

Instruction sheet for SATK50193HE 001

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SATK50 series

Product range

Cod.SATK50193HE 001 recess mounted heat interface unit for low temperature heating, 40 kW heat exchanger, heating circuit regulating temperature 25–45 °C

Function

The heat interface unit code SATK50193HE 001 is designed to provide low temperature heating (25–45 °C) for floor systems with electric supply in conjunction with the high temperature of a bathroom radiator.

Specifications

SATK50193HE 001 is designed for wall installation and comes with an insulated metal cover. For functional and performance-related features, please refer to the instruction sheet code 78202 and technical brochure 01202 supplied with the heat interface unit. The product corresponding to SATK50193HE 001 is code SATK50103HE.

Wall-mounted heat interface unit code	Recessed heat interface unit code
SATK50193HE 001	SATK50103HE

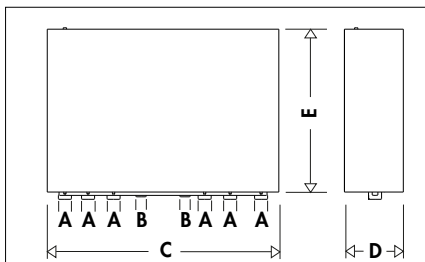
Electric specifications

Maximum working pressure: 10 bar
Electric supply: 230 V - 50 Hz
Maximum power consumption: 80 W

Technical specifications of insulation

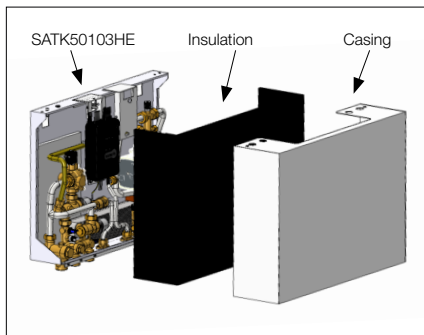
Material: expanded PE
Thermal conductivity: 0,04 W/(mK)
Thickness: 15 mm

Dimensions

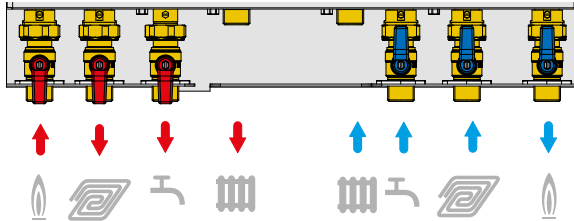


A	B	C	D	E
1"	3/4"	590	140	418

Components



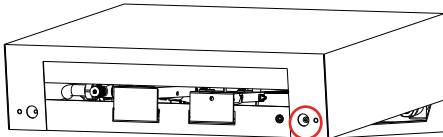
Description of connections



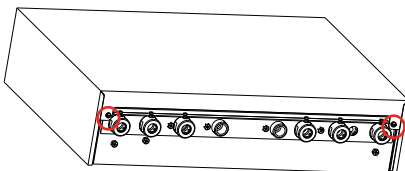
Installation notes

These instructions must be observed and applied during installation, to prevent problems from arising during fitting or normal operation. Before proceeding with installation, CAREFULLY read brochure 01212 and instruction sheet code 78202 (available on the website www.caleffi.com). You should therefore:

- A) Carefully measure the dimensions of heat interface unit SATK50 so that it is ideally positioned on the wall. You should also make sure that the cover can be removed with no obstruction once the SATK50 has been fitted.
- B) Use at least 6 wall anchors (not supplied) to secure the SATK50. The wall anchors must be chosen in accordance with the type of structure to which the HIU will be fitted.
- C) The hydraulic connections listed in the “Description of connections” section and indicated must be strictly observed using the means you believe most suitable and reliable for maintaining the hydraulic seal over time.
- D) Fill the system by slowly opening the shut-off valves (not supplied) and venting the HIU using the relevant cocks.
- E) If necessary, enable the domestic hot water preheat function (see instruction sheet 78202). Power up the HIU and proceed with setting the correct DHW and heating set points.
- F) Fit the cover by placing it on top, as shown in the figure below:



- G) Secure the cover by inserting the two screws supplied at the points indicated in the figure below:



When performing the hydraulic and electrical connections, observe all the safety notes provided below



WARNINGS

These instructions must be read and understood before installing and servicing the device.

IMPORTANT! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN A SAFETY HAZARD!

- 1 The device must be installed, commissioned and maintained by qualified technical personnel in accordance with national regulations and/or relevant local requirements.
- 2 If the device is not installed, commissioned and maintained correctly in accordance with the instructions provided in this manual, or in instruction sheet code 78202, or in brochure 01212, it may not work properly and may endanger the user.
- 3 Clean the pipes of any particles, rust, incrustations, limescale, welding slag and any other contaminants. The hydraulic circuit must be clean.
- 4 Make sure that all connection fittings are watertight.
- 5 When performing the hydraulic connections, take care not to subject the threads to excessive mechanical stress. Over time, this could result in breakage, resulting in leaks that cause damage and/or injury.
- 6 Water temperatures higher than 50 °C may cause severe burns. When installing, commissioning and servicing the device, take the necessary precautions so that these temperatures will not be hazardous for people.
- 7 In the case of particularly hard or impure water, adequate water filtration and treatment must be assured upstream from the device inlet, in accordance with current legislation. Otherwise the device may be damaged and will not work properly.
- 8 Any use of the device other than its intended use is prohibited.
- 9 Any combination of the device with other system components must be made taking the operational characteristics of both units into consideration.
- 10 An incorrect combination coupling could compromise the operation of the device and/or system.

IMPORTANT: Risk of electric shock. Live parts. Shut off the electric supply before opening the device enclosure.

- 1 During installation and maintenance operations, always avoid direct contact with live or potentially hazardous parts.
- 2 The device must not be exposed to dripping water or humidity, direct sunlight, weather conditions, heat sources or high-intensity electromagnetic fields. This device cannot be used in areas at risk of explosion or fire.
- 3 The device must be connected to an independent two-pole switch. If work has to be carried out on the device, cut off the electric supply first. Do not use devices with automatic or time reset, or which may be reset accidentally.
- 4 Use suitable automatic protective devices in accordance with the electrical specifications for the zone in which the device is installed and in compliance with current legislation.
- 5 The device must always be earthed before it is connected to the electric supply. If the device needs to be removed, always disconnect the earth connection after disconnecting the electric supply conductors. Check that the earth connection has been made to the highest of standards under current legislation.
- 6 Electrical installation must only be carried out by a qualified technician, in accordance with legal requirements.

- 7 The appliance does not contain asbestos or mercury.
- 8 The device is not designed for use by persons of reduced mental, physical or sensory capacity (including children) or persons lacking experience, unless they are supervised or instructed in use of the device by a person responsible for their personal safety.

SAFETY INSTRUCTIONS / NOTES:

- 1 Install water hammer arrester devices to compensate for any overpressure in the domestic hot water circuit;
- 2 In the presence of hot water recirculation or if a check valve is fitted at the domestic cold water inlet, suitable devices must be used to accommodate the expansion of the medium contained within the system and the heat interface unit;
- 3 All hydraulic connections must be visually checked during pressurisation. Vibration during transport may cause the connections to become loose. If a fitting needs to be tightened apply a proper tightening torque, otherwise the components may be damaged by overtightening.

For the updated version of the technical documentation refer to www.caleffi.com.