



# USER MANUAL

for CALEO  
floor- and ceiling heating systems



### IMPORTANT INFORMATION

1. Select the type of the heating system(s) implemented at your place and carefully read the instructions in the relevant part prior to turning the system on.
2. The User Manual contains all major technical requirements and operation proposals for the economic and safe use of the heating system.
3. Any way of use different or contradictory with the content of the User Manual may have a negative impact on the system, or can cause a failure in it.
4. Should you have any questions regarding the User Manual, or operation in accordance with the Manual, do not hesitate to contact our expert colleagues.
5. The present User Manual's electronic version can be found at [bvfheating.com](http://bvfheating.com) website.



1. During activation and operation always make sure to proceed by the instructions of the present User Manual.
2. Only well-trained and qualified colleagues obtaining a relevant permit must carry out the installation of Caleo heating systems.
3. When taking over the heating system, make sure that the handover certificate has been filled out correctly. Electric shock protection of Caleo heating systems is the same as the protocol for other electric household devices.
4. Operation of the heating system is allowed only through a circuit with residual current device. Cutting-out of the residual current device is strictly prohibited. In case a large surface heating system is developed, the implementation of several RCD's is advised, even a separate device in every room. Do not activate the system until the full drying of the floor/cover, which can take up to 4-6 weeks depending on the circumstances.
5. It is the prior task and responsibility of the system operator to call the attention of any person carrying out works in premises having electric heating to the electric heating, to the disconnection of power source from supply prior to beginning the works, as well as to the protection of the intactness and integrity of the heating system and its elements.
6. In case the property is handed over to another habitant or owner, make sure to inform them about the features of the Caleo system, as well as about the rules regarding safe and efficient operation.
7. Should you suspect system failure, disconnect the system from the power supply, and immediately contact expert colleagues of Caleo Hungary Ltd.
8. Efficient operation of the Caleo heating system depends on the thermal characteristics of the actual heated premises. Floor heating is to be applied only in cases when a 29 C temperature of the heat emitter surface ensure sufficient heating of the given premises. In all other cases the use of additional heating is advised.
9. In case of heat transmitting heating surfaces a necessary requirement of proper operation is clear and optimal heat sink. For this reason, do not store or leave objects with high thermal insulating qualities (thick rugs, mattresses, etc.) for a long time in premises having Caleo REG system. Heat sink ability of the floor must be ensured at all times.
10. For the most economical and comfortable operation of the heating system, take note of the proposals for built-in thermostats.



User Manual

# CALEO REG

Floor Heating System



User Manual

# CALEO DIRECT

Wall- and Ceiling Heating System

## HEATED FLOOR/COVER

1. Ensure the electric floor heating's steady heat sink, avoid placing sizeable objects/furniture without legs on the floor.
2. **Avoid covering the floor with materials having high thermal insulating qualities (thick rug, mattress, under-bed bin, thermal proof materials, etc.) during operation.**
3. Protect floor covering from moisture, long-term wetting.

Checklist

✓ x

## CONTROL

1. Calibrate the thermostat using a room thermometer, since factory default setting of any type may be different than the actual temperature. (For details see the User Manual of the actual thermostat)
2. Place the sensor operating mode of the thermostat to double (floor+room) position, where the thermostat shows the air temperature based on data provided by the built-in sensor, and the floor sensor sets the limit temperature of the floor (heat sink) in the value of the set temperature.
3. Set the disable temperature of the floor sensor to 29°C. (For details see the User Manual of the actual thermostat)
4. If the system is equipped with a programmable thermostat, for the most efficient operation the use of programming functions is advised.
5. Caleo REG floor heating system is **NOT** a heating storage or partly heating storage system, thus shorter heating-up times shall be taken into consideration when starting and programming heating cycles. Heating-up, depending on the floor's original temperature and thickness (thermal storage capacity/thermal inertia) may take longer time.
6. During the heating season, for the best results, avoid turning off the heating system, when out of use set air temperature back by 3-4°C the maximum, thus preventing the overcooling of walls and other devices. In case the heated premises are to be out of use for a longer period, the use of anti-freeze program option is advised for conservation purposes.

## HEATED WALL/CEILING

1. Ensure the electric surface heating's steady heat sink, avoid placing sizeable objects/furniture directly in front of the heating surface, and do not place high temperature lighting objects directly near the heating element.
2. **Avoid covering the surfaces with materials having high thermal insulating qualities (wall carpet, mattress, thermal proof materials, inner side insulation etc.) during operation.**
3. Protect heat sink surfaces from moisture, long-term wetting, humidity.

Checklist

✓ x

## CONTROL

1. Calibrate the thermostat using a room thermometer, since factory default setting of any type may be different than the actual temperature. (For details see the User Manual of the actual thermostat)
2. Place the sensor operating mode of the thermostat to double (floor+room) position, where the thermostat shows the air temperature based on data provided by the built-in sensor, and the surface sensor sets the limit temperature of the heated surface (i.e. plasterboard) in the value of the set temperature.
3. Set the disable temperature of the floor sensor to 45°C. (For details see the User Manual of the actual thermostat)
4. If the system is equipped with a programmable thermostat, for the most efficient operation the use of programming functions is advised.
5. Caleo DIRECT wall-, and ceiling heating system is **NOT** a heating storage or partly heating storage system, thus shorter heating-up times shall be taken into consideration when starting and programming heating cycles. Heating-up, depending on the surface's original temperature and thickness (thermal storage capacity/thermal inertia) may take longer time.
6. During the heating season, for the best results, avoid turning off the heating system, when out of use set air temperature back by 3-4°C the maximum, thus preventing the overcooling of walls and other devices. In case the heated premises are to be out of use for a longer period, the use of anti-freeze program option is advised for conservation purposes.



