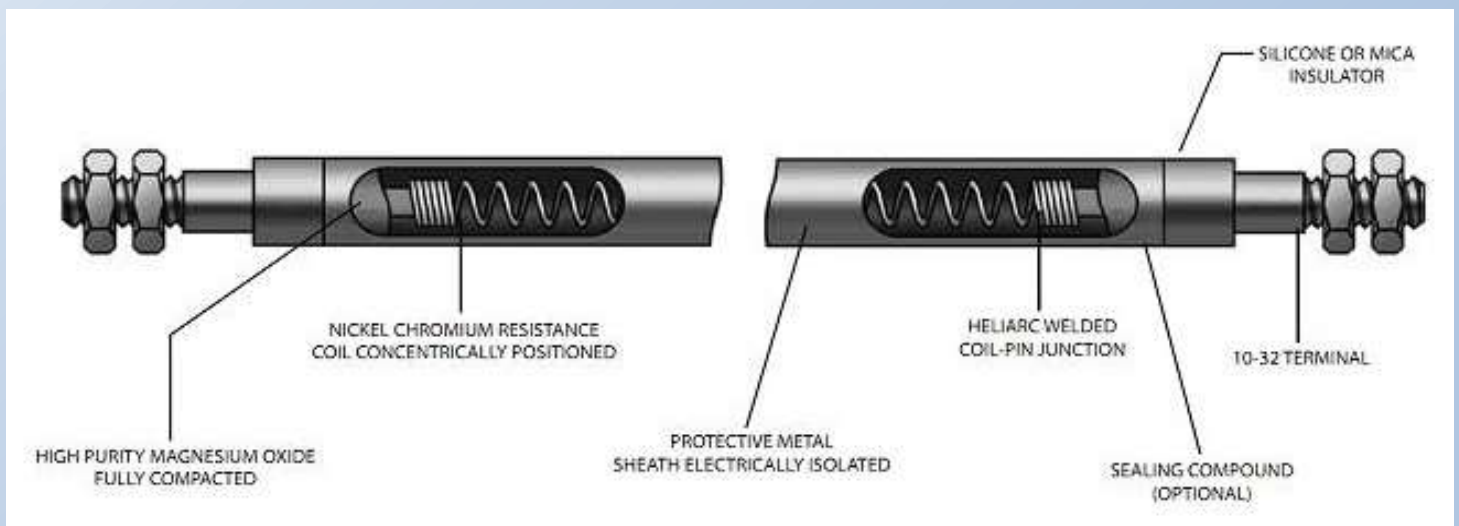
- 304 stainless steel tube and fin material
- Type M3 epoxy resin end sealed terminal and radio-ceramic for terminal isolator
- 304 stainless steel threaded mounting bushing
- Standard voltages 220V - 240V
- Black heat type
- Country of origin - PRC

- 304 不鏽鋼管及散熱片
- 以環氧化樹脂封口及陶瓷絕緣圈
- 304不鏽鋼螺絲底坐
- 標準電壓為 220V - 240V
- 管身為不發紅類別
- 產品來源地 - 中國



# Heater Construction

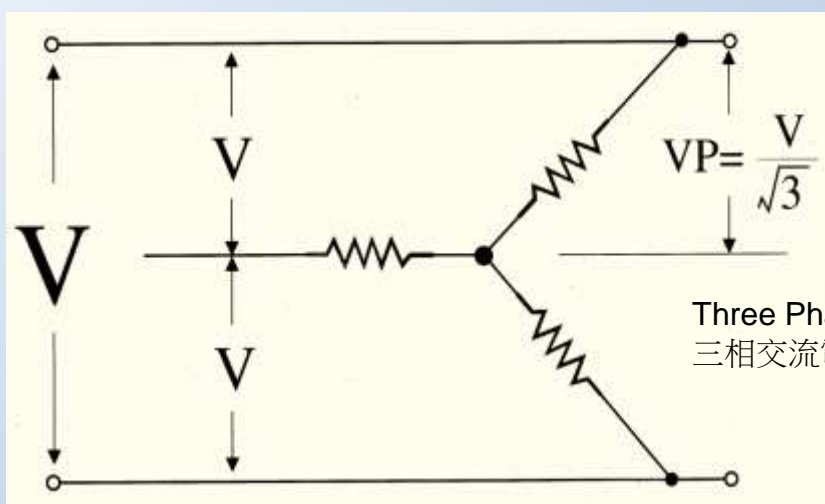
“ PT ” Electric Heating Element Is Made of 304 or 316 Stainless Steel, General Construction as below :



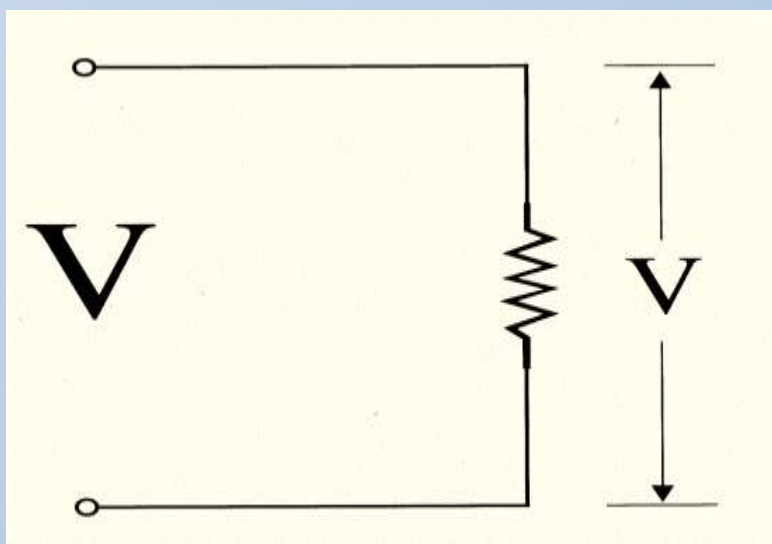


## “ PT ” STAINLESS STEEL ELECTRIC HEATING ELEMENT

### CONNECTION



Three Phase Circuit (Y Type connection)  
三相交流電線路圖 (Y 型接線)



Single Phase  
單相交流電線路圖

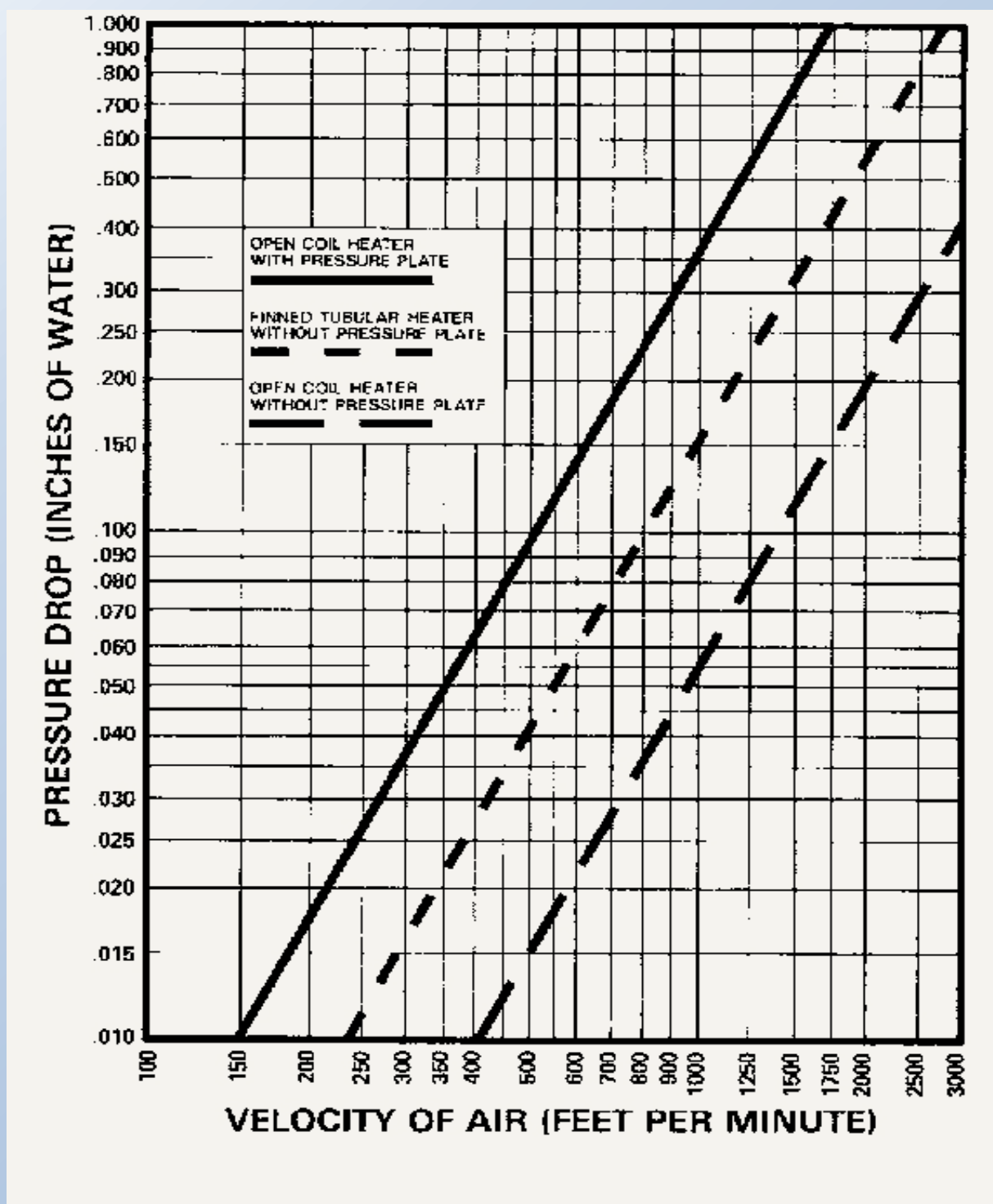


## “ PT ” STAINLESS STEEL ELECTRIC HEATING ELEMENT

### PRESSURE DROP

The relations of air velocity and static pressure drop across heater.

風速通過電熱管與靜壓力下降的關係。





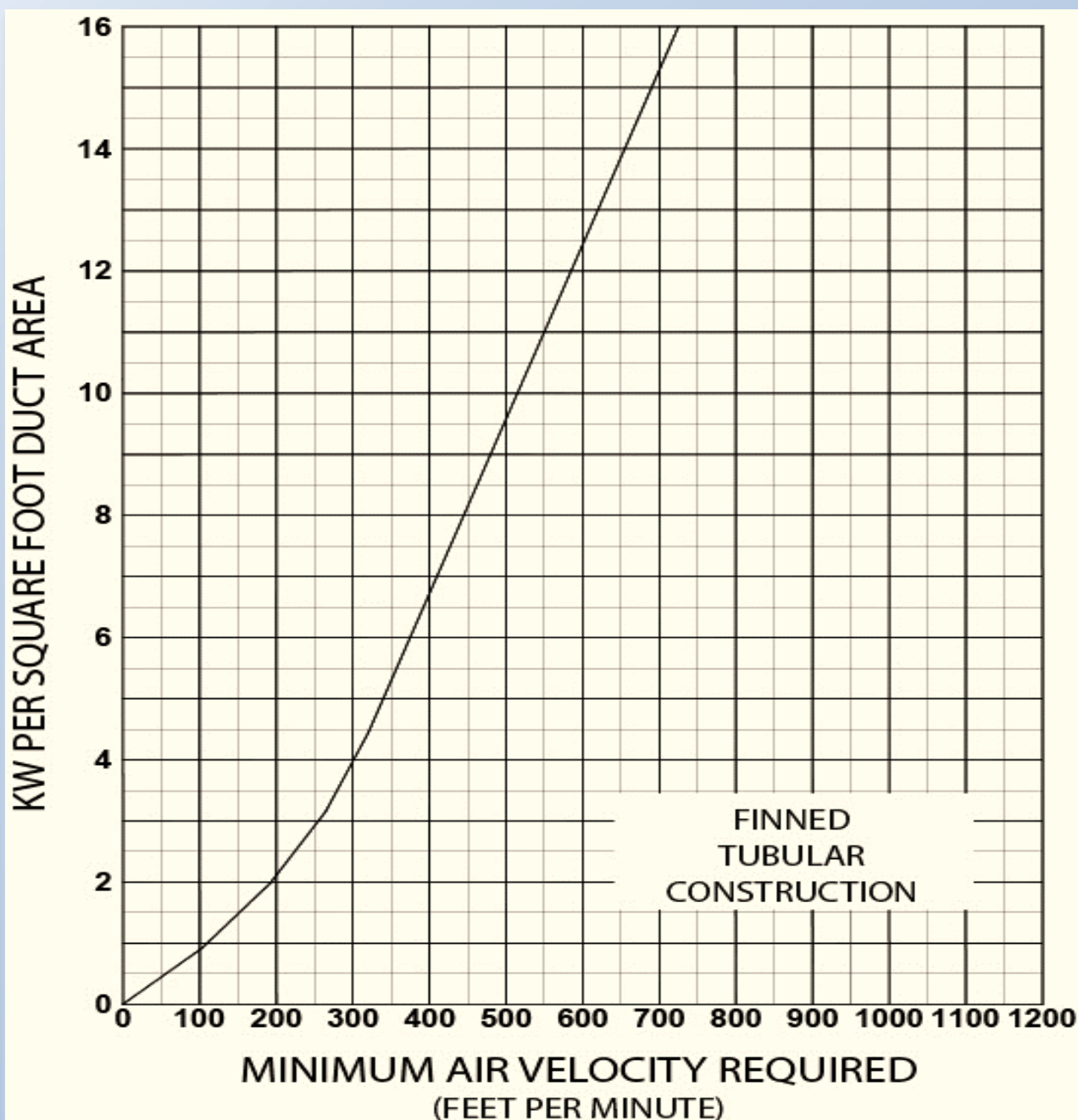


## “ PT ” STAINLESS STEEL ELECTRIC HEATING ELEMENT

### MINIMUM VELOCITY

To prevent overheating and a smooth operating, a sufficient air flow must be provided.

為確保電熱管工作順暢及不過熱，必需提供充足氣流量



消防處  
牌照及審批總區  
通風系統課  
香港九龍尖沙咀東謙莊道1號  
消防總部大廈5樓



FIRE SERVICES DEPARTMENT  
LICENSING & CERTIFICATION COMMAND  
**Ventilation Division**  
5/F, Fire Services Headquarters Building,  
No.1 Hong Chong Road,  
Tsim Sha Tsui East, Kowloon,  
Hong Kong

本處檔號 Our Ref.: FP(LC) 316/19  
來函檔號 Your Ref.: PTL 0022  
圖文傳真 Fax: 2367 3206  
電話 Tel. No.: 2733 1557

21 June 2017

Power Tech Company  
E5, 1/F., Tung Lee Industrial Building  
No. 9 Lai Yip Street  
Kwun Tong  
Kowloon

Dear Sir,

**“PT PTS” Electric Heating Element (Stainless Steel)**

I refer to your above referenced letter of 7.6.2017 received by this department on 12.6.2017, requesting for our assessment of the above product.

I would like to inform you that separate assessment for electric heating element will not be made by this department. However, your attention is drawn to the requirements stipulated in Section 1, Part XI of FSD Circular Letter No. 4/96 regarding the whole heater assembly installed in mechanical ventilating system. A copy of the said Circular Letter can be downloaded through the URL:

[http://www.hkfsd.gov.hk/eng/source/circular/e04\\_1996.pdf](http://www.hkfsd.gov.hk/eng/source/circular/e04_1996.pdf)

Yours faithfully,

(LAM Sui-hang)  
for Director of Fire Services

Internal:  
Engr(Vent) & CTO(Vent) – Fax: 2382 2495

SHL/  
FileCode: power tech pt pts electric heating element 20170621.doc



澳門特別行政區政府  
Governo da Região Administrativa Especial de Macau

消防局  
Corpo de Bombeiros

澳門新口岸羅馬街 95 號  
建興龍廣場興海閣 8 樓 W 室  
安達空調設備工程有限公司 台啟

來函編號  
Sua referência

PTL1710002-FS

來函日期  
Sua comunicação de

01/11/2017

發函編號  
Nossa referência

11243/DPI/2017

澳門何鴻燊博士大馬路  
Av. Doutor Stanley Ho, Macau

24 NOV 2017

事由：  
Assunto 寄送意見書 — Submission For Macau Approval “PT” ELECTRIC HEATING  
ELEMENT (STAINLESS STEEL)

敬啟者：

按來函之要求，現附上本局第 4423/GEL/DPI/2017 號意見書複印本乙份。

順頌  
台祺

局長

梁毓森  
消防總監



澳門特別行政區政府  
Governo da Região Administrativa Especial de Macau

消防局  
Corpo de Bombeiros

頁編號 1/1  
Pág. n.º 4423/GEL/DPI/2017  
文件編號  
Inf. n.º 22 / 11 / 2017  
日期:  
Data

核閱  
Visto

於 23 / 11 / 2017  
Em  
防火廳廳長  
O Chefe do D.P.I.

## 意見書

事由：Submission For Macau Approval "PT" ELECTRIC HEATING ELEMENT (STAINLESS STEEL)

參件編號：來函編號：PTL1710002-FS

意見書編號：3952/GEL/DPI/2017, 3951/GEL/DPI/2017

於 01/11/2017 收到安達空調設備工程有限公司之文書及其附錄文件，本局之意見如下：

### Ø1. 產品列表：

項目	產品名稱	型號	生產商
1	Electric Heating Element (Stainless Steel)	PTS Type	Power Tech Company

1.1 根據遞交的資料分析，有關來函所述的产品，並不屬本局評核範圍，建議聽取權限部門(土地工務運輸局)之意見。

### 備註：

- a. 就是次所遞交之證明文件，本局已收到並將有關文件作存檔處理；同時，倘有關權限有所變更時亦應盡快通知本局。

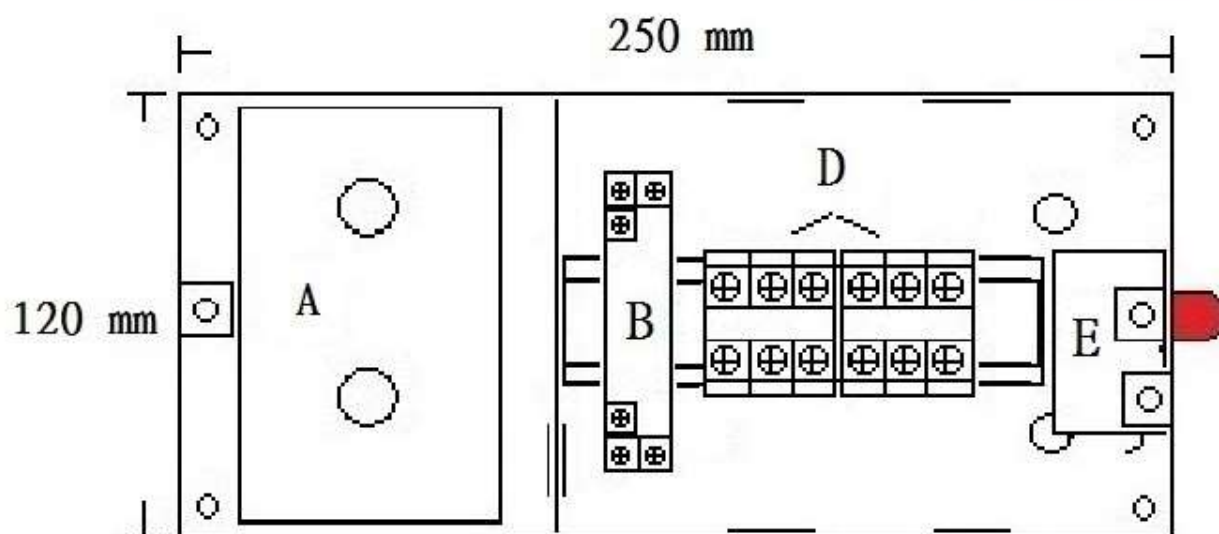
周偉祥  
首席消防員

文

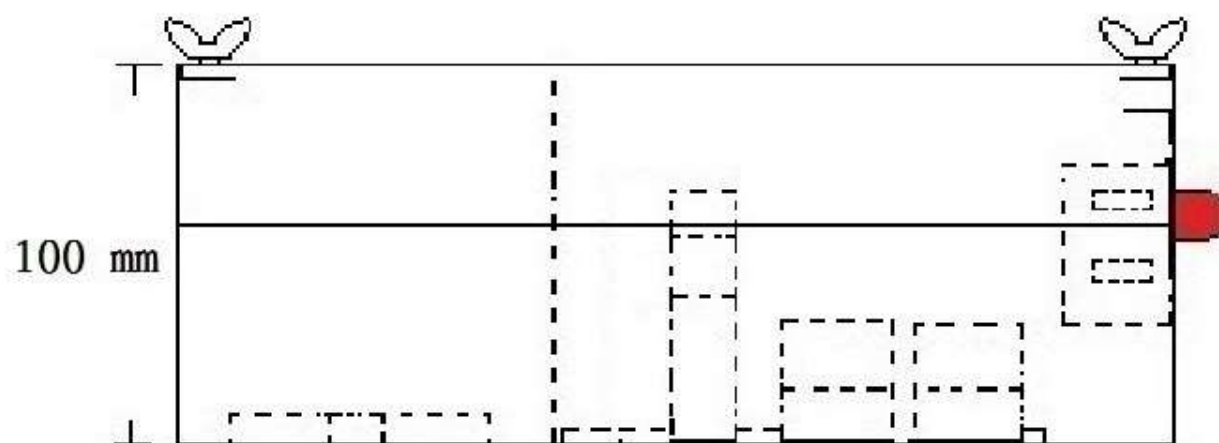


# FCU Heater Box

*Design Patent*



Top View

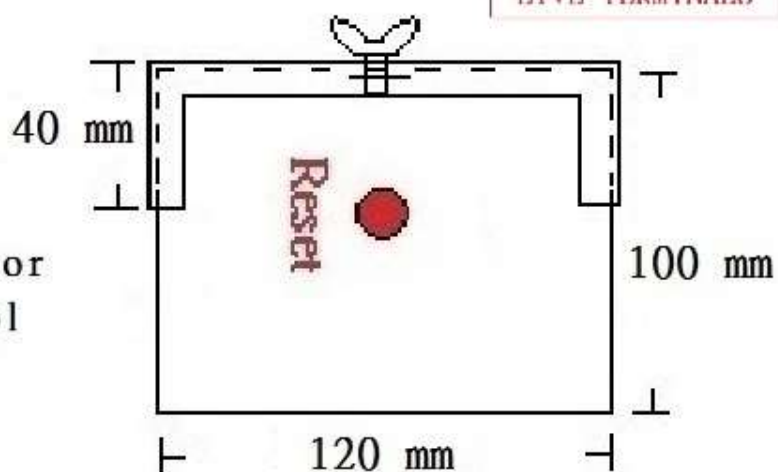


Front View

Casing - 1mm GI with Paint Coating

- A - Non-Combustible Board
- B - Schneider Contactor  
( iCT Type )
- D - 6 Pole Electric Connector
- E - Rainbow Overheat Control

危險  
電源接頭  
DANGER  
LIVE TERMINALS



Side View

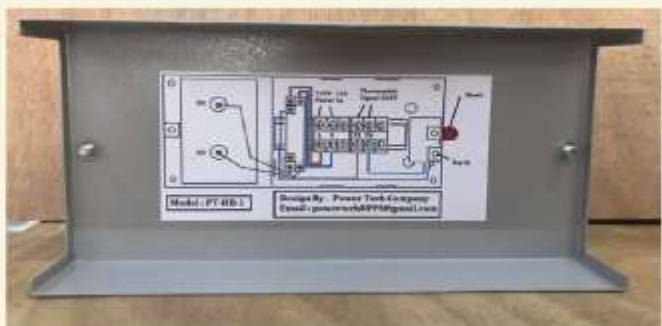
**Model : PT-HB-1**





*Design Patent*

# FCU Heater Box with Schneider Electric Contactor and Rainbow Overheat Control

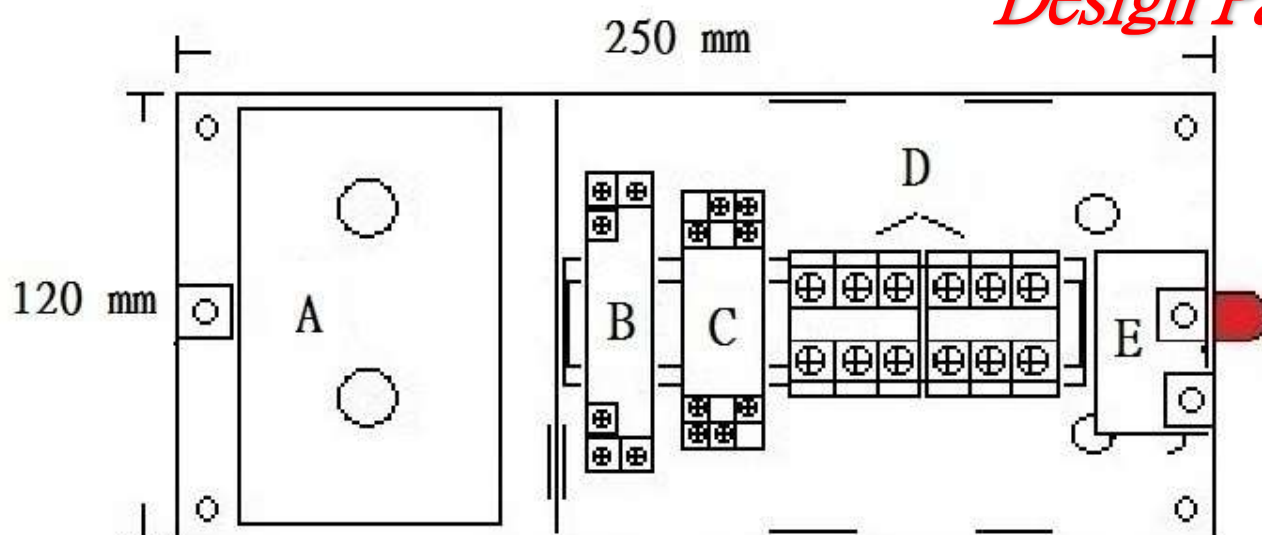


**Model : PT-HB-1**  
**Size 100 x 120 x 250 (mm)**

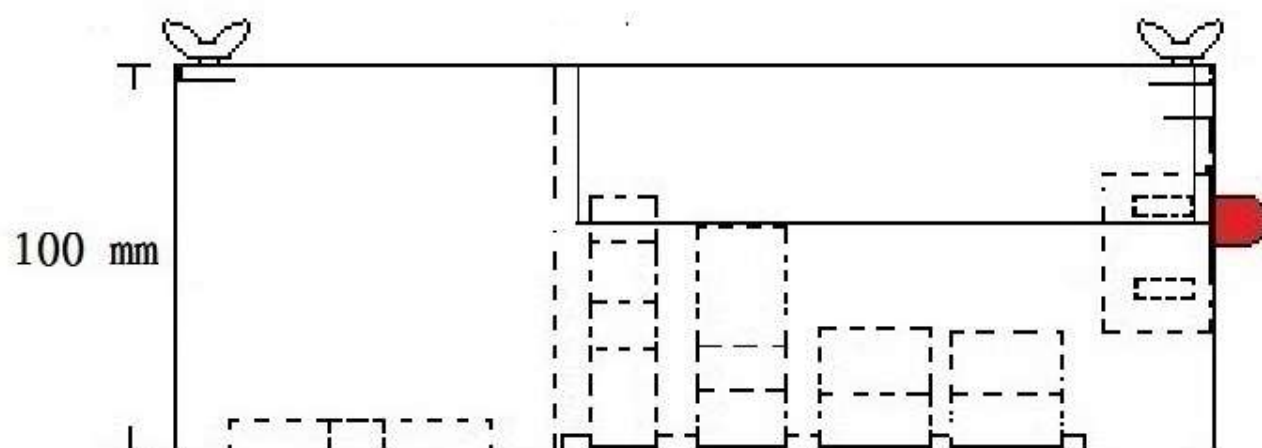


# FCU Heater Box

*Design Patent*



Top View



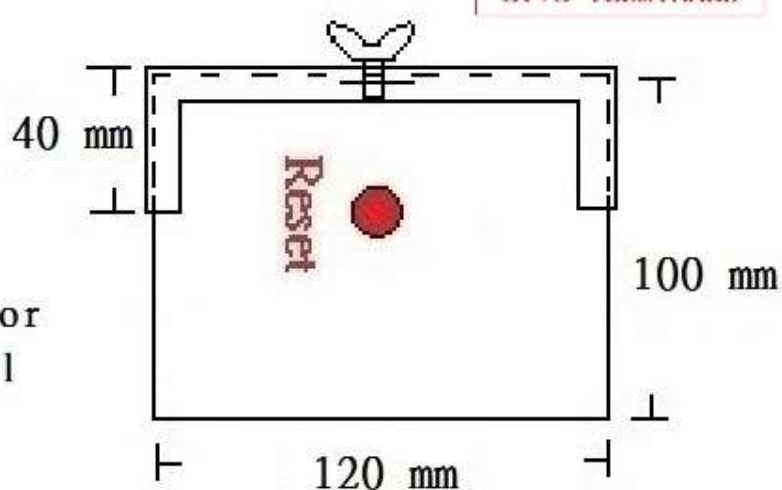
Front View

Casing - 1mm GI with Paint Coating

- A - Non-Combustible Board
- B - Schneider Contactor  
( iCT Type )
- C - Omron Electric Relay
- D - 6 Pole Electric Connector
- E - Rainbow Overheat Control

Cover

危險  
電源接頭  
DANGER  
LIVE TERMINALS

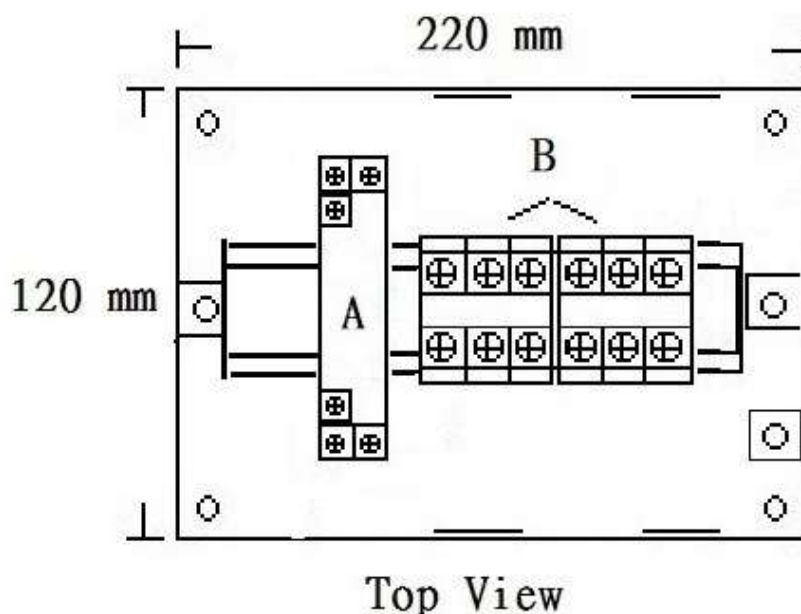


Side View

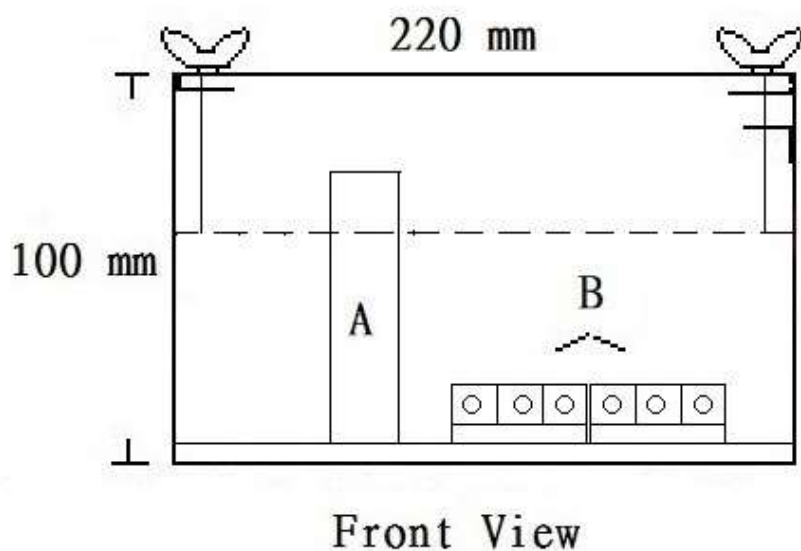
**Model : PT-HB-2**



## FCU Heater Control Box



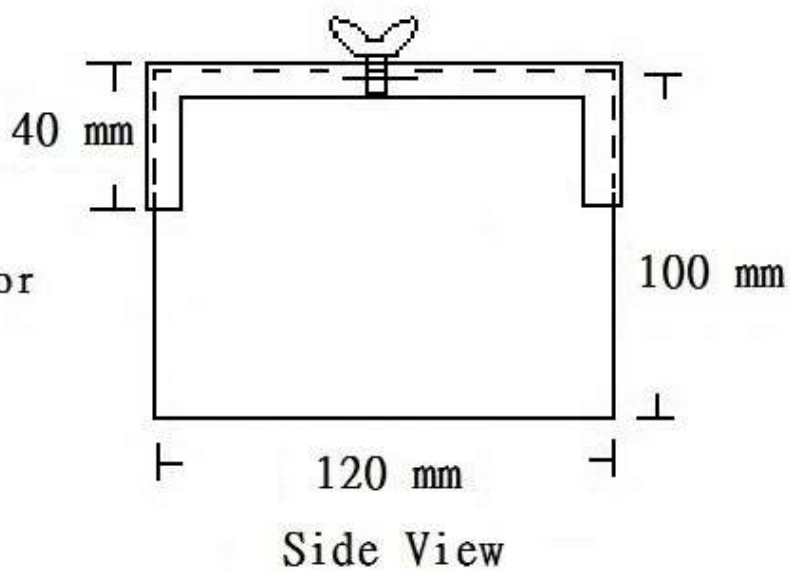
Cover  
危險  
電源接頭  
DANGER  
LIVE TERMINALS



Casing - 1mm GI with Paint Coating

A - Schneider Contactor  
( iCT Type )

B - 6 Pole Electric Connector



Model : PT-HB-3

# Control

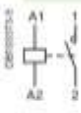
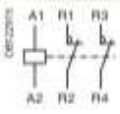
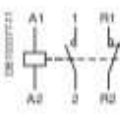
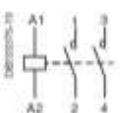
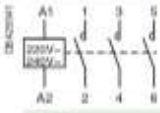
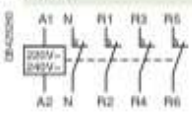

## Remote control

### Acti9 iCT contactors (cont.)

www.schneider-electric.com

#### Catalog numbers

#### Acti9 iCT contactors - 50 Hz

Type						Width in 9 mm modules
1P		Rating (In)	Control voltage (V AC) (50 Hz)	Contact		
		AC7a				
	16 A	6 A	12	1NO	A9C22011	2
			24	1NO	A9C22111	2
			48	1NO	A9C22211	2
			220	1NO	A9C22511	2
			230...240	1NO	A9C22711	2
	25 A	8.5 A	220	1NO	A9C20531	2
			230...240	1NO	A9C20731	2
2P						
	16 A	6 A	12	2NO	A9C22012	2
			24	2NO	A9C22112	2
			48	2NO	A9C22212	2
			220	2NO	A9C22512	2
			230...240	2NO	A9C22712	2
	20 A	-	12	1NO+1NC	A9C22015	2
			24	1NO+1NC	A9C22115	2
			220	1NO+1NC	A9C22515	2
			230...240	1NO+1NC	A9C22715	2
			230...240	2NO	A9C22722	2
	25 A	8.5 A	24	2NO	A9C20132	2
			48	2NO	A9C20232	2
			220	2NO	A9C20532	2
			230...240	2NO	A9C20732	2
	40 A	15 A	220...240	2NC	A9C20536	2
			230...240	2NC	A9C20736	2
			220...240	2NO	A9C20842	4
	63 A	20 A	24	2NO	A9C20162	4
			220...240	2NO	A9C20862	4
	100 A (*)	-	220...240	2NO	A9C20882	6
3P						
	16 A	6 A	220...240	3NO	A9C22813	4
	25 A	8.5 A	220...240	3NO	A9C20833	4
	40 A	15 A	220...240	3NO	A9C20843	6
	63 A	20 A	220...240	3NO	A9C20863	6
3P+N						
	40 A	15 A	220...240	4NO	A9C24740	6
			220...240	4NC	A9C22740	6
	63 A	20 A	220...240	4NO	A9C24763	6
			220...240	4NC	A9C22763	6

(\*) do not use for lighting applications

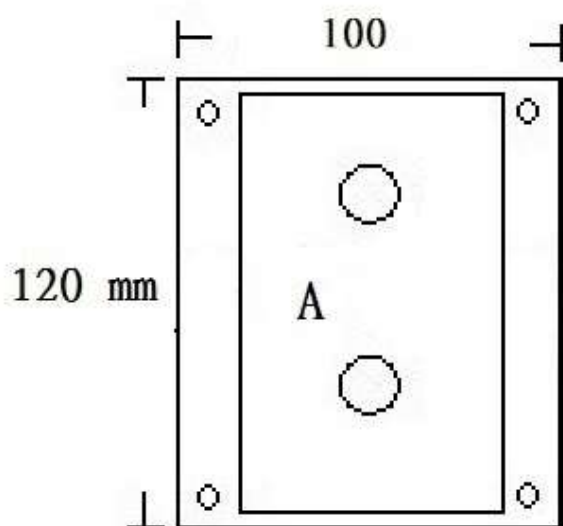


## Schneider iCT Type 230/240Vac, 16A 2 Pole Contactor

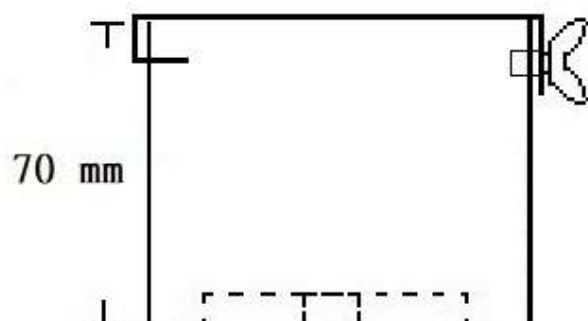




## FCU Mini Heater Box



Top View



Front View

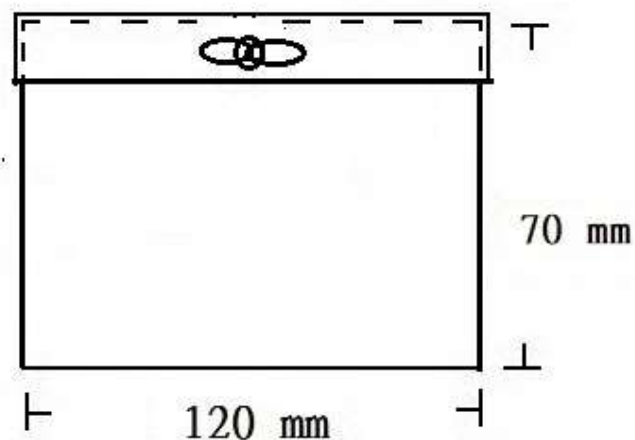
Casing - 1mm GI with Paint Coating

A - Non-Combustible Board

Cover



Model : PT-HB-M

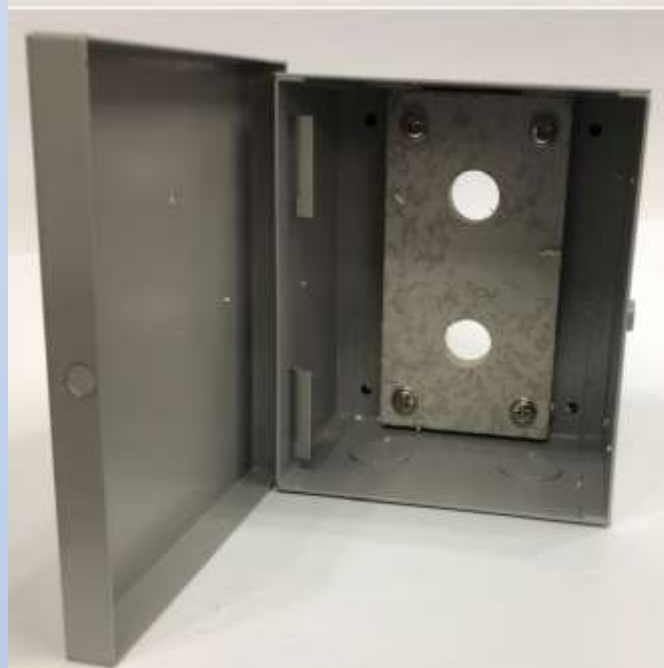


Side View





# FCU Heater Mini Box



**Model : PT-HB-M**

**Size : 70 x 120 x 100 (mm)**



# Rainbow *Design Patent* Overheat Control UL / CE



**Model : TSR-050SF**  
**( Factory Pre-set 50°C )**  
**20A / 250V**



# MADE I N KOREA

Safety Limiter with Manual Reset

## TSR-Series



### Features

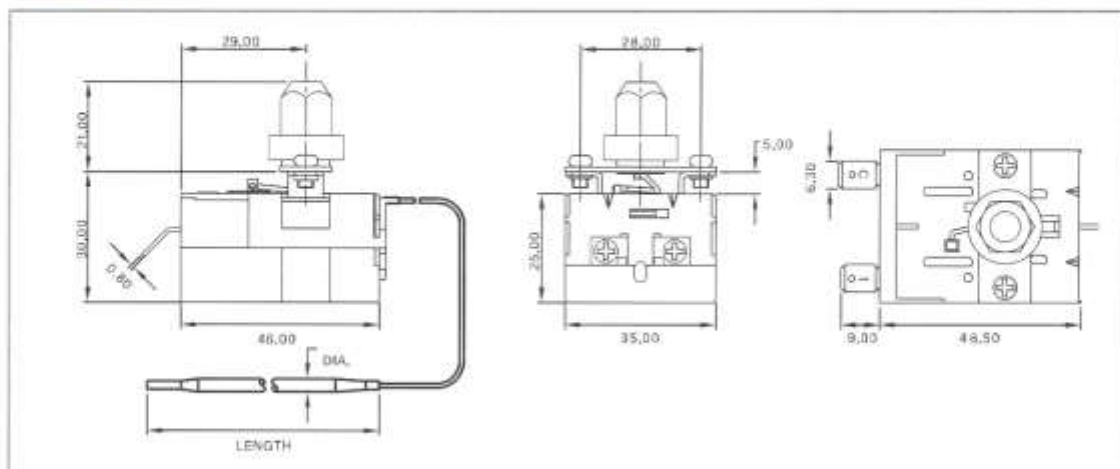
- Factory pre-set at fixed temperature up to 350°C
- Bulb and capillary are 300 series stainless steel
- Different insulation tube length
- Bulb has a variety of shapes and dimensions
- Panel mounting installation

### Specification

Model	Temp. Range	Accuracy	Bulb	Specification
TSR-XXXSF	Pre-set at up to 350°C	$\pm 5^{\circ}\text{C} \sim 10^{\circ}\text{C}$	3 ~ 5.8φ 60 ~ 144mm	- Capillary : 1,000mm(250mm ~ 2,000mm) - Studing Bolt : PT1/4, M12, M14 - Electric Rating : 20A / 250V, 30A / 250V

※ XXX designates pre-set temperature.

### Drawing



消防處  
牌照及審批總區  
香港九龍尖沙咀東部康莊道1號  
消防總部大廈5樓



FIRE SERVICES DEPARTMENT  
LICENSING AND CERTIFICATION COMMAND

Fire Services Headquarters building,  
5/F, No.1 Hong Chong Road, Tsim Sha Tsui East,  
Kowloon, Hong Kong.

本處檔號 OUR REF.: (15) in FP 207/1016(IV)  
個案編號 LIFIPS No.: 872336  
來函檔號 YOUR REF.: PTL 0028  
電子郵件 E-mail: [lcpolic2@hkfsd.gov.hk](mailto:lcpolic2@hkfsd.gov.hk)  
圖文傳真 FAX: (852) 2367 3631  
電話 TEL NO.: (852) 2733 7605

28 August 2019

Power Tech Company  
E5, 1/F, Tung Lee Industrial Building,  
No. 9 Lai Yip Street,  
Kwun Tong, Kowloon,  
Hong Kong

Dear Sirs,

**Application for Acceptance of Safety Limiter with Manual Reset Control**  
**Model TSR-050SF**

I refer to my interim reply of 14 August 2019 on the captioned subject.

Please be informed that according to the FSD Circular Letter No. 1/2007, captioned equipment is not on the list of "Fire Service Installations and Equipment Requiring FSD Approval" and therefore application for its prior acceptance by this Department is not required. Please refer to the following website for more information:-

[http://www.hkfsd.gov.hk/home/eng/source/circular/2007\\_01.pdf](http://www.hkfsd.gov.hk/home/eng/source/circular/2007_01.pdf)

Please feel free to contact Senior Station Officer YAM Ka-wang at 2733 7827 for any other questions.

Yours faithfully,

(YIP Hor-man)  
for Director of Fire Services

YHM/ykw



澳門特別行政區政府  
Governo da Região Administrativa Especial de Macau  
消防局  
Corpo de Bombeiros

安達空調設備工程有限公司 台啟

來函編號  
Sua referência  
PTL-1909001-FS

來函日期  
Sua comunicação de  
10/09/2019

發給編號  
Nossa referência  
10480/DPI/2019

澳門何鴻燊博士大馬路  
Av. Doutor Stanley Ho, Macau  
10 OCT 2019

事由：  
Assunto 寄送意見書 — 申請審批設備

敬啟者：

按來函之要求，現附上本局第 3657/GEL/DPI/2019 號意見書複印本乙份。

順頌  
台祺

局長

梁毓森  
消防總監





澳門特別行政區政府  
Governo da Região Administrativa Especial de Macau

消防局  
Corpo de Bombeiros

頁編號 1/1  
Pág. n.º  
文件編號 3657/GEL/DPI/2019  
Inf. n.º  
日期: 09 / 10 / 2019  
Data

核閱  
Visto

於  
Em 10 / 10 / 2019

### 意見書

事由：申請審批設備

參件編號：安達空調設備工程有限公司來函編號：  
PTL-1909001-FS

於 10/09/2019 收到安達空調設備工程有限公司上述編號文書及其附錄文件，  
本局之意見如下：

01. 產品列表：

項目	產品類型	產品名稱/型號	製造商
1.	Temperature-indicating and -Regulating Equipment - Component	Regulating thermostats-manual rest/Model: TSR-050SF	RAINBOW ELECTRONICS CO LTD

1.1. 根據交來之資料分析，01點列表所載之產品並非本局之評核範圍，故本局未能給予專屬之消防意見。然而，在落實個案使用時，應徵詢權限部門(土地工務運輸局)之意見。

鄧偉麟  
消防員



## XAPX2.E173663 Temperature-indicating and -Regulating Equipment - Component

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### Temperature-indicating and -Regulating Equipment - Component

[See General Information for Temperature-indicating and -Regulating Equipment - Component](#)

#### RAINBOW ELECTRONICS CO LTD

E173663

303-204 PUCHUN TECHNOPARK-III

36-1 SAMJUNG-DONG OJUNG-KU

PUCHUN-CITY, KYUNGGI-DO 421-808 REPUBLIC OF KOREA

#### Investigated to UL 873

**Regulating Thermostats** Model(s) TS-XXXC(\*), TS-XXXC-L(\*), TS-XXXCF(\*), TS-XXXCF-L(\*), TS-XXXS(\*), TS-XXXS-L(\*), TS-XXXSF(\*), TS-XXXSF-L(\*)

**Regulating thermostats - manual reset** Model(s) TSR-XXXSF, where XXX equals 020-350.

**Limiting thermostats - automatic reset** Model(s) RST-XXXS, RST-XXXSF, RST-XXXS/HC, RST-XXXSF/HC, where XXX equals 0-320.

**Regulating Thermostat - Manual reset** Model(s) RMT; followed by -000 through -350; followed by SF or CF; maybe followed by DL or DU.

#### Investigated to

**Regulating thermostats - automatic reset** Model(s) RPT; followed by -000 through -320, followed by C,S,CF or SF, maybe followed by -2

(\*) - where XXX flow by 030 - 320

Marking: Company name and model designation.

[Last Updated](#) on 2015-07-31

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# AHU / PAU Heater Box

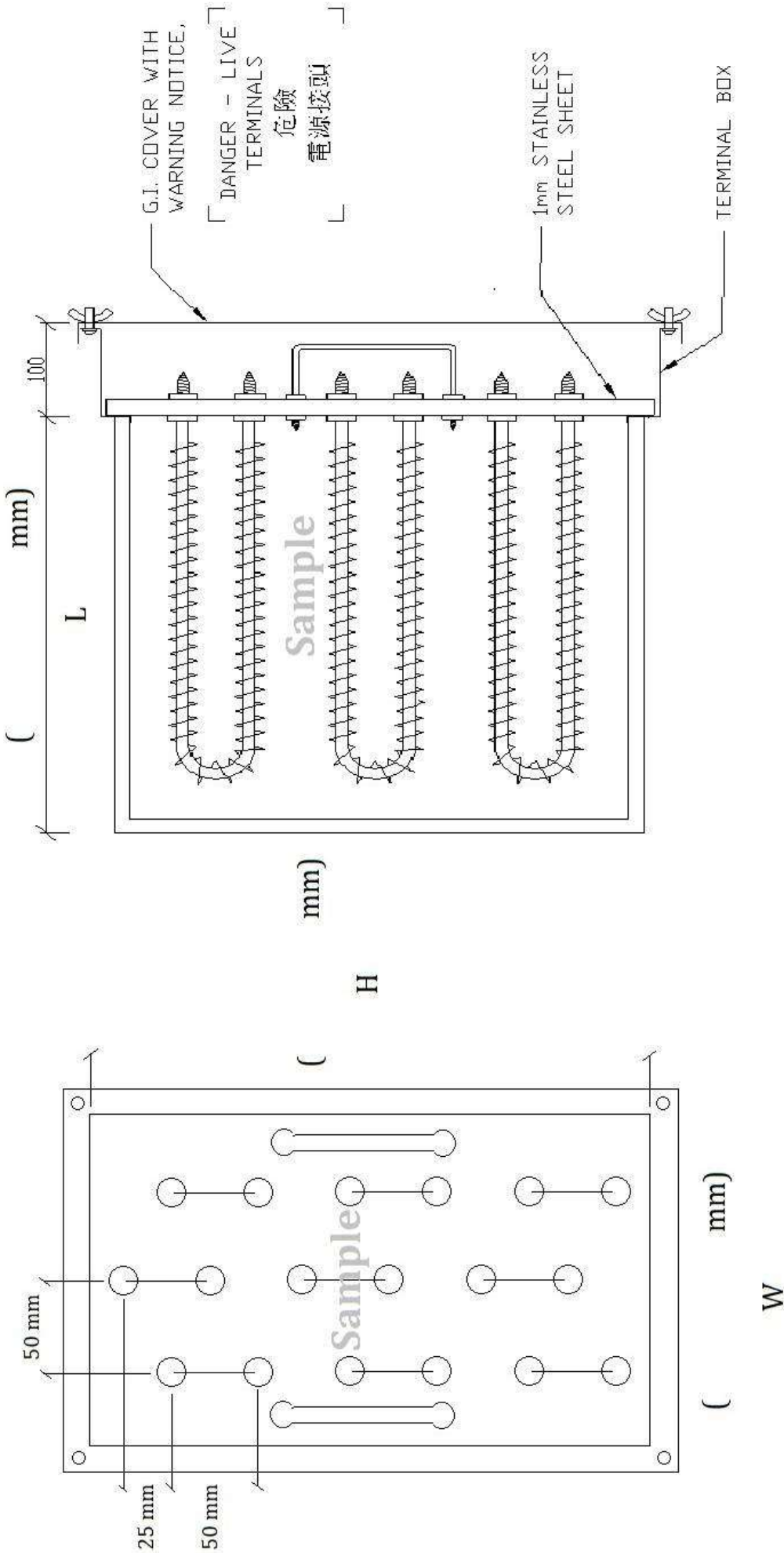




Front View

Duct Type Heater Box

Side View



Design By : Ricky Sun

Project			
Location			
Duct Size			
		Heat Load	
		Heater Model	
		Box Size	





# Job Reference

Project	Client	Date
菲臘牙科醫院	醫管局	2017
靈實醫院	醫管局	2018
中文大學上海总会 科研技術中心	CUHK	2018
香港科技大學- 動物實驗室	HKUST	2018
澳門山頂醫院	業興冷氣	2019
Star World Hotel ( 5/F, Suncity )	Kinetic Eng. Co. Ltd	2019
Union Hospital	AEC	2019
No.338 North West KL	Jardine	2019
陽明山莊T4	For Lung	2019
國際金融中心一期	國際金融中心	2019
東華醫院	醫管局	2019
黃大仙醫院	醫管局	2019
伊利沙伯醫院	醫管局	2019
港安醫院	港安醫院	2019
灣景酒店	灣景酒店	2019
中環恆生銀行總行	恆生銀行	2019
威爾斯醫院	醫管局	2019
HK Electric	HK Electric	2019
香港港安醫院	AEC	2019
澳門威尼斯人	ATAL	2019





# Job Reference

Project	Client	Date
澳門大學E12與健康科學院	ON Chin E&M	2019
Queen Mary Hospital	ATAL	2019
公處	For Lung	2019
Sand Cotai ( Macau )	<b>Honeywell Ltd</b>	2020
中環鑽石大廈	OMA Engineering Ltd	2020
陽明山莊	WINPACT	2020
Princess Margaret Hospital	AEC	2020
新澳門持首辦公大樓	Heng Kei Air-Cond.	2020
Macau Londoner	綠怡科技	2020
淺水灣國際學校	Atal	2020
廣華醫院	China State M&E	2020
屯門醫院	Shun Cheong	2020



## GENERAL SPECIFICATION

### A. Electric Heating Element

Make	PT
Brand	PTS
Type	Black heat type electric heating element , FSD and CE approval
Material	304 stainless steel tubes, fins & threaded mounting bushing

Electrical characteristics 220-240/1/50 ( V/Ph/Hz )

Heating element shall be stainless steel sheathed and of "black"  
Heat type with 'cold' extensions for cable connection. Heating  
element shall have CE approval or equal



## General Specification

### **B. Overheat Safety Control**

Make	PT
Brand	RAINBOW
Type	Factory pre-set at fixed temperature to 50°C Bulb and capillary are stainless steel UL and CE approval
Electric Rating	20A / 250V
Overheat temperature Sensor	Required Length : 250 mm and Bulb Type temperature sensor
Overheat cutout	Required with manual reset

A duct type overheat thermostat, fail-safe feature, manual reset with UL and CE approval. Shall be provided at a distance of 600 mm maximum from the heating elements to switch off the Main Power Supply of Heating Elements when the mean temperature inside the air duct exceed 50°C +/- 10 % and within 90 seconds of reaching this temperature.



## General Specification

### C. Heater Control Box

Make	PT
Type	Silent Type
Casing	1mm GI casing and baked enamel paint
Electrical Supply	<ol style="list-style-type: none"><li>1 . Schneider ( Low Noise Contactor)</li><li>2. Win Power ( SCR )</li><li>3. FOTEK ( Solid State Relay )</li></ol>

A heater control box must be silent type , Used Schneider ( Low Noise Contactor ) or FOTEK ( Solid State Relay ) or Win Power ( SCR ) for electrical supply, made of 1mm GI casing and baked enamel paint.



## General Specification

### **D. Electrical Supply for Heating Element**

Make	Schneider or FOTEK or WIN POWER
Type	Electric Contactor or SSR or SCR
Model	1. Schneider iCT Type 2. SSR-25AA or SSR-25DA 3. PC-2440 / SP2420 / TP4820 - 150
Input Signal ( Voltage)	1. 80 - 250 VAC / 3 - 32 VDC 2. 4-20 mA or 0-10 VDC
Output Load	1. 20-32A , single phase , 220-240V 2. 20-150A , 3 phase , 415 V

The electrical supply of heating element shall be controlled by Electric Contactor or SSR or SCR to provide silent operation and safe conditions. Main supply power should be cut out automatically under over-heat condition (cut out signal method is not acceptable for safety reason)





**旭彩實業有限公司**  
**York Choi Industrial Limited**



**Power Tech**

## Contact

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