

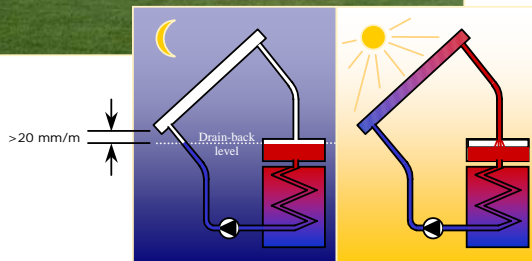
COLLECTOR TYPE: Thermic 28 S

Collector and flashing set:

The Thermic collector is designed for easy roof integration in tiled roofs. Together with the flashing set it's a 2-hour job for a roofer to install the collector into a tiled roof including the scaffolding.

Always make sure that, before installing, you prepare the work according to current Health and Safety Regulations. See also Health & Safety instructions at the last page of this Manual.

APPLICATIONS: Small to large domestic hot water systems, industrial process and swimming pool heating.



POSITIONING:

The positioning of the collector will be determined by:

- Orientation: West, south and east is acceptable with a roof angle between 30° and 60°. See Information sheet collector orientation.
- Drain-back level (the lower connection of the collector should always be above it).
- The distance from the drain-back tank (the collector pipes should always be installed with a slope of >20mm/m). This to ensure that the collector circuit will drain.
- A nice looking place on the roof not too close to the edge or other obstacles on the roof. The higher in the roof the less shade a collector will have from obstacles.
- Be sure no rafters or beams are blocking the flow and return connections or the sensor location.
- Always start from a full tile directly below the collector.

POSITIONING OF THE LEAD BIB:

Positioning of the collector will be determined by:

- The exact position of the lead bib.
Mount the lead bib with the screws provided (a power screwdriver is recommended) on each rafter.
- Dress the lead into the tiles.





PREPARING PIPE AND SENSOR CONNECTION:

- Leave the tile laths in place.
- Depending on the roof construction cut out a piece of felt with a knife at the location of the connections or use a hole saw.
- Check inside the roof to ensure that there are no cables, wires or other obstacles at the location of the hole.



PLACING THE COLLECTOR:

- Depending of the height and accessibility of the roof the collector can now be hoisted into position on the roof.
- The connections are easily accessible from the inside of the building with a tap wrench or grips.
- The lift weight per person should not exceed the weight limit of 25 kg per person.
- Once the collector is in position, slip the collector into the brackets on the lead bib.
- Slide in the top flashing.
- Fasten the sides of the collector with the screws provided.

PLACING THE SIDE FLASHINGS:

- Slide in the side flashings on the left and right side of the collector.
- Bend back the zinc clip on the lower part of the side flashing to prevent the top part from sliding down.





REPLACING THE TILES:

- Start by replacing the tiles on the left and right side of the collector.
- After replacing the tiles along the sides, replace the tiles above the collector.
- If it is not possible to raise the tiles above the collector, then the tiles should be cut to fit. In this event always ensure that the correct PPE is worn and adequate dust suppression measures are taken.

FINISHING THE COLLECTOR INSTALLATION:

- Clean up the roof and check to see if any tiles have moved.



JOB DONE:

- Starting time building the scaffolding 09.00h
Finished job including training the roofer 11.00h.
- Wish the owner a lot of solar energy.

Health & Safety Preparations:

Always make sure that, before installing, you prepare the work according to current Health and Safety Regulations. With regard to the collector installation pay special attention to:

- Scaffolding: mount the scaffolding according to the appropriate instructions. Make sure the stabilising sections are mounted and fixed. Edge protection and toe boards must always be installed around the working platform according to current health and safety legislation.
- Ladders: only use ladders, which are approved with stabilising feet. Always secure the ladders against sliding. Never carry goods onto the ladder.
- Dust Suppression: only use approved electrical machinery with adequate dust protection whilst cutting tiles or other materials.
- Personal Protection: in all cases have helmets, safety glasses, dust masks, safety shoes and ear protection ready and available. Wear them for your own safety.