



The heart of
electric appliances



ELECTRIC WATER HEATING

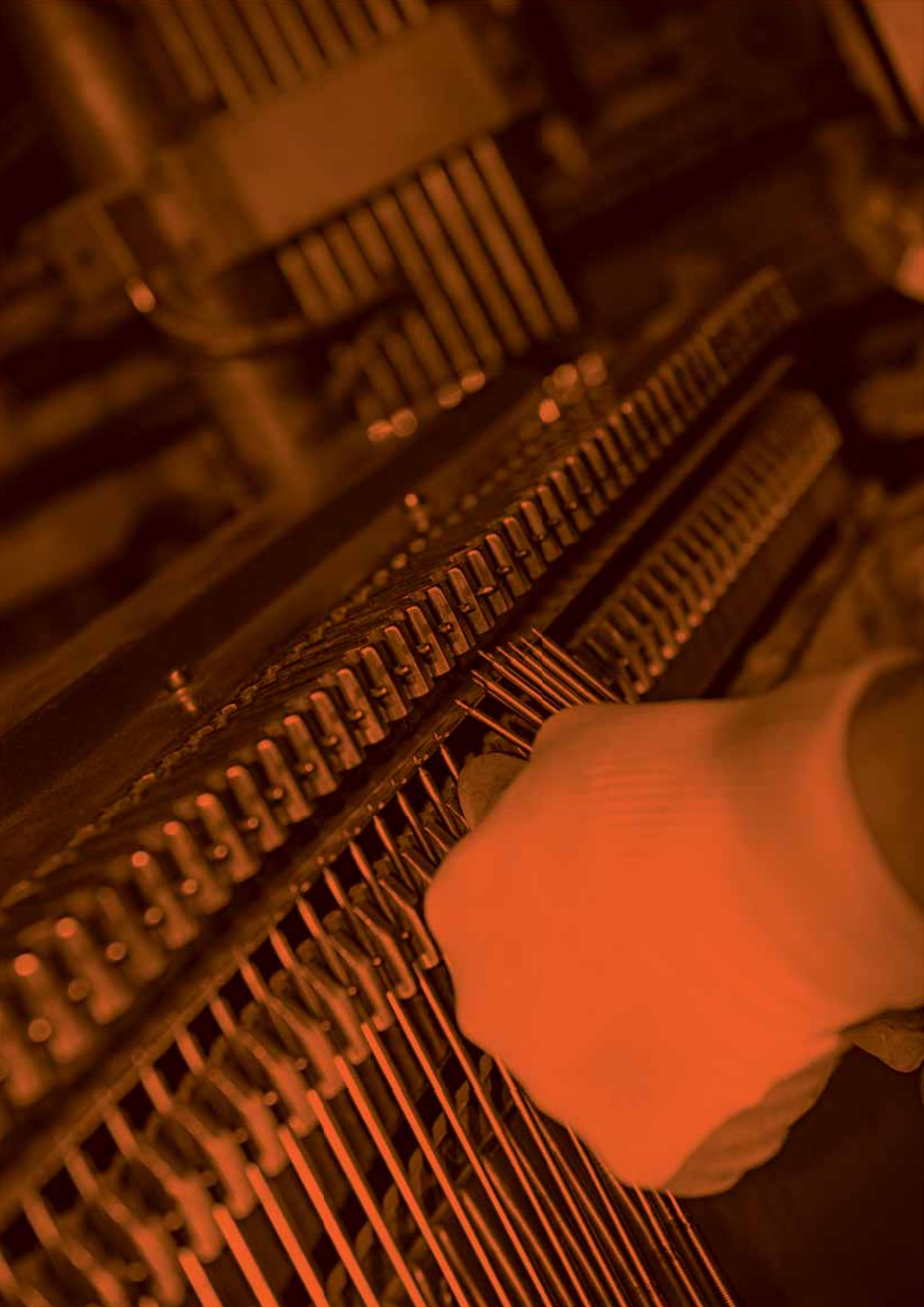




The heart of
electric appliances

MADE IN ITALY

thermowatt.com



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AN HISTORY MADE OF FLEXIBILITY AND ATTENTION TO DETAILS

Founded at the beginning of the 50s, Thermowatt continues to maintain the tradition and passion for products 100% Made in Italy, constantly innovating its production methods to satisfy and anticipate market needs.

Thermowatt is now one of the market leaders in the production of heating elements and thermostats for electric appliances for domestic and professional applications, and is among the most dynamic component manufacturing groups worldwide.

The quality of Thermowatt products and reliability of its services represent today an important foundation for more than 500 clients in more than 100 countries worldwide.

Attention to client's needs, research and development, production processes and continuous improvement are an integral part of the culture of Thermowatt employees.

The company operates from its Italian headquarters in Arcevia (head office and main production plant), Follina (DhE – Professional and Industrial applications), and its China production plant in Wuxi (production site for Asia Pacific market), with the most advanced health, safety, environmental and quality standards being followed at all sites.



ISO 9001



BS OHSAS 18001



ISO 14001



OUR PHILOSOPHY: STRIVE FOR TOTAL QUALITY

The future is reality at Thermowatt, every day. From its laboratories, where highly skilled specialists work, new products and processes are continually developed and it is these innovations which have made Thermowatt brand well known throughout the world.

The company continuously develops dedicated projects to implement precise and reliable manufacturing standards, always at the edge of the technology and able to answer to customers' daily requests.

Thermowatt works alongside its clients to offer the best supply chain solutions and developing tailor made products, which inspire innovative ideas to cope with changing market conditions.

For Thermowatt quality goes beyond the product. This represents a total approach for the company applied to the entire process: from design and manufacturing to raw material selection, homologation testing, in line checks and statistic tests to after sales support.



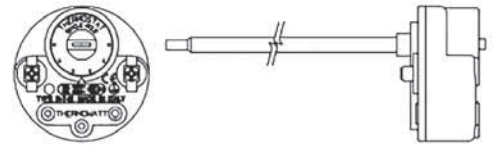
THERMOSTATS





RTM

STEM SINGLE POLE THERMOSTAT



MAIN FEATURES

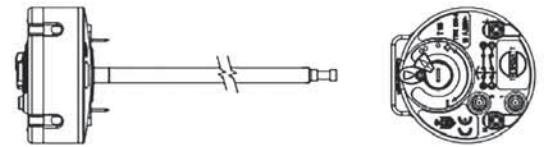
- \ Quick & easy through plug-in system perfectly fit with Thermowatt heating elements
- \ Reduced mounting and wiring costs
- \ Adjustable functional temperature

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	-
Safety reset	-
Max ambient operating temperature	T 105°C
Rated Current / Voltage	20A / 250V AC; 10A 400V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	-
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 \pm 4 °C
Standard stem lenght	280mm
Stem lenght on request	220mm; 350mm; 450mm (custom solutions available)
Electrical connection	Quick faston connection 6,3x1,0mm
Assembly	-
External regulation	Available
Notes	Thermostat designed for an easy & quick matching with our flange or screw type heating elements



RTS

STEM SINGLE POLE THERMOSTAT
WITH DUAL POLE SAFETY CUT-OUT



MAIN FEATURES

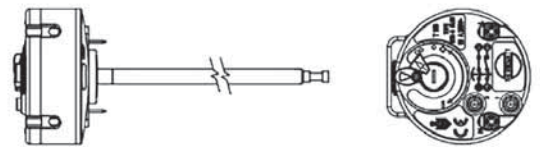
- \ Quick & easy through plug-in system perfectly fit with Thermowatt heating elements
- \ Bi-polar safety cut-out with bimetallic disk
- \ Reduced mounting and wiring costs

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	Bi-polar with bimetalic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Rated Current / Voltage	16A / 250V AC; 20A 250V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ± 4 °C
Standard stem lenght	280mm
Stem lenght on request	220mm; 350mm; 450mm (custom solutions available)
Electrical connection	Quick faston connection 6,3x1,0mm
Assembly	-
External regulation	Available
Notes	Thermostat designed for an easy & quick matching with our flange or screw type heating elements



RTS PLUS

STEM SINGLE POLE THERMOSTAT
WITH DOUBLE BI-POLAR SAFETY CUT-OUT DEVICE



MAIN FEATURES

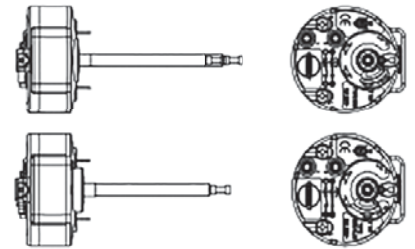
- \ Quick & easy through plug-in system perfectly fit with Thermowatt heating elements
- \ Patented Bipolar Double Safety device with increased thermal sensibility
- \ Reduced mounting and wiring costs

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	Bipolar Double Safety device acting on the stem and on the bimetallic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Rated Current / Voltage	16A / 250V AC; 20A 250V AC
Max functional / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 \pm 4 °C
Standard stem lenght	280mm
Stem lenght on request	220mm; 350mm; 450mm (custom solutions available)
Electrical connection	Quick faston connection 6,3x0,8mm
Assembly	-
External regulation	Available
Notes	Thermostat designed for an easy & quick matching with our flange or screw-in heating elements ; Thermowatt patented solution



RTS ERP / RTS PLUS ERP

STEM SINGLE POLE THERMOSTAT
WITH DOUBLE BI-POLAR SAFETY CUT-OUT DEVICE



MAIN FEATURES

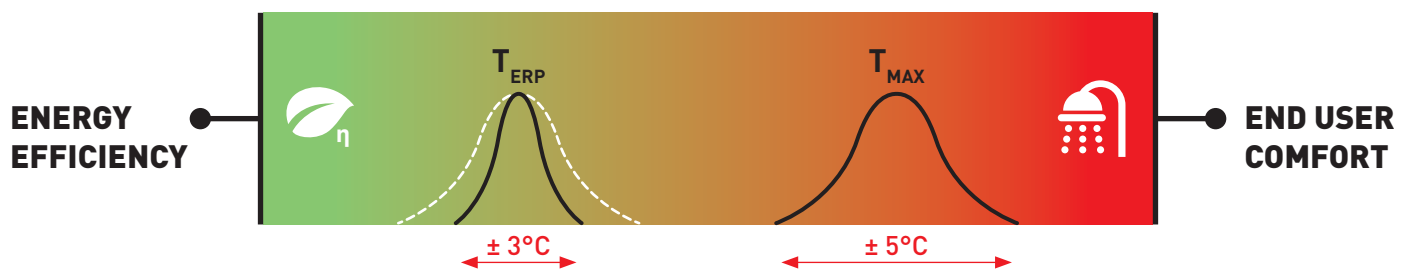
- \ Temperature lock at maximum energy efficiency (accuracy $\pm 3^{\circ}\text{C}$)
- \ Bi-polar safety cut-out with bimetallic disk (PLUS patented double safety device)
- \ Quick & easy through plug-in system perfectly fit with Thermowatt heating elements

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	Three-polar with bimetallic disk / Double safety device acting on the stem and on the bimetallic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Rated Current / Voltage	16A / 250V AC; 20A 250V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / $\pm 3^{\circ}\text{C}$
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 $\pm 4^{\circ}\text{C}$
Standard stem lenght	280mm
Stem lenght on request	220mm; 350mm; 450mm (custom solutions available)
Electrical connection	Quick faston connection 6,3x0,8mm
Assembly	-
External regulation	Available
Notes	Thermostat designed for an easy & quick matching with our flange or screw type heating elements ; Thermowatt patented solution

RTS ERP / RTS PLUS ERP

INCREASED ACCURACY FOR MAXIMUM PERFORMANCES

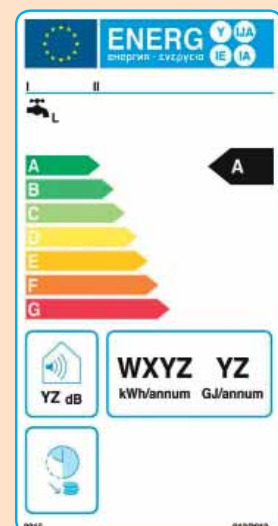
- \ Increased accuracy at $\pm 3^{\circ}\text{C}$ to guarantee the maximum performance of the water heater
- \ Possibility to lock the functional temperature set at the most energy efficient value (T_{ERP})
- \ Increase of energy efficiency performances of the water heater without any design modification and homologation costs (T_{MAX} unchanged).

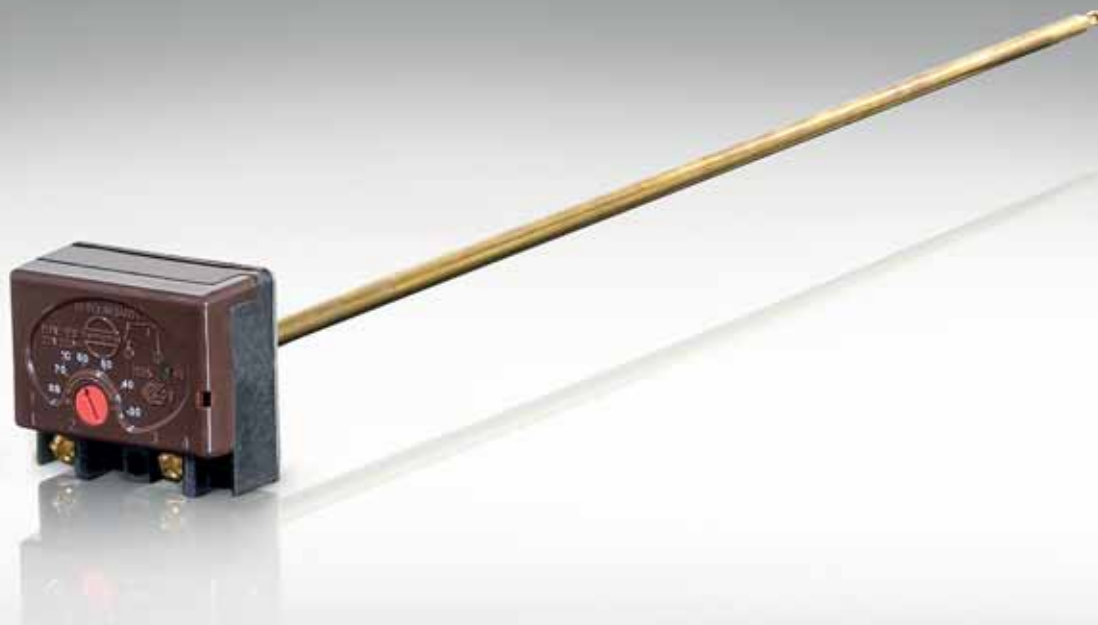


UNIQUE EXPERTISE AND TESTING CAPABILITIES

As energy saving regulations evolve, Thermowatt is alongside its Clients for the whole product development process: from the selection and definition of the right components to the test and certification phase.

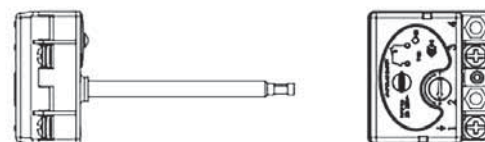
- \ Definition of optimal setting temperature
- \ Energy Class verification.





TES

STEM SINGLE POLE THERMOSTAT



MAIN FEATURES

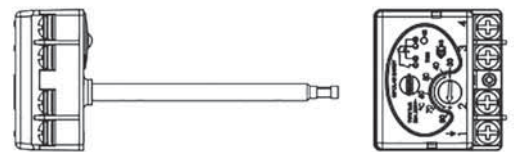
- \ Easy cabling with any Thermowatt heating elements (including stick heating elements)
- \ Reduced mounting and wiring costs
- \ Adjustable functional temperature

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	
Safety reset	
Max ambient operating temperature	T 105°C
Rated Current / Voltage	16A / 250V AC; 20A 250V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	-
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ± 4 °C
Standard stem lenght	280mm
Stem lenght on request	450mm
Electrical connection	Screw terminals, faston terminals (6,3x0,8mm) or combination of both
Assembly	Clip fixed to the stem or to the thermostat bottom
External regulation	Available
Notes	Thermostat designed for an easy cabling connection with any of our heating elements with thread connectros and dry stick heating elements



TMS

STEM SINGLE POLE THERMOSTAT
WITH DUAL POLE SAFETY CUT-OUT



MAIN FEATURES

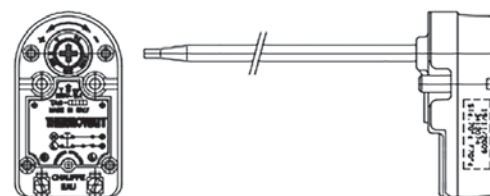
- \ Easy cabling with any of our heating elements (including stick heating elements)
- \ Bi-polar safety cut-out with bimetallic disk
- \ Adjustable functional temperature

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	Bi-polar with bimetalic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Rated Current / Voltage	16A / 250V AC; 20A 250V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ±5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ±4 °C
Standard stem lenght	280mm
Stem lenght on request	450mm
Electrical connection	Screw terminals, fast-on terminals (6,3x0,8mm) or combination of both
Assembly	Clip fixed to the stem or to the thermostat bottom
External regulation	Available
Notes	Thermostat designed for an easy cabling connection with any of our heating elements with thread connectros and dry stick heating elements



TAS

STEM SINGLE POLE THERMOSTAT
WITH DUAL POLE SAFETY CUT-OUT



MAIN FEATURES

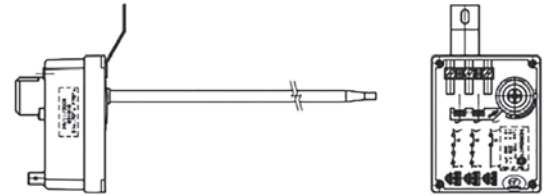
- \ Quick & easy through plug-in system perfectly fit with Thermowatt heating elements
- \ Bi-polar safety cut-out with bimetallic disk
- \ Reduced mounting and wiring costs

Thermostat type	Single-phase stem/ rod thermostat
Functional cut-off	Unipolar
Safety cut-out	Bi-polar with bimetalic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Rated Current / Voltage	15A / 250V AC; 10A 400V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ± 4 °C
Standard stem lenght	280mm
Stem lenght on request	450mm
Electrical connection	Quick faston connection 6,3x1,0mm
Assembly	-
External regulation	Available
Notes	Thermostat designed for an easy & quick matching with our flange or screw type heating elements



TAS 3-PHASES

STEM BI-POLAR THERMOSTAT
WITH THREE-POLAR SAFETY CUT-OUT



MAIN FEATURES

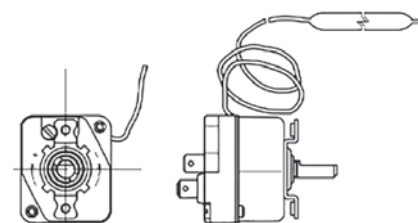
- \ Quick & easy through plug-in system with our RT and RF series heating elements
- \ Bi-polar safety cut-out with bimetallic disk
- \ Reduced mounting and wiring costs

Thermostat type	Three-phase stem/ rod thermostat
Functional cut-off	Bi-polar
Safety cut-out	Three-polar with bimetallic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Insulation Class	Class II
Rated Current / Voltage	15A / 250V AC; 10A 400V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ± 4 °C
Standard stem lenght	280mm
Stem lenght on request	450mm
Electrical connection	Quick faston connection 6,3x0,8mm
Assembly	-
Notes	Thermostat designed for an easy cabling connection with any of our heating elements with thread connectros and dry stick heating elements



TB/TBR

SINGLE POLE SINGLE THROW
CAPILLARY THERMOSTAT



MAIN FEATURES

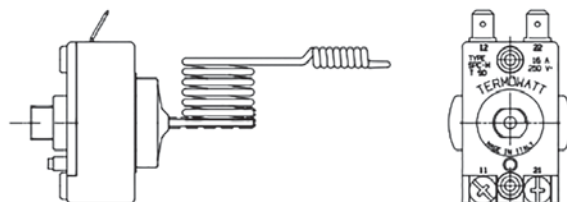
- \ Precise temperature set and quick reaction time
- \ Custom temperature ranges available
- \ Adjustable functional temperature.

Thermostat type	Capillary thermostat (liquid expansions thermostat)
Functional cut-off	Unipolar
Safety cut-out	-
Safety reset	-
Max ambient operating temperature	T 85°C
Insulation Class	Class II
Rated Current / Voltage	20A / 250V AC; 15A 400V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	-
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ± 4 °C
Functional capillary lenght	From 550mm up to 1.500mm
Safety capillary lenght	-
Capillary Diameter	1,5mm
Capillary Terminal	-
PVC tube lenght	According to Customer specification
Bulb Material	Copper or stainless Steel
Regulation Spindle height	9 - 24mm
Regulation Spindle diameter	6mm
Spiral lenght	100mm
Spiral diameter	6mm
Electrical connection	Flat or 45° connection 6,3x0,8mm
Assembly	Screwly M4



SPC

BI-POLAR SINGLE THROW CAPILLARY
SAFETY LIMITER WITH MAUAL RESET



MAIN FEATURES

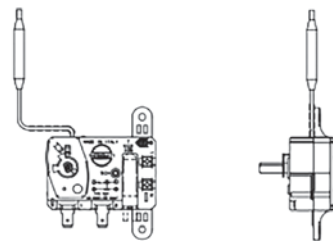
- \ Precise temperature set and quick reaction time
- \ Custom temperature ranges available
- \ Adjustable safety temperature.

Thermostat type	Capillary thermostat (liquid expansions thermostat)
Functional cut-off	-
Safety cut-out	Bi-polar with positive safety
Safety reset	Manual
Max ambient operating temperature	T 90°C
Insulation Class	Class II
Rated Current / Voltage	SPC-M: 16A / 250V AC; SPC-F: 20A 250V AC
Max functional temp / Accuracy	-
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	-
Thermal hysteresis	-
Functional capillary lenght	-
Safety capillary lenght	From 500mm up to 1.500mm
Capillary Diameter	1,8 ÷ 2,0mm
Capillary Terminal	Straight; coiled
PVC tube lenght	According to Customer specification
Bulb Material	Copper or stainless Steel
Regulation Spindle height	-
Regulation Spindle diameter	-
Spiral lenght	60,0mm
Spiral diameter	6,1mm
Electrical connection	SPC-M: Screw M4; SPC-F: flat or 45° connector 6,3x0,8mm
Assembly	Nut n19 / Safety reset protection cover provided on request



TBST

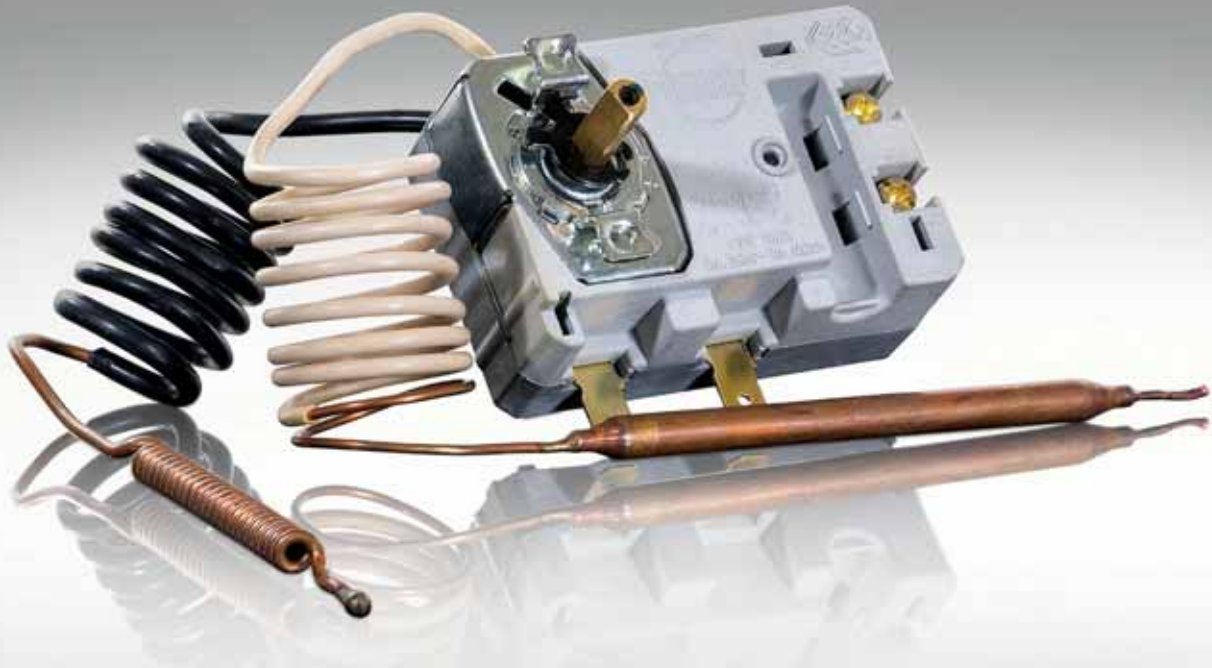
SINGLE POLE SINGLE THROW CAPILLARY WITH BI-POLAR BIMETALLIC DISK CUT-OUT AND MANUAL RESET



MAIN FEATURES

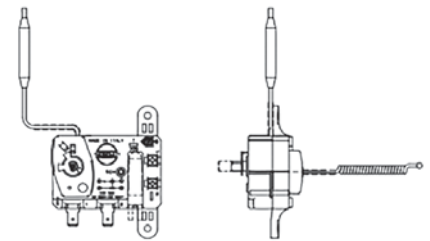
- \ Precise temperature set and quick reaction time
- \ Custom temperature ranges available
- \ Adjustable functional temperature.

Thermostat type	Capillary thermostat (liquid expansions thermostat)
Functional cut-off	Unipolar
Safety cut-out	Bi-polar with bimetallic disk
Safety reset	Manual
Max ambient operating temperature	T 105°C
Insulation Class	Class I
Rated Current / Voltage	16A / 250V AC; 20A 250V AC; 10A 400V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ±5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ±4 °C
Functional capillary lenght	From 550mm up to 1.500mm
Safety capillary lenght	From 550mm up to 1.500mm
Capillary Diameter	1,5mm
Capillary Terminal	-
PVC tube lenght	According to Customer specification
Bulb Material	-
Regulation Spindle height	5 - 13mm
Regulation Spindle diameter	6mm
Spiral lenght	100mm
Spiral diameter	6mm
Electrical connection	Flat or 45° connection 6,3x0,8mm, Screw M4
Assembly	Screw



TBSB

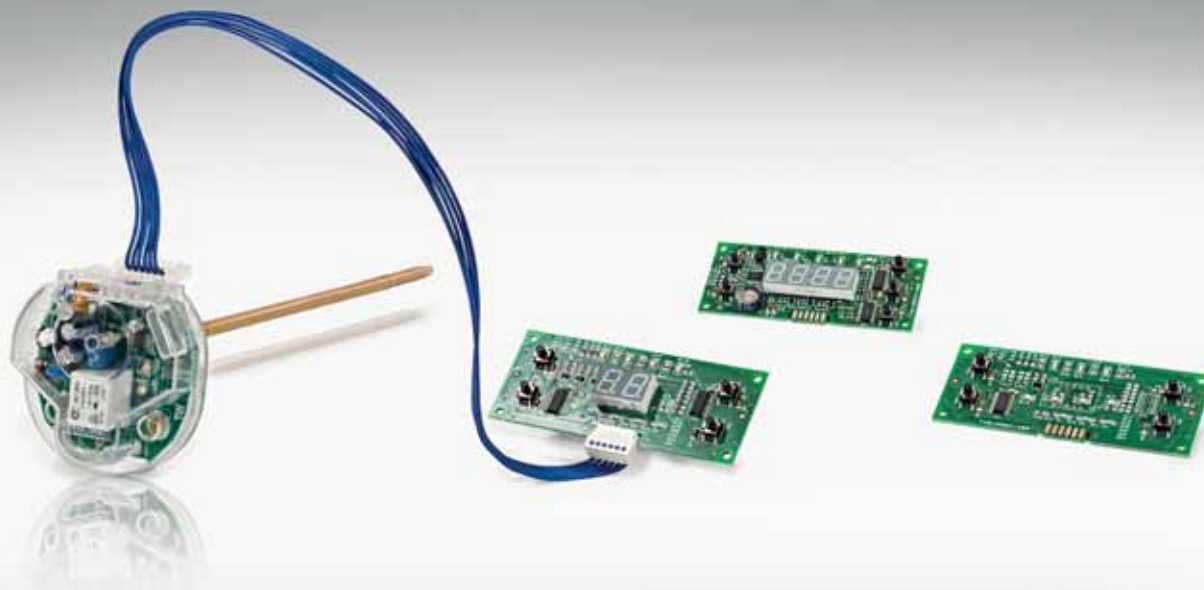
SINGLE POLE SINGLE THROW CAPILLARY THERMOSTAT WITH BI-POLAR BULB CUT-OUT AND MANUAL RESET



MAIN FEATURES

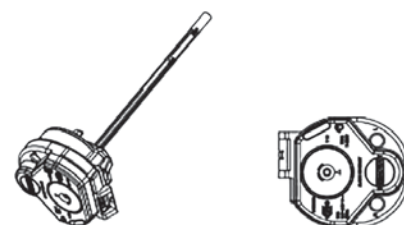
- \ Precise temperature set and quick reaction time
- \ Custom temperature ranges available
- \ Adjustable functional temperature.

Thermostat type	Capillary thermostat (liquid expansions thermostat)
Functional cut-off	Unipolar
Safety cut-out	Bi-polar bulb cut-out
Safety reset	Manual
Max ambient operating temperature	T 105°C
Insulation Class	Class I
Rated Current / Voltage	16A / 250V AC; 20A 250V AC; 10A 400V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 5 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 20°C to Max
Thermal hysteresis	8 ± 4 °C
Functional capillary lenght	From 550mm up to 1.500mm
Safety capillary lenght	From 550mm up to 1.500mm
Capillary Diameter	1,8 - 2,0mm
Capillary Terminal	Straight; coiled
PVC tube lenght	According to Customer specification
Bulb Material	Copper or stainless Steel
Regulation Spindle height	5 - 13mm
Regulation Spindle diameter	6mm
Spiral lenght	100mm
Spiral diameter	6mm
Electrical connection	Flat or 45° connection 6,3x0,8mm, Screw M4
Assembly	Screw



TMEC

MECHATRONIC THERMOSTAT FOR WATER HEATERS WITH ELECTRONIC FUNCTIONAL CUT-OFF AND MECHANICAL SAFETY CUT-OUT



MAIN FEATURES

- \ SMART function available (ERP compliant)
- \ Reliable mechanical safety cut-out
- \ Easy, plug-in connection with same dimension of traditional stem thermostat

Thermostat type	Single pole stem/ rod Mechatronic thermostat
Functional cut-off	Unipolar
Safety cut-out	Bi-polar patented safety device acting on the stem
Safety reset	Manual
Max ambient operating temperature	T 70°C
Rated Current / Voltage	15A / 127 - 240V AC
Max functional temp / Accuracy	According to Customer specification (Max 90°C) / ± 2 °C
Max safety temp	According to Customer specification (Max 120°C)
Temperature selection range	From 10°C to Max
Thermal hysteresis	8 ± 2 °C
Standard stem lenght	280mm
Stem lenght on request	300mm - 450mm (custom solutions available)
Electrical connection	Quick faston connection 6,3x1,0mm
External regulation	Mechanical or with HMI

TMEC

FLEXIBILITY AND RELIABILITY

- \ Electronic functional set to allow maximum flexibility of use
- \ Mechanical cut-out to guarantee best in class safety
- \ Thermowatt Smart Control ensure enhanced energy efficiency performances in accordance to most recent ErP regulations.



THERMOWATT SMART CONTROL



ADVANCED PROGRAMMABLE FUNCTIONS

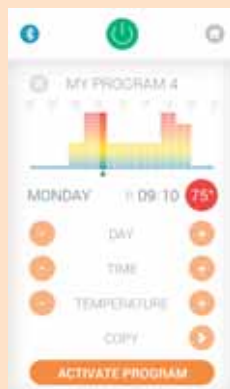


CONNECTIVITY

DESIGNED ON YOUR NEEDS

TMEC has been designed to combine the flexibility of electronics with the solidity of a mechanical safety. All around, a unique variety of customizable solutions.

- \ Customizable physical interfaces
- \ Connectivity and smartphone App
- \ Tailor made electronic solutions on request.



KNOB



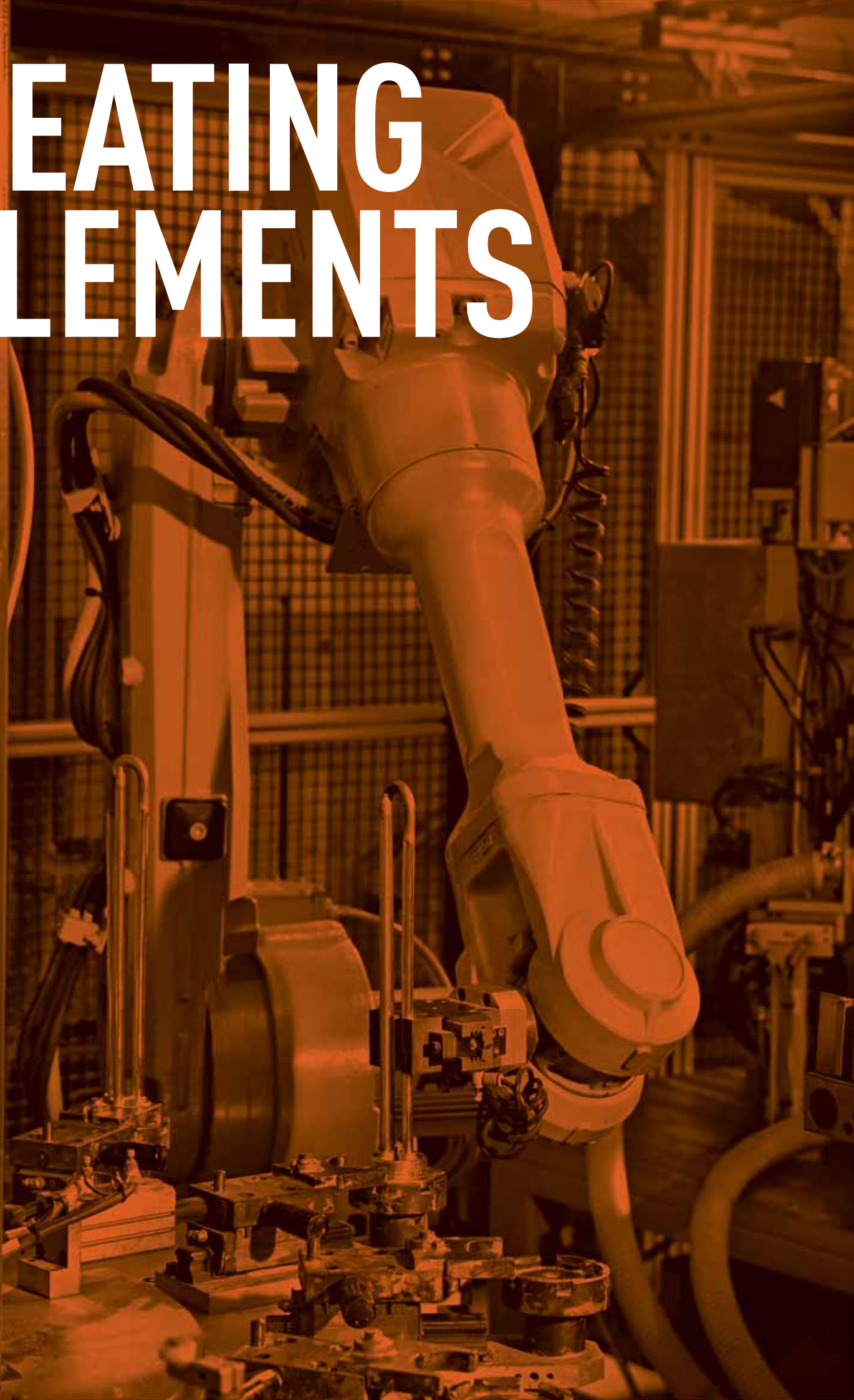
BARS



2 OR 4 DIGITS



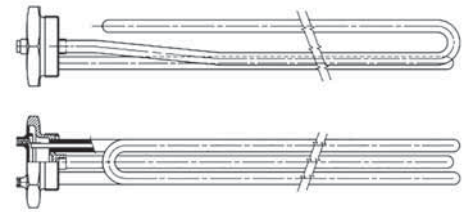
HEATING ELEMENTS





COPPER SCREW TYPE

COPPER HEATING ELEMENTS WITH THREADED FLANGE FOR SCREW ASSEMBLY



MAIN FEATURES

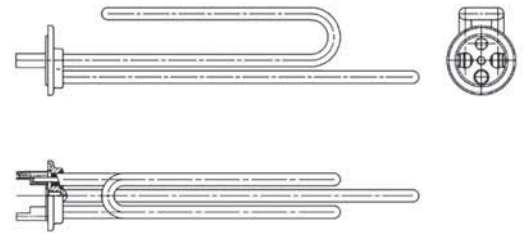
- \ Easy and quick connection with Thermowatt thermostats
- \ Sacrificial anode installation nut provided on request
- \ Different shapes available

Head type	Threaded flange
Head material	Brass
Head dimension	1" 1/4; 1" 1/2; 1" 3/4; 2"; 2" 1/4
Element Diameter	6,25mm; 8,5mm
Nominal power	According to Customer specification
Rated voltage	110; 127; 220; 230; 240V single phase; 400V 3-phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	Up to 3
Thermostat pocket Material	Copper or Stainless Steel
Thermostat pocket Diameter	Ø 8mm or Ø 10mm
Thermostat pocket Length	According to Customer specification
Surface load	Up to 25 W/cm ²
Electrical connection	Female faston connection (different connection available on request)
Sacrificial anode installation nut	Available on request. MG nut in lateral or central position
Notes	Designed for easy and quick connection with our thermostats RTM; RTS; RTS PLUS; RST; TAS; TMEC



COPPER FLANGE TYPE

COPPER HEATING ELEMENTS WITH FLANGE



MAIN FEATURES

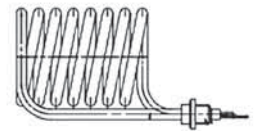
- \ Easy and quick connection with Thermowatt thermostats
- \ Sacrificial anode installation nut provided on request
- \ Different shapes available

Head type	Flange
Head material	Brass
Head dimension	Ø 48mm
Element Diameter	6,25mm; 8,5mm
Nominal power	According to Customer specification
Rated voltage	110; 127; 220; 230; 240V single phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	1
Thermostat pocket Material	Copper or Stainless Steel
Thermostat pocket Diameter	Ø 8mm or Ø 10mm
Thermostat pocket Length	According to Customer specification
Surface load	Up to 25 W/cm ²
Electrical connection	Female faston connection (different connection available on request)
Sacrificial anode installation nut	Available on request M5, M6 and M8 nut
Notes	Designed for easy and quick connection with our thermostats RTM; RTS; RTS-PLUS; RST; TAS; T-MEC



INSTANT WATER HEATERS

HEATING ELEMENTS FOR INSTANTANEOUS WATER HEATERS



MAIN FEATURES

- \ Easy and quick connection with Thermowatt thermostats
- \ Different shapes available
- \ Custom solutions on request

Head type	Flange
Head material	Copper; stainless steel; brass
Head dimension	According to Customer specification
Element Diameter	6,25mm; 8,5mm
Nominal power	According to Customer specification
Rated voltage	110; 127; 220; 230; 240V single phase; 400V 3-phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	1
Thermostat pocket Material	Copper / Stainless Steel / Alloy / Titanium
Thermostat pocket Diameter	Ø 8mm or Ø 10mm
Thermostat pocket Length	According to Customer specification
Surface load	Up to 25 W/cm ²
Electrical connection	According to Customer specification
Sacrificial anode installation nut	-
Notes	Designed for easy and quick connection with our thermostats RTS, RTS-PLUS and with our capillary thermostats:TBR; TBST; TBSB



DRY STICK

DRY STICK HEATING ELEMENTS DESIGNED FOR EASY MAINTANENCE DRY HEATING



MAIN FEATURES

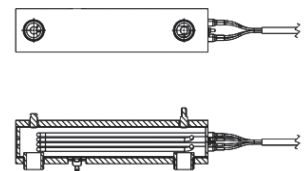
- \ Easy and quick cabling with Thermowatt thermostats.
- \ Sacrificial anode installation nut provided on request
- \ Custom solutions on request

Head type	Stick - Male Connectors
Head material	-
Head dimension	-
Element Diameter	12,5mm
Nominal power	Up to 1500W
Rated voltage	230V single phase
Shape and Dimension	According to Customer specification
Thermostat pocket Diameter	n/a
Thermostat pocket Lenght	n/a
Surface load	Up to 9 W/cm ²
Electrical connection	Faston / Screw / Flat connection
Sacrificial anode installation nut	No
Notes	Designed for easy and quick connection with our thermostats TMS; TES and with our capillary thermostats:TBR; TBST; TBSB



FLOW HEATERS

BACK-UP ELECTRIC HEATING ELEMENT
FOR WATER AND SPACE HEATING SYSTEMS



MAIN FEATURES

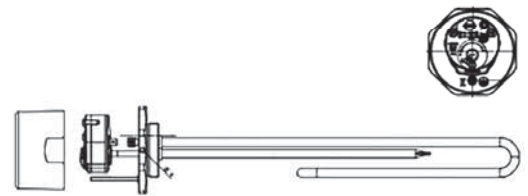
- \ Usable in both space and water heating systems
- \ Can be provided capillary thermostat
- \ Reliability guarantee by the sector specialist

Head type	-
Head material	Stainless steel / Copper
Head dimension	-
Element Diameter	6,25mm; 8,5mm
Nominal power	According to Customer specification
Rated voltage	110; 127; 220; 230; 240V single phase; 400V 3-phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	Up to 3
Thermostat pocket Material	Copper or Stainless Steel
Thermostat pocket Diameter	Ø 8mm or Ø 10mm
Thermostat pocket Length	According to Customer specification
Surface load	Up to 25 W/cm ²
Electrical connection	According to Customer specification
Sacrificial anode installation nut	-



IMMERSION HEATER

IMMERSION HEATER
FOR DOMESTIC VENTED/ UNVENTED CYLINDERS



MAIN FEATURES

- \ Bi-polar safety cut-out thermostat for maximum protection
- \ All materials available
- \ BEAB Approved

Head type	Thread type
Head material	Brass
Head dimension	1" 3/4; 2" 1/4
Element Material	Copper / Stainless Steel / Alloy 800 or 825 / Titanium
Element Diameter	6,25mm; 8,5mm
Nominal power	Standard 3KW (Custom up to 4,5KW)
Rated voltage	230; 240V single phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	1
Thermostat pocket Material	Copper / Stainless Steel / Alloy 800 or 825
Thermostat pocket Diameter	Ø 8mm or Ø 10mm
Thermostat pocket Length	According to Customer specification
Surface load	Up to 25 W/cm ²
Electrical connection	According to Customer specification
Sacrificial anode installation nut	Available on request
Immersed Length	9"; 11"; 16"; 27" (custom solutions available)
Thermostat type	RTS; RTS-PLUS

IMMERSION HEATER

FULL RANGE, BORN INTEGRATED

- \ Fully integrated design (thermostat and heating element)
- \ All materials available (copper, stainless steel alloys and Titanium)
- \ Patented solution for best brazing performances for all materials.

ITek Brazing®



ONE STANDARD, MANY APPLICATIONS

Thermowatt wide offer ensure the possibility to fit any market request, from the most popular standards to custom applications. Our patented solution for Titanium elements allows Thermowatt to provide unrivalled products to our Clients.

- \ Vented and unvented cylinders
- \ Heat pumps
- \ Solar applications.

TITANIUM



SST



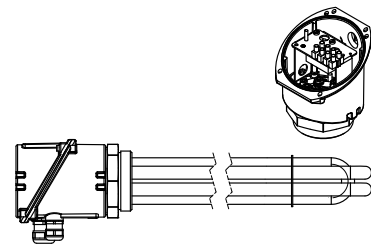
COPPER





HIGH POWER IMMERSION HEATER

HIGH POWER HEATING ELEMENT
WITH PROTECTION CASING



MAIN FEATURES

- \ Suitable for heavy duty applications
- \ Ideal for industrial fluid heating
- \ Different sheat diameters available

Head type	Thread type / Flange
Head material	Brass / Stainless steel
Head dimension	1" 1/2, 2", 2" 1/4, 2" 1/2
Element Material	Copper / Stainless Steel / Alloy 800 or 825 / Titanium
Element Diameter	6,25mm to 16mm
Nominal power	From 1KW to 10KW or more
Rated voltage	230-240V single phase; 400 three phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	Up to 3
Thermostat pocket Material	Stainless Steel
Thermostat pocket Diameter	From Ø 8mm to Ø 16mm
Thermostat pocket Lenght	According to Customer specification
Surface load	Up to 9W/cm ²
Electrical connection	According to Customer specification
Sacrificial anode installation nut	-
Immersed Lenght	From 250mm to 750mm
Thermostat	RTS; RTS-PLUS

HIGH POWER IMMERSION HEATER

WHEN ADDITIONAL POWER IS NEEDED

- \ High power heating element (from 1kW to 10kW and more)
- \ Three phase and special connections available
- \ Thermostat with safety included (optional).



EXPLOSION PROOF CERTIFIED

Thanks to its sister company DhE, Thermowatt is able to provide Explosion Proof certified products, essential in many industrial and special applications.

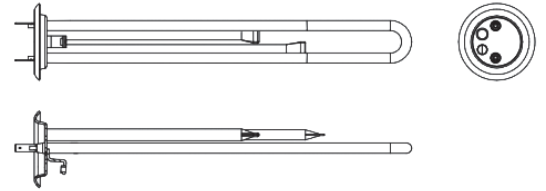
- \ Hazardous Area
- \ Flammable dust.





SPECIAL H.E.

TAILOR MADE SOLUTIONS
FOR ANY APPLICATION



MAIN FEATURES

- \ Easy and quick cabling with Thermowatt thermostats.
- \ Sacrificial anode installation nut provided on request
- \ Custom solutions on request

Head type	Flange
Head material	Brass, stainless steel, copper, titanium
Head dimension	According to Customer specification
Element Diameter	From 6,25mm to 16mm
Nominal power	According to Customer specification
Rated voltage	110-240V single phase; 400V 3-phase
Shape and Dimension	According to Customer specification
Number of elements over one flange	According to Customer specification
Thermostat pocket Material	Copper or Stainless Steel
Thermostat pocket Diameter	From Ø 8mm to Ø 16mm
Thermostat pocket Length	According to Customer specification
Surface load	Up to 25 W/cm ²
Electrical connection	According to Customer specification
Sacrificial anode installation nut	According to Customer specification
Notes	Designed for easy and quick connection with Thermowatt thermostats

SPECIAL H.E.

SPECIAL SOLUTIONS FOR SPECIAL APPLICATIONS

- \ Tailor made projects based on customer's needs
- \ Special flanges and materials
- \ Multielement and special connections.



ONE STANDARD, MANY APPLICATIONS

Thermowatt longstanding market coverage and wide range of products, also outside the water heating sector, allows the company to propose to its Client the best solution for any application.

- \ Maintenance free applications
- \ Nonstandard finishing
- \ Country specific regulations.

COUNTRY STANDARD	APPLICATION	SHAPE	SHEET MATERIAL	FLANGE TYPE
EUROPE	STORAGE	HORIZONTAL	COPPER	BRASS FLANGE
US	INSTANTANEOUS		STAINLES STEEL	SST FLANGE
APAC	COMMERCIAL	VERTICAL	SST ENAMELED	NUTS
SPECIFIC COUNTRIES	HEAT PUMPS		ALLOY	THREAD
	SOLAR	CUSTOM	TITANIUM	

ACCESSORIES





ANODES

Material	Magnesium
Diameter	16 - 25,5mm
Length	According to customer specifications
Type	M4; M5; M6; M8



GASKET

Material	E.P.D.M or N.B.R
Type	Flange or screw-in heating elements
Dimensions	Flange heating elements: Ø 45mm; Screw-in heating elements: 1' 1/4"; 1' 1/2"; 1' 3/4"; 2' 1/4"



SAFETY VALVES

Head dimension	1/2" or 3/4"
Bar	From 6 to 8,7
Lever	Available models provided with lever



THERMOMETERS

Type	Circular or Rectangular
Frame design	Colour or numerical temperature scale
Frame colour	According to Customer specifications



Thermowatt Spa



via S. Giovanni Battista, 21
60011 Arcevia (AN) - Italy

tel. +39 0731 9881
fax +39 0731 988267

info@thermowatt.com
thermowatt.com