



INSTALLATION INSTRUCTIONS

Water Model

*REV_04
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HEKOS srl

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Azienda certificata ISO 9001:2008 - Certificato n°IT 12/0561

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Components

Immagine	Art.	description
	SL	Furnishing element in aluminium with front radiator and upper nib of the cover available in standard white Ral 9010, natural oxidized and dark bronze paint, 2 Support rod in aluminium complete with screw andrawl plug for attachment and profile in plastic (in bars of 2,5 mt.)
	KA	Heating core with supply and return copper piping External diameter 14,8 mm thickness 0,6 mm, andin fins aluminium (in bars of 2,5 mt.)
	OA	External corner in pvc
	OI	Internal corner in pvc
	OS	End cap in pvc
	OB	180° return elbow in copper diam. 14 thickness 1 mm
	OC	90° elbow pair in copper diam. 14 thickness 1 mm
	RC 1415 <hr/> RC 1515	Compression THERMODUL Fittings 14-15 mm <hr/> Compression THERMODUL Fittings 15-15 mm

Preparation before installing

TOOLS REQUIRED:

- CONSAW (for cutting aluminium profiles)
- EXPANDER FOR PIPES WITH HEADS Ø 14-16 mm (weld solution) - pag 8-10
- WELDING TORCH (weld solution) - pag 8-10
- COMPRESSION FITTINGS (art RC 1415) (compression fittings) - pag 12-13
- COMPRESSION FITTINGS (art RC 1515) (compression fittings) - pag 12-13
- SAW (to cut heating core)
- FLAT AND PHILIPS SCREW DRIVERS
- STEEL BRUSHES AND SANDPAPERS (cleaning pipes)
- PLIERS
- CHALK LINE
- SCREW DRIVERS
- PIPE WRENCH
- DRILL
- MEASURING TAPE



Installation must be performed by qualified personnel and has to conform with the country's rules and regulations.

The skirting-board heating Thermodul must be installed to end inside works

Protect floors to avoid before beginning installation.

Packaging (polystyrene, nylon, ...) should not be left within the reach of children.

Installation stages	
Installation of Thermodul system happens in 6 stages	
F1	FIX BRACKETS - pag 5
F2	PLACEMENT OF PROFILES AND PVC COMPONENTS (OS, OI, OA) - pag 6
F3	INSTALLING THE HEATING CORE <i>F3-1 - Solder joints - pag 7-8</i> <i>F3-2 - Compression fittings - pag 9-10</i>
F4	CLIP INTALLATION – pag 11-12
F5	INSTALLING THE SKIRTING UNIT - pag 13
F6	BLEEDING AND BALANCING THE SYSTEM - pag 14

IMPORTANT INFORMATION FOR A PROPER INSTALLATION:

Handle the material, especially the heating core, with extreme care.
Be aware not to damage the thin plate (veins / lamella) or bend the bars

FIX BRACKETS



Place a corner (OI) or a terminal (OS) at the end of the wall.
Approx 10 cm from it lean the bracket against the wall (art. OT) and mark the spot of the top hole.
Do the same on the other side.

Drill the holes with a 6 mm drill piece, insert the PVC plug and partially screw a 4x4,5 screw (supplied).
Mark the line between the 2 screw making sure that they are at the same height.



FOR WALL SHORTEN THAN 2.5 m

Fix the brackets at 50-60 cm interval along the coloured line on the wall

WALL LONGER THAN 2,5 m

Mark the spot for the bracket to match the place where 2 profiles and skirting board meet. To guarantee the fast clip on of the front plate it is very important that all the brackets are fixed at the same height.

Important!

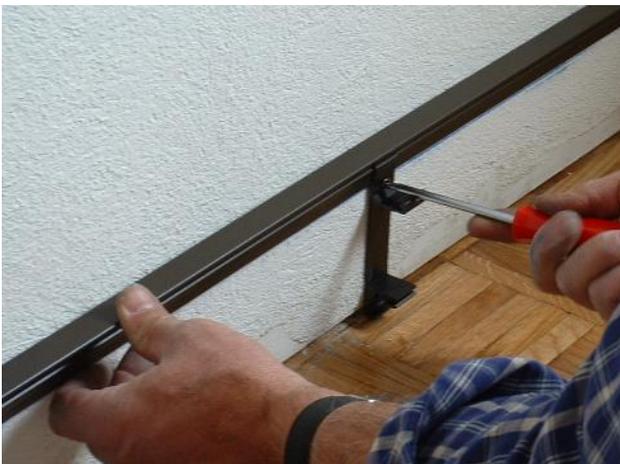
Whereby the walls are not perfectly straight and/or where walls are particularly bad, for best installation install the brackets every 40 cm.

PLACEMENT OF PROFILES AND PVC COMPONENTS



To avoid waste material place all the 2.5 profiles first

then complete the walls with the profiles cut to measure.
Ensure that profiles are cut to precision for the best result.



Screw the brackets tightly to the fix the upper profile to the wall

Lean the terminal (art. OS) onto the door and fix it with screw and plug

PLACING THE HEATING CORE

Solder joints



Verify the meters of heating core required (art. KA) as per drawings and identify the walls where they will be placed.

To avoid unnecessary waste of material place all the 2.5 m length first and complete by placing the remaining cut to measure

Where the heating core is cut it is necessary to remove some of the veins using pliers, clean to avoid any debris.

The pipes should be left bare for 4-5 cm



Clean the end of the copper heating core thoroughly with steel wool before soldering

As the heating core pipes are 14.8 mm in diameter, it is necessary to expand it by using an expander (such Rems or similar)

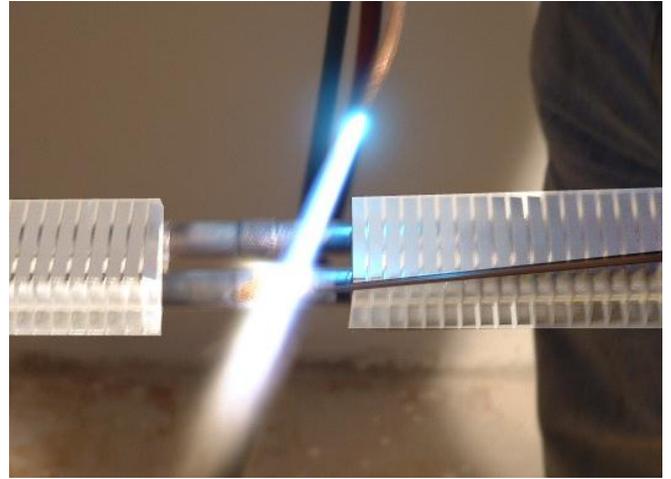
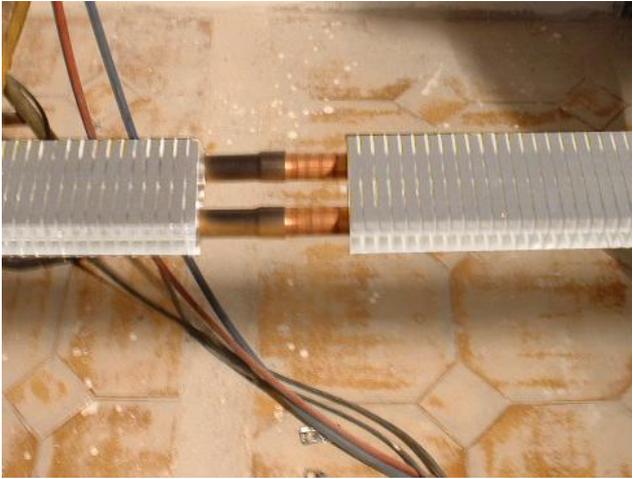
To connect to other copper pipes use:

- 14 mm head for 14 mm pipes
- 16 mm head for 16 mm pipes

1/2" copper solder joint can also be used.

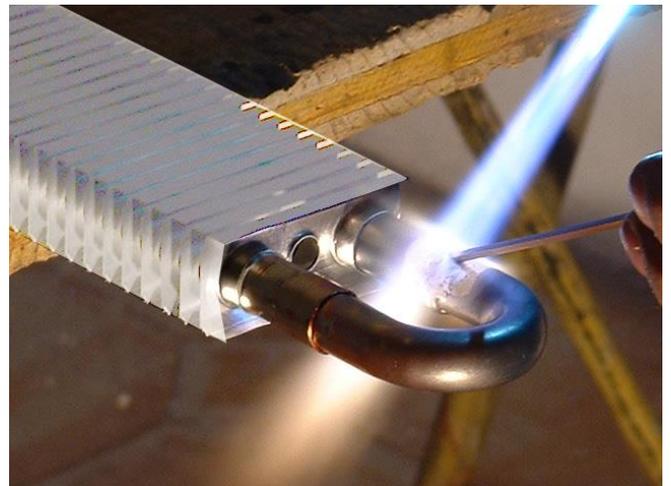
PLACING THE HEATING CORE

Solder joints



To link 2 heating cores (art. KA) expand the pipes using first a 14 mm head (expanding to the end) to bring the internal diameter from 13.5 to 14 mm. They the 16 mm head to expand slightly the diameter from 14 to 14.8 mm. It raccomended not to expand too much to avoid compromising the connection's hold.

Solder the pipes using a soldering torch and alloy rod or electric gun and tin-silver alloy. It is recommended that soldering procedures are carried out as much as possible on a worktop.



With regards to 90° elbow weld the heating core (art. KA) to the 90° elbow (art. OC) after expanding the pipes of the heating core with a 14mm head.

At the end of the circuit weld the heating core (art. KA) to the end elbow 180° (art. OB) after expanding the heating core pipes with 14 mm head

N.B.

in the case in which no use is provided curves (Art. OC), predict the curves of 13-15 cm of tube only without fins

PLACING THE HEATING CORE Compression fittings

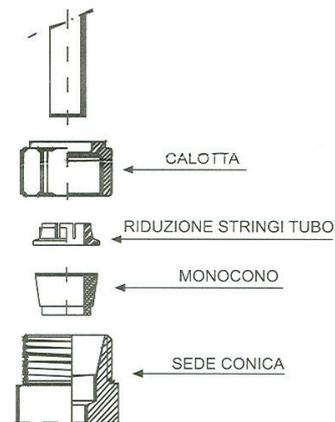


Verify the meters of heating core required (art. KA) as per drawings and identify the walls where they will be placed.

To avoid unnecessary waste of material place all the 2.5 m length first and complete by placing the remaining cut to measure

Where the heating core is cut it is necessary to remove some of the veins using pliers, clean to avoid any debris.

The pipes should be left bare for 4-5 cm

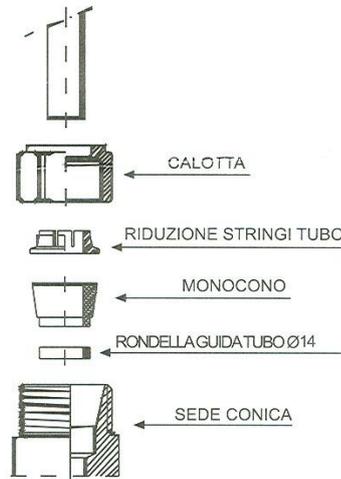
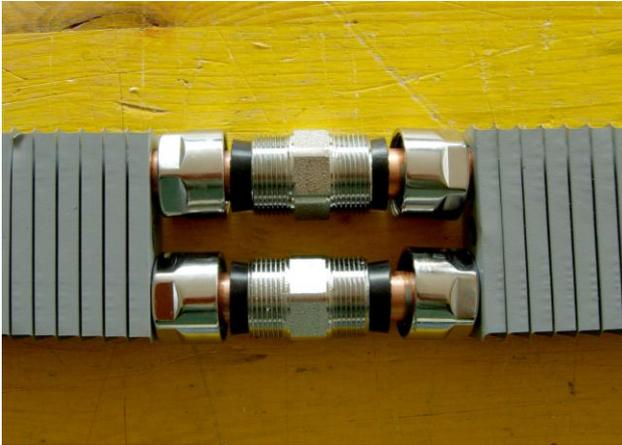


Clean the end of the copper heating core thoroughly with steel wool

To link the heating cores (art. KA) use compression fittings Thermodul RC 1515 consist, as on detail, of cap, tighten pipe reduction, gasket and niplax.

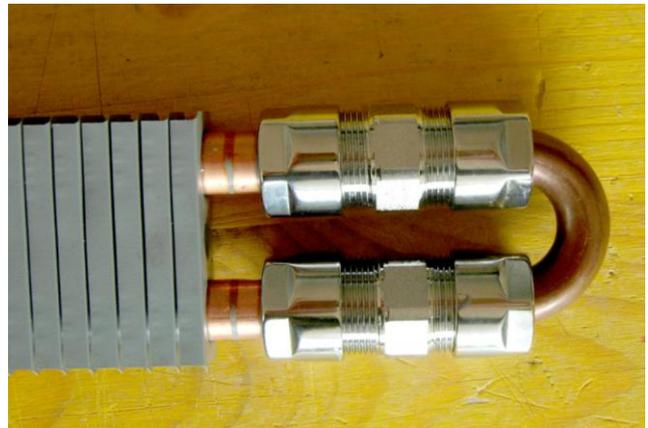
PLACING THE HEATING CORE

Compression fittings



Tighten the fittings 24 mm open-end wrench for cap and niplex.

To link the heating cores (art. KA) and the elbows 90° (art. OC) e 180° (art. OB) use compression fitting Thermodul RC 1415.
On detail the correct installation of the fitting.



On the 14 mm pipe side insert the washer, to permit the correct watertight on 14 mm pipe.

It's important tighten the cap to permit at gasket the correct watertight on the pipe to prevent the fitting take off.

The minimum Tightening torque it's 40 Nm

CLIP INTALLATION



Before fixing the heating core (art. KA) and realizing the connections (welding), place it on the wall and mark with a pencil the thin plate that will fall in the middle of the bracket (art. OT). If it is impossible to do this, measure the actual distance between the various brackets.

Remember to take in consideration the space occupied by the joints or fittings.

Mark the heating core on the thin plate that will fall in the middle of the bracket

After the welding, insert the included clip on thin plate. Make sure to place it on the same interval. Gently press the flat side of the clip until will be fixed to the pipe.

Repeat the operation also on the lower side of the same thin plate



Once you have fixed the 2 clips repeat the operation on all brackets where the heating core is located. Place a pair of clips between the two brackets

If the walls are not perfectly linear or if the heating core does not stay the same distance from the wall, insert more pairs of clips between the brackets. There should not be any contact between heating core- wall and heating core-front mask.

CLIP INTALLATION

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ATTENTION



Before placing the heating core on the brackets and make the final connections, be sure that there are no blades (thin plates) presenting curls or folds outward. If present, both on the front and back, straighten the blades (thin plate) by pressing lightly with your finger, or, if they are difficult to bend push slightly to the inside of the heater core.

Place the heating core on its seat. If it is hard to get in, make sure all the clips are in all the way.



Check that the inserted clips are fixed near by the brackets. The flat part has to correspond to the bracket.

Make sure that after this last operation, there are still not protruding blades

N.B.

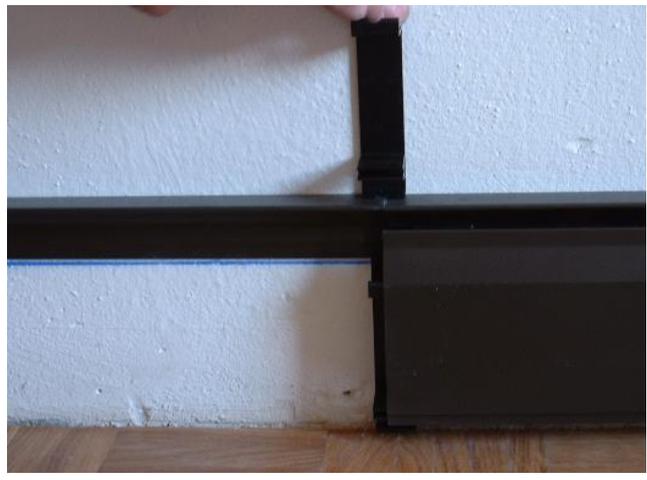
The listed steps are essential to avoid any problem. Squeaks during operation can be caused by the rubbing of any protruding blades on the front mask or on the wall.

INSTALLING THE SKIRTING UNIT



Before installing the skirting unit, ensure that the brackets are all at the same height.

Should there be slight differences bend the bracket's clips gently toward the top or bottom enough to attach the skirting unit.



For wall longer than 2.5 m clip a complete length of skirting unit on the upper clip of the bracket and with a slight pressure from top to bottom.

Take precise measurements of missing skirting units, cut them and fix them as described above

IMPORTANTE!

ENSURE THAT THE SKIRTING UNITS MEET RIGHT ON THE BRACKET.

BLEEDING AND BALANCING OF THE SYSTEM

Once completed the installation, load the system and let all the air out by using the bleeding valves in the manifold or directly from the boiler, if no manifold is available.

Proceed to a watertight test to ensure that no leaks are present as per rules and regulations.
For a correct functioning of the system, it is important to verify the balancing of the circuits. This can be done from the manifold to avoid that shorter circuits are favoured over longer ones.

Maximum pressure of exercise 3 bars.

In the case of a retrofit situation and in the absence of a manifold, the balancing should be done along with other radiators/heating system that may be present in the building.

Note:

Per assistenza in fase di posa rivolgersi a:
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