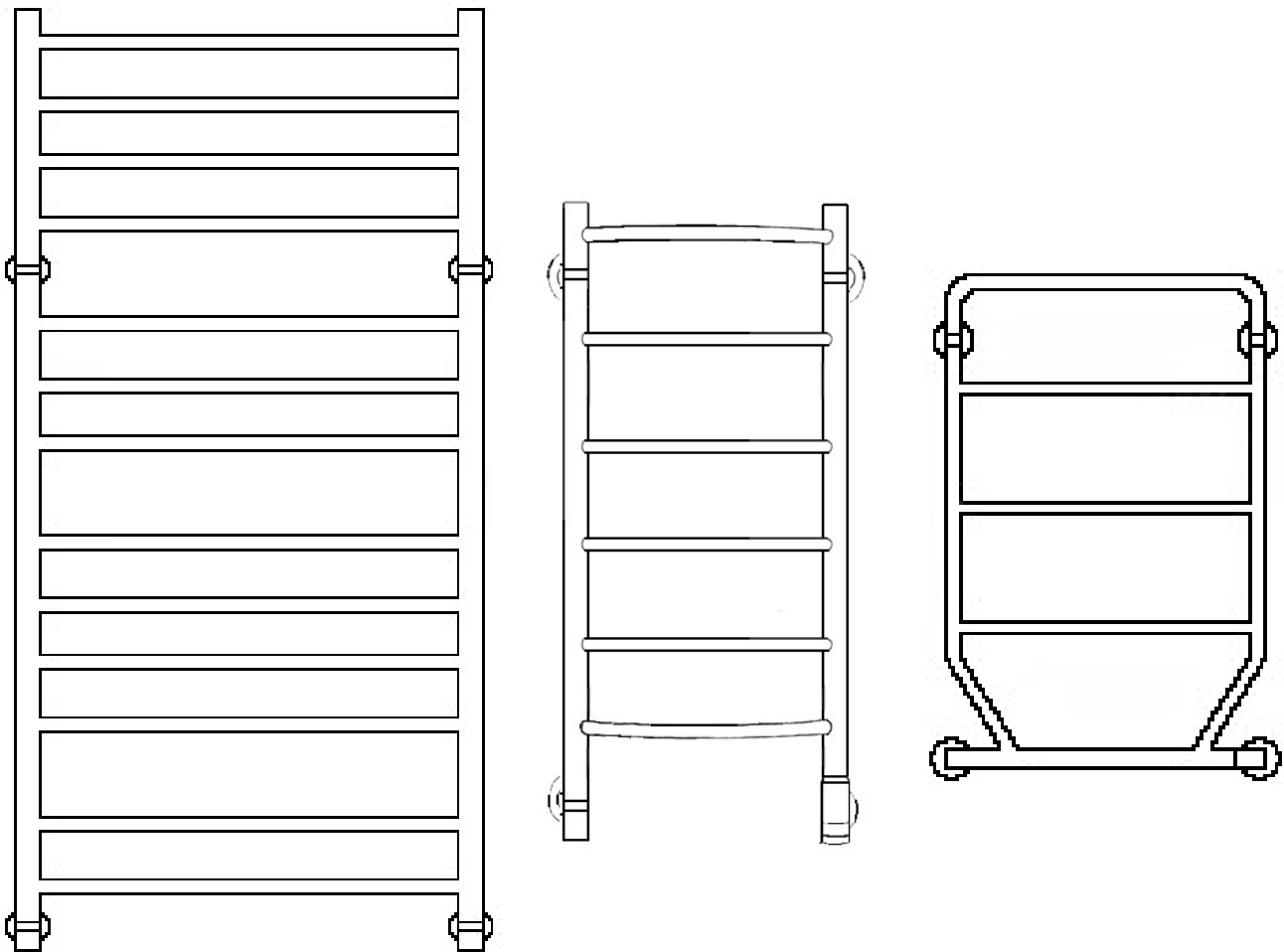


# Installation and operating instructions

## Somatherm Towel Rails

*This material is only intended for qualified professionals*



## Safety instructions

**WARNING** - This appliance is intended only for drying textiles washed in water. (7.12, 60335-2-43)

**WARNING** - In order to avoid a hazard for very young children, this appliance should be installed so that the lowest heated rail is at least 600mm (60cm) above the floor. (7.12.2, 60335-2-43)

**WARNING** - Children and people with mental impairments should not use the towel rail. The towel rail must not under any circumstances be used as a toy. (7.12, 60335-1)

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. (7.12, EN)

Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category 3, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules. (7.12.2, 22.2)

## Warranty

In case of manufacturing defects on any Somatherm electric towel rail within 5 years from date of purchase, we will fix that. A prerequisite for this warranty is that the device has been installed and mounted following the prescribed instructions.

The warranty excludes any damage from improper treatment, assembly or indirect damages. Costs for repair performed without our consent is not replaced by us.



## Description

The towel rails from Somatherm are made of superior steel pipes with a polished chrome finish. The rail is filled with a liquid which is heated by a heating element. The fluid circulates within the steel pipes and provides even heating throughout the dryer.

The towel rail is **designed for continuous operation**, but can of course be switched on and off.

**S/ST** – these models have a switch in one of the low wall brackets and a LED that indicates when the dryer is on or off. The ST model also has a built-in preset thermostat.

**RS** – this model has a dimmer switch that allows the effect on the towel rail to be customized.

Turn the knob button clockwise to start the towel rail and to increase the heat. Turn the knob button counterclockwise to reduce the heat or turn off the dryer. The light next to the knob indicates that the towel heater is on.

**BC** – with the BC model temperature can be easily adjusted with the push of a button. Choose between five different levels starting from 20 % to 100% of the effect on the towel rail. It also has a built-in timer with five time intervals from 2h to 10h.

**COMBI** – this combination model has both electricity and water connection. The water connections are linked to the existing radiator system. The model is water heated when the central heating is on and electrically powered when the central heating is off. The water connection is intended only for the two-pipe system. **NOTE!** Water connection is a European standard, ie 50mm c/c between the pipes.

At the commissioning of the towel rail it is important that the towel rail is completely filled with water. Remove air using the bleed valve on top of the towel rail. When water seeps out of the valve the dryer is completely filled with water.

### NOTE! Very important!

The heating element must not be turned on until the dryer is completely filled with water. Venting of the towel rail may need to be performed on a recurring basis because of its location relative to the radiators. The towel rails can collect air from the entire system.

## Assembly

The towel rails must be mounted with the heating element at the bottom of the towel rail.

CM / CMB / LS = Straight pipes , rotating electrical connection for right or left mounting.

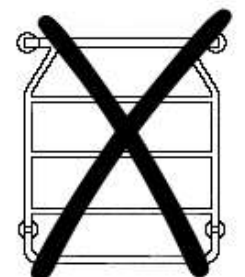
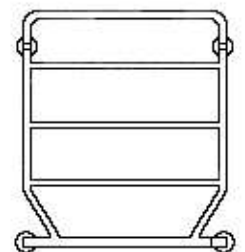
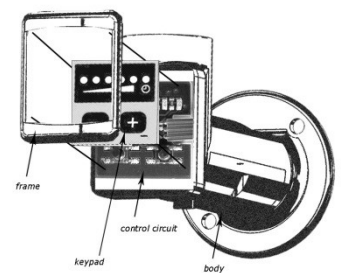
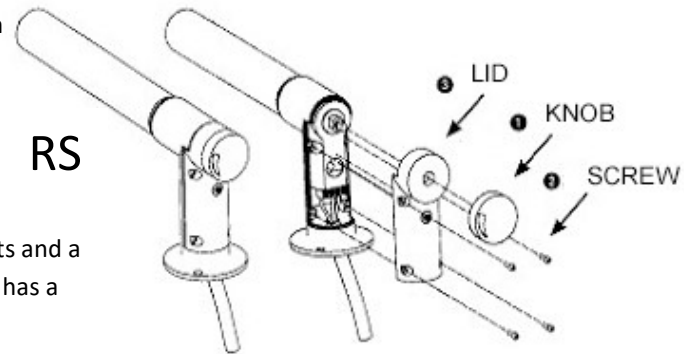
LSV = Arched pipes , electrical connection to the left.

LSH = Arched pipes , electrical connection to the right.

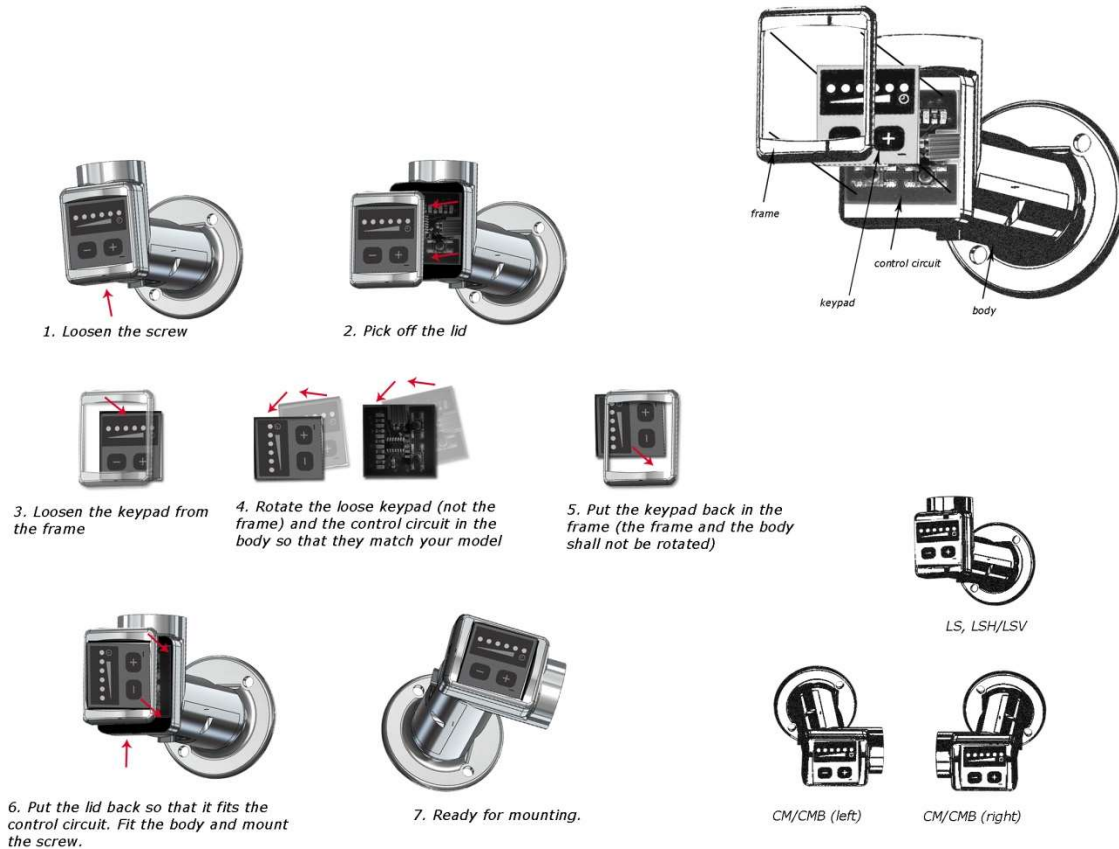
COMBI LS = Electrical connection on the right or left side with the water valve on the opposite side .

COMBI LSH = Electrical connection right & water valve left.

COMBI LSV = Electrical connection left & water valve right.



## Programming and adjusting the BC model



### Programming

#### Start the towel heater

Press the power button to start the towel heater. The first LED flashes (no heat).

To get the towel rail heated press **+**. When the first LED is turned on this indicates that the heat is on. The towel rail can be programmed to use between 20% to 100% of its total effect.

The effects of the towel rail are as follows when the LEDs are turned on:

1 LED: 20% 2 LED: 40% 3 LED: 60% 4 LED: 80% 5 LED: 100% of the total effect of the towel rail.

To increase the temperature press **+** and to decrease the temperature press **-**

#### Timer (Booster)

The timer is preset to 2 hours from factory. To change this press and hold **+** & **-** at the same time. After about 5 seconds the first LED will turn on (2h) and after about 10 seconds the second LED will turn on (4h) and so on.

1 LED: 2h 2 LED: 4h 3 LED: 6h 4 LED: 8h 5 LED: 10h

#### Start the timer

To start the timer press and hold **+** for about 5 seconds. The timer LED begins to glow and the towel rail will be heated according to the chosen program. To change the effect when the timer is on (preset to 100% from the factory), press and hold the **-** button. After about 5 seconds the first LED is turned on (20% of the total effect). After about 10 seconds another LED will turn on (40%) and so on according to the figures presented above.

# Electrical Safety, IP Ranges and IP Zones

For guidance of installations in wet rooms, the bathroom is divided into three zones. Each of these zones are subject to special rules and regulations. All electrical items should also be labeled with an IP rating which indicates the degree of protection against access to live parts and how water-and dust-proof it is.

## Space designated for bath or shower, protective measures

	Area 0	Area 1	Area 2	Area not classified
Protective measure: Automatic disconnection	No	Yes	Yes	Yes
Protective measure: Double or reinforced insulation	No	Yes	Yes	Yes
Protective measure: SELV	Yes a)	Yes	Yes	Yes
Protective measure: PELV	No	Yes	Yes	Yes
Protective measure: Protective separation	No	Yes	Yes	Yes
Lowest protection class	IP X7	IP X4 b)	IP X4 b)	IP 2X c)
Outlet	Not allowed	Allowed d)	Allowed e)	Allowed f)
Switching, control and protection devices	Not allowed	Junction boxes for electrical appliances in area 0 och 1	Other electrical installation materials than outlets	Allowed
Electric appliances	In accordance with conditions in g)	In accordance with conditions in h)	Allowed	Allowed

## IP classes

Below is an explanation of the different IP classes.

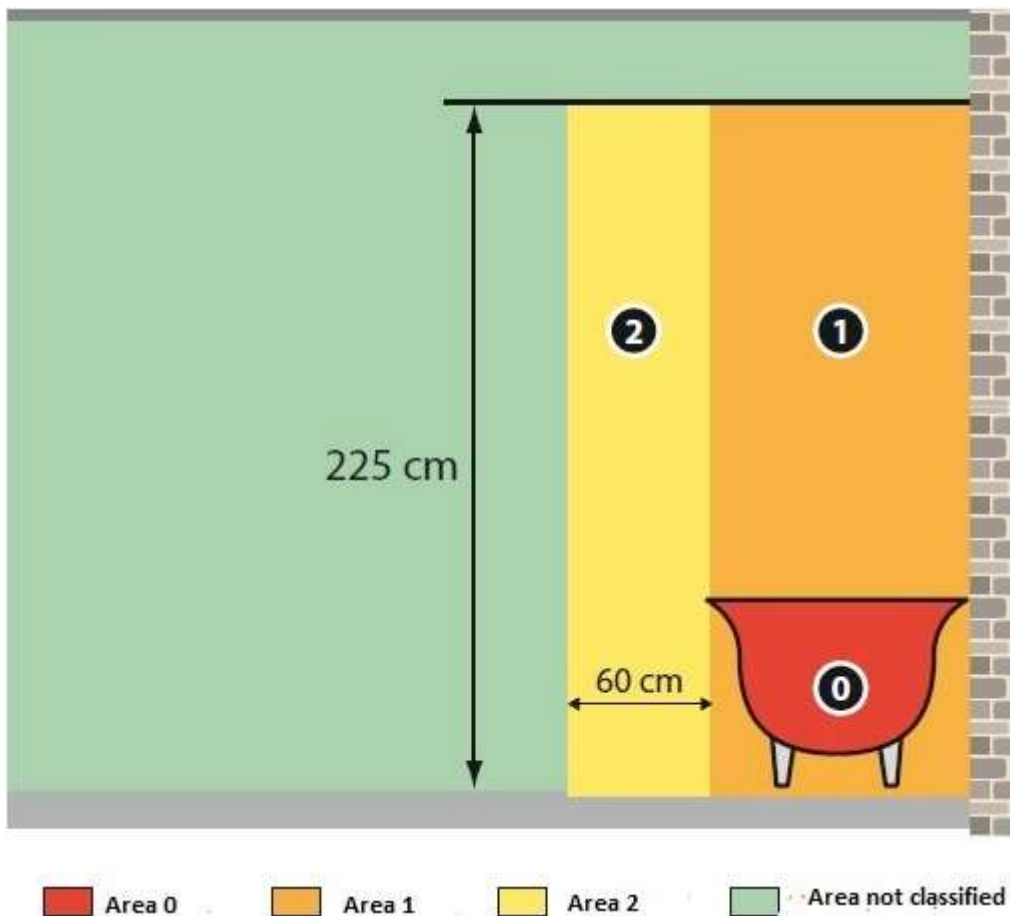
### First digit (protection against live parts)

0	No protection
1	Child protection against objects larger than 50mm
2	Child protection against objects larger than 12mm
3	Child protection against objects larger than 2,5mm
4	Child protection against objects larger than 1mm
5	Dust protection
6	Dust proof

### Second digit (protection against water)

0	No protection
1	Protection against dripping water.
2	Protection against dripping water. The unit may not lean more than max 15° from normal.
3	Protection against spraying water. Max angle 60°.
4	Protection against spraying water. Protected against spraying water from every angle.
5	Protection against water spray from the nozzle.
6	Protection against severe overwash of water.
7	Can be immersed temporarily in water without damage.
8	Suitable for continuous immersion in water.

**Example:** IP44 is child protected for objects larger than 1mm in diameter and can withstand spraying water from all angles.



- a) Maximum allowable voltage 12 V ac or 30 V dc . The power source should be installed outside the range 0 and 1.
- b) Electrical materials exposed to water spray, for instance when cleaning the public baths , at least have protection class IPx5 .
- c) Applicable in the parts of the unclassified area deemed as a dry area.
- d) Only outlet that is protected through the use of SELV or PELV whose rated voltage do not exceed 25 V.
- e) Only outlets protected by the use of SELV , PELV or protective separation.
- f) Withdrawal shall be protected by RCDs with a maximum of 30 mA rated tripping current .
- g) Electrical equipment may be installed only if they also :

- Complies with the relevant standard and are suitable for mounting in the area according to the manufacturers instructions for use and assembly
- Are permanently mounted and wired
- Is protected through the use of SELV whose rated voltage do not exceed 12 V ac or 30 V dc.

h) In area 1 only permanently mounted and permanently connected appliances may be installed. They shall be suitable to install in area 1 according to the manufacturers instructions for use and installations. Such electrical appliances are for instance:

- Whirlpool tub
- Shower pumps
- Material that is protected by SELF or PELV whose rated voltage do not exceed 25 V ac or 60 V dc
- Ventilation equipment
- Towel rails
- Water heaters
- Luminaries

**Somatherm towel rails may be placed in zone 1 in the picture above. Zone 1 is the space that is located within the shower or bathtubs limit line. In a shower without a tub a distance of 1.2 meter from the shower head is regarded as Zone 1. The area is otherwise restricted by floors and ceilings.**

We reserve the right to make changes in design and construction.  
We make reservations for misprints and deviations.

Mailing Adress AB Somatherm  
Bangårdsgatan 1  
671 31 ARVIKA  
Sweden

Visiting Adress AB Somatherm  
Bangårdsgatan 1  
671 31 ARVIKA  
Sweden

Phone +46 570 72 77 50

Fax +36 570 191 68

Website [www.somatherm.se](http://www.somatherm.se)

E-mail [info@somatherm.se](mailto:info@somatherm.se)