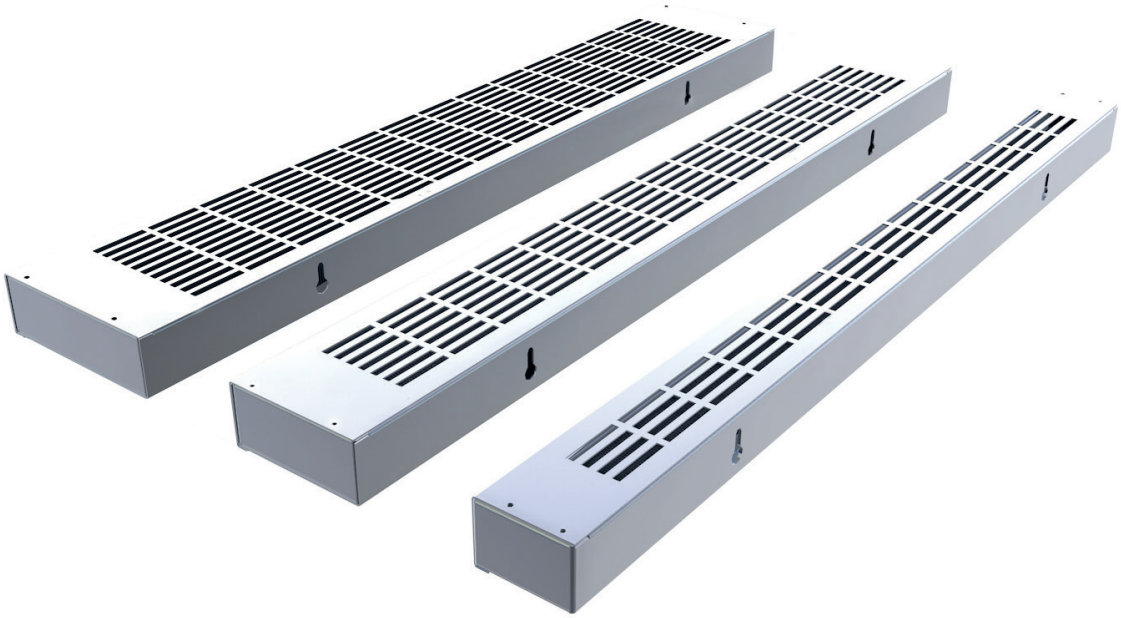
Epecon OKNO

for glass facades and panoramic windows

- natural convection
- Low-H_2O façade convection heater
- strong metal casing
- standard colour white, Ral colours on demand
- a innovative heating technology and high quality
- easily accessible for maintenance
- extended range
- available in many sizes and colours
- a sleek and discreet design creates space for the architects



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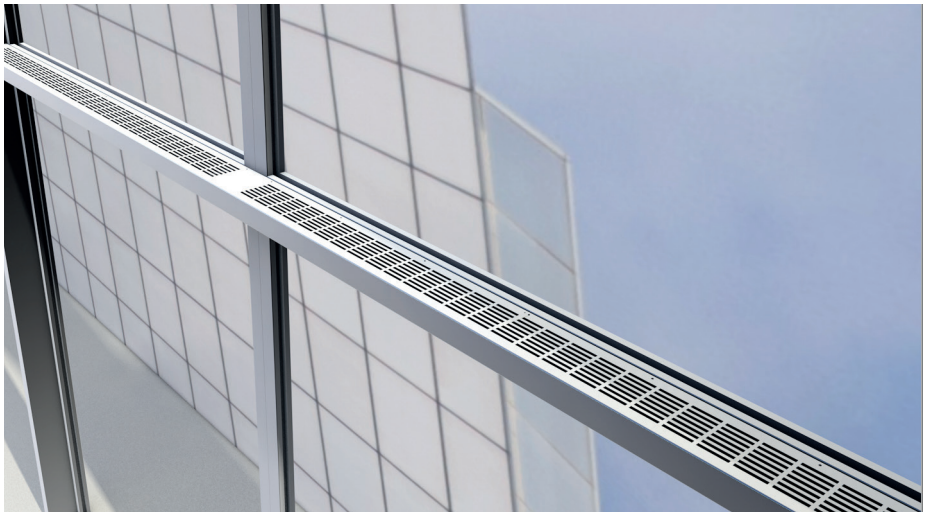
OKNO

The technological evolution allows us to produce ever more efficient glazing for building façades with large glass windows without a great heat loss. But large windows, however, almost always give a cold feeling as a result of the so-called 'cold trap'. This can be solved by integrating the OKNO heating system in the window frame.

The facade convector OKNO placed directly on the facade prevent direct penetration of cold air into the interior. The warm air rising from the OKNO mixes with the falling cold air and creates a heat shield that provides superior thermal comfort inside buildings. Placing an artificial "air curtain" or other artificial solutions can thus be avoided. In some buildings that having glazed façades throughout many storeys, a façade convection heater would be a perfect match. A mechanism of natural convection being used in a OKNO would stop a mass of cold air naturally falling down.

Mounting example



Epecon reserves the right to change product specification at any time in line with our policy of continuous improvement and innovation.

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OKNO

Low-H_2O heat exchanger
- 1/2" connection

Brackets
Brackets made of Sendzimir galvanized steel plate of 1 mm

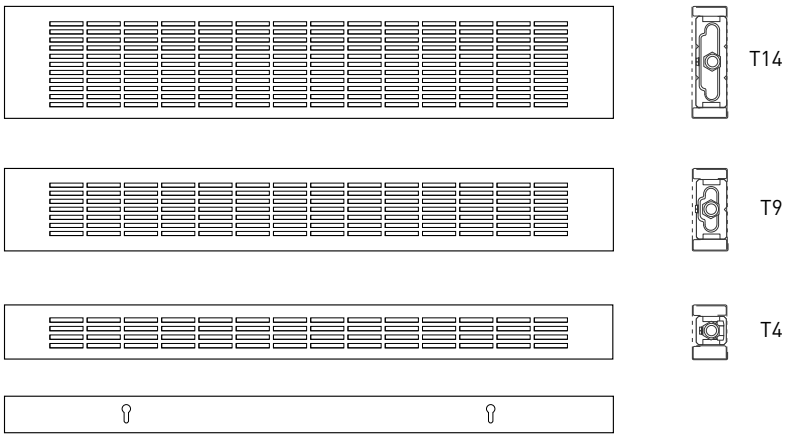
Casing
Electrolytic galvanised steel plate of 1.25 mm thick.
- with perforated slots, at the top and the bottom of the casing for the air passage. Mounting slotted holes Ø 8 mm
- end parts
- colour: RAL 9016

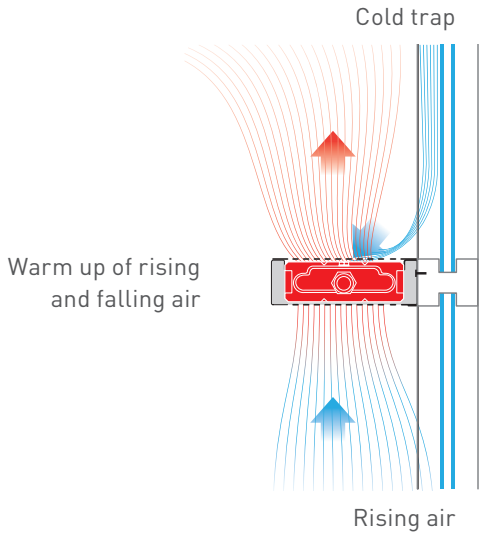
Low-H_2O: an example of ecodesign:

Low-H_2O radiators consume less energy. But it is not only during their life that they are more environmentally friendly. Since a Low-H2O radiator is much lighter and smaller than an equivalent capacity of a steel panel radiator, the raw material requirement in manufacturing is also significantly reduced.

The "Low Mass" radiator with super fast heat conductivity

A lower mass heats up faster than a higher mass. That is a law of nature. Low-H_2O radiators contain up to 90% less water than a steel panel radiator and they also have no heavy steel plates that require pre-heating. The ultra-modern alu-minium and copper heat exchanger rapidly transfers the heat to the room. Low-H_2O radiators respond faster and immediately provide thermal comfort. They achieve this with a much lower consumption.





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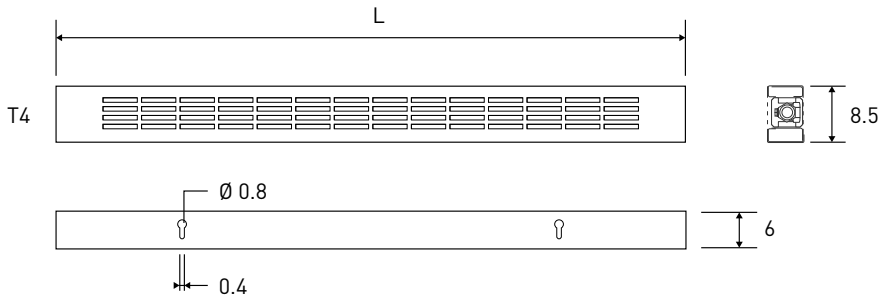
OKNO T4

Dimensions

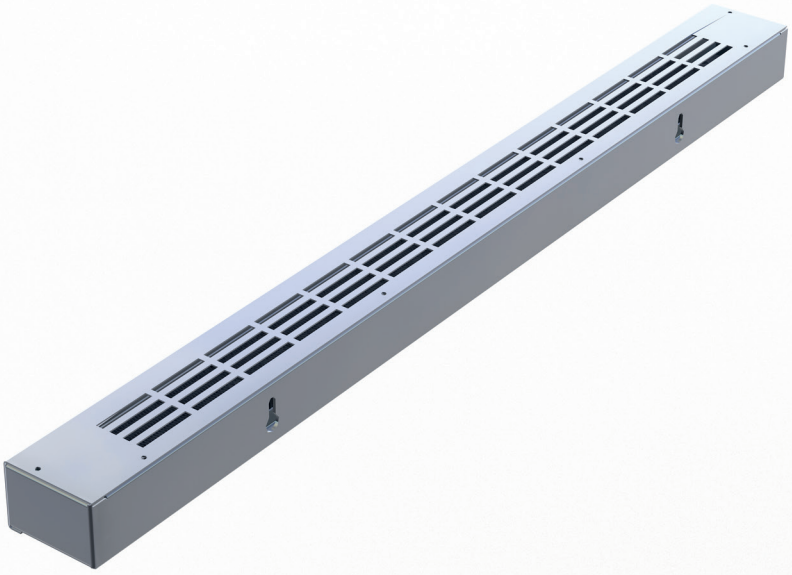


OKNO T4

T4		Double-sided Low-H_2O heat exchanger: 1/2" double-sided connection														
L	60	70	80	90	100	110	120	140	160	180	200	220	240	260	280
B	8.5														
H	6														
75/65/20	121	141	162	182	202	222	242	283	323	364	404	444	485	525	566
55/45/20	61	71	81	91	101	111	121	141	162	182	202	222	242	263	283

output per meter of cabinet length (m/l) at 75/65/20°C: 202 Watt
output per meter of cabinet length (m/l) at 55/45/20°C: 101 Watt

Weight per meter: 3,9kg



- standard colour: traffic white RAL 9016
- option: other colours

Epecon OKNO
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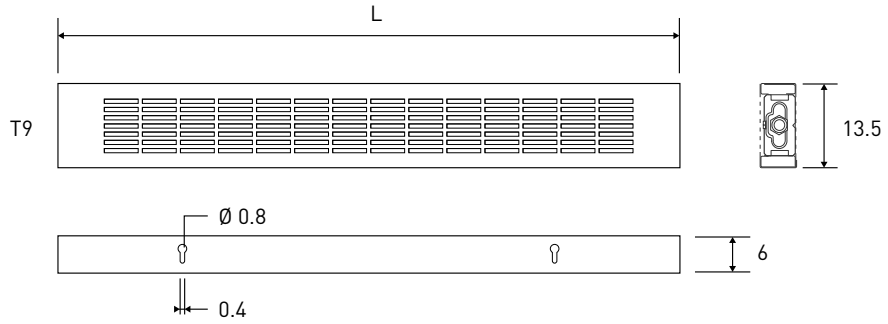
OKNO T9

Dimensions

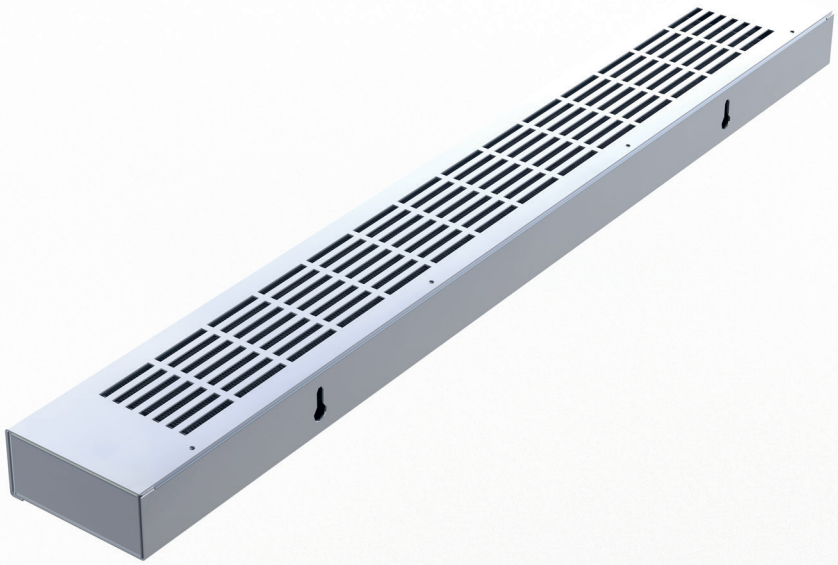


OKNO T9

T9		Standard Low-H_2O heat exchanger: 1/2" same end connection													
		Double-sided Low-H_2O heat exchanger: 1/2" double-sided connection													
L	60	70	80	90	100	110	120	140	160	180	200	220	240	260	280
B	13.5														
H	6														
75/65/20	255	297,5	340	382,5	425	468	510	595	680	765	850	935	1020	1105	1190
55/45/20	128	149	170	191	213	234	255	298	340	383	425	468	510	553	595

output per meter of cabinet length (m/l) at 75/65/20°C: 425 Watt
output per meter of cabinet length (m/l) at 55/45/20°C: 213 Watt

Weight per meter: 5,5kg



- standard colour: traffic white RAL 9016
- option: other colours

Epecon OKNO
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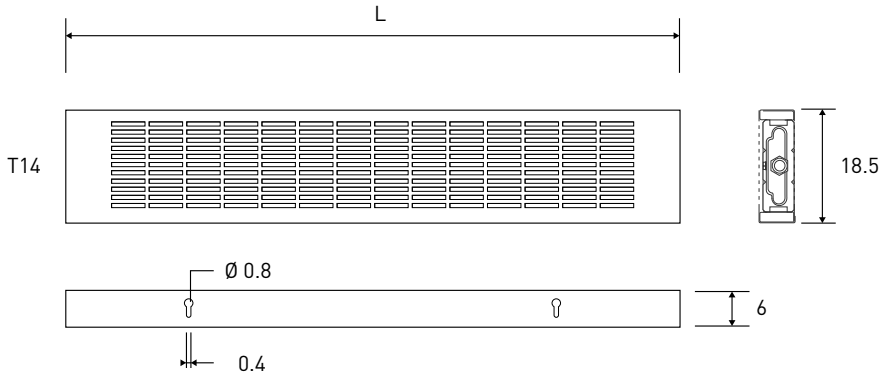
OKNO T14

Dimensions

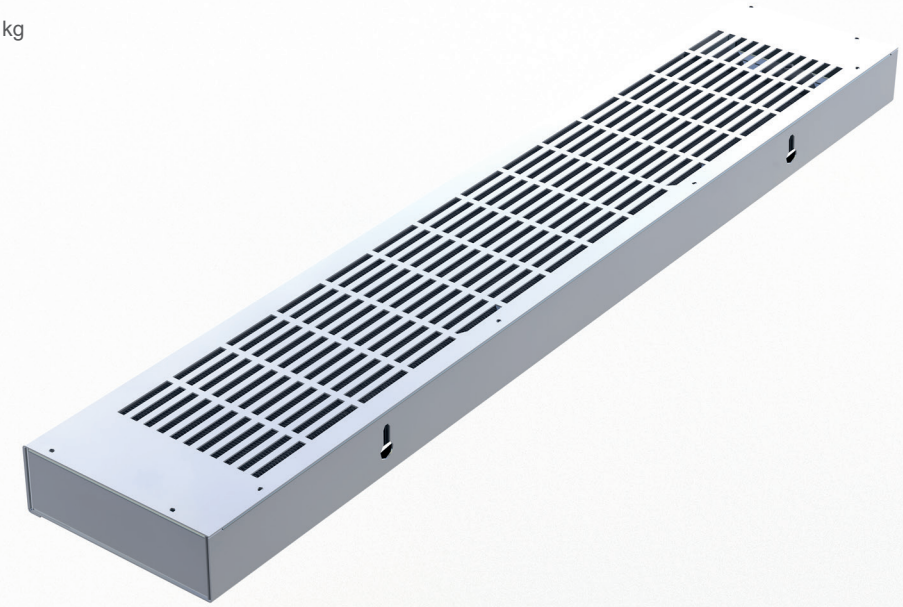


OKNO radiator T14

T14		Standard Low-H_2O heat exchanger: 1/2" same end connection													
		Low-H_2O heat exchanger: 1/2" double-sided connection													
L	60	70	80	90	100	110	120	140	160	180	200	220	240	260	280
B	18.5														
H	6														
75/65/20	416	486	555	625	694	763	833	972	1110	1249	1388	1526	1665	1804	1943
55/45/20	208	243	278	312	347	382	416	486	555	625	694	763	833	902	972

output per meter of cabinet length (m/l) at 75/65/20°C: 694 Watt
output per meter of cabinet length (m/l) at 55/45/20°C: 347 Watt

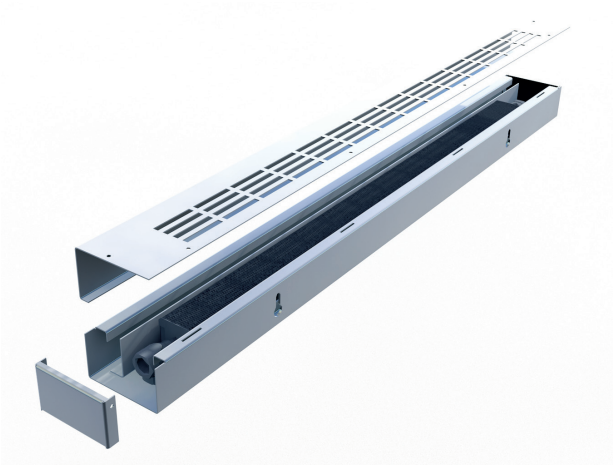
Weight per meter: 7,1kg



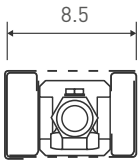
- standard colour: traffic white RAL 9016
- option: other colours

Epecon OKNO

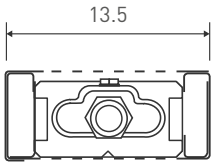
Option: with integrated pipe duct



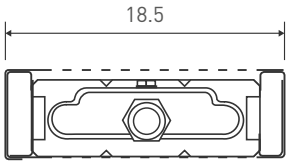
Standard device



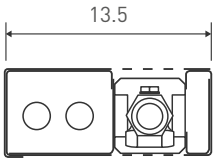
Standard device



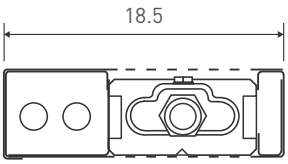
Standard device



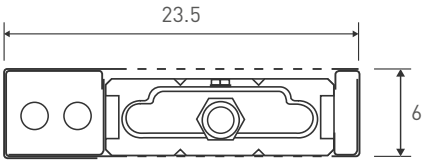
Option: with integrated pipe duct + 5 cm



Option: with integrated pipe duct + 5 cm



Option: with integrated pipe duct + 5 cm



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PRODUCT DESCRIPTION

The appliance is equipped as standard for heating and for connection to traditional water heating systems.

Material:

The Low-H_2O heat exchanger:

- standard heat exchanger: 1/2" same end connection
- double-sided heat exchanger: 1/2" double-sided connection (on request)
- is manufactured of round, seamless circulation tubes of pure red copper, with pure aluminium fins and collectors for left or right 1/2" same end connection.
- air vent 1/8" and drain cock 1/2" are included
- pressure test: 20 bar
- working pressure: 10 bar
- electrostatically lacquered with anthracite grey epoxy-polyester RAL 7024.

Casing:

- electrolytic, galvanised steel plate of 1.25 mm thick
- brackets made of sendzimir galvanized steel plate of 1 mm
- the casing is lacquered in the colour traffic white RAL 9016. A scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200 °C. UV-resistant due to ASTM G53.

Options:

- integrated pipe duct: width of the standard device + 5 cm

How to install

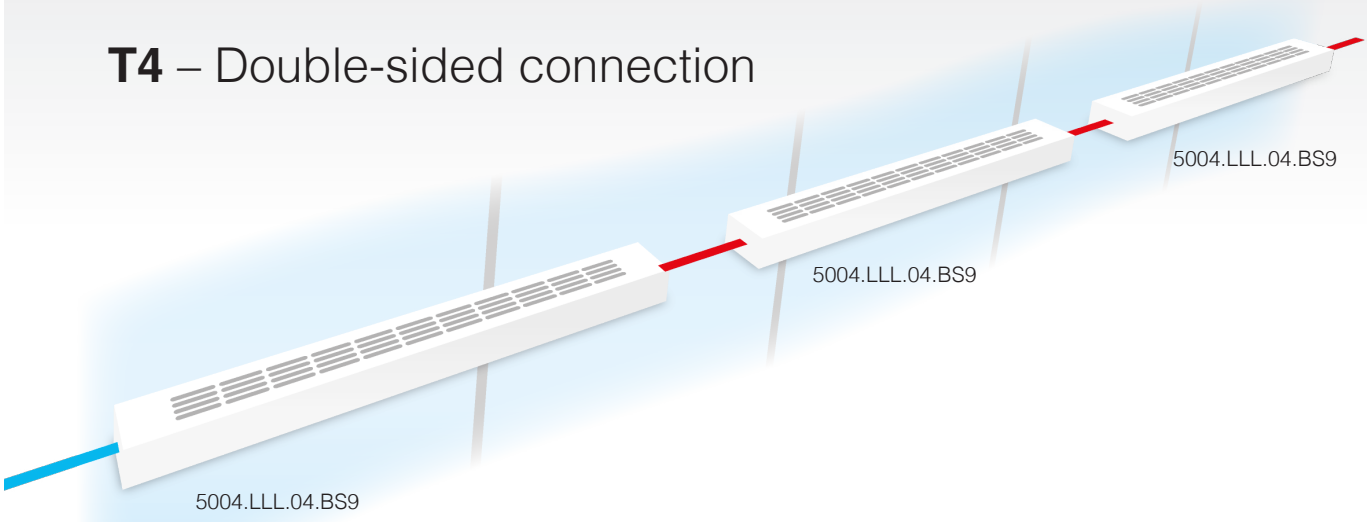
The building services engineer chooses the heating elements considering the following conditions:

- a heat output calculation according to the standard.
- the heat exchangers will be connected to a one pipe system / two pipe system, with a same side end connection.
- the valve connection is concealed within the standard casing

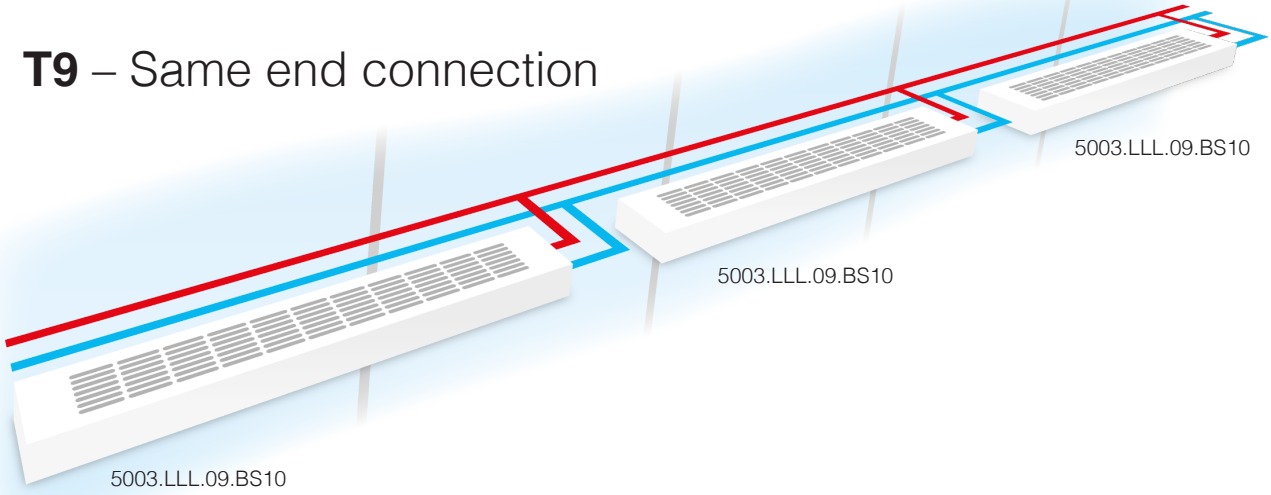
Maintenance:

Frequency of maintenance depends on the environment in which it is placed.

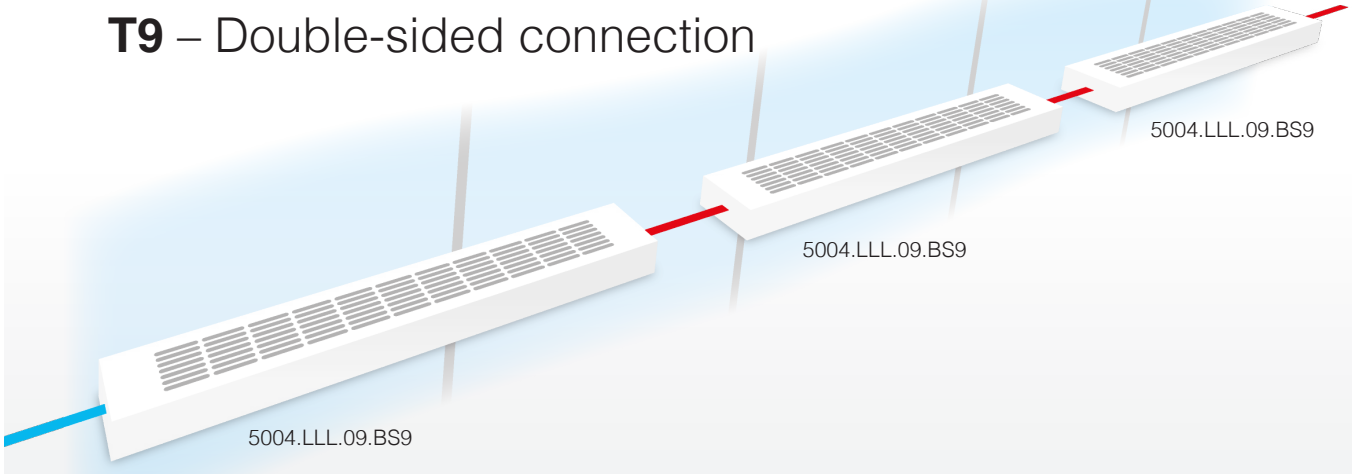
T4 – Double-sided connection



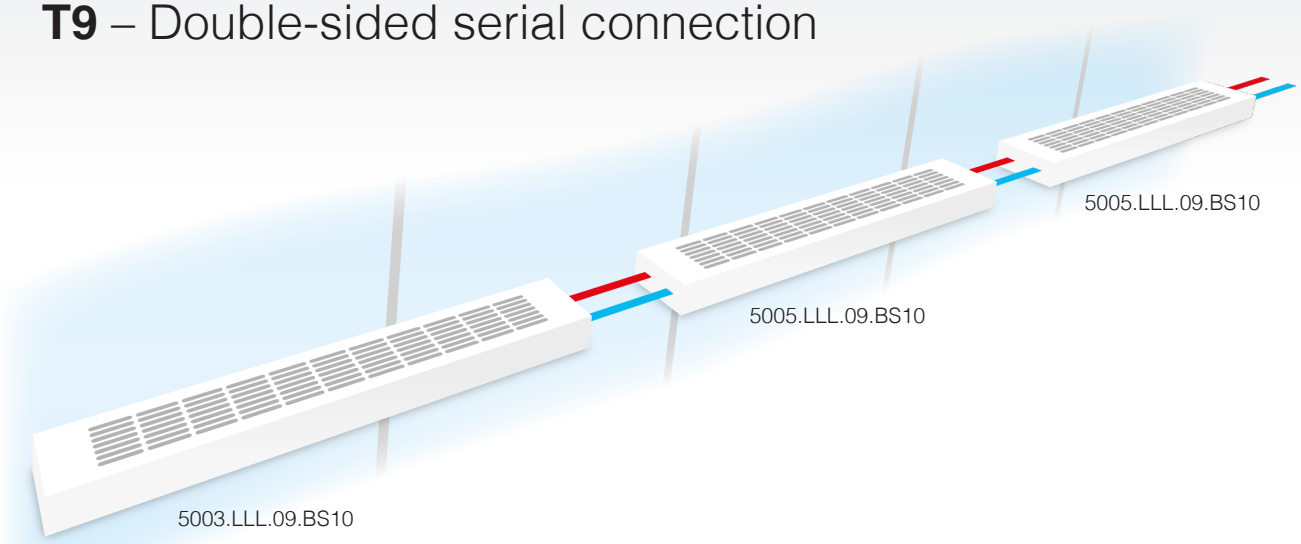
T9 – Same end connection



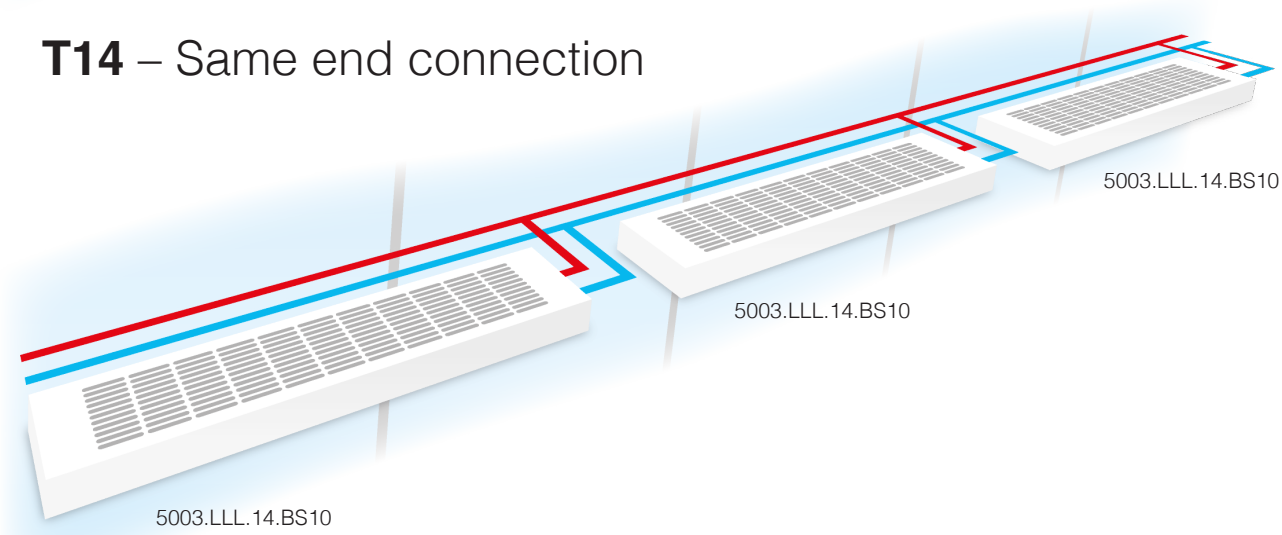
T9 – Double-sided connection



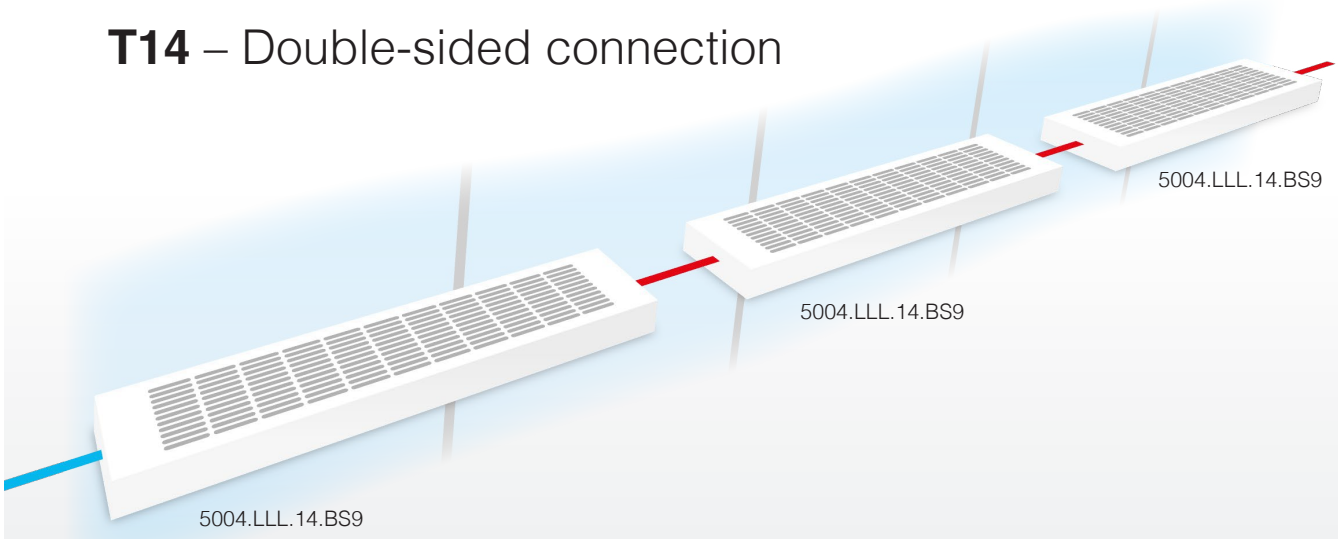
T9 – Double-sided serial connection



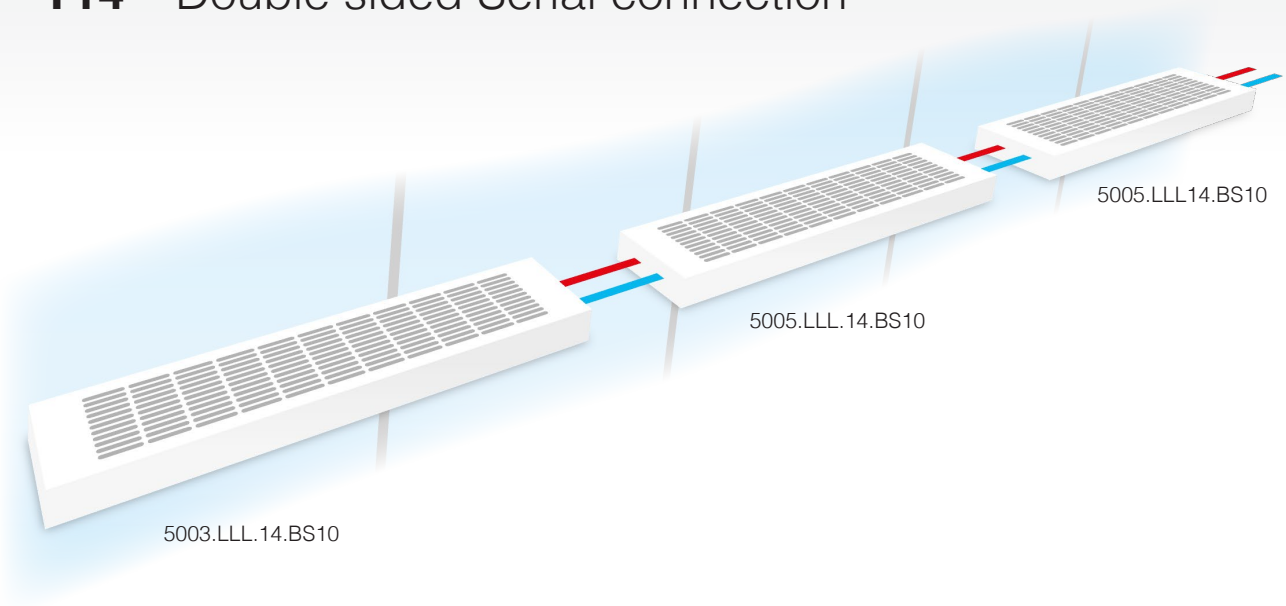
T14 – Same end connection



T14 – Double-sided connection



T14 – Double sided Serial connection



This is only a graphic sketch on different types of connection alternatives.
Its not a recommendation of installation.