

ELECTRIC HEATING ELEMENT

BREM uses PTC electric heating element. PTC means "Positive Temperature Coefficient" and characterizes the electrical behaviour of the semiconductor heater segment: with increasing temperature the resistance of the PTC element rises instantaneously and reduces automatically the power output generating the so called "self-limiting" effect.

1200W and 1500W electric heating elements work using constant power and are equipped with thermal limiter that stops the emission of heat.

The class II PTC heating up process will automatically go through three phases:

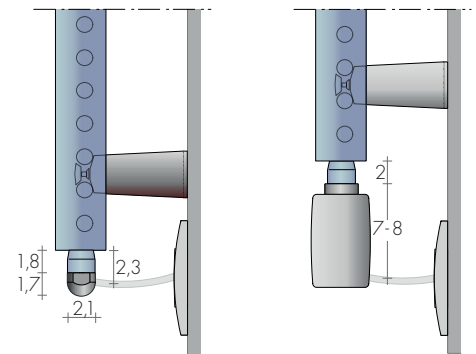
- Start-up. In the first 60 sec the PTC works at 130% circa of the nominal power ("turbo boost power" effect) to trigger best the convection inside the radiator;
- Nominal power phase. In this phase the PTC heating elements reaches the equilibrium temperature working at the nominal power;
- Energy saving phase. With the increasing of the ambient temperature the power output decreases until a new equilibrium is reached where the power consumption is reduced (typically at 70% - 80% of the nominal power).

The PTC electric heating elements (CE marked) have the following advantages:

- Intrinsic safety (no risk of overheating, burnings or fire)
- No need of thermofuse and therefore no more burnt heaters also in case of partial filling
- Reduced diameter and length vs constant power heaters (in particular 11 mm diameter also for class II elements)
- No cold lengths (differently from constant power heaters which require not heating zones for the thermostat and the thermofuse)
- Better circulation and faster heat-up times
- Absolutely no noise due to cavitation effects
- Better duration thanks to the reduction of the PTC on/off phases.

ELECTRIC RESISTANCE R...II WITH CABLE, in stainless steel with special 3/8" connection and 1.5 m long cable to be connected to the electrical system. The terminal part can be rotated $\pm 90^\circ$ to allow the electric cable to be directed directly towards the wall or to the side, where it connects better to the electrical socket (3/8" to 1/2" adapter included)

ELECTRIC RESISTANCE R...IIF WITH FASTON in stainless steel with 1/2" connection, without cable, is equipped with faston connectors for connecting the thermostat.



E.H.E. CLASS II

power absorbed	average consumption	ø 3/8" with cable	ø 1/2" with faston	PRICE
R.E. 250W	~0,19 KWH	Art. R250II	Art. R250IIF	101,10€
R.E. 300W	~0,225 KWH	Art. R300II	Art. R300IIF	102,20€
R.E. 400W	~0,30 KWH	Art. R400II	Art. R400IIF	103,40€
R.E. 500W	~0,375 KWH	Art. R500II	Art. R500IIF	105,60€
R.E. 650W	~0,49 KWH	Art. R650II	Art. R650IIF	107,80€
R.E. 800W	~0,60 KWH	Art. R800II	Art. R800IIF	112,60€
R.E. 900W	~0,675 KWH	Art. R900II	Art. R900IIF	116,20€
R.E. *1200W	~0,90 KWH	Art. R1200II	Art. R1200IIF	124,50€
R.E. *1500W	~1,125 KWH	Art. R1500II	Art. R1500IIF	135,40€

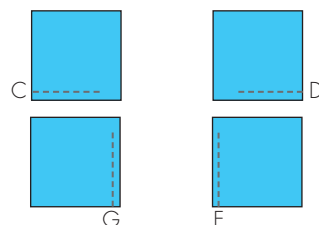
*Electric Heating Element working with constant power e.g. Average consumption 0,46/0,52 KWH (average 0,49KWH) per hour with 650W electric heater x cost of KWH in the bill



E.H.E. Cable Cover

Sleeve 3/8" Art. CCRE38 73,40€
Sleeve 1/2" Art. CCRE12 73,40€

The EU 2015/1188 ECodesign standard provides that electric towel heaters and radiators, in order to save energy, work with devices equipped with weekly programming, electronic temperature control and open window detector.



Electric Heating Element POSITION
 C Horizontal E.H.E. (on request in D)
 G Vertical E.H.E. (on request in E)
 To verify for each model

WARNINGS

TOWEL HEATERS WITH CLASS II ELECTRIC HEATING ELEMENT CAN BE INSTALLED INSIDE SPACE 2, WITH CABLE INSIDE SPACE 3



MIXED TOWEL HEATERS & RADIATORS

ARTICLES FOR MIXED VERSIONS

By applying an electric resistance to the Brem towel warmers, they heat the rooms in the intermediate seasons when the centralized system is off (hydraulic and electric operation).

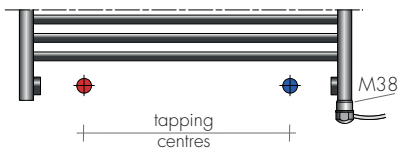
The application of the electric heating element is thanks to:

- \varnothing 3/8" special sleeve welded on the return tube
- or \varnothing 1/2" sleeve for digital thermostat
- chrome plated TR accessory mounted on the return tube
- using the mixed valve for the connection

Art. M38	24,00€
Art. M12	24,00€
Art. TR	24,00€

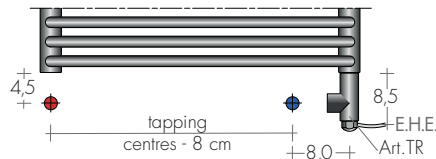
MIXED VERSIONS with SLEEVE

Put the \varnothing 3/8" or \varnothing 1/2" sleeve for the electric heating element on the return manifold



MIXED VERSIONS with TR Accessory

The tapping centres are reduced by 8 cm



LAME Mixed versions

MIXED VERSIONS WITH MIXED VALVES

BREM offers a side control valve, complete with a \varnothing 1/2" fitting for the electrical heating element, to be installed on the right manifold of the return.

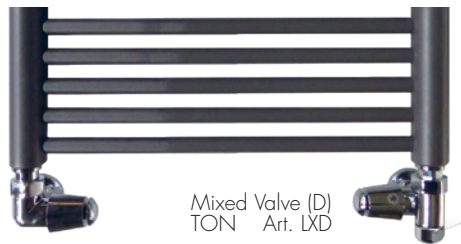
Using the mixed valve results in an increase in depth from the wall of 2cm.



UNI PLATT Mixed Quadra valve with thermostat

VALVES TON CHROME MIXED

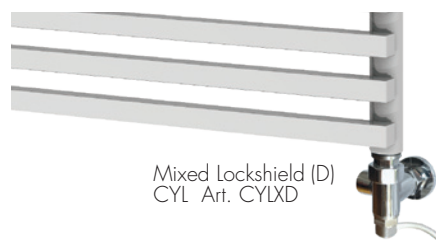
TON side control, with fitting and round washer	Art.	multilayer	copper
side control (S) delivery	LS..	65,90	63,60
TON side control MIXED (D)	LXD..	103,70	101,30
KIT TON MIXED	KLXD	188,20	



Mixed Valve (D)
TON Art. LXD

VALVE CYL CHROME MIXED LOCKSHIELD

CYL side control, with fitting and round washer	Art.	multilayer	copper
side control (S) (delivery)	CLS..	85,30	82,90
CYL lockshield MIXED (D)	CYLXD	98,20	95,80
KIT CYL MIXED	KCLXD	202,10	



Mixed Lockshield (D)
CYL Art. CYLXD



START Mixed version

VALVE QUADRA CHROME MIXED

QUADRA side control, with fitting and round washer	Art.	multilayer	copper
side control (S) (delivery)	QLS..	86,40	84,00
QUADRA MIXED (D)	QLXD..	112,00	109,80
KIT QUADRA MIXTE	KQLX	220,30	



Mixed Valve (D)
QUADRA Art. QLXD



UNI PLATT Mixed Quadra valve

THE RESISTANCE MUST WORK CONNECTED TO A THERMOSTAT
compliant with ECODESIGN STANDARDS (pages 208-209)

KIT RE and Wi-Fi THERMOSTATS

RE KIT ELECTRIC HEATING ELEMENT with CABLE

- RE KIT with:
- Class II Electric Heating Element $\varnothing 1/2"$ with adjustable cable ($\pm 90^\circ$)
 - Filling with diathermic liquid and test
 - Chrome-plated plugs and brackets for wall fixing

KIT RE	d.II with Electric Heating Element	250W	Art.	R250IIE	191,90€
KIT RE	d.II with Electric Heating Element	300W	Art.	R300IIE	193,80€
KIT RE	d.II with Electric Heating Element	400W	Art.	R400IIE	195,70€
KIT RE	d.II with Electric Heating Element	500W	Art.	R500IIE	208,50€
KIT RE	d.II with Electric Heating Element	650W	Art.	R650IIE	222,90€
KIT RE	d.II with Electric Heating Element	800W	Art.	R800IIE	240,50€
KIT RE	d.II with Electric Heating Element	900W	Art.	R900IIE	255,30€
KIT RE*	d.II with Electric Heating Element	1200W	Art.	R1200IIE	276,30€
KIT RE*	d.II with Electric Heating Element	1500W	Art.	R1500IIE	298,00€

*Electric heating element working with constant power



E.H.E. Cable Cover
Sleeve 3/8" Art. CCRE38 73,40€
Sleeve 1/2" Art. CCRE12 73,40€

THE HEATER MUST WORK CONNECTED TO A THERMOSTATIC CONTROL

KIT RT-WIFI

TR-WIFI is a wifi system with a single-zone thermostat, gateway and receiver that allows you to turn on, turn off and program up to 6 electric towel warmers directly or via wifi with the free dedicated App.

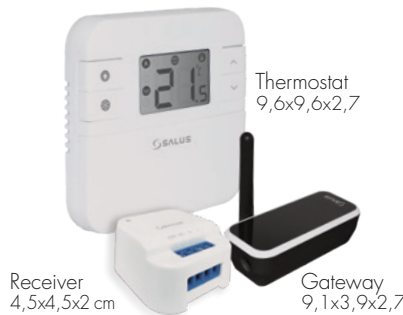
The RTWIFI Kit includes:

- Thermostat (battery operated)
- Built-in receiver
- Gateway Art. KITRT-wifi 199,80€

Additional receiver for electric radiators and split AC: 1 for each electrical radiator (up to 6) Art. SA868 64,20€

THERMOSTATS WiFi

compiants with ECODESIGN standards



FREE APP
SALUS RT310i

FEATURES

- Switching volt free and 230V
- Optional control via Smartphone, Tablet or PC
- Easy to use App
- Pre-paired wireless communication, so no more dip switches!
- Wall or desk mounted thermostat
- Choose to use schedule or control manually
- Adjustable frost protection when the thermostat is off
- Wireless communication test function
- Suitable for heating or cooling applications

OPTIONAL

On wall box for receiver

Art. SUNI 19,90€ 8,4 x 8,4 x 2,8 cm



RT-WIFI PROGRAMS

- Daily program for the entire week (every day is the same)
- Program for weekdays and weekends (5/2)
- Daily program (every day is different)
- Vacation Mode Program stops the system, to resume the set program.

5 Year Warranty

KIT ELY-WIFI TOP DESIGN

KIT ELY-WIFI is a wifi system with a single-zone thermostat advanced area for heating and cooling systems that allows you to manage the climate of your home with ease and comfort; controls up to 16 electric radiators.

Art. KITELY-wifi 396,10€

KIT ELY TOP Design includes:

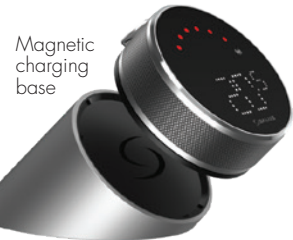
- Thermostat with magnetic charging base and magnetic plate for wall mounting
- Rechargeable Li-ion battery with wireless recharging.
- Gateway a 230V
- Receiver (Relay)

Additional receiver for electric radiators and (split AC): 1 for each electrical device (up to 16) Art. SA600 99,10€



KIT ELY TOP DESIGN WIFI

Modern design with a metallic ring and negative display. WiFi setup via Bluetooth. Controls heating and cooling via app or locally. Energy optimisation features. Zigbee 2.4 GHz communication.



App: Salus Premium Lite

GOOGLE Assistance

COMPATIBLE with: alexa



KIT RT and THERMOSTATS ON THE RADIATOR

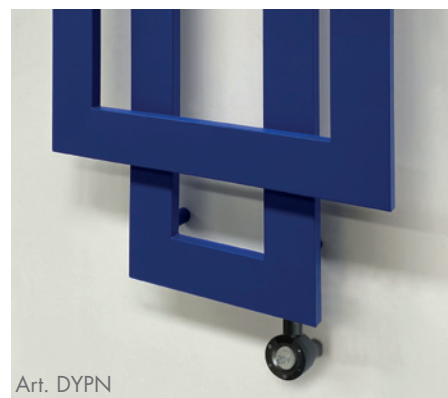
RT KIT ELECTRIC HEATING ELEMENT with FASTON

- RT KIT with:
- Class II Electric Heating Element (double protection) $\varnothing 1/2"$ with Faston
 - Filling with diathermic liquid and test
 - Chrome-plated plugs and brackets for wall fixing

KIT RT	cl.II with Electric Heating Element	250W	Art.	R250IIT	191,90€
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*Electric heating element working with constant power

THE HEATER MUST WORK CONNECTED TO A THERMOSTATIC CONTROL



Art. DYPN

THERMOSTATS on the RADIATOR

compiants with ECODESIGN standards

THERMOSTAT DYP

DYNAMIC PRO is a white or black digital chronothermostat that can be positioned on the right or left of the towel warmer; 90 cm cable and with 2.5 cm adjustable cable cover.

* possible sleeve for the E.H.E.
(check the drawings of each model)

- White thermostat with white cable cover adjustable in depth

Art. DYPB 89,60€



Art. DYPB

- Black thermostat, complete with black cable cover

Art. DYPN 103,40€



Art. DYPN

REMOTE CONTROL for DYP Thermostats

Infrared remote control with display and wall mounting support (magnetic coupling) is equipped with double transmitter and presence sensor

10,8 x 5,3x 2,3 cm

Art. TIR 41,00€



CIRCLE Wi-Fi THERMOSTAT (up to 800w heating elements)

The innovative Wifi user interface allows the control of the towel warmers with a dedicated App from a device such as a tablet or a smartphone with both Android and iOS operating systems.
80 cm cable length

- Chrome and glossy black finish Art. CIR-wifi 198,50€



Art. CIR chrome and glossy black