

Schlüter®-DITRA-HEAT-E

Electric radiant heating system for tiles and natural stone

Material and shopping checklist

You will need the following materials to install a floor heating system with DITRA-HEAT-E technology:

- Schlüter®-DITRA-HEAT /-DUO Uncoupling mat for attachment of heating cables
- Schlüter®-DITRA-HEAT-E-HK Heating cable
- Schlüter®-DITRA-HEAT-E-R3 touchscreen thermostat
- Schlüter®-DITRA-HEAT-E-R-WIFI touchscreen-thermostat with WiFi-function
- Schlüter®-DITRA-HEAT-E-R touchscreen thermostat
- Schlüter®-DITRA-HEAT-E-R4 thermostat with on/off switch
- Schlüter®-DITRA-HEAT-E-R6 touchscreen thermostat with WiFi and Voice Control function

Alternative Schlüter-DITRA-HEAT-E complete sets, optionally with WiFi-thermostat:

- | | |
|---|--|
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-S1 | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S4 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-S2 | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S5 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-S3 | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S6 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-WS1 (Wall) | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S7 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-WS2 (Wall) | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S8 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S1 (Wall) | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S9 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S2 | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S10 |
| <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S3 | <input type="checkbox"/> Schlüter®-DITRA-HEAT-E-DUO-S11 (Wall) |

Optional:

- Schlüter®-DITRA-HEAT-E-CT Cable tester *
- Schlüter®-KERDI-KEBA Sealing abutting joints
- Schlüter®-KERDI-COLL-L sealing adhesive
- Tile\Stone
- Grout
- Thin-bed mortar (tile adhesive)



Schlüter®-DITRA-HEAT-E Complete sets


Convenient complete sets for floor and wall heating are available for a number of common room dimensions.



Complete sets at a glance


Schlüter®-DITRA-HEAT-E-S

Complete set for floor and wall

Uncoupled area in m ²	Heated floor area in m ²	Art.-No.	Art.-No. 	P = Set
5.4	3.8	DH S1	DH RT5 S1	4
7.8	5.5	DH S2	DH RT5 S2	4
3.1	2.2	DH S3	DH RT5 S3	9


Schlüter®-DITRA-HEAT-E-WS

Complete set for wall

Uncoupled area in m ²	Heated floor area in m ²	Art.-No.	Art.-No. 	P = Set
5.4	3.8	DH WS1	DH RT5 WS1	9
7.8	5.5	DH WS2	DH RT5 WS2	9


Schlüter®-DITRA-HEAT-E-DUO-S

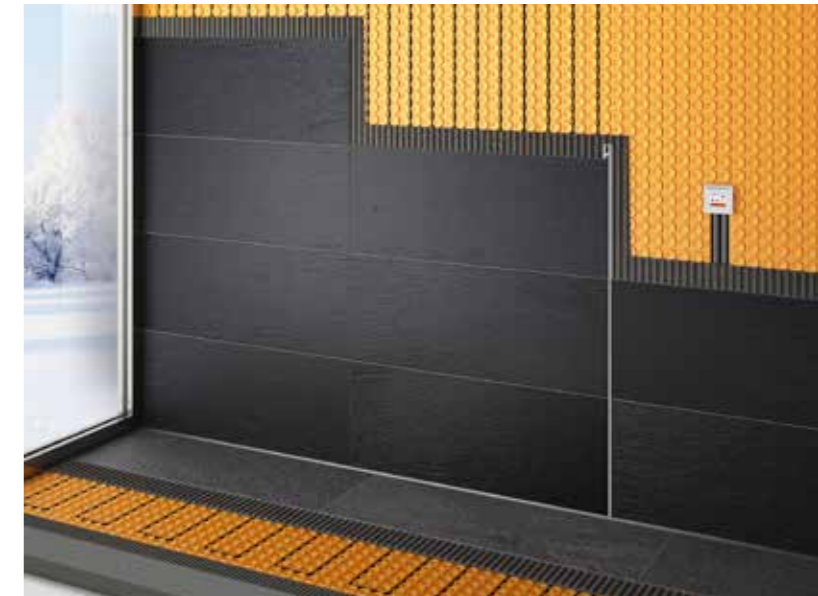
Complete floor and wall installation system

Uncoupled area in m ²	Heated floor area in m ²	Art.-No.	Art.-No. 	P = Set
1.5	1.1	DH D S1	DH D RT5 S1	9
2.3	1.6	DH D S2	DH D RT5 S2	9
3.1	2.2	DH D S3	DH D RT5 S3	9
3.9	2.7	DH D S4	DH D RT5 S4	8
4.7	3.3	DH D S5	DH D RT5 S5	8
5.4	3.8	DH D S6	DH D RT5 S6	5
6.2	4.4	DH D S7	DH D RT5 S7	5
7.0	5.0	DH D S8	DH D RT5 S8	4
7.8	5.5	DH D S9	DH D RT5 S9	4

Schlüter®-DITRA-HEAT-E-DUO-WS

Complete wall installation system

Uncoupled area in m ²	Heated floor area in m ²	Art.-No.	Art.-No. 	P = Set
3.1	2.6	DH D S10	DH D RT5 S10	9
2.3	1.8	DH D S11	DH D RT5 S11	9



System components for wall and floor installation



Schlüter®
Systems

PROFILE OF INNOVATION



Schlüter®-DITRA-HEAT-E

Electrical surface heating for tiles and natural stone

Schlüter-DITRA-HEAT is designed for installation in floors and walls, where it provides surface heating in specific zones. The further features of DITRA-HEAT are indispensable for high-quality ceramic tile and natural stone coverings. Thus, the floor is protected against permeating moisture, cracks from the substrate are not transferred to the covering, and the direct load transfer, along with the neutralizing uncoupling, guarantees the long life expectancy of floor and wall coverings.

For floors and walls

Due to their ability to retain and evenly distribute heat, ceramic tiles and natural stone are not only ideally suited for floor heating, but also for use on walls. We therefore have consistently optimised the innovative DITRA-HEAT-E-system for heating applications in comfort zones located in floors and walls.

Applications in floors:

- Heating tiled floors in living rooms and bathrooms to supplement full-scale heating systems (barefoot zones)
- Backup heating in buildings with very low heating energy needs (e.g. passive energy homes)
- Temporary heating of buildings that are only occupied occasionally, e.g. weekend homes
- Suitable as a primary heating system in conjunction with a corresponding thermostat (perform heat loss calculation to ensure correct heat output).

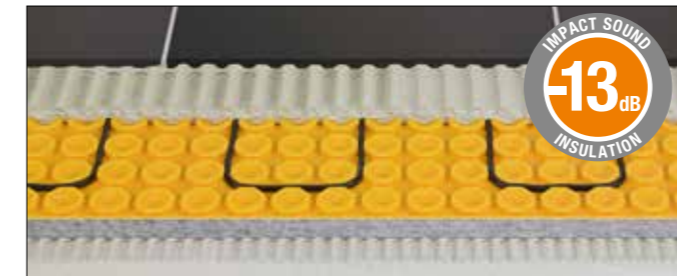
- ✓ **Creates cosy warmth**
- ✓ **Heating zones can be configured individually**
- ✓ **Low assembly height is ideally suited for renovation projects**
- ✓ **Uncoupling with proven DITRA technology**
- ✓ **Warms tiles even on problematic substrates**
- ✓ **Certified system components**
- ✓ **Suitable as primary heating system**

Applications in walls:

- Point heating of wall zones, for example for drying towels.
- Preventive heating of exterior walls from the inside to prevent mould growth, for example in shower areas
- Creating comfort zones in relaxation areas, dining corners, at desks or around seating arrangements
- Suitable as a primary heating system in conjunction with a corresponding thermostat (perform heat loss calculation to ensure correct heat output).

Schlüter®-DITRA-HEAT-E-DUO

Fast heat-up response - reduced impact sound

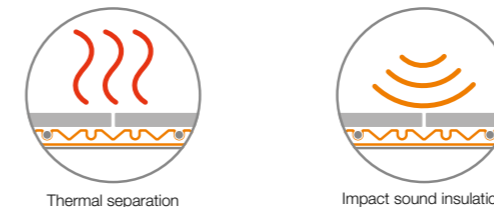


Schlüter-DITRA-HEAT-E-DUO further optimises the proven electrical floor heating system. The integration of a reinforced, 2 mm fleece fabric on the underside of the membrane drastically reduces heat radiation into the substrate. The thermal barrier on the membrane's underside enables a significantly faster heat-up response in the covering without any change in the low energy supply and offers certified impact sound reduction of up to 13dB.

The new DITRA-HEAT-DUO is the ideal solution whenever heat is needed quickly and for a short time. To give an example, a residential bathroom that is only used in the morning and evening for 1-2 hours needs a particularly responsive system with high efficiency. Warmth is required on demand in defined comfort zones, for instance in front of a vanity.

A special 2 mm fleece fabric, forming the thermal barrier of the DITRA-HEAT-DUO-system, transfers the bulk of the heat (over 80%) directly to the floor covering during the initial heat-up phase, which makes the noticeable heating effect much faster and more energy-efficient. The thermal barrier in the form of an integrated fleece fabric is installed together with the DITRA-HEAT-DUO-mat and offers impact sound reduction along with the proven functions of the DITRA technology such as vapour pressure equalization and waterproofing (official approval pending). Because of its excellent bond strength, DITRA-HEAT-TB is also suited for wall installation.

One membrane - two functions:



Advantages of Schlüter®-DITRA-HEAT-E

- ✓ **Pleasant room climate**
Based on gentle radiated heat and maintaining the natural humidity of a room.
- ✓ **Precise control**
Thanks to the digital floor thermostat, preferred temperatures can easily and precisely be set in every room.
- ✓ **Full-scale heating system**
Suitable as a primary heating system in conjunction with a corresponding thermostat (assumes heating output matches room requirements).
- ✓ **Cost efficient**
to buy, install, maintain, and operate.
- ✓ **Durable and maintenance-free**
Absence of wear and tear makes the system virtually maintenance-free with a long life expectancy.
- ✓ **Easy retrofitting**
Quick and easy to install.
Low assembly height (full height from 5.5 mm).
- ✓ **Simple to install**
The heating wires are installed in the uncoupling mat, with tiles adhered in the thin set adhesive directly above them. There is no need to trowel over unheated areas as in the case of conventional heating mats.
- ✓ **Convenient complete sets**
Schlüter-Systems offers practical sets for common space configurations.
- ✓ **Suitable for allergy sufferers**
The space is heated with gentle radiated heat so that no allergens are stirred up.
- ✓ **Certified system components**
Schlüter-DITRA-HEAT uncoupling and bonded waterproofing assembly feature national technical approval in Germany and the VDE-certified heating cable Schlüter-DITRA-HEAT-E-HK.
- ✓ **Ideal for use in combination with the ceramic thermal comfort floor**
The system components DITRA-HEAT-E supplement the floor heating system Schlüter-BEKOTEC-THERM.