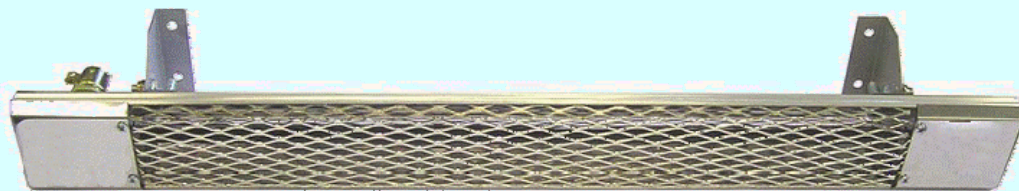


# TOBIN

ELECTRICAL COMPONENTS

INDUSTRIAL HEATING

COMFORT HEATING



2014

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## Company Profile

Tobin Electrical Components Pty. Ltd. was founded in 1977 by Dick Tobin, who had spent 47 years in the electrical appliance and spare parts Industry. With his sons, Rod and Greg, they operated out of a small first floor warehouse at Five Dock in Sydney, as manufacturer's agents and distributors. The company was originally called Tobin Element Supplies Pty Ltd. In 1981, as the business expanded they moved to larger premises at Enfield with an increased staff of 7. Another move to Strathfield South occurred in 1993 with staff now at 11. The last move, to a modern 1260 square metre warehouse located in Bruncker Road at Chullora in Sydney's inner west, was in 2008 with a staff now at 18.

Dick Tobin passed away in 2001 and Rod Tobin retired from the company in 2006. Greg Tobin has since sold his shares and is now working part time. Vince Grasso, a long standing and valued employee, is now sole director and owner of Tobin Electrical Components Pty. Ltd.

Tobin's still today function like a family owned and operated company and take great pride in their customer service, quality products and their commitment to diversification and growth.

Originally starting out distributing electric elements, Tobins now carry a range of over 10,000 different products and have customers in every state of Australia, New Zealand and most of the Pacific Islands.

Our products are sourced in Australia as well as imported from overseas countries such as the USA, UK, Italy, South Korea, South Africa, Brazil, Taiwan and China.

**Tobins – a company you know and trust.**



**RADIANT HEATERS**

The ideal solution for comfort heating in public, commercial or industrial premises.

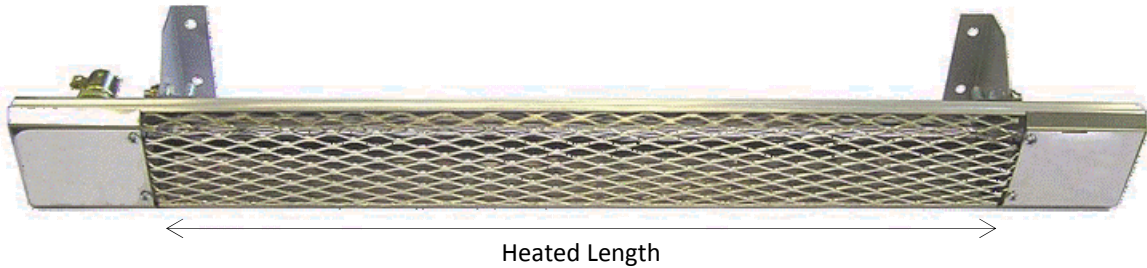
Wall mounted or ceiling mounted suspended by a chain.

Can also be mounted in rows or banks, tunnel or oven section configuration.

Achieves concentrated heat in many heat process applications, such as drying paint or fruit, heating plastic materials for forming, heat curing or melting glues.

Constructed from a strong heavy duty aluminium frame, they have a stainless steel reflector and tubular sheathed alloy elements.

Complete with protective wire grille and mounting hinges.



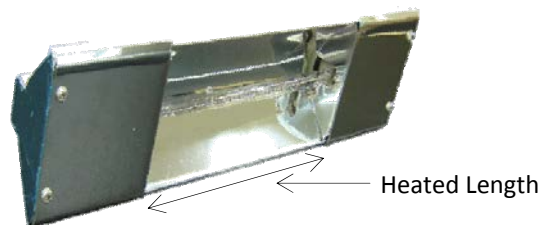
RADIANT HEATERS				
Cat No.	Wattage	Heated Length	Overall Length	Weight
TU08C	800W	380mm	597mm	1.2kg
TU11C	1100W	1680mm	738mm	1.6kg
TU15C	1500W	715mm	929mm	2.0kg
TU18C	1800W	860mm	1072mm	2.2kg
TU24C	2400W	1150mm	1367mm	2.7kg
TU30C	3000W	1420mm	1635mm	3.3kg
TU36C	3600W	1680mm	1896mm	4.0kg

**HIGH INTENSITY QUARTZ HEATERS**

Ideal for applications where high intensity infra-red heat and light are required.

Can be mounted in rows or banks, tunnel or oven section configurations to achieve concentrated heat for many heat process applications.

They can also be used for keeping food warm and well lit for a professional presentation in the commercial catering industry.



HIGH INTENSITY QUARTZ HEATERS				
Cat No.	Voltage	Wattage	Heated Length	Overall Length
TQ46A0	240V	1000W	290mm	440mm
TQ46B0	240V	1600W	445mm	595mm
TQ46C0	415V	2000W	670mm	822mm
TQ46D0	240V	500W	170mm	320mm

### JRQ ANTI-CONDENSATION HEATERS - DIN MOUNT

Designed to help overcome condensation in Switchboard Cubicles and Closed Electric Cabinets.

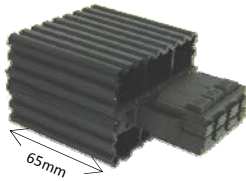
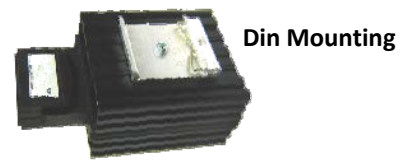
Self Limiting - Din Rail Mounting.

Operating Temperature -40°C to 70°C

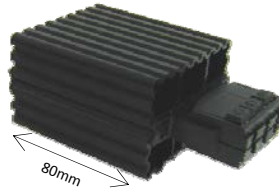
**JRQ30W** 30W 120 - 240VAC/DC

**JRQ60W** 60W 120 - 240VAC/DC

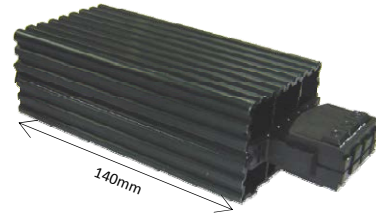
**JRQ100W** 100W 120 - 240VAC/DC



**JQR30W**



**JQR60W**



**JQR100W**

### JWT BIMETALLIC THERMOSTATS - DIN MOUNT

JWT Thermostats are 0 - 60°C adjustable, 10A 250V and are used to regulate heating equipment, cooling equipment, filter fans and heat exchangers. In addition they can be used as switching contacts for signal devices used as low, or high, temperature alarms.

Designed to measure, and control, the temperature, or humidity, in enclosures. In heating applications they should be installed in the upper section of the enclosure away from the heat source. When used for cooling they should be installed in the bottom section of the enclosure.

**JWT6011NC** Normally closed contacts - opens on temperature rise - red dial (heating).

**JWT6011NO** Normally open contacts - closes on temperature rise - blue dial (cooling).

**JWT6012** Normally open/normally closed contacts - red dial and blue dial.

**JWT6013** Humidity Controller (Hygrostat) - adjustable from 35% to 95% relative humidity



**JWT6011NC**



**JWT6012**



**JWT6011NO**



**JWT6013**

**IMMERSION HEATERS**

All elements listed are fitted with 2" BSP brass boss.  
 Manufactured using 8mm diameter 30Ss grade stainless steel.  
 Fitted with a thermostat pocket and are for use in water type situations.  
 Supplied with a Bakelite terminal cover.  
 Designed to be fitted horizontally.



Bakelite Cover



T31 Series Element

**T41 SERIES: 240V Elements with 31kW/m<sup>2</sup> Sheath Loading**

Low watts density elements for use in applications where sensitive solutions need heating or where elements may be subjected to a build up of a solution on the sheath. These elements are suited for 240V single phase 415/240V 3 phase with either tied or floating neutral connection.

Catalogue No.	Wattage	Reach	Wired 415V Delta
T41A000	1500W	500mm	4.67kW
T41B000	2400W	600mm	7.49kW
T41C000	3600W	620mm	11.20kW
T41D000	4800W	825mm	15.00kW
T41E000	6000W	1260mm	18.70kW

**T50 SERIES: 240V Elements with 77.5kW/m<sup>2</sup> Sheath Loading**

Medium watts density elements for use in water heating type applications. Suited to 240V single phase or 415V 3 phase connection using either tied or floating neutral.

Part No.	Watts	Tube Length	Wired 240V Series
T50A000	3600W	330mm	400W
T50B000	4800W	380mm	533W
T50O000	6000W	560mm	667W
T50C000	7200W	730mm	800W
T50D000	9600W	965mm	1066W

**T31 SERIES: 415V Elements with 77.5kW/m<sup>2</sup> Sheath Loading**

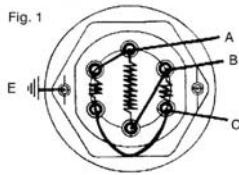
Medium watts density elements for use in water heating type applications. Suited to 415V single phase or three wire 3 phase 415V (Delta) connection.

Part No.	Watts	Tube Length	Wired 240V Star	Wired 240V Series
T31A000	3600W	330mm	1200W	128W
T31B000	4800W	380mm	1600W	171W
T31O000	6000W	560mm	2000W	213W
T31C000	7200W	730mm	2400W	256W
T31D000	9600W	965mm	3200W	342W

# IMMERSION HEATERS

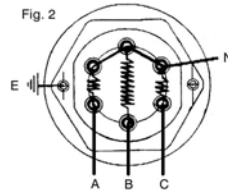
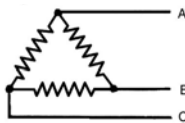
## WIRING DIAGRAMS

### THREE PHASE HEATER WIRING DIAGRAMS FOR STANDARD & ALTERNATIVE CURRENTS



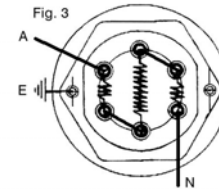
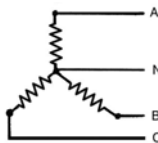
415V 3 phase 3 wire  
'Delta' connection

Equivalent to:



240V 3 phase 4 wire  
'Star' connection

Equivalent to:



240V single phase 2 wire  
'Series' connection

Equivalent to:



#### **T04-0 SERIES: 240V Elements with 116kW/m<sup>2</sup> Sheath Loading**

High watts loading series for use in applications where space is limited. Suited to 240V single phase or 415V/240V 3 phase connection using either tied or floating neutral.

Part No.	Watts	Tube Length	Wired 240V Series
T04A000	10kW	620mm	1.111kW
T04B000	15kW	930mm	1.667kW
T04C000	20kW	1180mm	2.222kW

#### **T04-1 SERIES: 415V Elements with 116kW/m<sup>2</sup> Sheath Loading**

High watts loading series for use in applications where space is limited. Suited to 415V single phase or three wire 3 phase 415V (Delta) connection.

Part No.	Watts	Tube Length	Wired 240V Star	Wired 240V Series
T04A001	10kW	620mm	3.333kW	360W
T04B001	15kW	930mm	5.000kW	535W
T04C001	20kW	1180mm	6.666kW	715W

**CHANNEL STRIP HEATERS**

Tobin Channel Strip Heaters are designed to provide reliable uniform heat to flat surfaces.

Constructed from seamless stainless steel tubing, helically wound nickel chrome resistance wire, and supported by thermally conductive ceramic insulators. They are simple to install, readily controlled and give an even spread of low intensity heat. Ideal for solid, liquid or air heating.

Suitable for - Drying Cabinets, Anti-condensation Control and Switchboard Cubicles.

Also ideal for Ovens, Platens, Incubators, Moulds, Sealing Cabinets, Autoclaves and Air Heating.

Plus a variety of Industrial and Commercial Heating applications.

Our Channel Strip Heaters come complete with Terminal Boxes and Slotted Tabs



SH750534 Channel Strip Heater

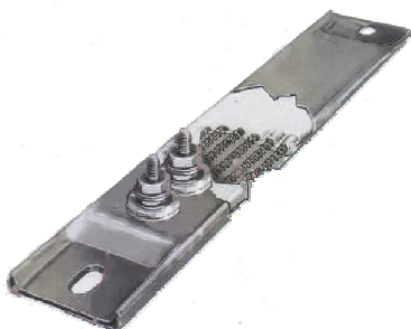


Terminal Box

We can design and manufacture custom sizes and ratings of Channel Strip Heaters to suit your specific needs if your heater requirements are not listed below.

Overall Length	Length	Wattage	Voltage	Part No.
mm	Inches			
203	8	80	240	SH80203
203	8	150	240	SH150203
267	10½	250	240	SH250267
388	15¼	500	240	SH500388
388	15¼	750	240	SH750388
534	21	500	240	SH500534
534	21	750	240	SH750534
534	21	1000	240	SH1000534
915	36	1000	240	SH1000915
1220	48	1000	240	SH10001200

Constructed from seamless stainless steel tubing, helically wound nickel chrome resistance wire, and supported by thermally conductive ceramic insulators.



Finned Channel Strip Heaters can also be Manufactured upon request.

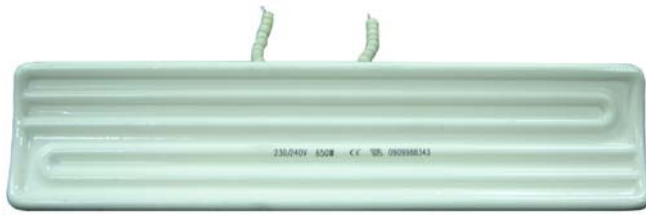




## CERAMIC ELEMENTS

### RADIANT CERAMIC ELEMENTS

Ceramic elements used in a wide range of areas such as thermoforming, non-contact drying, spot heating, warming food, infrared saunas and numerous other industrial process



**IFTE650 Full Trough Element**



**IHFE500 Half Flat Solid Element**

Without Thermocouple	With Themocouple	Type	Dimensions mm	* Wattages Available
IFFE*	IFFE*T	Full Flat Solid	245 x 60 x 24	150 , 250 , 300 , 400 , 500 , 650 750 , 1000
IFFEH*	IFFEH*T	Full Flat Hollow	245 x 60 x 36	250 , 300 , 400 , 500 , 600 , 800
IFTE*	IFTE*T	Full Trough	245 x 60 x 31	150 , 250 , 300 , 400 , 500 , 650 750 , 1000
IHFE*	IHFE*T	Half Flat Solid	122 x 60 x 24	125 , 150 , 200 , 250 , 325 , 500
IHFEH*	IHFEH*T	Half Flat Hollow	122 x 60 x 36	125 , 200 , 250 , 300 , 400
IQFE*	IQFE*T	Quarter Flat Solid	60 x 60 x 24	125 , 250
IQFEH*	IQFEH*T	Quarter Flat Hollow	60 x 60 x 36	125 , 200 , 250 , 300 , 400
IHTE*	IHTE*T	Half Trough	122 x 60 x 31	125 , 150 , 200 , 250 , 325 , 500
IQTE*	IQTE*T	Quarter Trough	60 x 60 x 31	125 , 250
ISFSE*	ISFSE*T	Square Flat Solid	122 x 122 x 24	150 , 250 , 300 , 350 , 400 , 500 , 650 , 750
ISFEH*	ISFEH*T	Square Flat Hollow	122 x 122 x 36	250 , 300 , 400 , 500 , 600 , 800
ILFTE*	ILFTE*T	Large Full Trough	245 x 110 x 37	1000 , 1500
IQCE*	IQCE*T	Quarter Curve	60 x 60x 45	150 , 250

\* Indicate desired wattage

### EDISON SCREW CERAMIC ELEMENTS

240V Edison Screw (27mm) bulb shaped elements predominately used in animal husbandry.



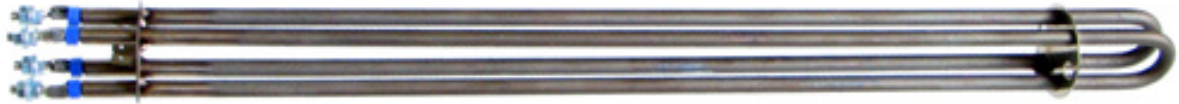
**ESE 100W Ceramic Bulb**

Part No.	Description	Dimensions mm	Wattage
ESE60	ES Ceramic Bulb	80 x 110	60W
ESE100	ES Ceramic Bulb	80 x 110	100W
ESE150	ES Ceramic Bulb	95 x 140	150W
ESE250	ES Ceramic Bulb	95 x 140	250W
ESE500	ES Ceramic Bulb	140 x 140	500W

**WITHDRAWABLE TUBULAR ELEMENTS**

Withdrawable Tubular Elements are the ideal heating element to specify in applications where it is not suitable for the heating element to be in direct contact with the product being heated. These low watts density tubular elements provide an efficient and cost effective method of heating a range of products from tar and bitumen to heating degreasing tanks.

Not usually available ex stock. Normal lead time is 10 - 12 working days ex Sydney.



SPECIFICATIONS				
Part No.	Volts	Wattage	Length mm	Elements
OE1	240	1000W	510	2
OE1.5	240	1500W	710	2
OE2	240	2000W	915	2
OE2.5	240	2500W	1120	2
OE3	240	3000W	1350	2
OE3.5	240	3500W	1550	2
OE4	400	4000W	1750	3
OE4.5	400	4500W	1955	3
OE5	400	5000W	2185	3
OE6	400	6000W	2620	3
OE7	400	7000W	3050	3

## DRUM HEATERS

### DHT20240 - DRUM HEATER

2000W 240V Drum Heater with 30 - 110°C Thermostat Control  
3 Heat Resistant Handles  
Suit 200 - 220 Litre Drums  
Weight - 6 Kg

These heaters are light weight and portable. They can be moved from drum to drum as required. If more heat is required extra drum heaters can be fitted.

Constructed from either zinalume or stainless steel, the heaters feature unique safety handles to prevent burns and also to prevent the heaters surface from coming into contact with the floor when placed at the bottom of the drum.

Can be configured to rate 500W or 2000W at 240V.

60 litre versions available on request.



### TC72 TROLLEY DRUM HEATER

2400W 240V with Infinite Energy Regulator

Our TC72 Trolley Drum Heater is the perfect solution when convection type heat is required for heating the contents of 200 litre (44 gallon) drums.

The trolley itself is made from galvanised mild steel and fitted with an aluminium reflector. It is simmerstat controlled and has a 2400W incoloy 800 element.

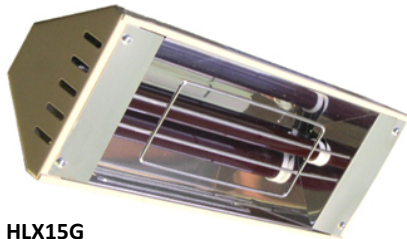
Lead time 2-3 weeks from order



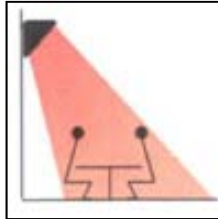
**HLX INFRA-RED HEATER**

The inexpensive answer to spot heating, offering a cost effective way to provide instant heat to small, localised areas requiring comfort heating. Ideal for workshops, garages, packing areas, church halls, shops, warehouses and small factories. With the click of a switch the HLX modular heating system provides instant warmth when you need it, and is designed to blend in with the décor of any modern or traditional amenity, commercial or industrial working environment.

Also available mounted on portable tripod with 3 metre lead and switch (approximate height 1.75m).



HLX15G



Recommended  
Mounting  
Height  
2.2 - 3.0 metres



HLX15P

Part No.	Wattage	Dimensions	Weight
HLX15G	1500W	400 x 140 x 85mm	1.75kg
HLX15P	1500W	400 x 140 x 85mm	1.75kg
(+Stand Height 1.7m)			

**REPLACEMENT LAMP**

**WZL1500G** 1500W 240V IR lamp

**HLW INFRA-RED HEATER**

This weatherproof short wave infra-red heater has been designed to meet the requirements of today's needs for outdoor heating and can be used in any application. It is safe to use in the rain and continues to work even when subject to intense water jets. Using a quartz lamp it gives a warm colour and also delivers high energy instant heat.



HLW15



HLW15B



HLW30BG

Part No.	Wattage	Dimensions	Weight	Colour
HLW15	1500W	480 x 120 x 120mm	1.7kg	White
HLW15B	1500W	480 x 120 x 120mm	1.7kg	Black
HLW20BG	2000W	480 x 120 x 120mm	1.7kg	Black
HLW30BG	3000W	960 x 120 x 120mm	3.2kg	Black

**COMFORT HEATING**

**HLQ INFRARED HEATERS**

HLQ pro models are designed for general internal installation or under waterproof canopies or roofs, providing quartz, short wave, high energy, instant infra-red heat. With 3kw and 6kw models they offer the instant answer to many zone or localised heating solutions. The units can be wall mounted or ceiling suspended, and come in single or three phase versions. They are manufactured from aluminium and are powder coated in a neutral ivory finish. Element guards are standard on both models and the heaters are fitted with high efficiency gold shortwave lamps as standard.



**HLQ30G**



**HLQ60G**

Part No.	Wattage	Voltage	Dimensions	Weight
<b>HLQ30G</b>	3000W	230V	420 x 430 x 110mm	4.5kg
<b>HLQ60G</b>	6000W	230V-380V	420 x 590 x 110mm	6.0kg

You want it - we've got it!

# TOBIN

ELECTRICAL COMPONENTS



1. Tobin 2014 Finned Air Heaters
2. Tobin 2013-14 Trade Price List/Catalogue
3. Tobin 2014 Commercial Appliance Spare Parts
4. Tobin 2013 Enclosures Catalogue
5. Tobin 2014 Industrial Heating Catalogue
6. Tesco 2014 Element & Spare Parts Catalogue
7. Tobin Floor Outlet Box Catalogue

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