

THEETA[®]

ENGINEERED FOR PERFECTION



DOMESTIC & INDUSTRIAL
HEATING ELEMENTS

THEETA®

The Company

Theeta is the largest producer and exporter of tubular heating elements and heating units for domestic, commercial and industrial applications in India. The elements and heating units are sold under the brand name Theeta.



Our Mission & Vision

From the day of inception, THEETA has come a long way with a strong determination to survive all odds, we are committed to:-

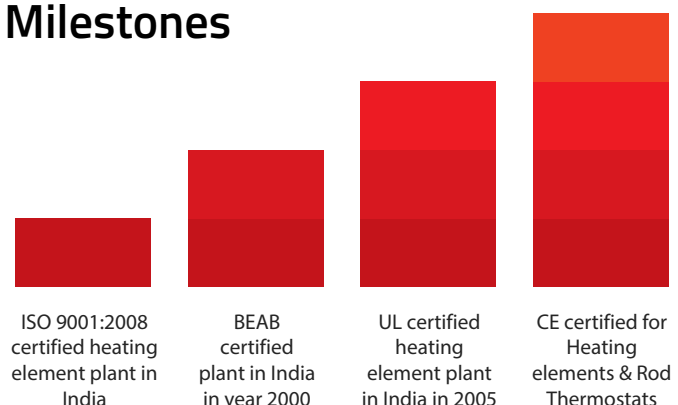
- Incorporate latest innovations and technological expertise in our production systems that are cost effective.
- To excel in every aspect of product quality and customer satisfaction.
- Our worldwide acceptance is rooted in quality processes that are employed at every step throughout the enterprise production line.

The company is led by a team of highly qualified engineers and professionals with more than 25 years in the specialized field of electric heating.

Our IMS certified (ISO9001:2015, ISO 14001:2015, & ISO 18001:2007) plant is located at IMT Manesar, Gurgaon, 30 kms from New Delhi and covers an area of 80,000sqft.

Our customers for heating elements and units include all major domestic and Industrial companies in India.

Milestones



Manufacturing

The heating elements are manufactured at our plants with a combined area of approx 100,000 sq ft. This gives us the capacity to handle huge volumes both for domestic and exports market.

Manufacturing Strengths

- Fully and semi automatic machines from leading manufacturers of heating element equipment all over the world
- Dedicated production lines for high volumes
- Fully Automated and semi automated processes at various stages of production.
- Facility for Glass lined Heating Elements
- Large tonnage Hydraulic Presses
- High capacity pressure testing machines
- Ample raw material stocks for faster turnaround
- Heating Elements available from 6.5 mm to 16mm diameter and lengths upto 8 metres
- Tubing: Various grades of Stainless Steel, Incoloy, Inconel, Copper, Aluminum, Mild Steel, Steel tube Copper coated, Titanium



As per ISI requirements we conduct

- Routine tests
- Acceptance Tests
- Type Tests

Our Incoming Inspection lab, Quality Lab and R&D lab are also well equipped with all the necessary instruments and testing panels which are regularly calibrated from master instruments which are in turn calibrated from accredited labs.

Testing

Theeta has all the testing equipment necessary for manufacturing of elements. Right from the inception to the final stages, the elements go through various tests.



Design

A dedicated team at Theeta uses the latest 2D & 3D software tools to design the element, heating systems and units according to customer's requirement.



Our sourcing team with their vast experience has a number of qualified vendors on the panel that help us develop and supply the machined parts and accessories

Our Tool room is well equipped with the necessary machinery like Lathe Machines, Milling Machines, Shapers, Drill machines, Grinders etc for developing fixtures and assemblies required for the heating elements. Some of the complicated fixtures are sourced from various tool rooms.

Research & Development

Research and Development play an important and strategic role, hence a structured approach to creativity is used to stimulate innovation at Theeta



Theeta has dedicated R&D lab for testing and developing new ideas, improvement in production processes, new and existing product development, long term product testing based on actual environment, value engineering and developing of most appropriate industrial production for higher quality.

The main projects undertaken for the benefit of the Business Units include the development of new and next generation products and solutions in areas of scaling, corrosion, design, target materials, alloys, coating and casting.

More than ever, the successes of the businesses in our company are the result of a relentless pursuit of new, innovative solutions and developments.

Certifications



Quality Policy

We at Theeta Electrical ensure customer satisfaction through quality and safety in our products, achieved through up gradation of human resources, technology and continual improvement in systems.

PROVIDE PRODUCTS

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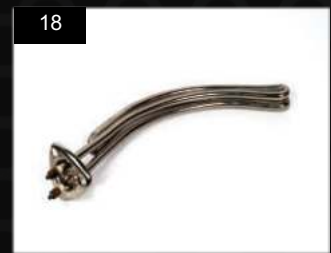
Domestic Water Heating Elements

Storage Water Heaters

Manufactured out of Copper tube duly Nickel plated or Incoloy tube for hard water applications. The elements are brazed to brass cups/flanges/ferrules and are plated if required. Fiber/ Rubber washers are provided if required. Heaters can also be supplied with Thermostat pockets



S. No.	Product Code	Product Description	Depth of Immersion	Material	Voltage	Wattage
1	2578	ROUND CUP	215	COPPER	230V	1.5KW
2	2536	ROUND CUP	225	COPPER	230V	2.0KW
3	2581	TRG CUP	215	COPPER	230V	1.5KW
4	2537	TRG CUP	225	COPPER	230V	2.0KW
5	2660	TRG CUP	290	COPPER	230V	3.0KW
6	5299	TRG CUP 7"	175	COPPER	230V	2.0KW
7	2622	TRG CUP 11"	280	COPPER	230V	2.0KW
8	2640	DUAL TUBE	227	COPPER	230V	2.0KW
9	2621	TRG	280	COPPER	230V	2.0KW
10	6456	TRG ECO	245	COPPER	230V	2.0KW
11	2583	TRG TSP	215	COPPER/ INCOLOY	230V	1.5KW
12	2625	TRG TSP	225	COPPER/ INCOLOY	230V	2.0KW
13	2631	TRG TSP 7"	175	COPPER	230V	2.0KW
14	2628	TRG TSP 11"	280	COPPER	230V	2.0KW
15	2633	TRG TSP	280	COPPER	230V	2.0KW
16	2603	CUP TSP	225	COPPER	230V	2.0KW
17	1107	BANANA	225	COPPER	230V	2.0KW
18	6455	TRG ECO BANANA	240	COPPER	230V	2.0KW
19	2676	CLIPON D/T	220	COPPER/ INCOLOY	230V	2.0KW
20	6825	CLIPON SINGLE	245	COPPER	230V	2.0KW

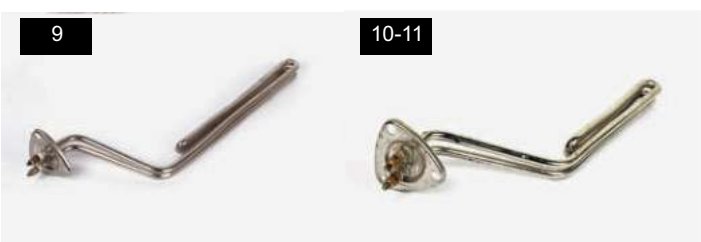


Elements can also be designed as per customer specifications
 Elements are available in various wattages and tubes of various grades and diameters

Storage Water Heaters



S. N.	Product Code	Product Description	Depth of Immersion	Material	Voltage	Wattage
1	6448	MTTH	145	COPPER	230V	3.2KW
2	6644	MTTH	198	COPPER	230V	2.0KW
3	2636	ERTH	225	COPPER/ INCOLOY	230V	2.0KW
4	2586	ALTO	265	COPPER/ INCOLOY	230V	2.0KW
5	6408	15 LTR	207	COPPER	230V	2.0KW
6	6409	25 LTR	278	COPPER	230V	2.0KW
7	2587	ALTO (HORZ)	380	COPPER	230V	2.0KW
8	7617	SPH (HORZ)	260	COPPER	230V	2.0KW
9	2589	(HORZ)	355	COPPER	230V	2.0KW
10	2657	TRG (HORZ) 15 LTR	265	COPPER	230V	2.0KW
11	2635	TRG (HORZ) 25 LTR	380	COPPER	230V	2.0KW
12	6420	(HORZ) NIPPLE	400	COPPER	230V	3.0KW
13	2612	SPH	205	COPPER	230V	2.0KW
14	2615	SPH BIG CUP	245	COPPER	230V	2.0KW



Elements can also be designed as per customer specifications

Elements are available in various wattages and tubes of various grades and diameters

! Caution: All Water heating elements are meant for heating water only and these must be fully immersed in water before putting them in operation


Storage Water Heaters



S. N.	Product Code	Product Description	Depth of Immersion	Material	Voltage	Wattage
1	6256	CUP STUD	145	COPPER	230V	3.0KW
2	5292	CUP STUD	170	COPPER	230V	4.5KW
3	2677	CUP STUD (SPH)	207	COPPER	230V	3.0KW
4	6982	CUP STUD TSP	145	COPPER	230V	3.0KW
5	2652	ROUND FLANGE	145	COPPER	230V	3.0KW
6	2653	ROUND FLANGE TSP	145	COPPER	230V	3.0KW
7	2644	9/16 NIPPLE	145	COPPER	230V	3.0KW
8	7617	15 LTR / 25 LTR (HTH)	260	COPPER / INCOLOY	230V	2.0KW
9	7369	D/T (JTH)	190	COPPER / INCOLOY	230V	2.0KW
10	8106	10 LTR PTH	148	COPPER / INCOLOY	230V	2.0KW
11	8105	15/25 LTR PTH	265	COPPER / INCOLOY	230V	2.0KW

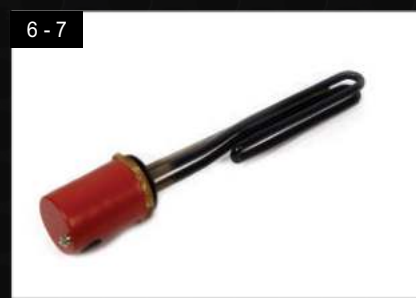
Elements can also be designed as per customer specifications

Elements are available in various wattages and tubes of various grades and diameters

 Caution: All Water heating elements are meant for heating water only and these must be fully immersed in water before putting them in operation

Storage Water Heaters - Glass Lined

Manufactured out of Incoloy tube, the elements are coated with Glass. Glass coating substantially reduces the scale formation on the heating element, thereby ensuring a highly efficient and long lasting heating element



S. No.	Product Code	Product Description	Depth of Immersion	Material	Voltage	Wattage
1	8143	10 LTR STH	155	GLASS LINED- INCOLOY	230V	2.0KW
2	8208	15 LTR STH	265	GLASS LINED- INCOLOY	230V	2.0KW
3	7851	TRG CUP	225	GLASS LINED- INCOLOY	230V	2.0KW
4	9879	15 LTR / 25 LTR HTH	400	GLASS LINED- INCOLOY	230V	2.0KW
5	8130	HTH	240	GLASS LINED- INCOLOY	230V	2.0KW
6	7980	Solar	290	GLASS LINED- INCOLOY	230V	2.0KW
7	7917	Solar	175	GLASS LINED- INCOLOY	230V	3.0KW

Immersion Rod

Used for household bucket water heating. Manufactured as complete packed set including packaging & warranty card.

S. No.	Product Description	Material
1	1000W immersion rod w/o indicator	Copper
2	1000W immersion rod with indicator	Copper
3	1500W immersion rod w/o indicator	Copper
4	1500W immersion rod with indicator	Copper



Elements can also be designed as per customer specifications

Elements are available in various wattages and tubes of various grades and diameters

⚠ Caution: Please handle the elements carefully so as no to damage the glass lining. All Water heating elements are meant for heating water only and these must be fully immersed in water before putting them in operation

Domestic Air Heating Elements

Cooking Ranges/Hot Plates

Cooking Coils are manufactured out of high temperature resistant nickel alloy tube. Each coil consists of two individual elements (One element in case of 1000W) to give three ratings when used with a rotary switch.

The sizes vary from 5" to 8" in diameter and are available in single or dual coils. Available capacity from 600W to 2000W.

Suitable for Cooking Ranges and Hotplates



S. N.	Product Cde	Product Description	Material	Voltage	Wattage
1	1029	DSKJ	H.T.N.A	230V	1.0KW
2	1030	CC	H.T.N.A	230V	1.0KW
3	1031	6" DH	H.T.N.A	230V	1250W
4	7323	6" RADIANT	H.T.N.A	230V	1250W
5	1031	6" DH	H.T.N.A	230V	1500W
6	1037	7" DH	H.T.N.A	230V	2.0KW
7	1040	8" DH	H.T.N.A	230V	2.0KW

H.T.N.A: High Temperature Nickel Alloy

Irons

Manufactured out of Aluminium / Steel tube copper coated.

Available in wattages from 600W - 1350W

Suitable for all Dry and Steam Irons



Elements can also be designed as per customer specifications

Elements are available in various wattages and tubes of various grades and diameters

OTG / Tandoors

Manufactured out of Stainless Steel/ Incoloy Tubing and available in various wattages. Supplied with all necessary fittings like mounting brackets, clamps etc. Suitable for all



Microwave Ovens



Manufactured out of Stainless Steel / Incoloy tubing. Available in wattages from 1000W -2000W. Suitable for all Convection Microwave ovens.

Chapati Makers



Manufactured out of Steel Tube Copper Coated and available in wattages from 600W-1350W. Suitable for all Chapati makers.

Toasters



Manufactured out of Steel Tube Copper Coated and available in wattages from 250W to 700W. Suitable for all toasters and Waffle makers.

Elements can also be designed as per customer specifications

Elements are available in various wattages and tubes of various grades and diameters

Industrial Air Heating Elements

Air Heater

Air Heaters are made out of Stainless Steel/ Incoloy tubing to with stand a surface temperature of 650 deg C. Each element is provided with two adjustable fixing brackets. Some of the applications of Industrials air heating elements include Load Banks, Furnaces, Industrial Ovens etc.

Finned Air Heaters

Finned Air Heaters are made out of Stainless Steel/ Incoloy tubing. Elements are supplied with round fins of various dia. Each element is provided with two fixing brackets. Some of the applications include Dehumidifiers, Duct heaters etc.



U shaped Standard Air heater

S. N	Drawing No.	Product Description	Material	Voltage	Wattage
1	2011	10" U	SS/INCOLOY	230V	500W
2	2007	18" U	SS/INCOLOY	230V	750W
3	2003	24" U	SS/INCOLOY	230V	1.0KW
4	2004	30" U	SS/INCOLOY	230V	1.0KW
5	2001	30" U	SS/INCOLOY	230V	1.5KW
6	2006	39" U	SS/INCOLOY	230V	2.0KW
7	2009	39" U	SS/INCOLOY	230V	1.5KW



U shaped Standard Finned Air heaters

S. N.	Drawing No.	Product Description	Material	Voltage	Wattage
1	2379	10" U FINNED	SS/INCOLOY	230V	500W
2	2002	24" U FINNED	SS/INCOLOY	230V	1.0KW
3	2734	30" U FINNED	SS/INCOLOY	230V	1.5KW
4	2757	30" U FINNED	SS/INCOLOY	230V	1.0KW
5	2005	39" U FINNED	SS/INCOLOY	230V	2.0KW
6	9074	39" U FINNED	SS/INCOLOY	230V	1.5KW



Elements can also be designed as per customer specifications
 Elements are available in various wattages and tubes of various grades and diameters

Industrial Water Heating Elements



Industrial Water Immersion Heaters are made out of copper tube brazed to brass flange and are duly nickel plated. Each elements in provided with a brass check nut two fiber washers and a painted metallic cap with a' grommet for cable end.

S. No.	Product Code	Product Description	Depth of Immersion	Number of elements	Material	Voltage	Wattage
1	2020	1.1/4" INDL	225	2	COPPER	230V	2.0KW
2	2021	1.1/4" INDL	285	2	COPPER	230V	3.0KW
3	4666	1.1/4" INDL	380	2	COPPER	230V	4.0KW
4	4264	1.1/2" INDL	225	2	COPPER	230V	2.0KW
5	2022	1.1/2" INDL	225	2	COPPER	230V	3.0KW
6	2023	1.1/2" INDL	327	3	COPPER	230V	4.0KW
7	6519	1.1/2" INDL	380	3	COPPER	230V	6.0KW
8	6427	2" INDL	265	3	COPPER	230V	3.0KW
9	2664	2" INDL	265	3	COPPER	230V	4.0KW
10	2024	2" INDL	320	3	COPPER	230V	5.0KW
11	2025	2" INDL	380	3	COPPER	230V	6.0KW
12	2026	2" INDL	580	3	COPPER	230V	9.0KW
13	1379	2" INDL	915	3	COPPER	230V	12.0KW
14	7162	2" INDL	430	3	COPPER	230V	6.0KW

Oil Immersion Heaters

Oil Immersion Heaters are manufactured out of copper coated MS Tube brazed to 2.1/2" B.S.P.P. Cast Iron Flange. Each element is provided with a Thermostat Pocket and a painted metallic cap with a grommet for cable end.



S. No.	Product Code	Product Description	Material	Depth of immersion	No. of elements	Voltage	Wattage
1	2016	OIL HEATER	CU COATED MILD STEEL	440 mm	2	230V	2.0KW
2	2017	OIL HEATER	CU COATED MILD STEEL	440 mm	2	230V	3.0KW
3	2018	OIL HEATER	CU COATED MILD STEEL	580 mm	3	230V	4.0KW
4	2019	OIL HEATER	CU COATED MILD STEEL	780 mm	3	230V	6.0KW
5	1983	OVAL FLANGE	CU COATED MILD STEEL	500 mm	3	230V	6.0KW

Industrial Chemical Heating Elements



Over-the-side Immersion Heaters

Over-the-side Immersion Heaters are used in solution where it is necessary to remove the heater for periodic inspection and cleaning as these heaters can be easily removed without emptying the tank. These are also specially suitable for use in tanks of wood and concrete etc. where screwed immersion heaters cannot be used.

S. N.	Product Code	Product Description	Material	Voltage	Wattage
1	2015	TITANIUM TUBE	TITANIUM	230V	3.0KW
2	2012	ALKALINE	STAINLESS STEEL	230V	3.0KW
3	2014	LEAD COVERED	MILD STEEL	230V	3.0KW



Alkaline Immersion Heaters

Manufactured out of Stainless steel tubing, Alkaline Immersion Heaters are used for alkaline cleaning solutions, citrus juices and very mild acid baths not corrosive to stainless steel sheath.

Lead Covered Immersion Heaters

Lead Covered Immersion Heaters are recommended for nickel and copper plating baths, or chrome plating baths and sulphuric acid solution having not more than 10% concentration. Not recommended for any other acid.

Titanium Sheath Immersion Heaters

Titanium sheath immersion heaters are generally used for plating baths such as nickel, chrome, gold and silver plating. These can also be used for ferric and iron chloride solutions, bright dips and pickles containing nitric, phosphoric and chromic acids, nitrates, nitrites permanganates persulphates and dichromates.

Anti-Condensation Space heaters



Used to ensure moisture free environment for the electrical or electronic circuit. These are low temperature heaters fitted inside a perforated metal casing for further protection.

Tubing Material: SS

Applications: Control panel across the industry, Power Generators.

Elements can also be designed as per customer specifications

Elements are available in various wattages and tubes of various grades and diameters

Commercial Water Heating Elements

The elements are manufactured out of Copper tube duly Nickel plated. Supplied with all necessary fittings like ferrules, flanges etc. Available in various wattages. Applications include Solar Water Heaters, Washing Machines, Sterlizers, Kitchen Equipment, Kettles etc.



S. N.	Product Code	Product Description	Depth of Immersion	Material	Voltage	Wattage
1	2641	1.1/4" SOLAR	290	COPPER	230V	2.0KW
2	5339	1.1/4" SOLAR	375	COPPER	230V	3.0KW
3	7532	1.1/4" SOLAR	375	COPPER	230V	2.0KW
4	7480	1.1/4" SOLAR	290	COPPER	230V	3.0KW
5	2570	1" FLANGE	215	COPPER	230V	1.5KW
6	2593	1" FLANGE	225	COPPER	230V	2.0KW
7	2600	1.1/4" FLANGE	225	COPPER	230V	2.0KW
8	2606	FIXED TYPE 1.1/4"	160	COPPER	230V	2.0KW
9	2649	FIXED TYPE 1.1/4"	160	COPPER	230V	3.0KW
10	2580	STERLIZER	230	COPPER	230V	1.5KW
11	2619	STERLIZER	230	COPPER	230V	2.0KW

Commercial Air Heating Elements

The elements are manufactured out of Stainless Steel / Incoloy Tube. Supplied with all necessary fittings like ferrules, flanges etc. Available in various wattages. Applications include Pop corn machines, Kitchen & Catering Equipment, Pizza Ovens.



Elements can also be designed as per customer specifications
Elements are available in various wattages and tubes of various grades and diameters

Commercial Oil Heating Elements

Deep Fryers

Manufactured out of Stainless Steel Tube and supplied with necessary fittings
Available in wattages from 1000W- 2000W. Suitable for Commercial deep Fryers.



Other Custom made Heating Elements

Vending Machines



Elements manufactured out of Copper tube duly Nickel Plated/ SS tube and supplied with necessary fittings like flanges, ferrules etc.
Available in wattages from 250W- 2KW . Suitable for all vending machines.



Laundry Machines

Garment Steam Machines



Manufactured out of Copper tube duly Nickel plated and available with necessary fittings. Suitable for Garment Steam Machines.

Elements can also be designed as per customer specifications
Elements are available in various wattages and tubes of various grades and diameters

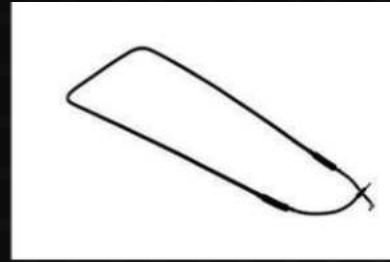
Manufactured out of Stainless Steel / Incoloy / Copper Tubing.
Round/ Square Flanged elements available from 2KW- 9KW.
Finned elements available in 2KW, 3KW & 4KW.
1", 1 ¼", 1 ½" & 2" Threaded Flanged elements available in 2KW, 4KW, 6KW and 9 KW.
Suitable for all commercial laundry machines.



Domestic & Commercial Defrost Heaters

Tubular Defrost Heaters

- These are heaters used within the refrigerators or cold storage rooms for the purpose of defrosting the ice. These can be used for circulating the hot air for defrosting within the refrigerator or placed at the doors of commercial refrigerator or storage rooms to ensure smooth openings.
- These heaters can also be placed around the blowers of compressors to remove frostings around the fans
- The terminals of these heaters are sealed by moulding or shrink sleeve to avoid any moisture or water to seep in.



Foil Heaters

- Made out of PVC insulated Resistance wires pasted with adhesive in between two Aluminum foils.
- Made in various shapes and sizes and connected with connectors which are again shrink sleeved to the heating wires.
- Since these Heaters are flexible, they can be easily placed or pasted on any surface.



Anti Condensation Wire Heaters

- Made out of resistance wired wound on silicon core insulated with PVC sleeve and connected by means of connectors which are again shrink sleeved to the heating wires.
- Since these Heaters are flexible, they can be easily placed or pasted on any surface.

Specifications

Fitment: Moulded or shrink sleeve terminal ends

Wattage: As per customers Specs

Voltage: As per customers Specs

Applications: Domestic, Industrial and Commercial refrigerators, Cold Storage, Freeze protection in Heat Exchangers, maintaining temperature in Food Counters, door and wall anti condensation

CNG & LPG Vaporiser Heaters

LPG Gas Vaporizer Elements -are made out of Copper tube duly Nickel plated and supplied with 2 1/2" or 3" Reverse (Double threaded) Flange, Washer and Check Nut.

Flameproof terminal box are also available with these heaters. Available in 3 KW, 6KW, 9KW, 12 KW, 15KW and 18 KW.

Suitable for LPG Gas Vaporizer.



CNG Heaters- CNG heaters are used for the purpose of metering. Customised KW available as per customers requirement

Tubing: Incoloy NES material or Inconel

Electrostatic Precipitator Heating Elements

ESP Hopper heater

Hoppers are part of ESP and are located at the bottom of ESP. The function of hopper heater is to heat the hopper so as to

- Prevents moisture to condensate from getting collected in it
- Removes fly ash from precipitator

Hopper heaters can be provided with reflector plates for efficient heating in the hopper



ESP Shaft and Insulator heaters

Shaft and Insulator heater: These heaters are provided at the shaft and insulator to maintain the temperature above dew point i.e. between 80-120 deg C. If temperature falls below the range as as above there will be a continuous tracking of electrical field over the surface of insulator which will result into damage of insulator and non availability of field for collecting the fly ash.

The above heaters come with pressure die casted IP 55 terminal box. Custom made ESP heaters can also be provided

International Range



Manufactured out of Copper/ Incoloy /Titanium Tubing and available in various wattages.

Heaters can be supplied with Thermostat pocket. Also available necessary fittings like Cables, Washers, Plastic Terminals, Ferrules etc.



Suitable for Domestic hot water tanks, Storage water heaters.

Export worthy packing or pallets available for shipping



Manufactured out of Titanium / Stainless Steel Tube / Incoloy tube and available in various wattages
Suitable for Jacuzzis, Spas, Pools etc.



Manufactured out of Stainless Steel/ High Temperature Nickel Alloy Tube and available in various wattages. Supplied with all necessary fittings like mounting brackets, clamps, rods etc.

Suitable for all Fan Heaters, Cooking Ranges and Ovens. Export worthy packing or pallets available for shipping.

Elements can also be designed as per customer specifications
Elements are available in various wattages and tubes of various grades and diameters

Global Presence and Marketing



One of the major reasons to expand and increase capacity for us has been to increase our share of exports.

We keep sufficient stocks to reduce the cycle time and our new 80,000 sq ft plant is capable of handling large volume export orders.

We also offer palletization and specific packing according to customer requirements for our export customers

Theeta currently exports to United Kingdom, Australia, Singapore, Vietnam etc.

THEETA[®]

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