the new way of having a shower

two

me

My name is Florian Wahl. I am a third-year student at the Hochschule für Gestaltung in Schwäbsch Gmünd in Germany. I started to study industrial-design in 2005 an will finish it in the summer 2008.
Before I started my studies I did a carpenters education for three years. In this time I did a lot of kitchen an furniture and I'm still interested in this things.
So I decided to choose this project as my main project during my exchange-semester in Lahti in Winter 2007. I worked together with the fourth-year-students from Lahti.
I liked the project and perhaps I will go on with something familiar in my final-work next semester.

florian wahl
florian.wahl@hfg-gmuend.de
+49 179 5487856

in cooperation with

lahti university of applied sciences
ORAS LTD

four

there is always something new!

it’s just difficult to find!

six

content

contact **four**

there is always something new! **five**

content **six**

research oras **ten**

water is worth loving **twelve**

task **fourteen**

where is water used **sixteen**

targetgroup **eighteen**

concepts concept one **twenty-two**

concept two **twenty-four**

concept three **twenty-six**

concept four **twenty-eight**

new range shower panel **thirty-eight**

hand shower **fifty-four**

faucet **sixty**

resea

eight

rch

ten

oras

Oras is the Scandinavian market leader and one of Europe’s largest manufacturers of faucets. The Group has production facilities in Finland, Norway and Poland plus sales offices or agencies in most European countries. Group Headquarters are located in Rauma, Finland. Oras is a family-owned company, which allows them to work in a consistently independent manner. Oras develops, manufactures and markets user-friendly and innovative faucet systems and the related valves and modules.

Oras relies on decades of experience in designing faucets and using a variety of materials, as well as on solid expertise in software and hardware, when developing and manufacturing user-friendly products.

(www.oras.com)

twelve

water is worth loving

In future water will be the most precious natural resource in the world. To save water will be the most important task all over the world now and in future times.

by sonarespana (http://www.flickr.com/photos/10339908@N00/179777724/)

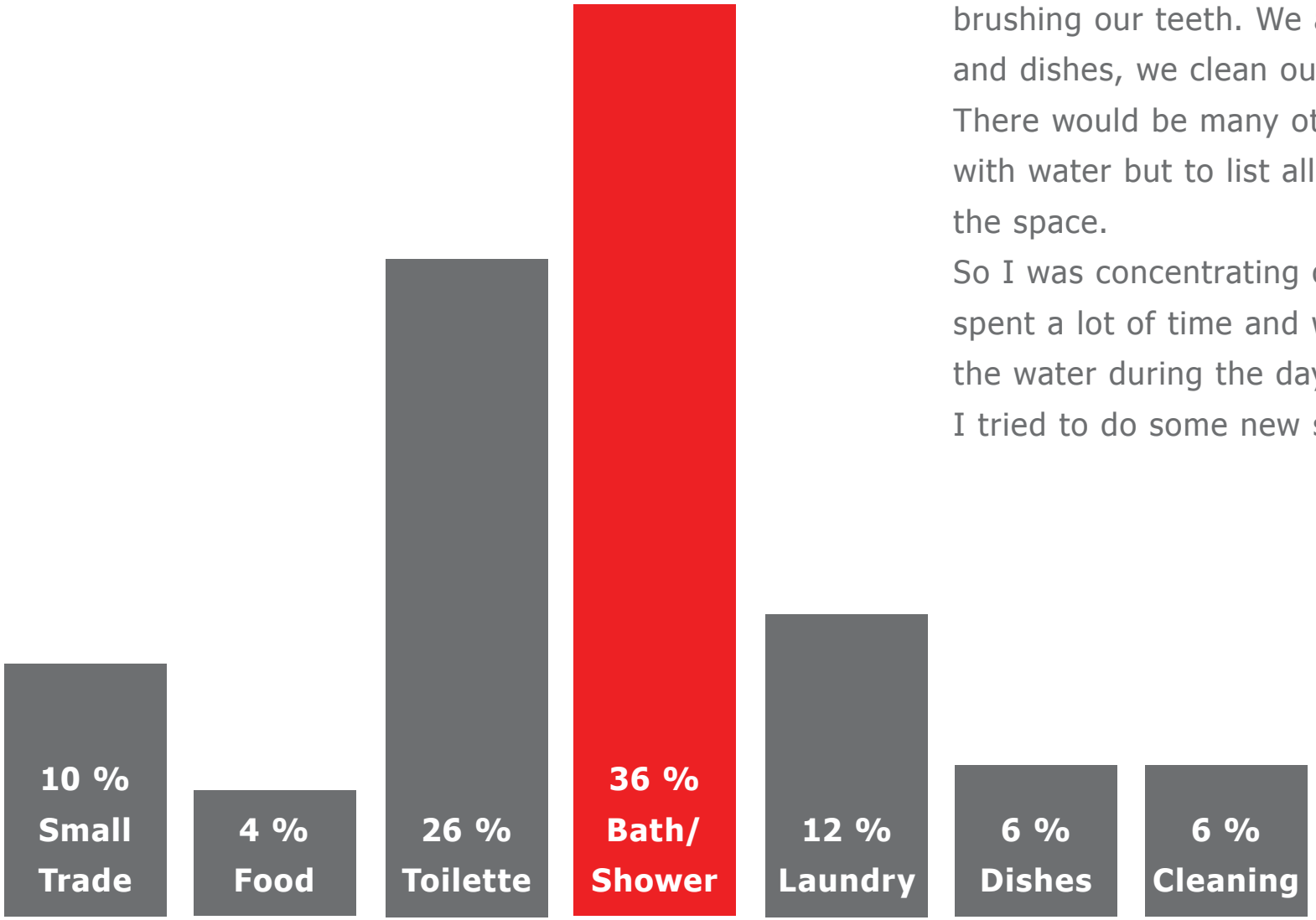
fourteen

task

The task in this project was to find new ways of using water. During the first briefing at the oras headquater they showed us some new technologies which we should use in the new products. So I tried to find new purposes and needs of different user groups. I tried not to design a new faucet or shower, but tried to develop really never seen ways of using water.

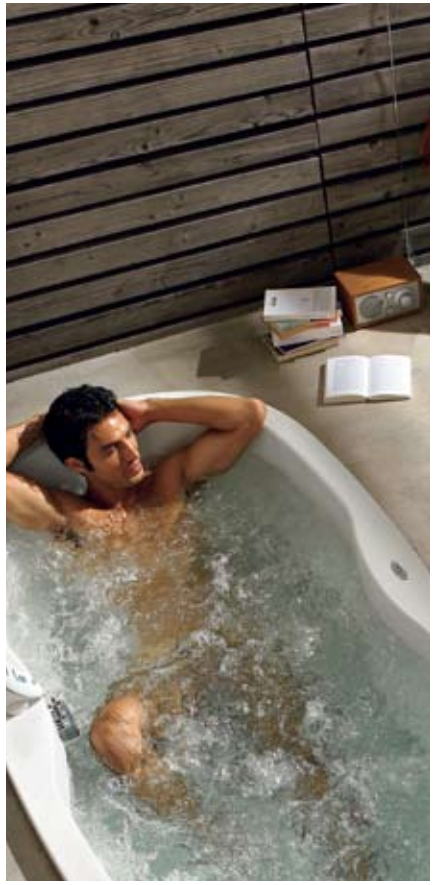
Water consumption in
german households

sixteen



where is water used

In our normal live we use water all over the day. We are having a shower in the morning or are brushing our teeth. We are washing our clothes and dishes, we clean our hands and cars...
There would be many other things we are doing with water but to list all of them I don’t have the space.
So I was concentrating on this place where we spent a lot of time and where we use most of the water during the day.
I tried to do some new stuff for the bathroom.



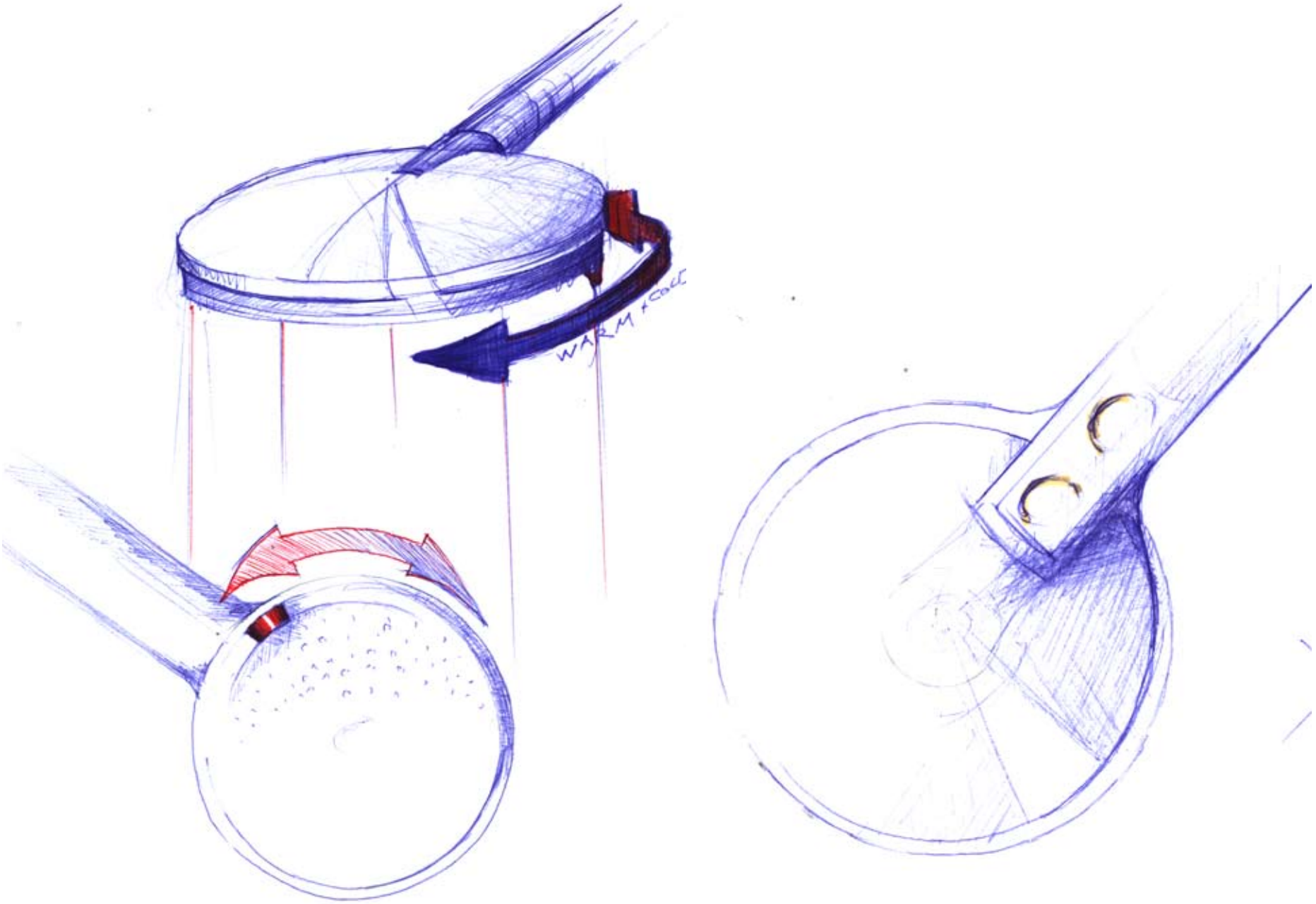
targetgroup

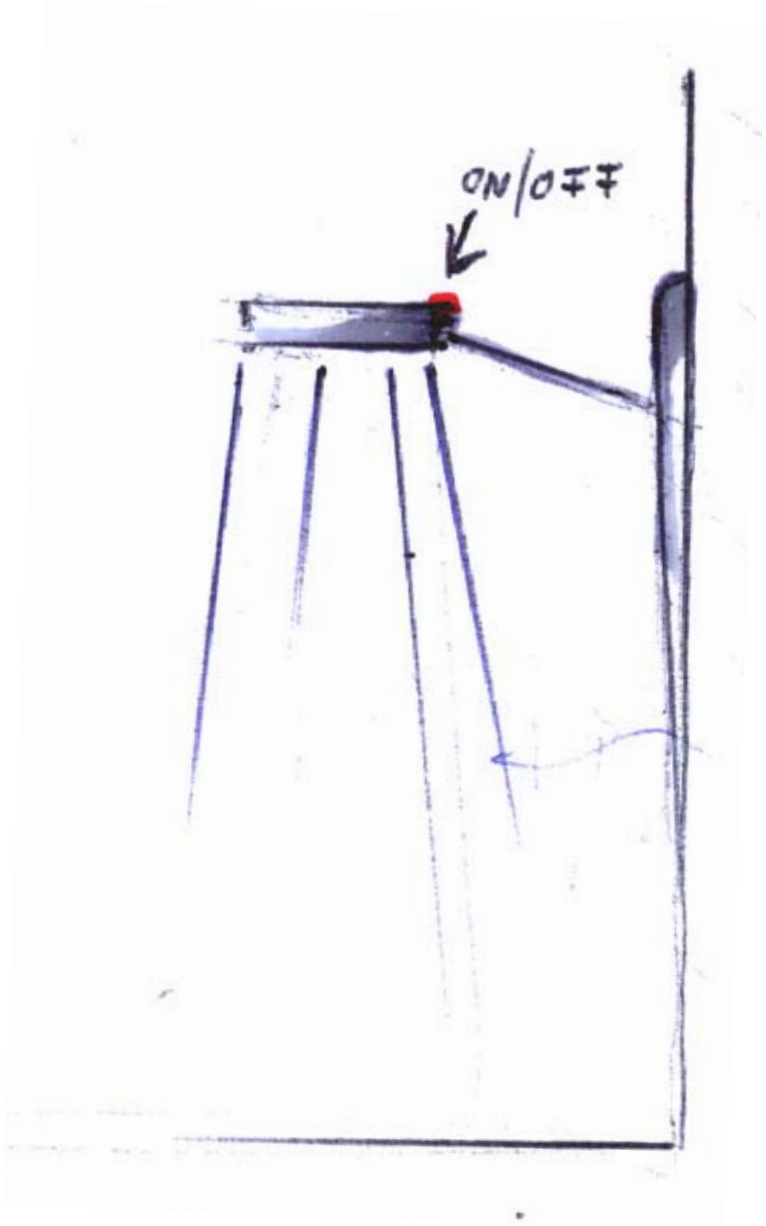
The range of oras is very widespread. There are products for everyone. It starts from cheap faucets for everybody and ends by the high end luxury product for rich and design orientated people.
So in the beginning I was searching for new ideas all over the target groups. I made concepts for very small bathrooms as so concepts for people who wants something special without looking for the costs. In the end I decided to look for a new product range (line) for the luxury class. For people with special interests and the money to pay for it.

conce

twenty

pts


WARM + COLD

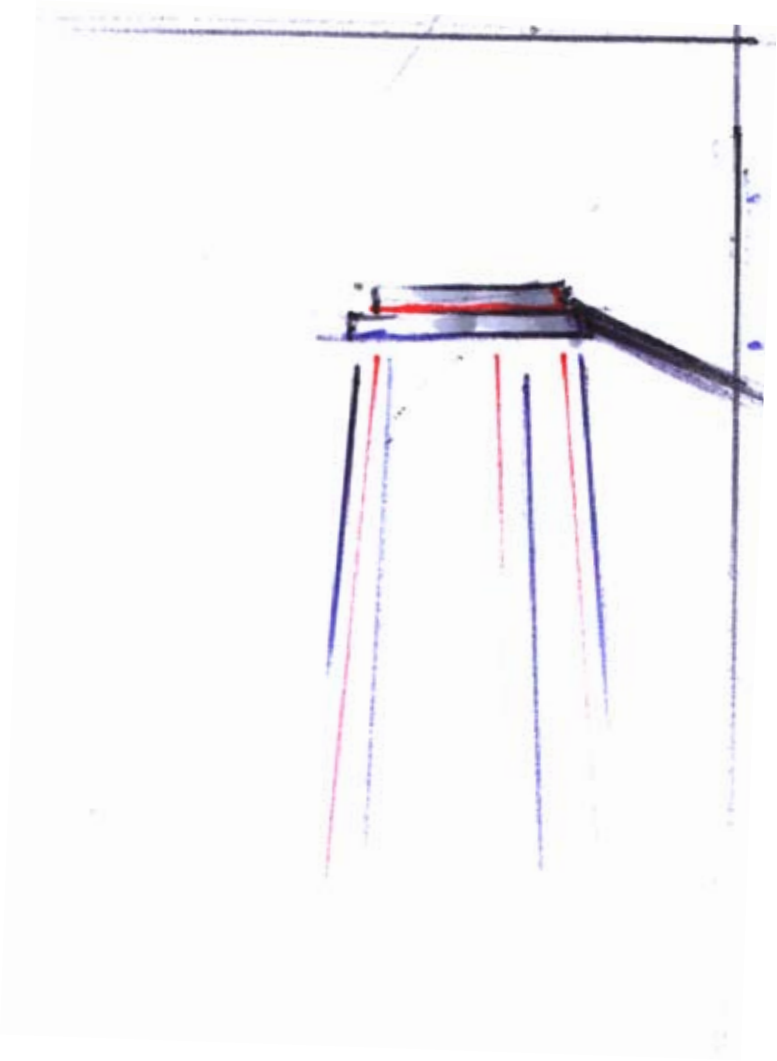


concept one

Small bathrooms with an normal faucet could cause problems because of little space. If you have a shower it happens that you hit the tap with the body and change thereby the temperature or the power of the water jet. If stopping the water, because you want to soap yourself you often also change the temperature accidently.

My idea was to start and stop the water direct at the shower head. You don’t have to have a faucet at the wall and you cannot change your settings unintentional.

twenty-four

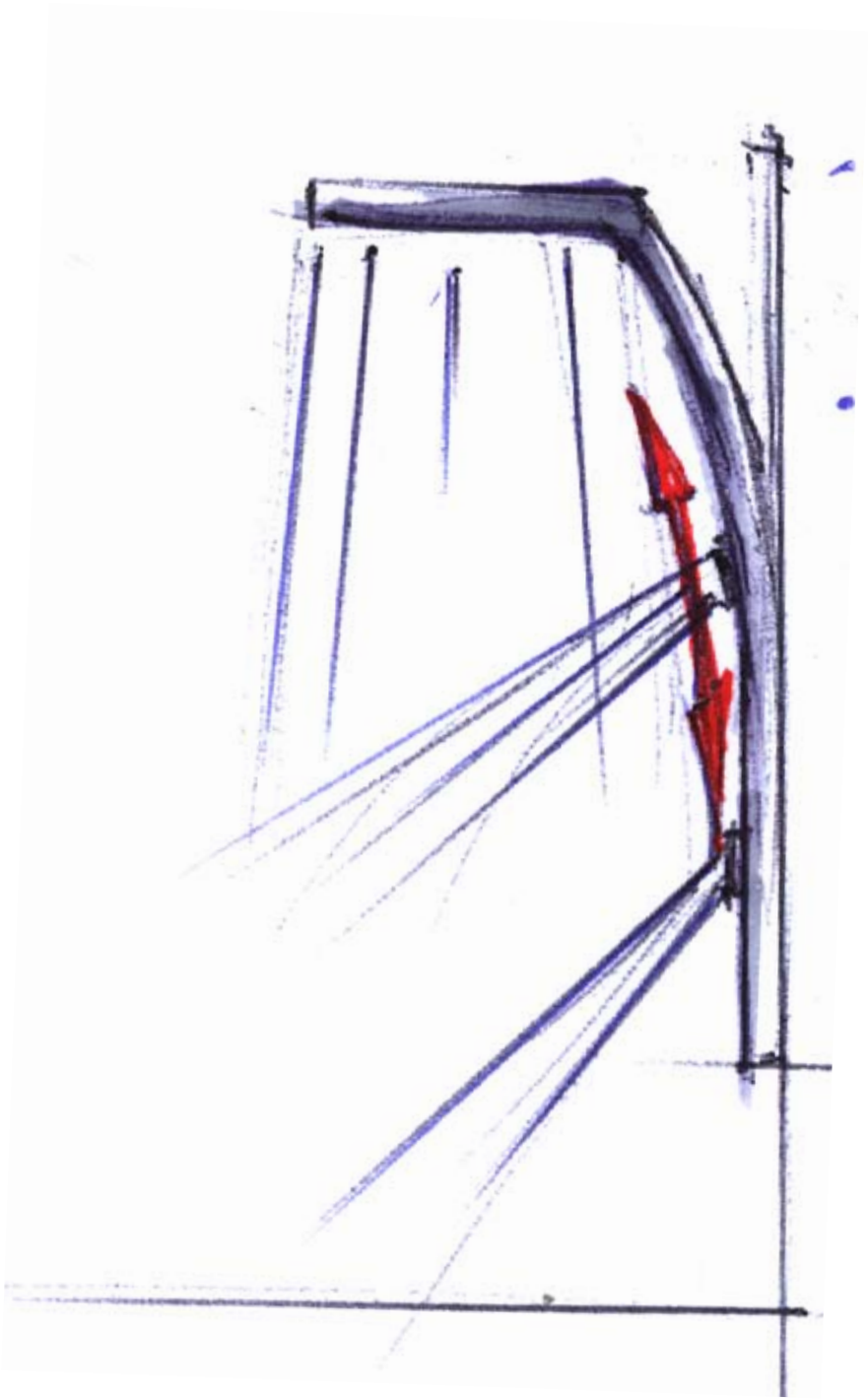


concept two

It is a concept for the wellness sector or people with special interests, for spa or public pools.

My idea was to mix the warm and cold water not in the tube but on the skin of the person having a shower. To get the person an extra-ordinary experience while having a shower.

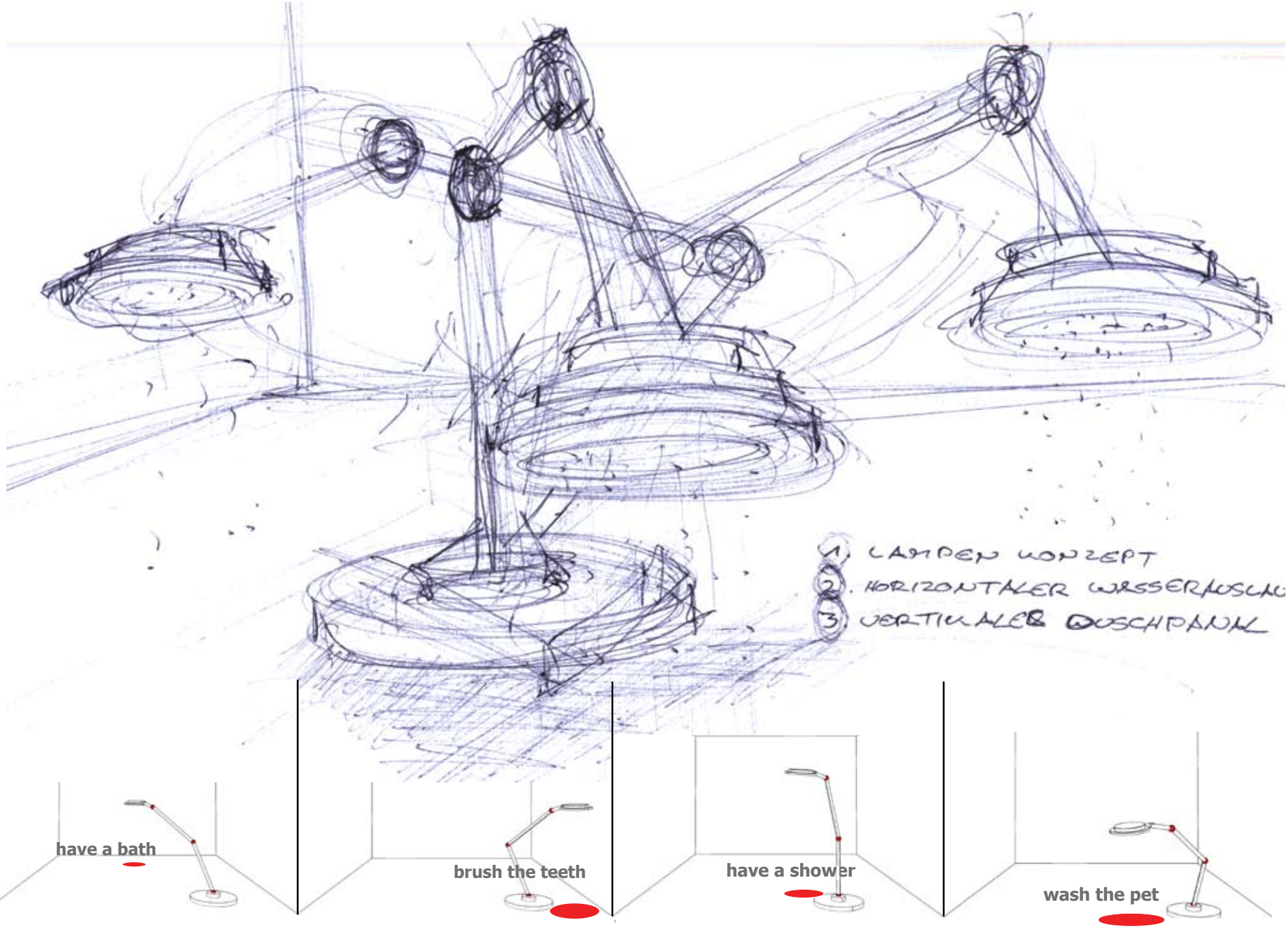
twenty-six

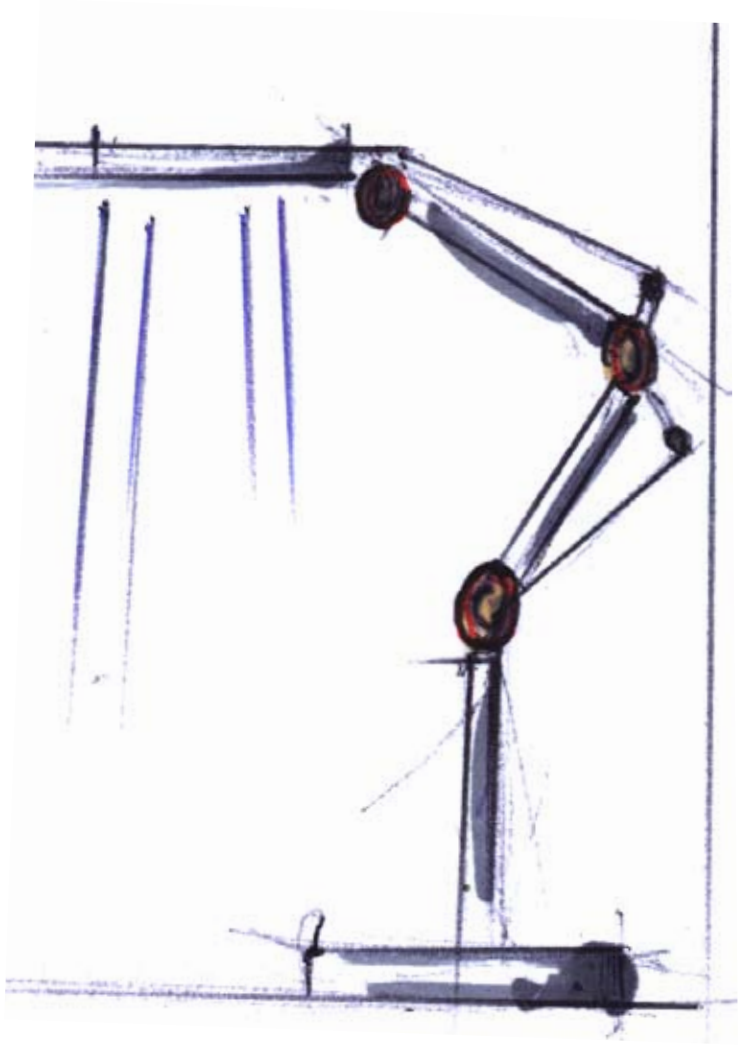


concept three

A shower panel which allows the user to regulate the high of the water jet freely and to get the water in the way he needs it. You don’t want to wash your hair but you cannot regulate the high of the shower or you want to have warmer water on your body as on your head.

With a touchscreen it is possible to adjust the water in exactly that way. You can have water only from the bottom part of the shower or get water at the same time to your head and feet.

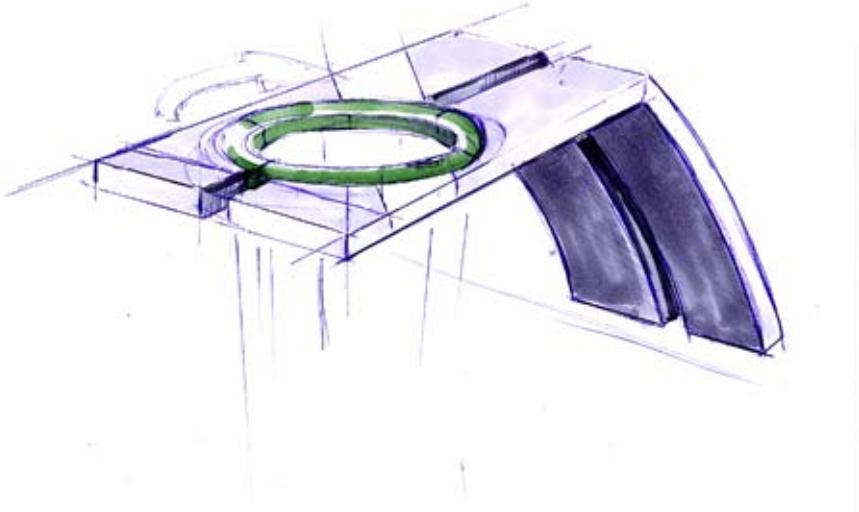

1. LAMPEN KONZEPT
2. HORIZONTALER WASSERSTRAHL
3. VERTIKALER DUSCHBRAUSE
have a bath
brush the teeth
have a shower
wash the pet

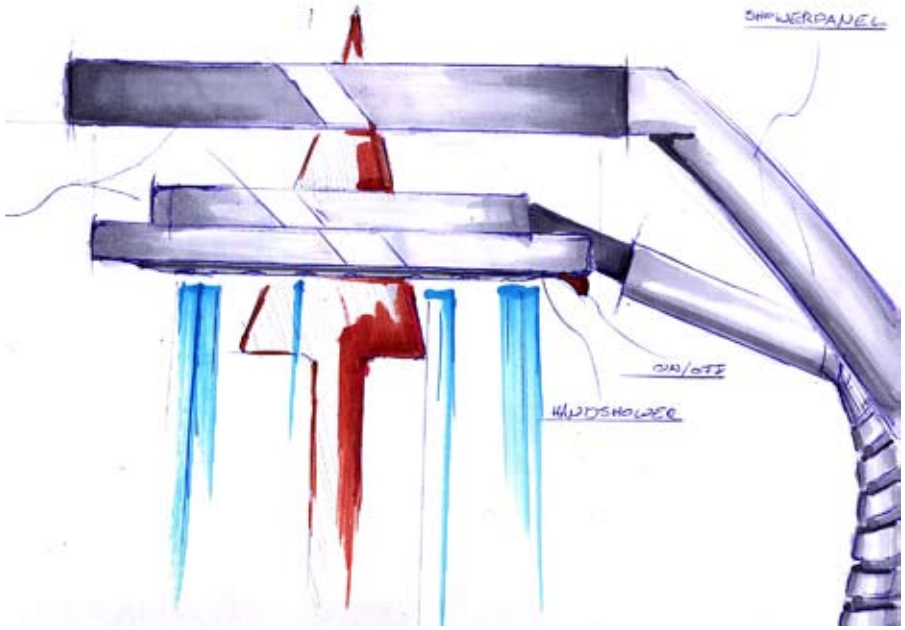


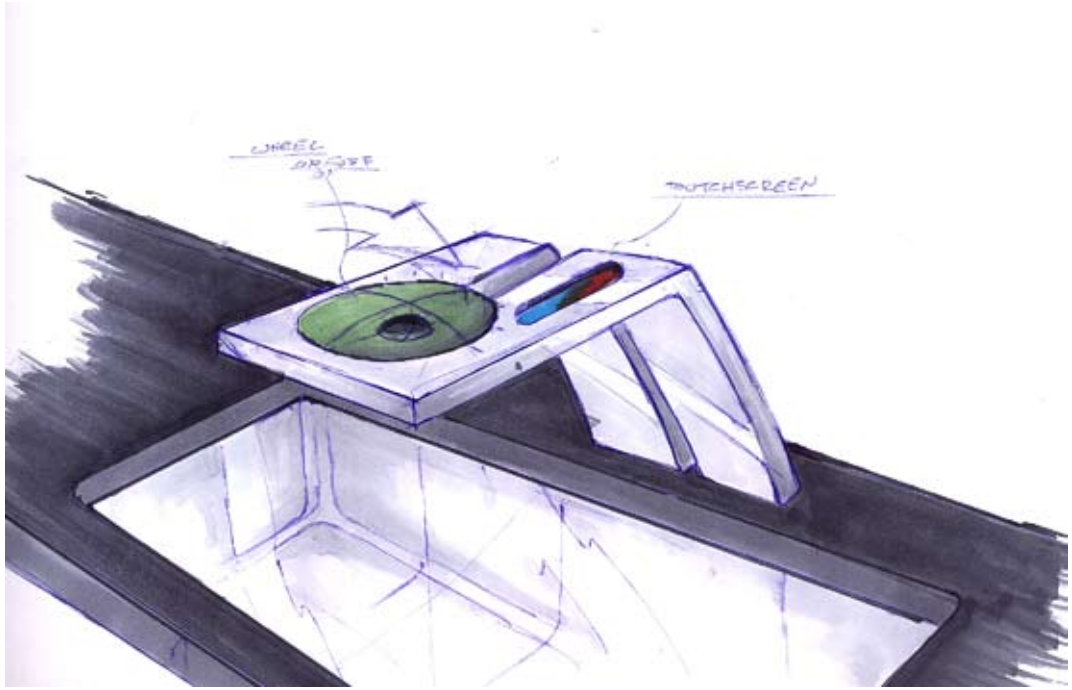
concept four

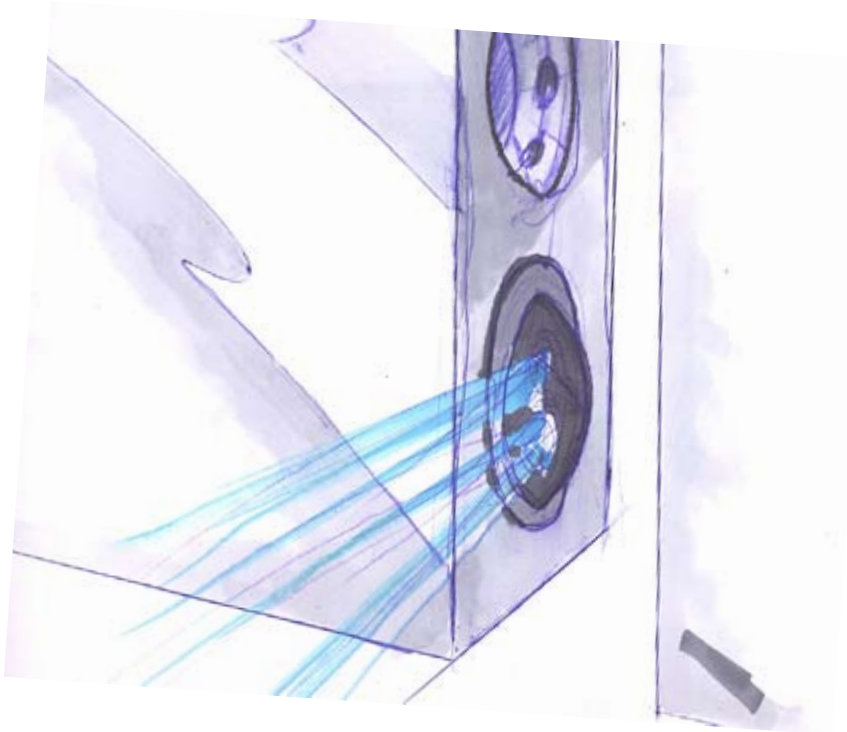
There are installations all over the bathroom. For the sink, the shower, the bathtub. This shower combines all of them and allows the user to decide where he want to have the water.

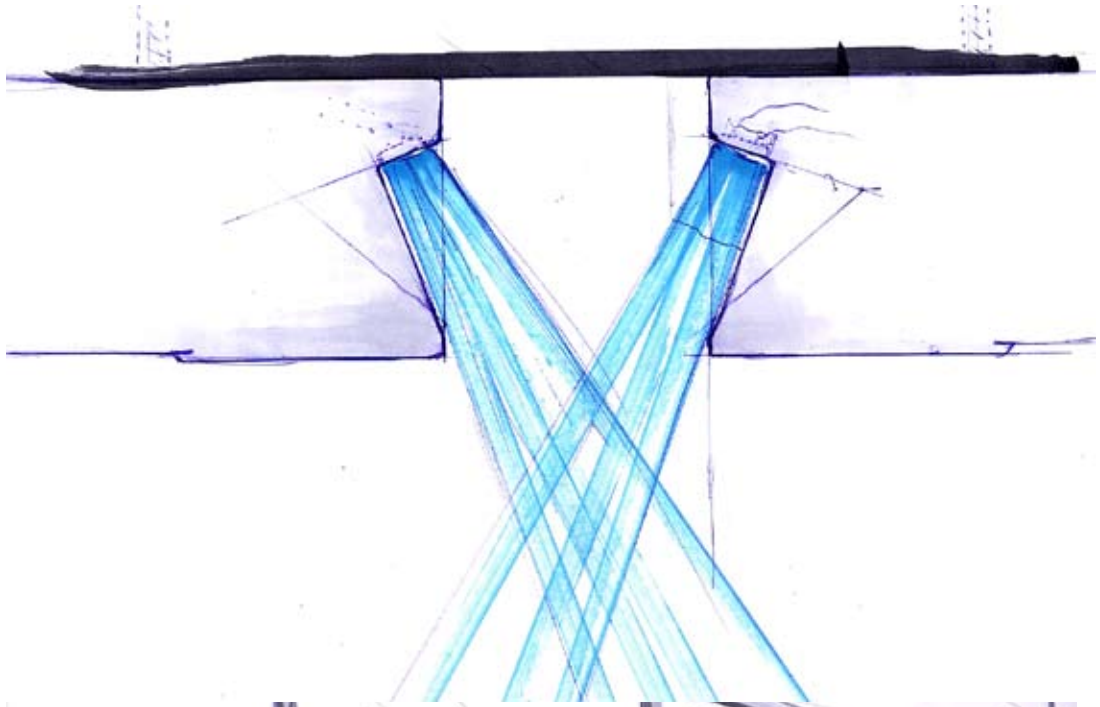
The idea was to have an flexible and perhaps modular system you can use everywhere in the bathroom. As a shower, faucet or use it for the bath tube.

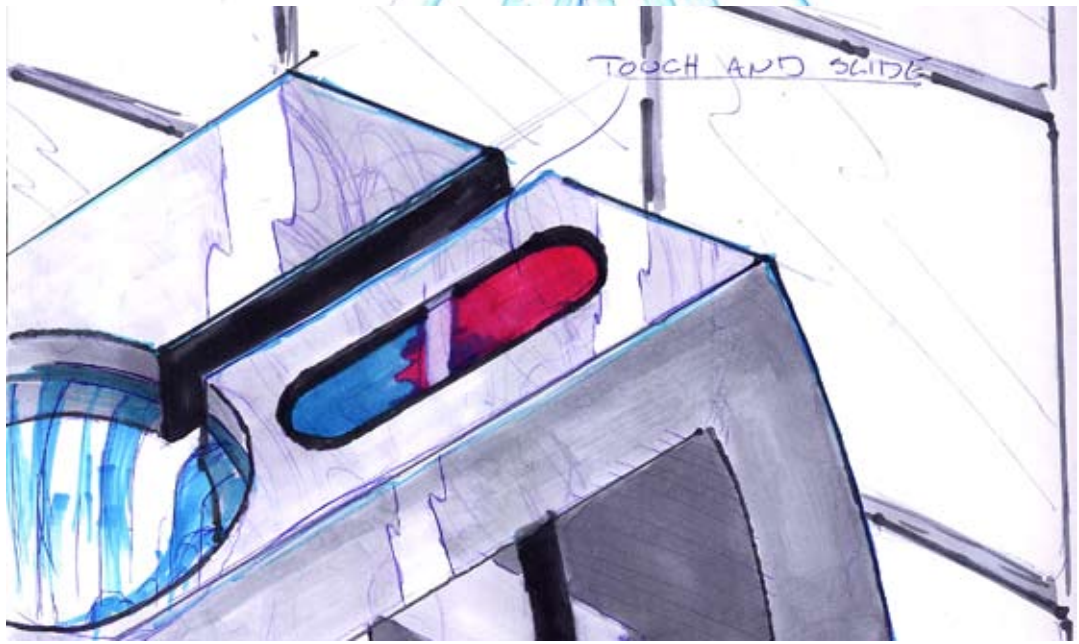



SHIPWIDEPANEL
ON/OFF
HANDSHOLDER

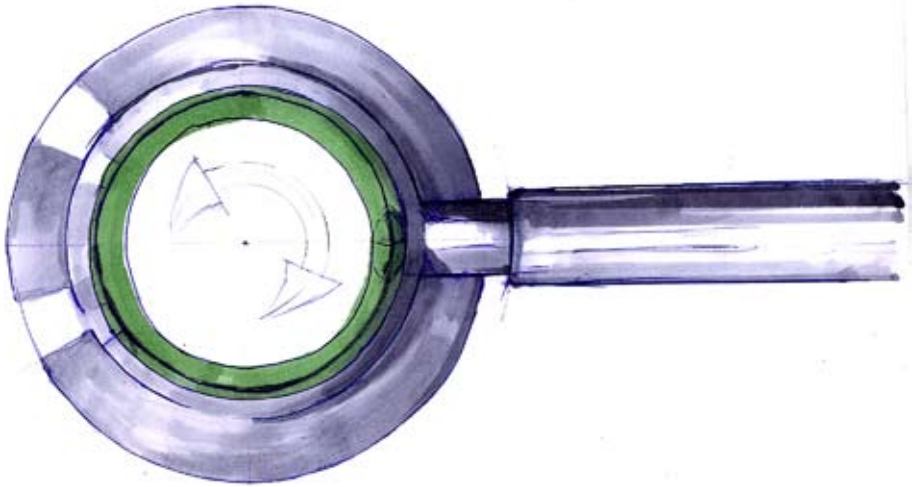

WHEEL
TOUCHSCREEN

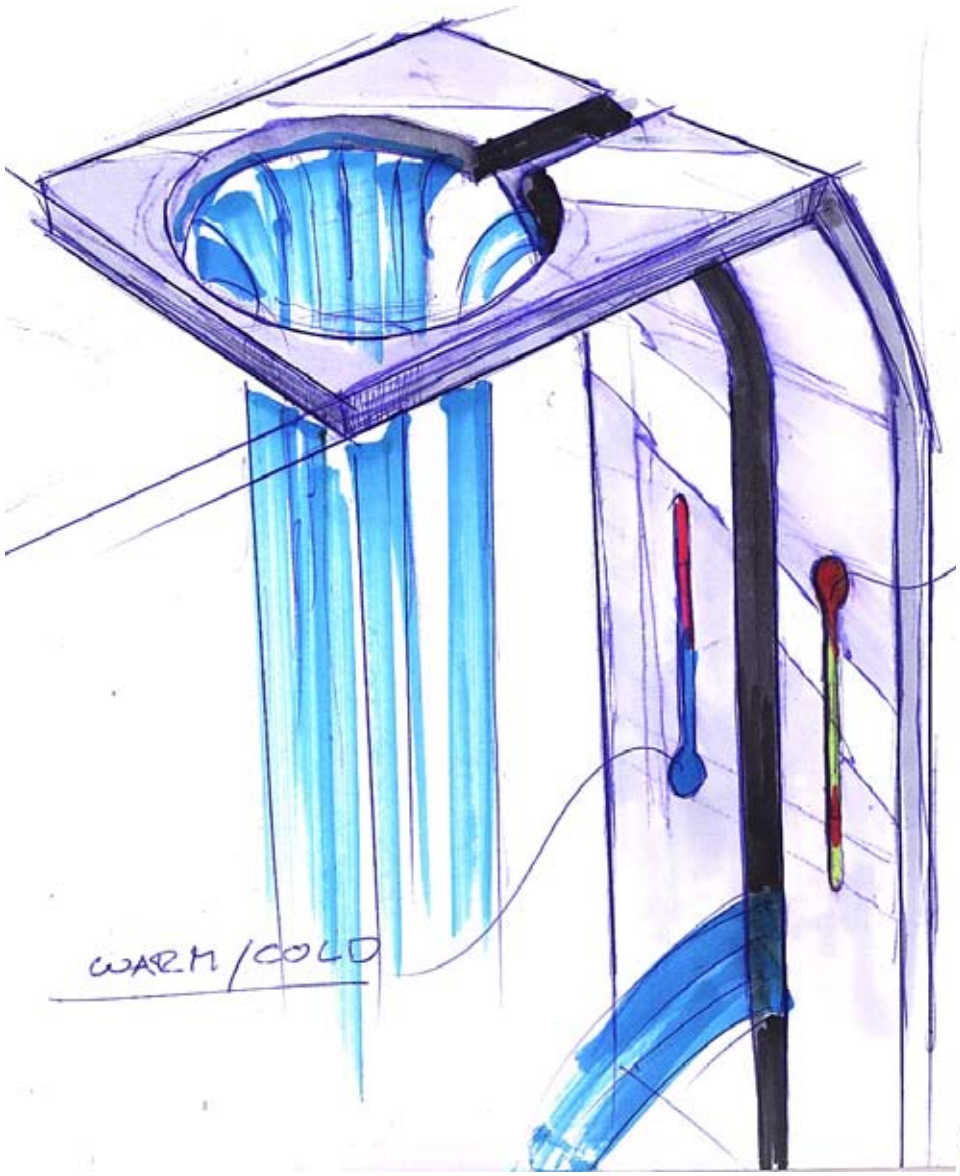


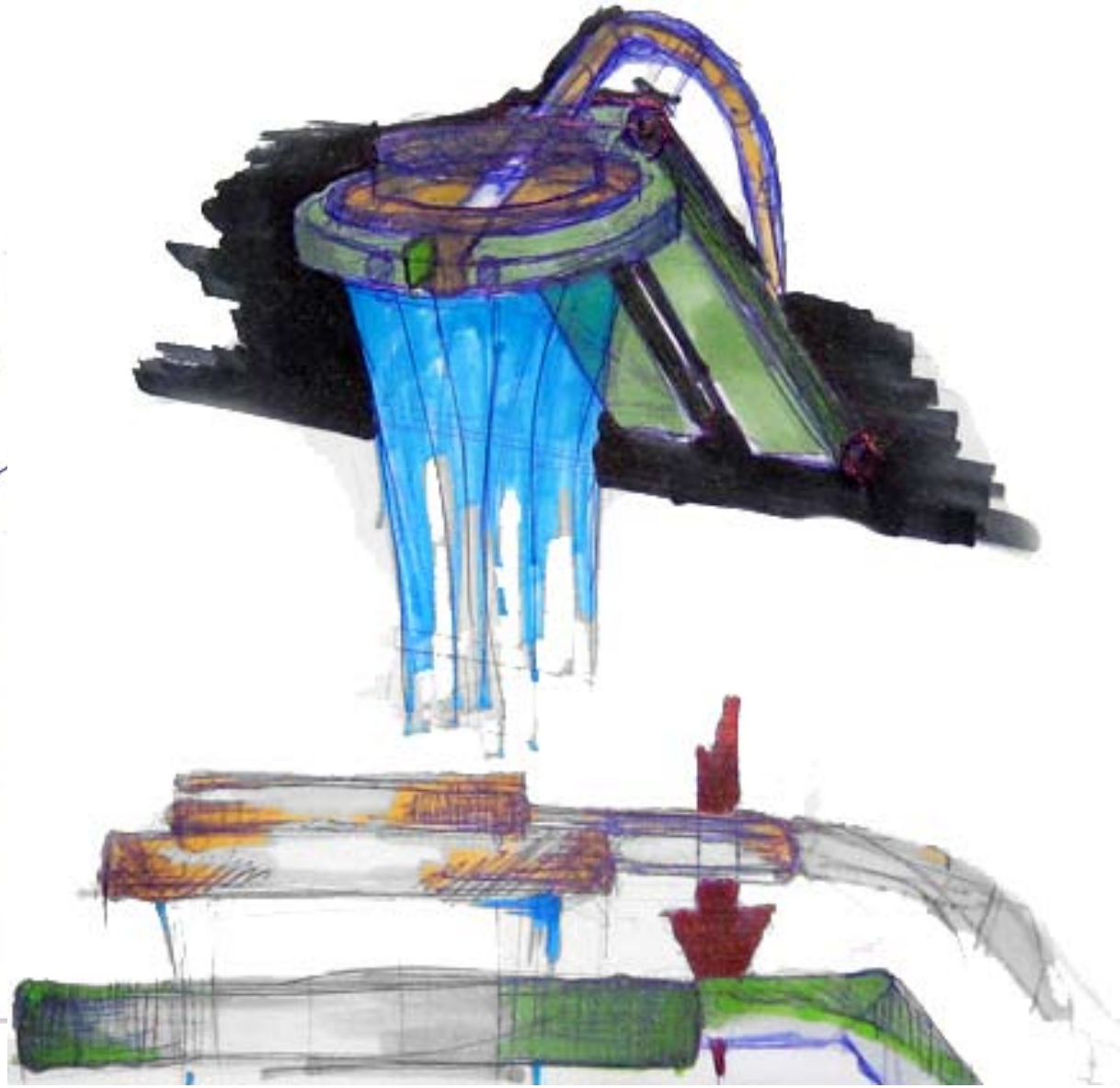


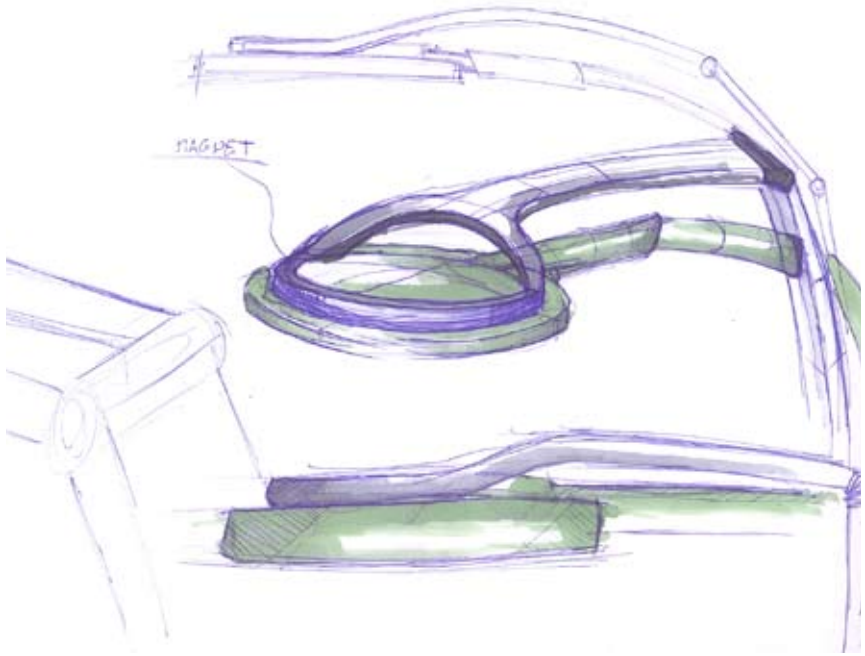

TOUCH AND SLIDE

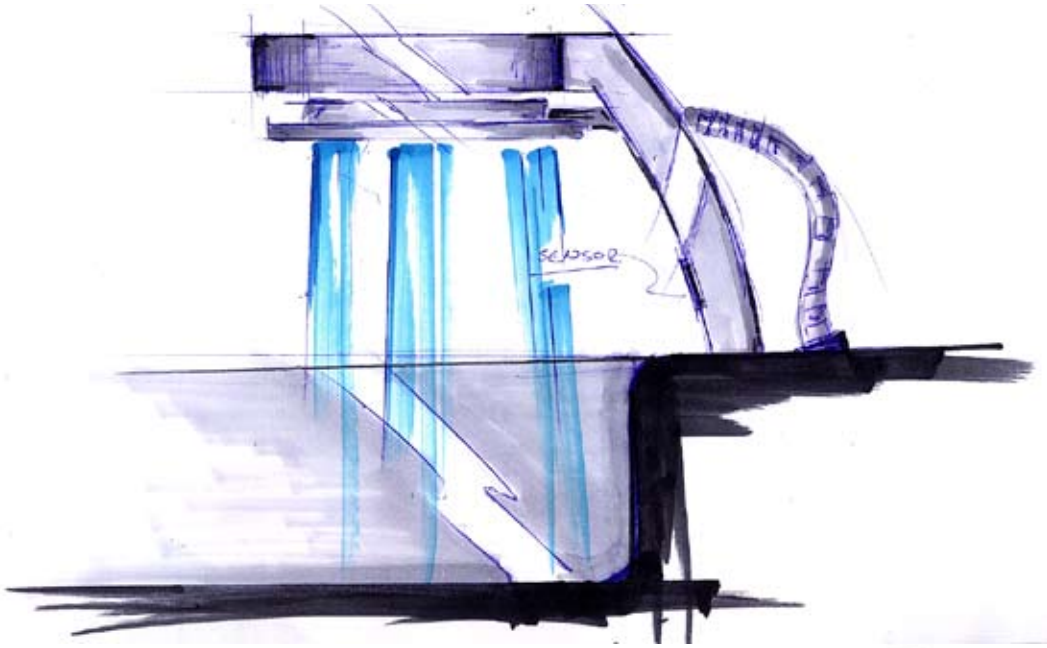
400
1800

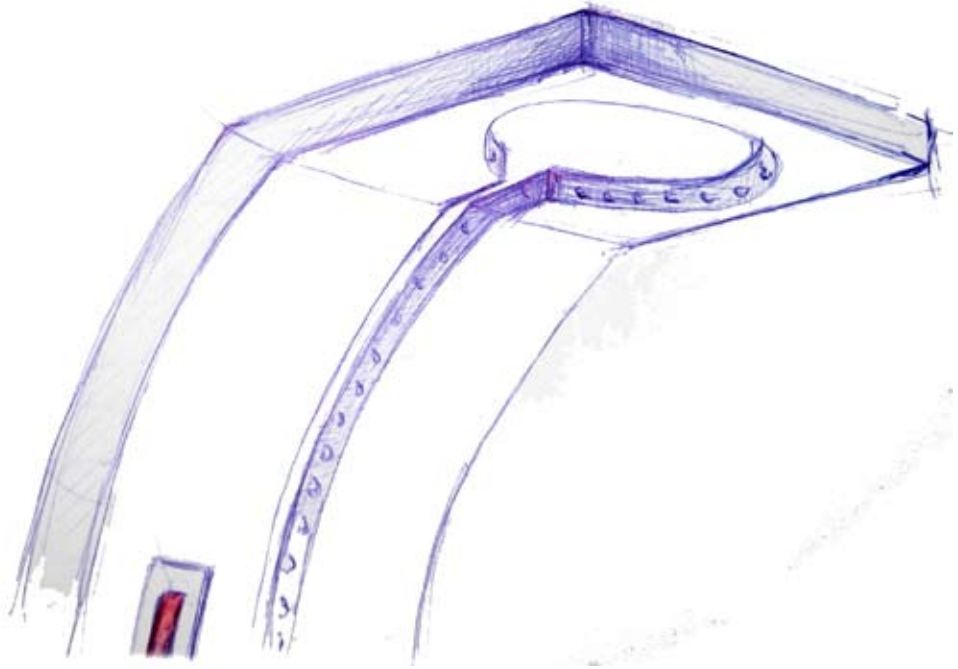


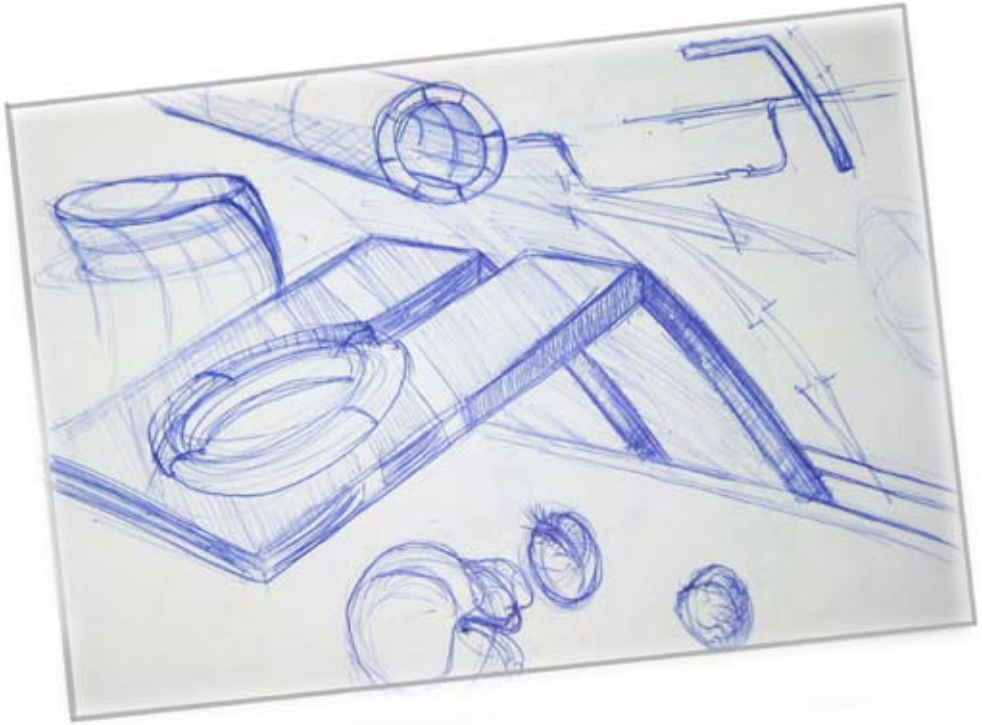

WARM/COLD




MAGNET

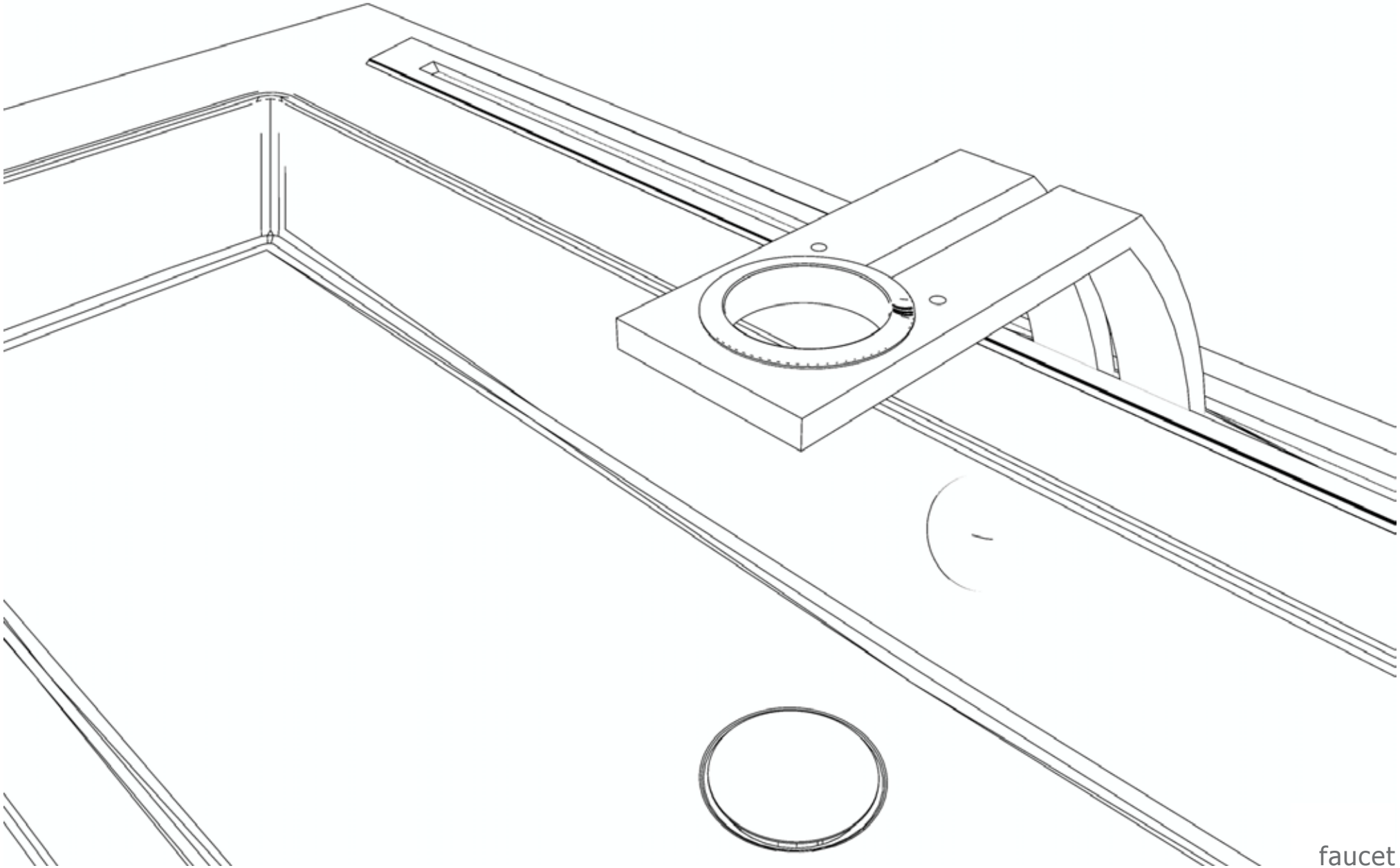

SENSOR





produ

ct line

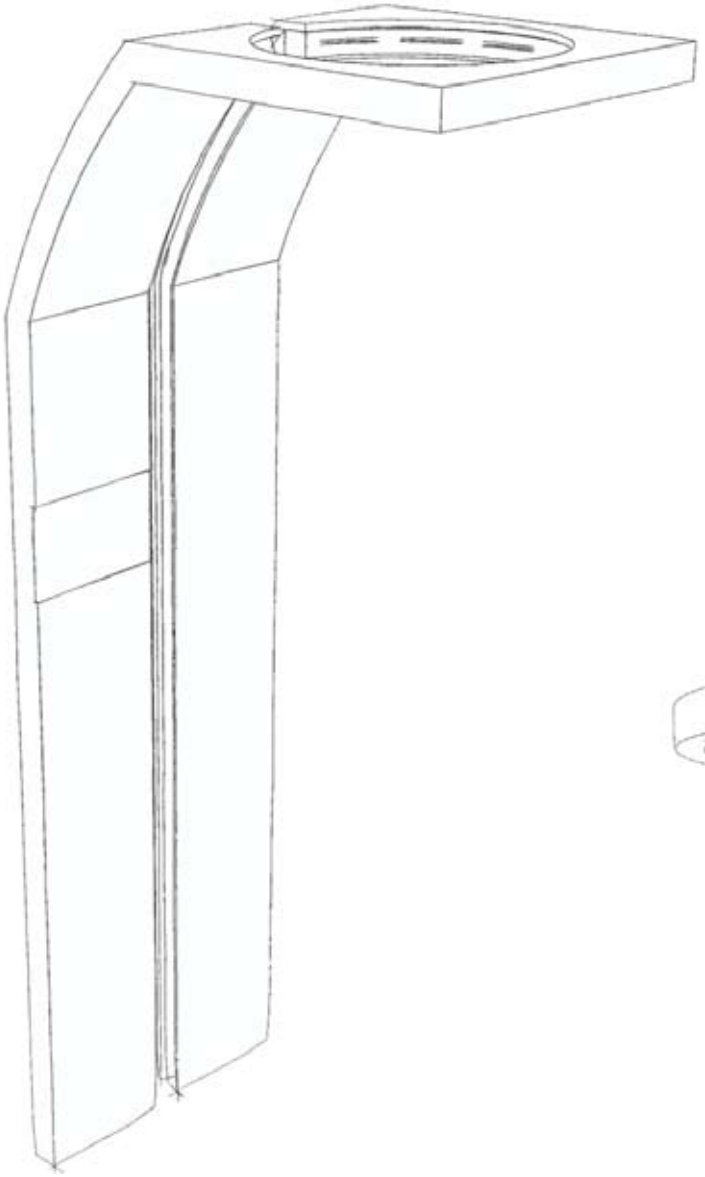


faucet

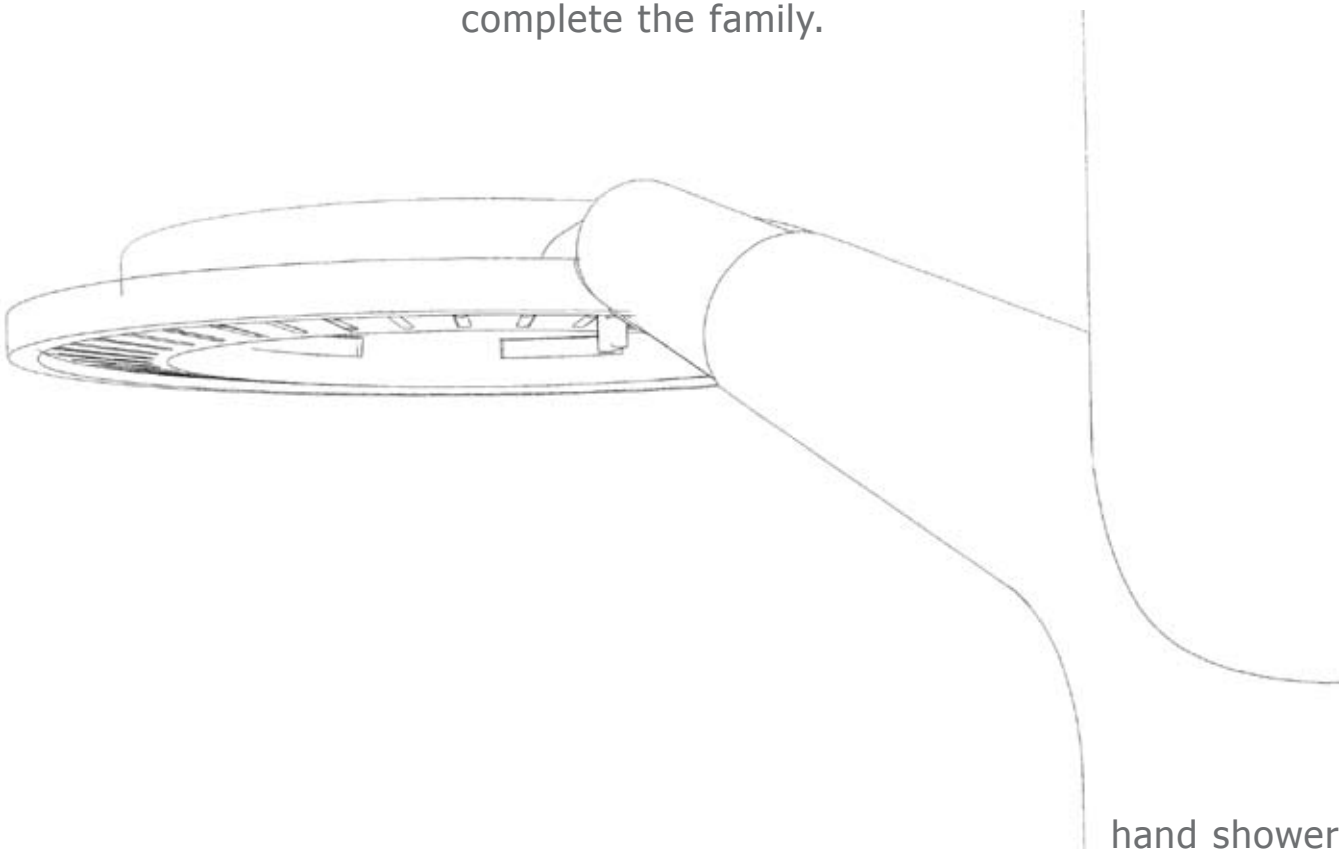
thirty-six

product line

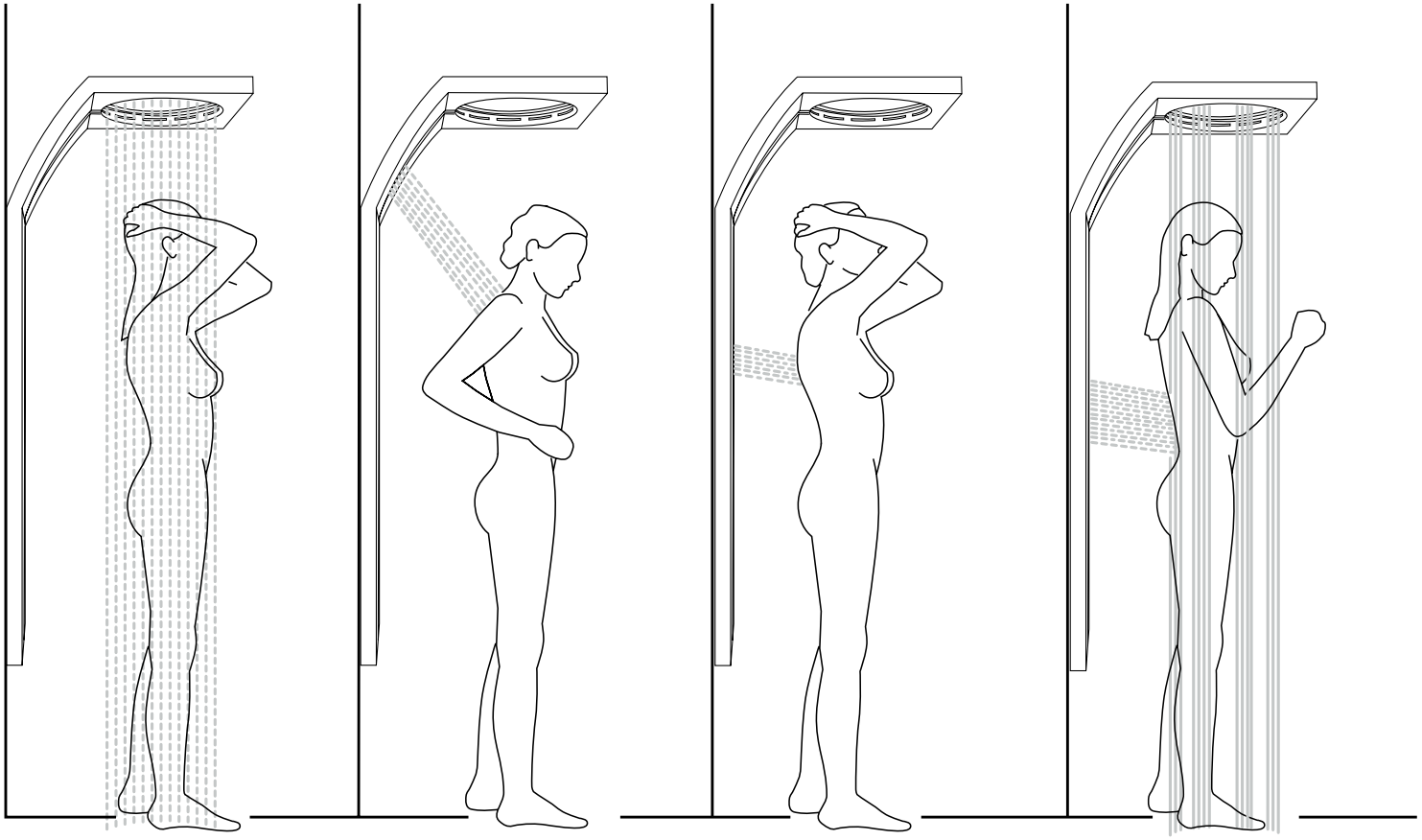
During the development of the concepts I decided to create a new product line for Oras.
The main concept I was going on with, was the shower panel (concept 3) and I combined it with the second concept.
Then I designed a hand shower and a faucet to complete the family.

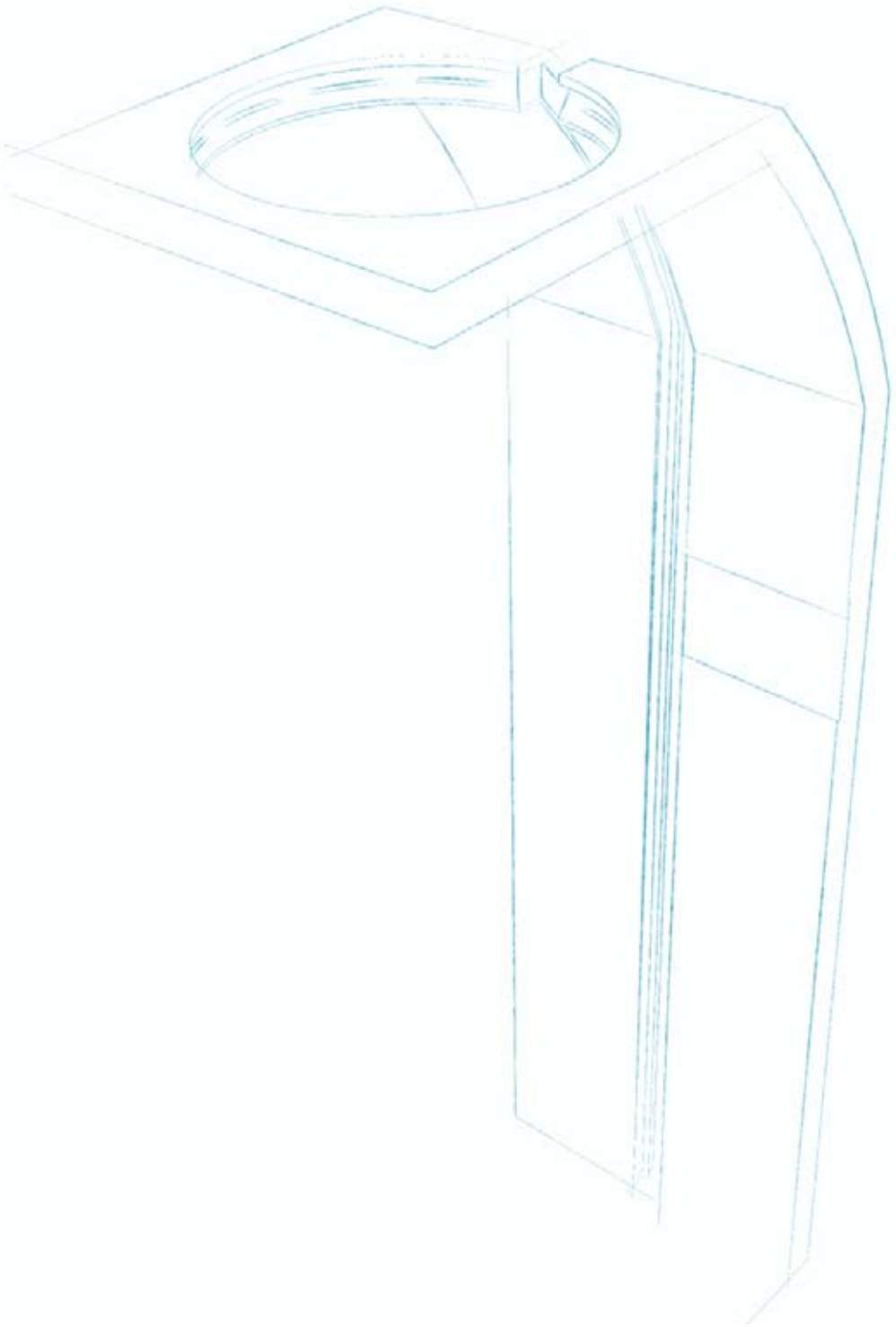


shower panel



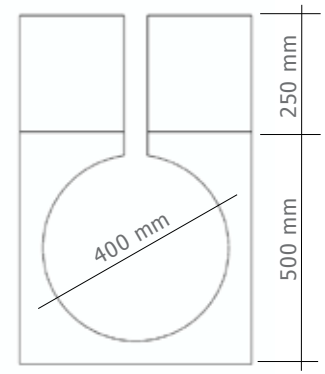
hand shower



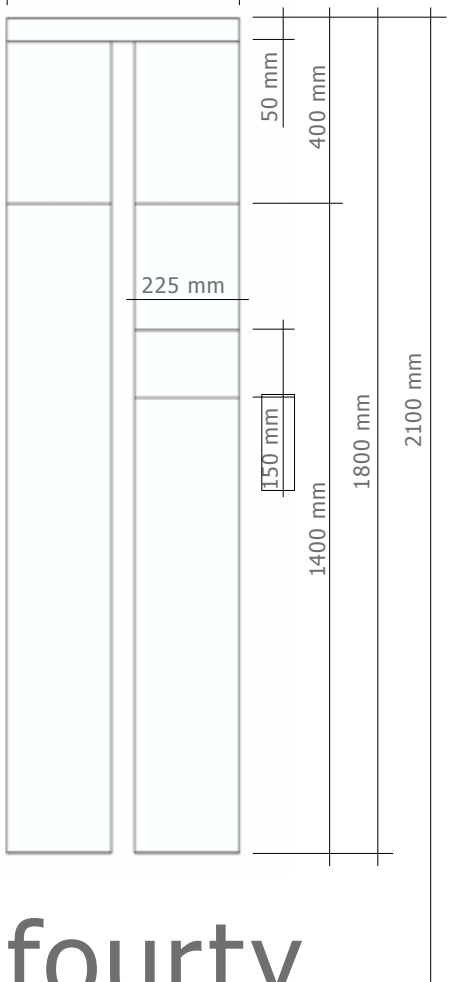


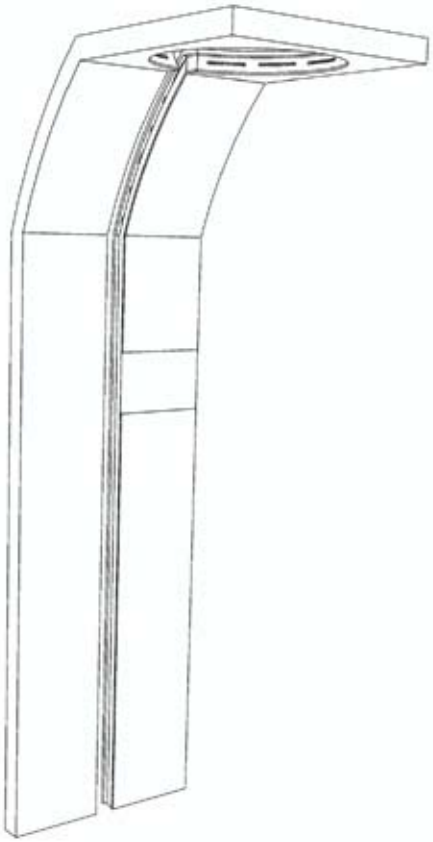
showerpanel

The shower panel combines the three first concepts. You can start and stop the water jet without changing the temperature. You have nozzles for warm and cold water. And it is possible to adjust the hight of the water jet freely.
In the top part of the panel are two kinds of nozzles. You can choose between a rain shower effect or you can have a waterfall out of the ring.
To control the shower there is a touchscreen integrated. You can adjust the temperatures for warm and cold water separately and there is also a button for the amount of the water. Further it is possible to save your personal settings.
My purpose was to develop a simple an elegant form for the panel. I tried to use only circles and straight lines.

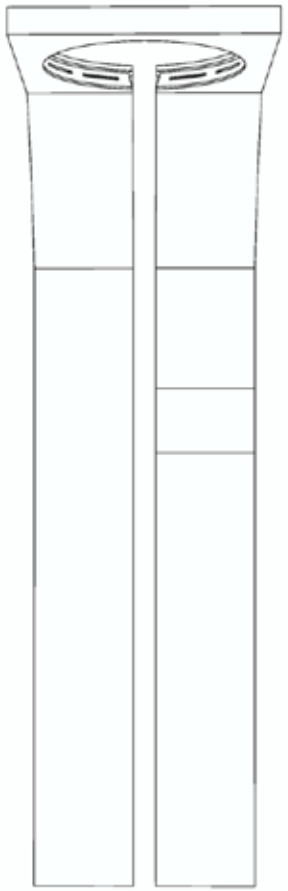

250 mm
500 mm
400 mm

500 mm


50 mm
400 mm
225 mm
150 mm
1400 mm
1800 mm
2100 mm



fourty



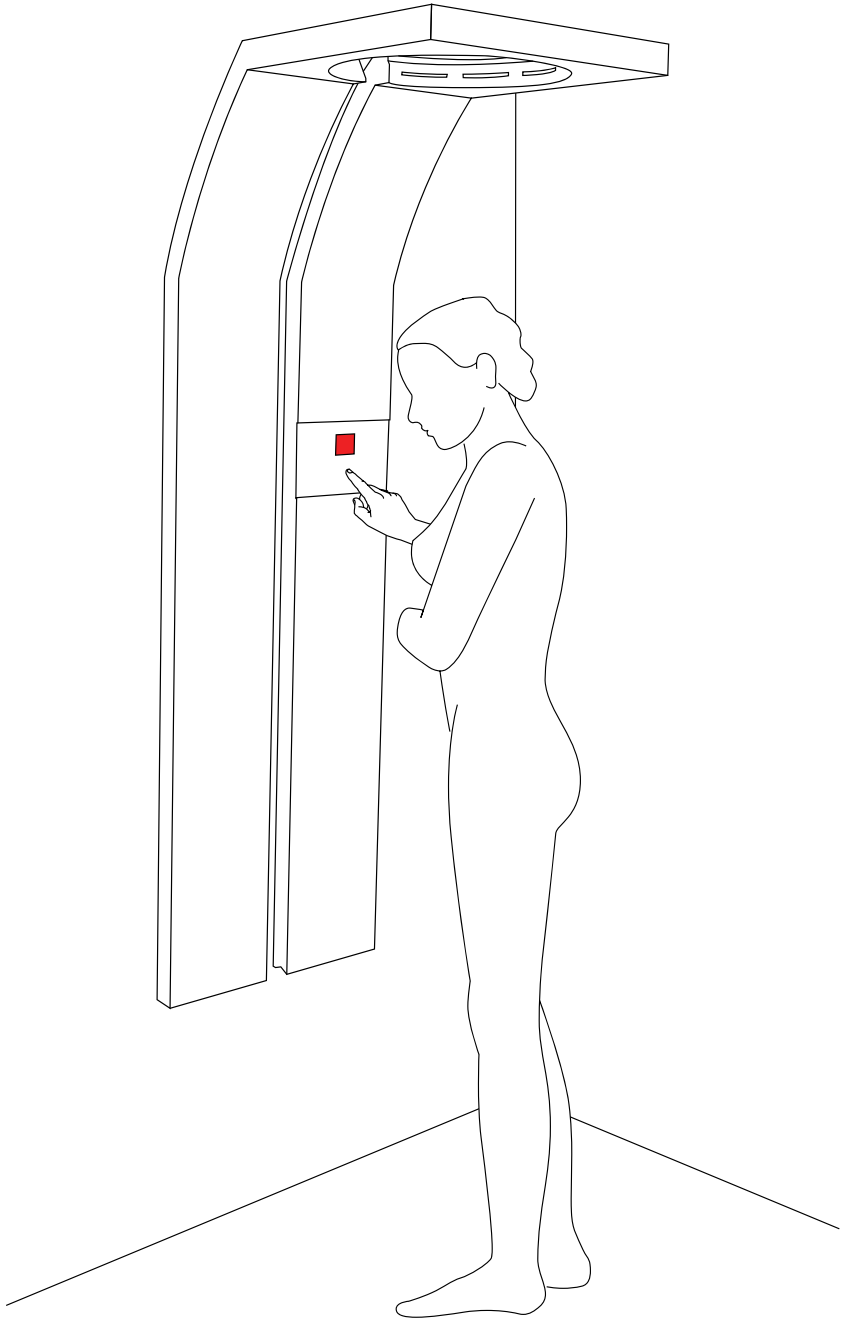
form

The all in all measurements of the panel are, 1800 mm high, 500 mm wide, 500 mm long. It is 50 mm thick. In the middle the panel is divided. There are the nozzles for the warm and cold water.
The shape of the panel is very architectural so it will fit in most bathrooms. The dominating form is the circular hole in the top of the panel. From the sides of the hole you can either get water with a rain effect or you can switch to the waterfall mode. On the left side there is the touchscreen to control the settings.
The screen is about 200 mm wide and 130 mm high. The screen is placed behind a black colored glass. If the shower is not used, you will only see the black glass.

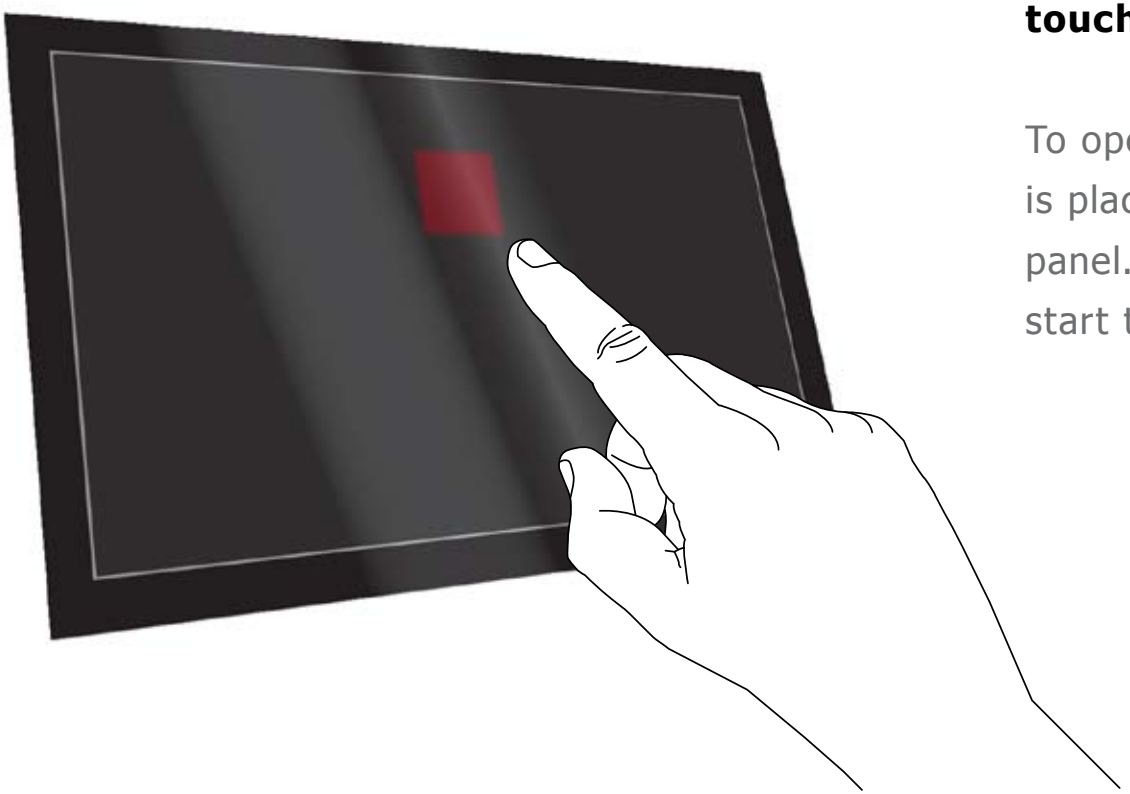
fourty-two

waterfall or rain

Here you can see the two main functions of the shower. The waterfall and the rain-shower. The nozzles of both of them are divided in nozzles for warm and cold water. So you have the experience of warm and cold water at the same time. With the touchscreen you are able to regulate the temperature for the warm and the cold water separately.

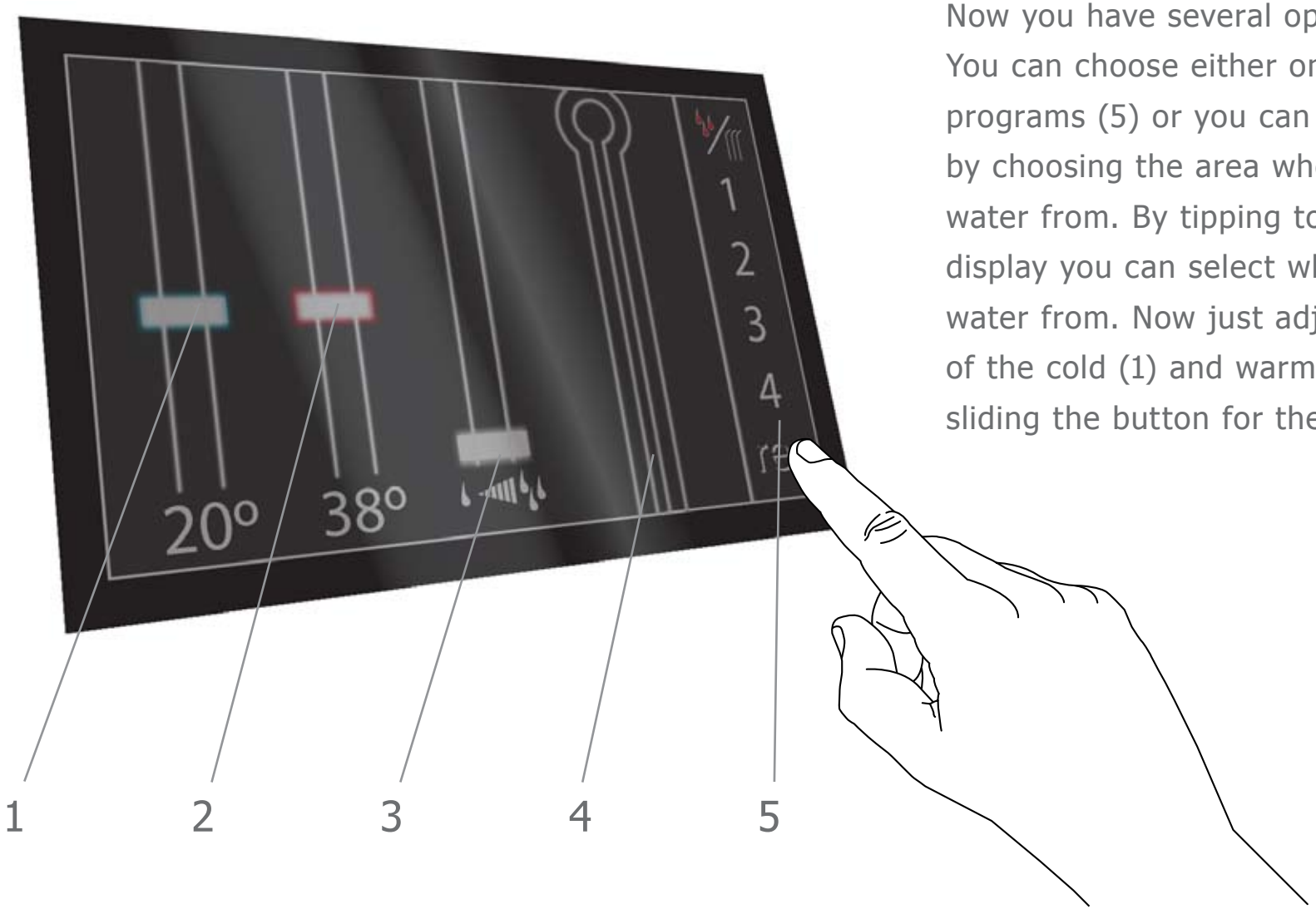


fourty-four

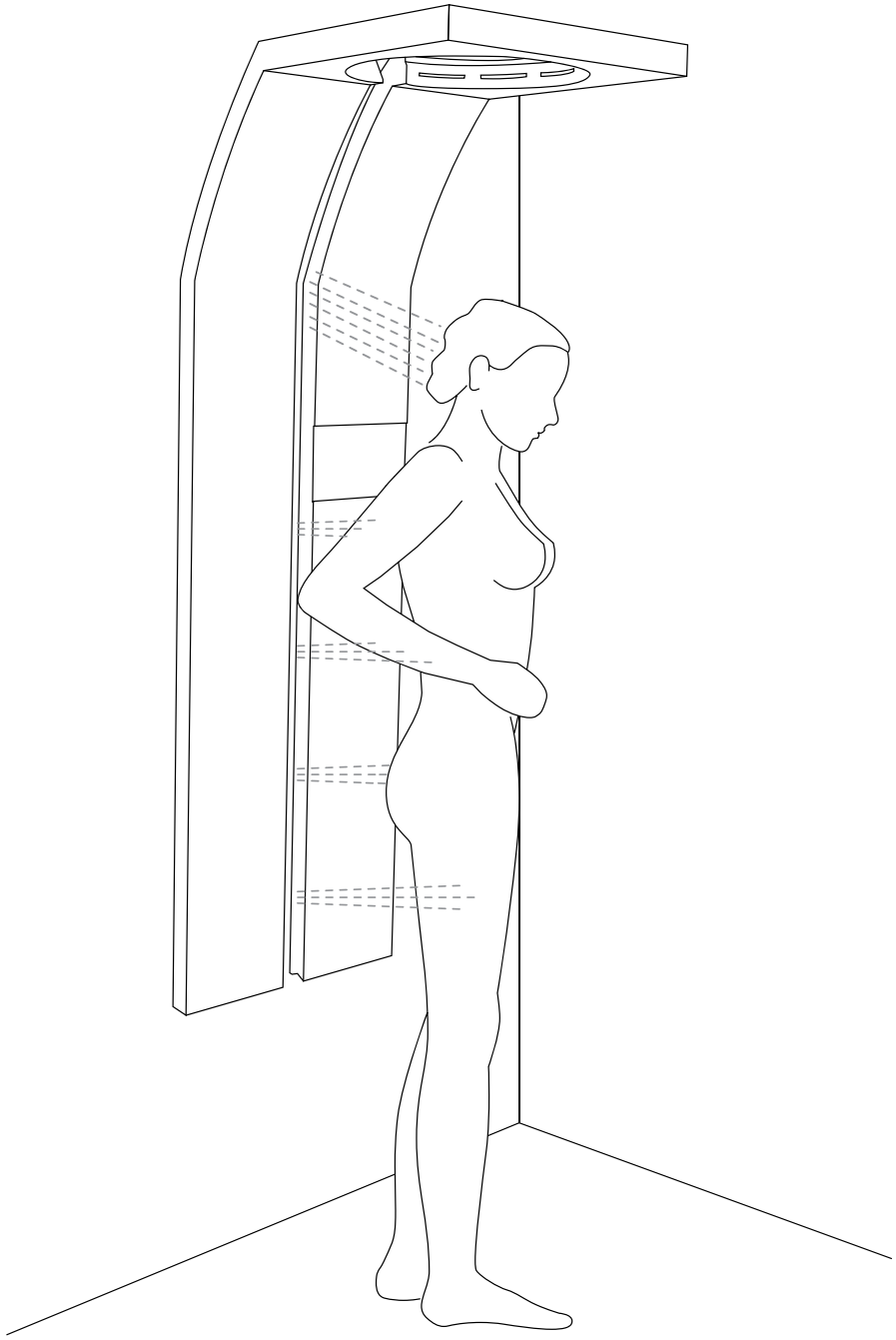


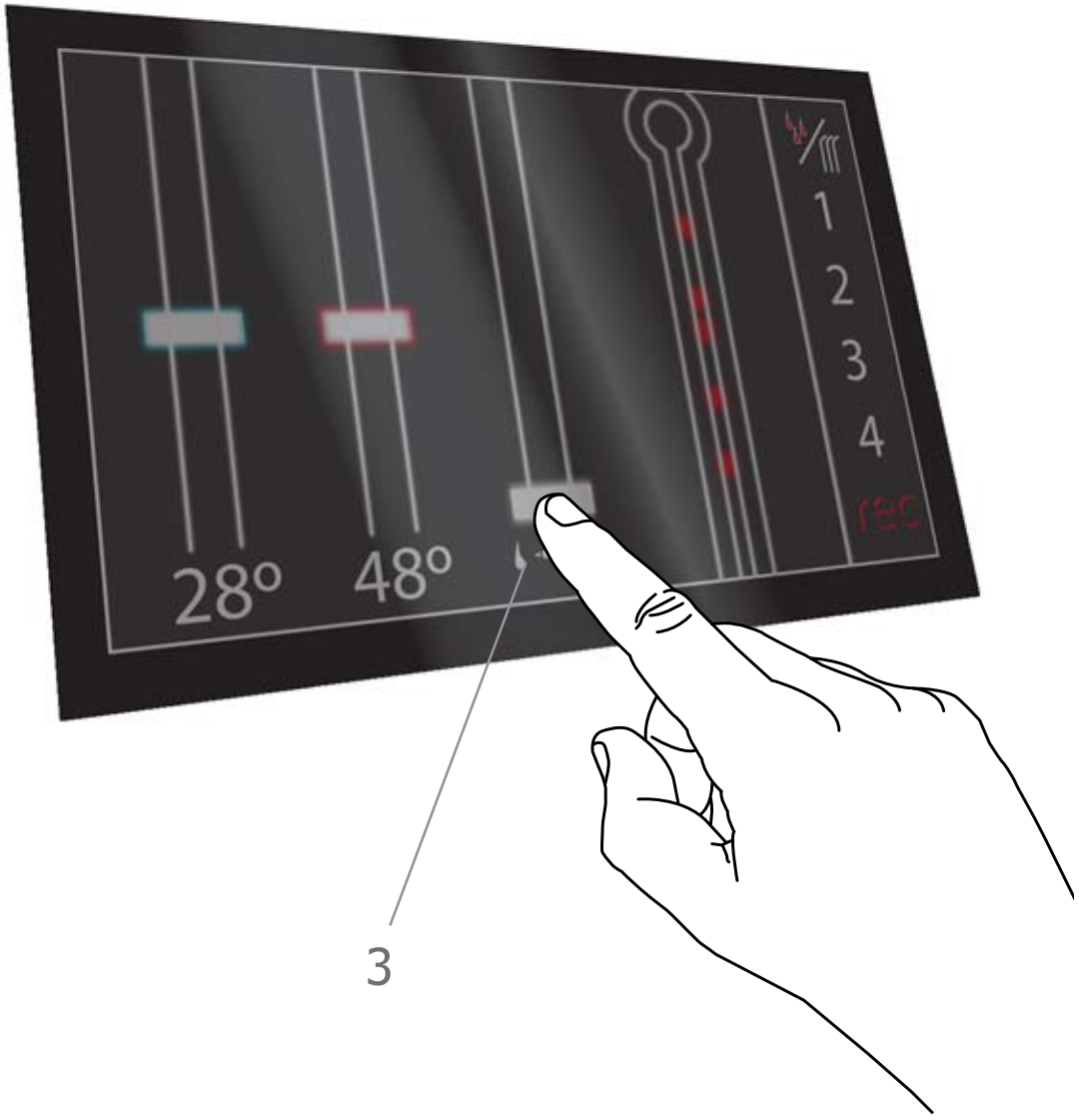
touchscreen and interface

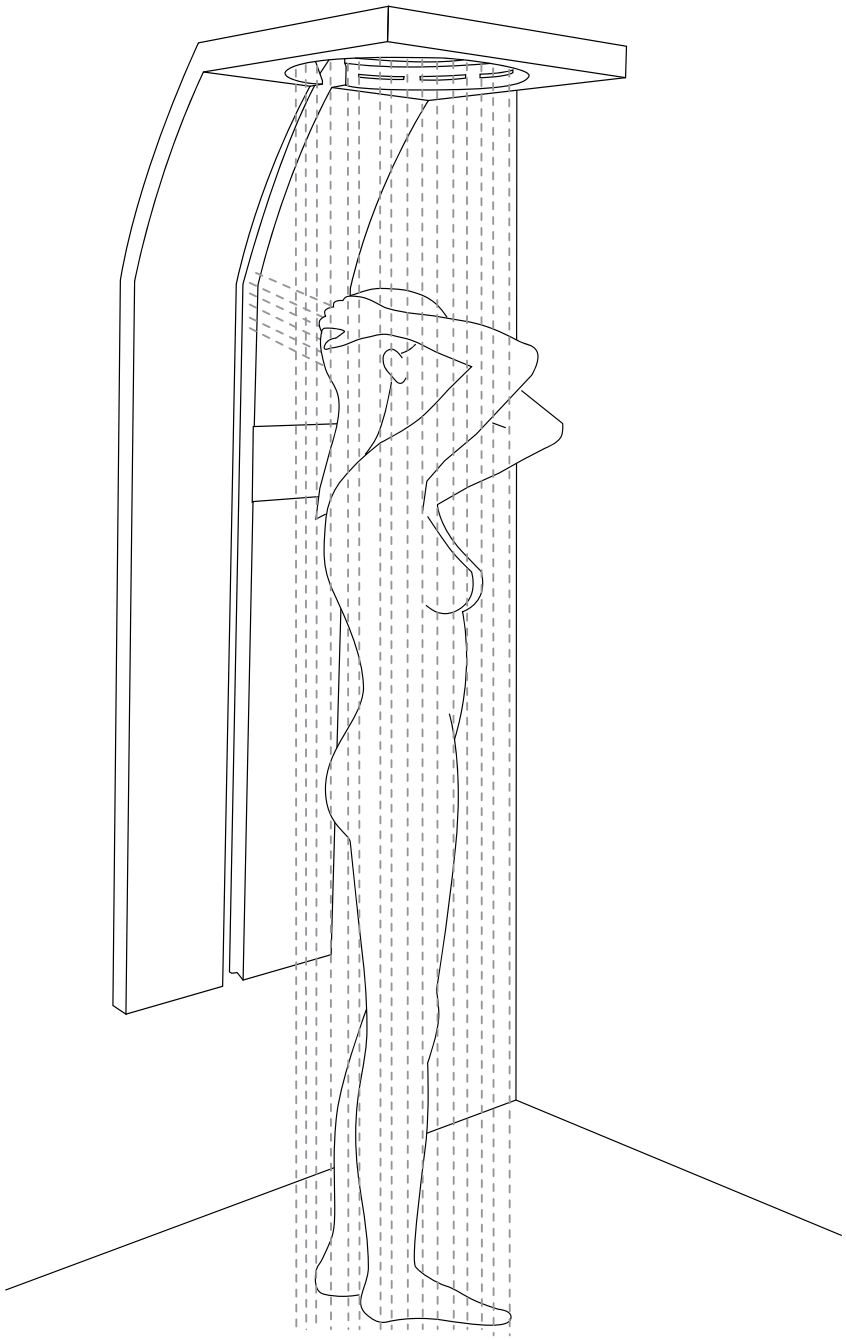
To operate the panel you have a touchscreen. It is placed behind a black glass integrated in the panel. If you want to have a shower you have to start the menu by pressing the red square.

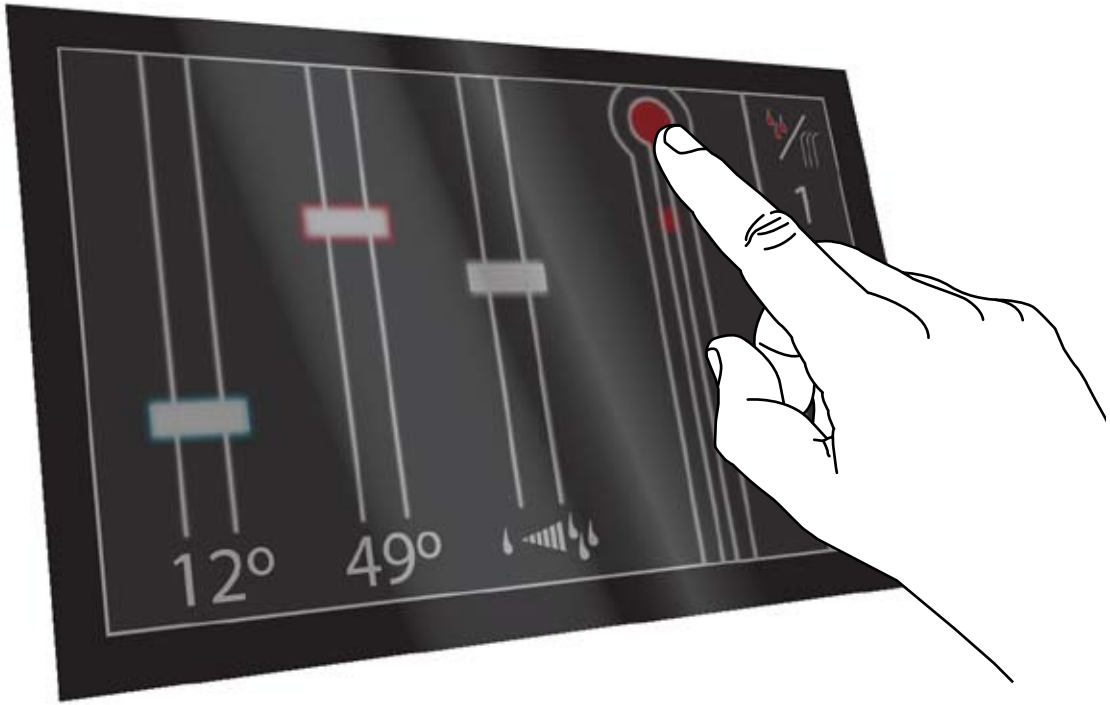


Now you have several opportunities.
You can choose either one of the recorded programs (5) or you can just have an shower by choosing the area where you want to have water from. By tipping to the place (4) on the display you can select where you want to have water from. Now just adjust the temperature of the cold (1) and warm (2) water and start by sliding the button for the amount of water (3).

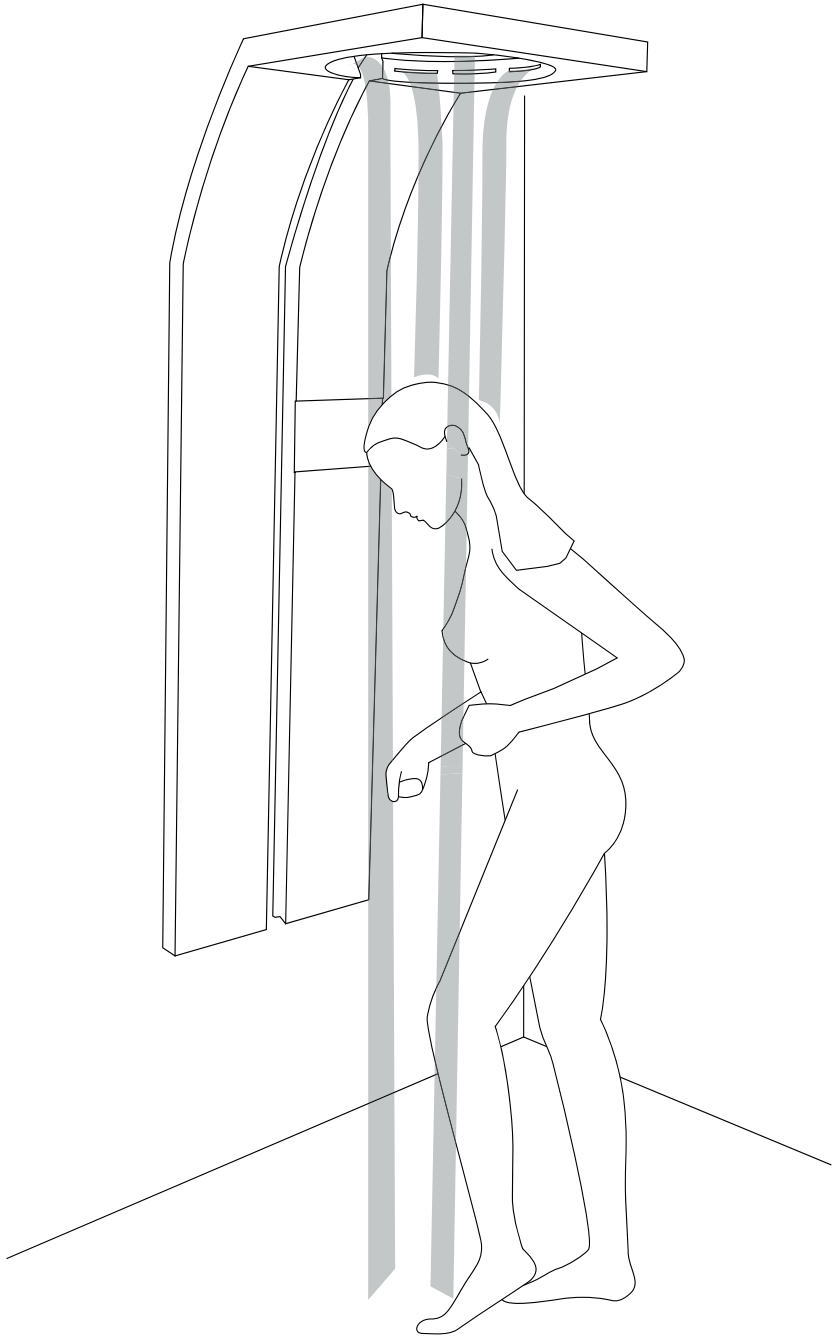


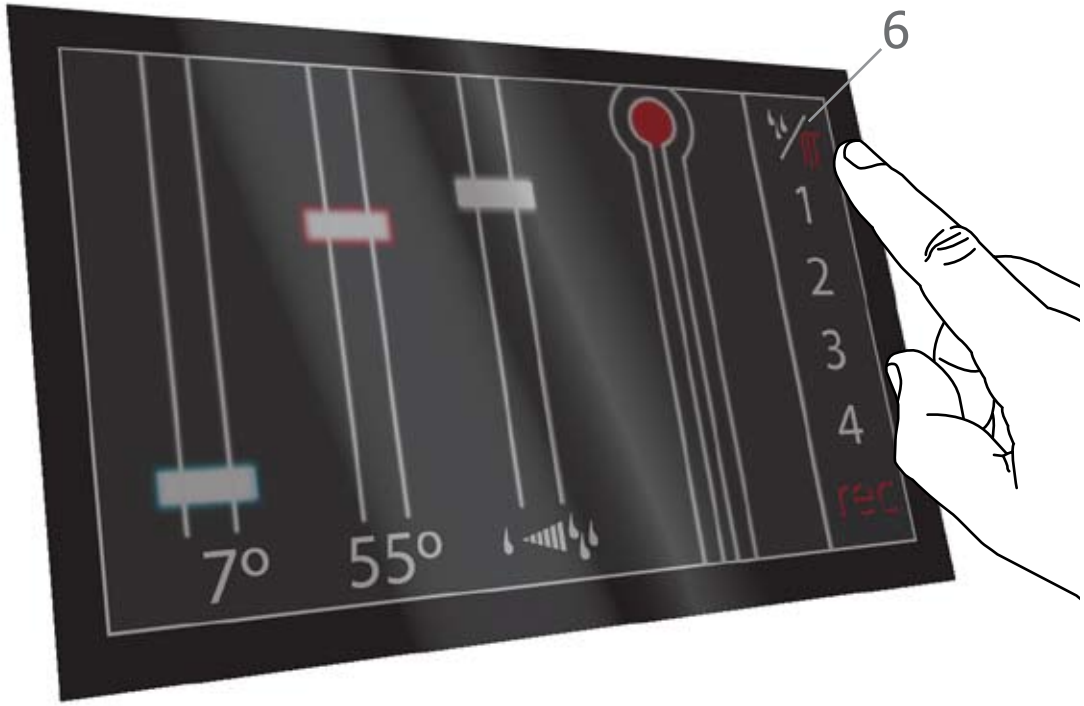

28°
48°
1
2
3
4
rec
3



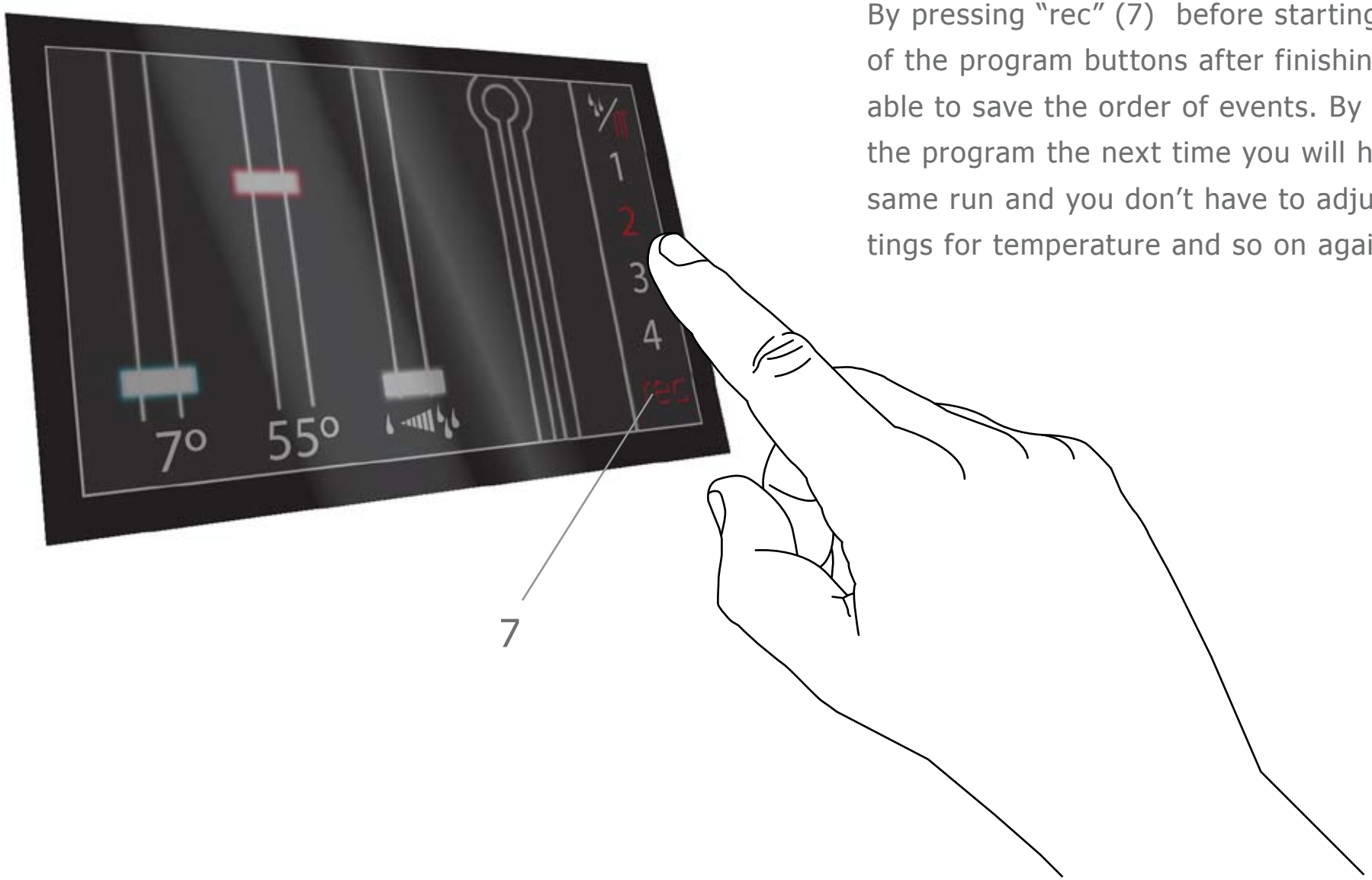


fourty-eight

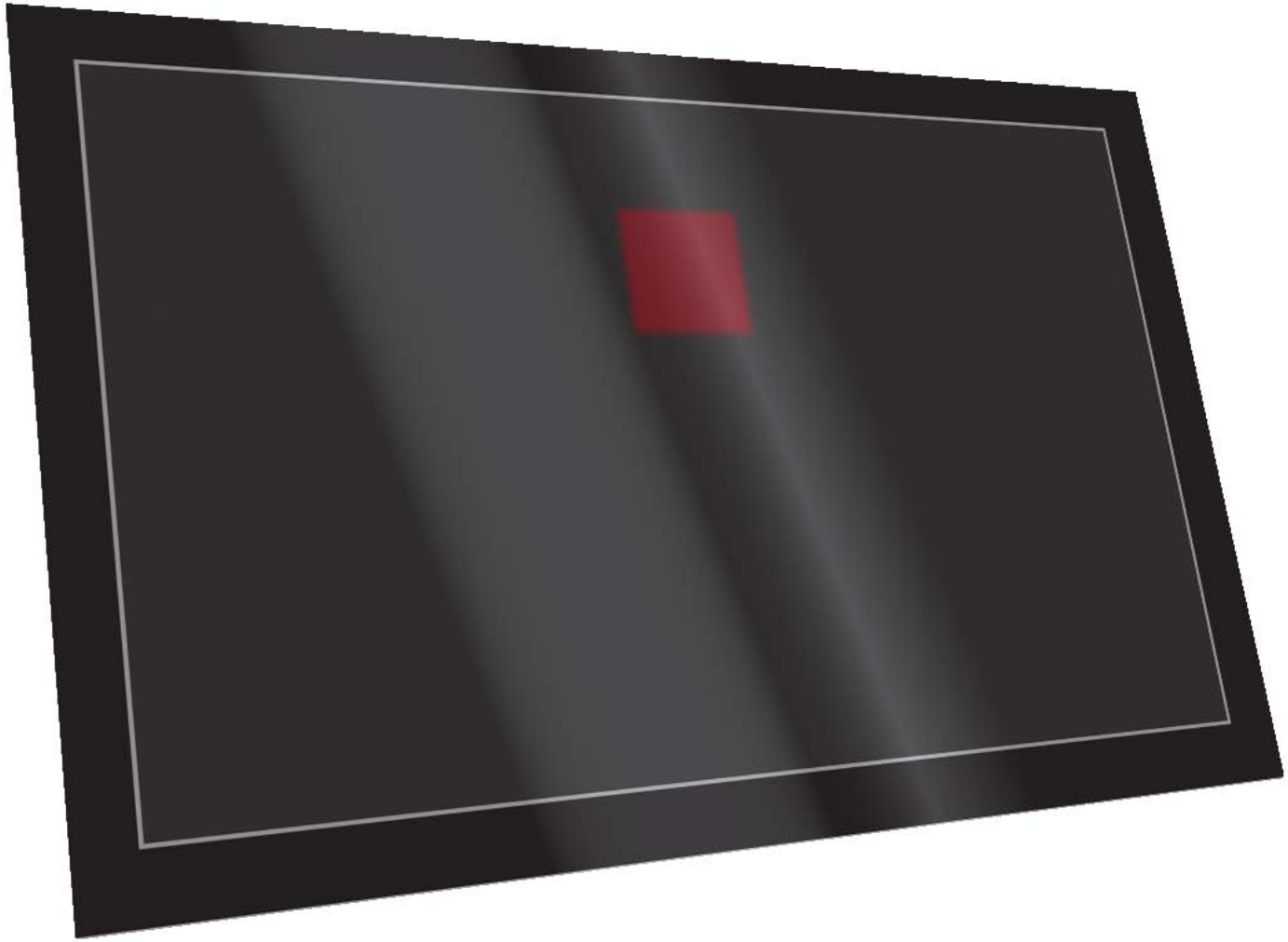


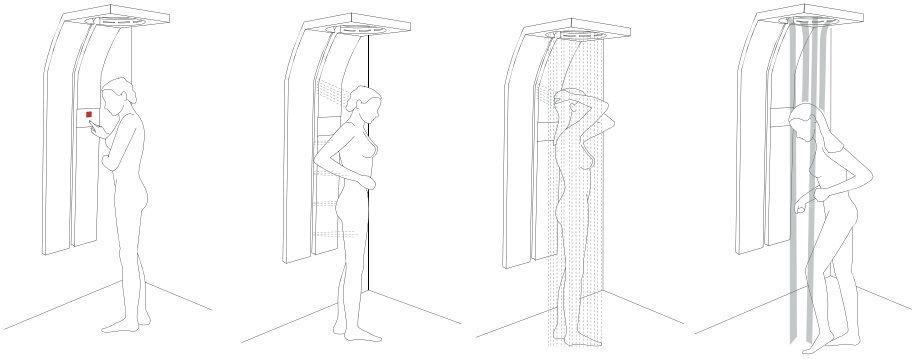


In the top-right corner of the display the button for changing between the rain and waterfall effect (6) is placed. By tipping it you can easily switch over.

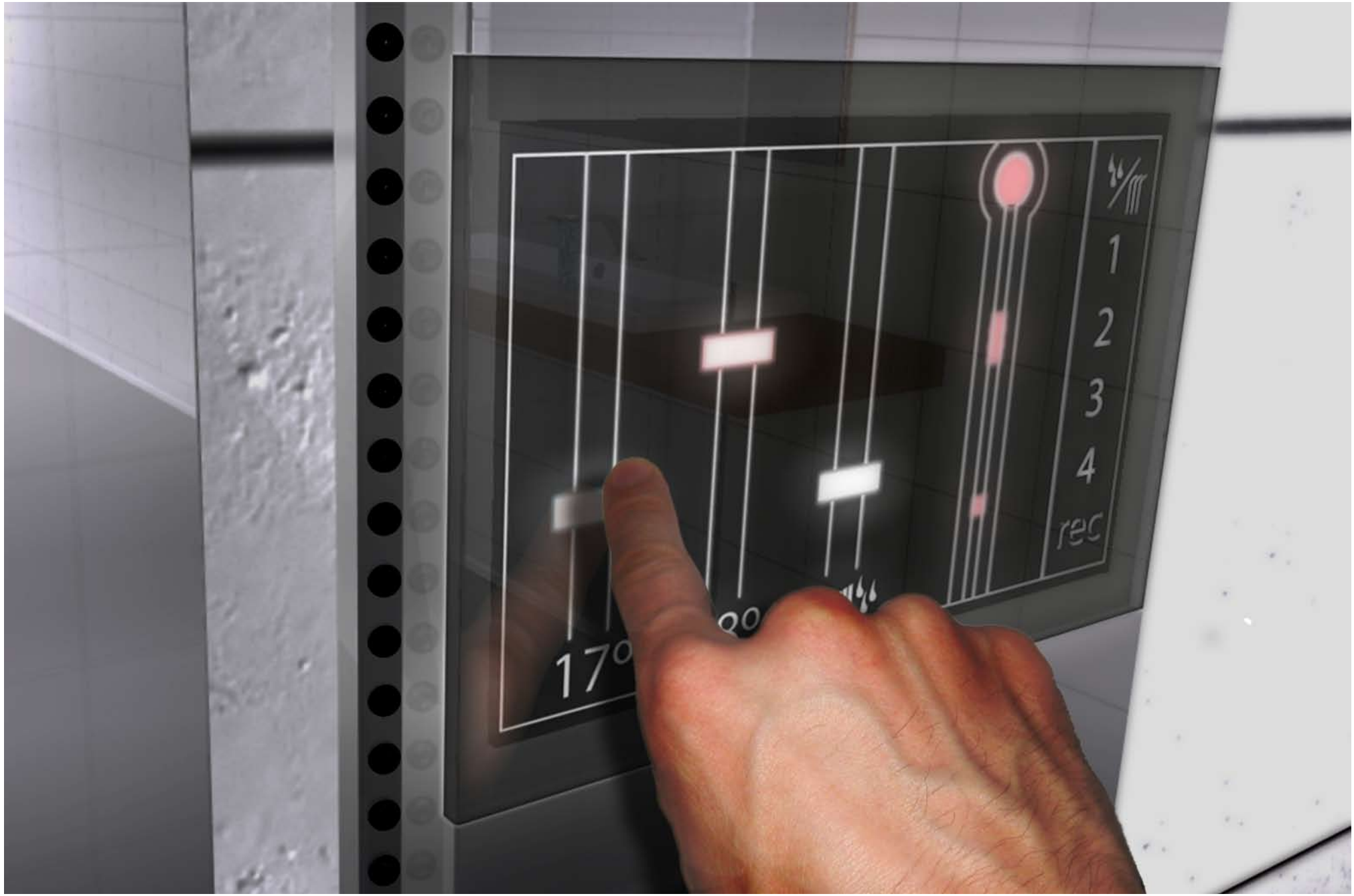


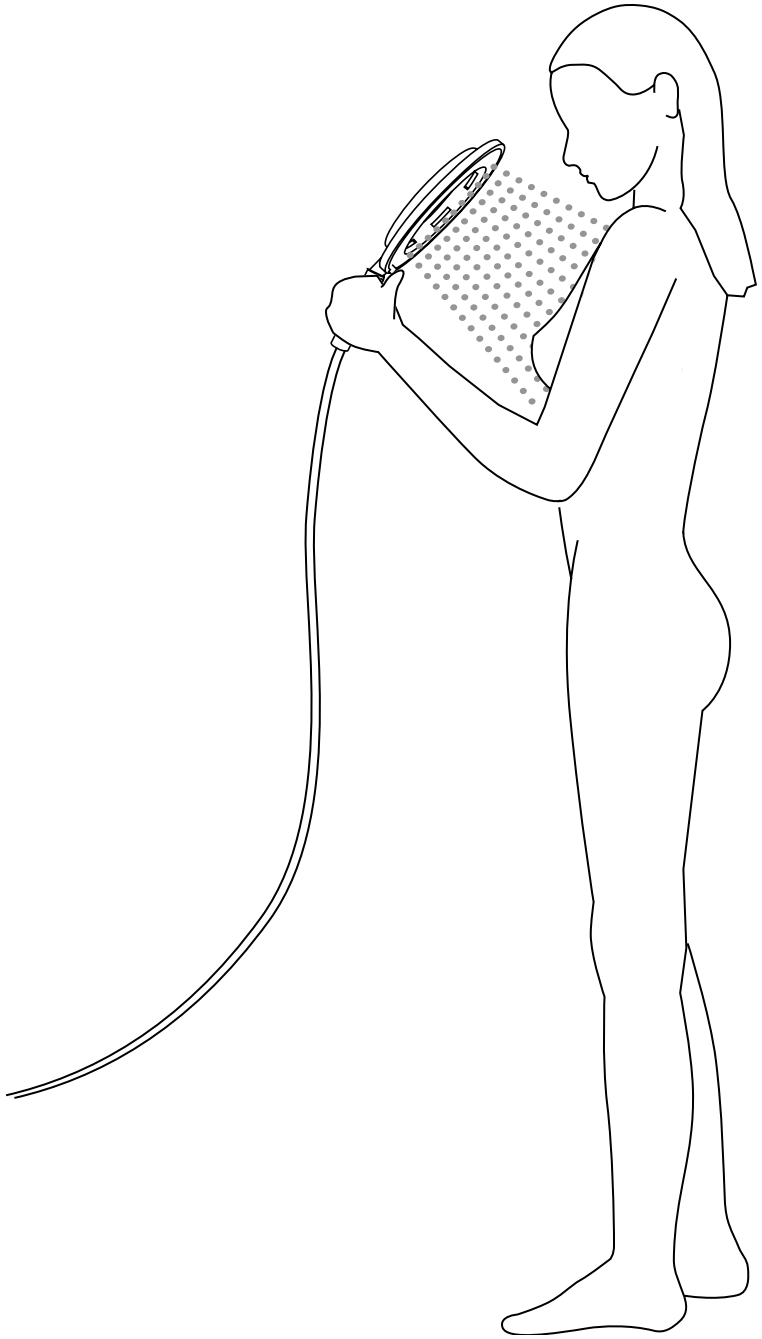
By pressing "rec" (7) before starting and one of the program buttons after finishing you are able to save the order of events. By choosing the program the next time you will have the same run and you don't have to adjust the settings for temperature and so on again.





fifty-two

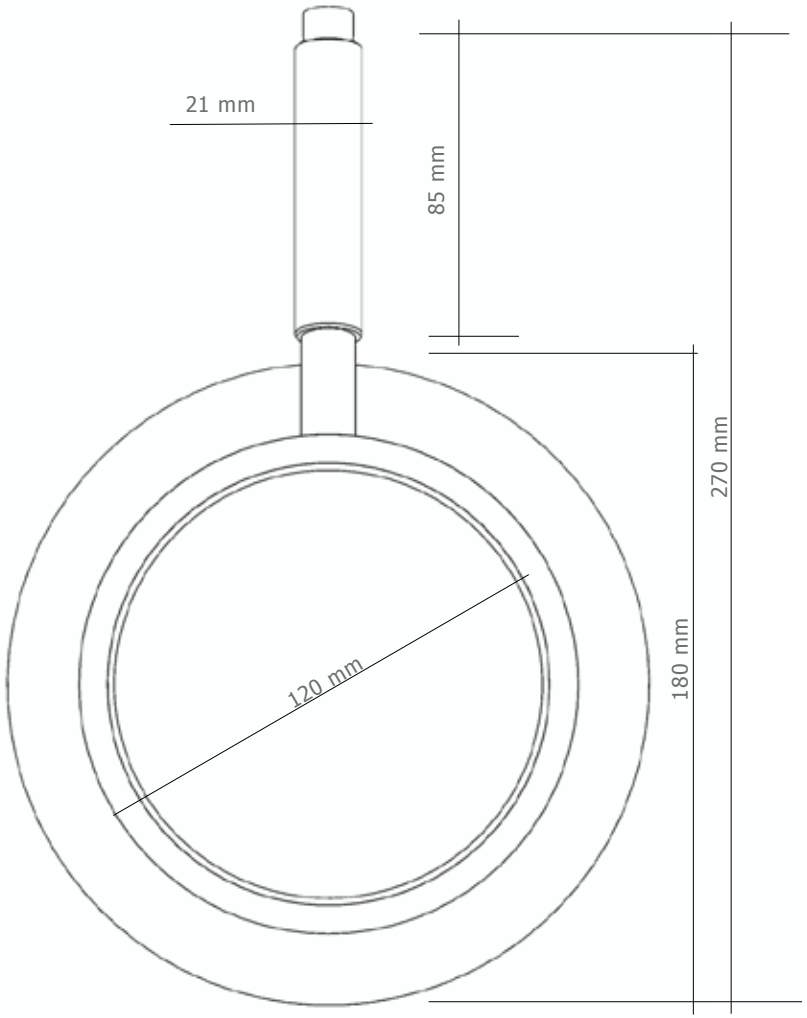

1
2
3
4
rec

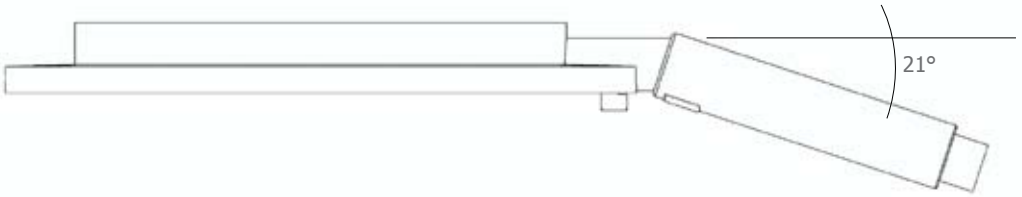


fifty-four

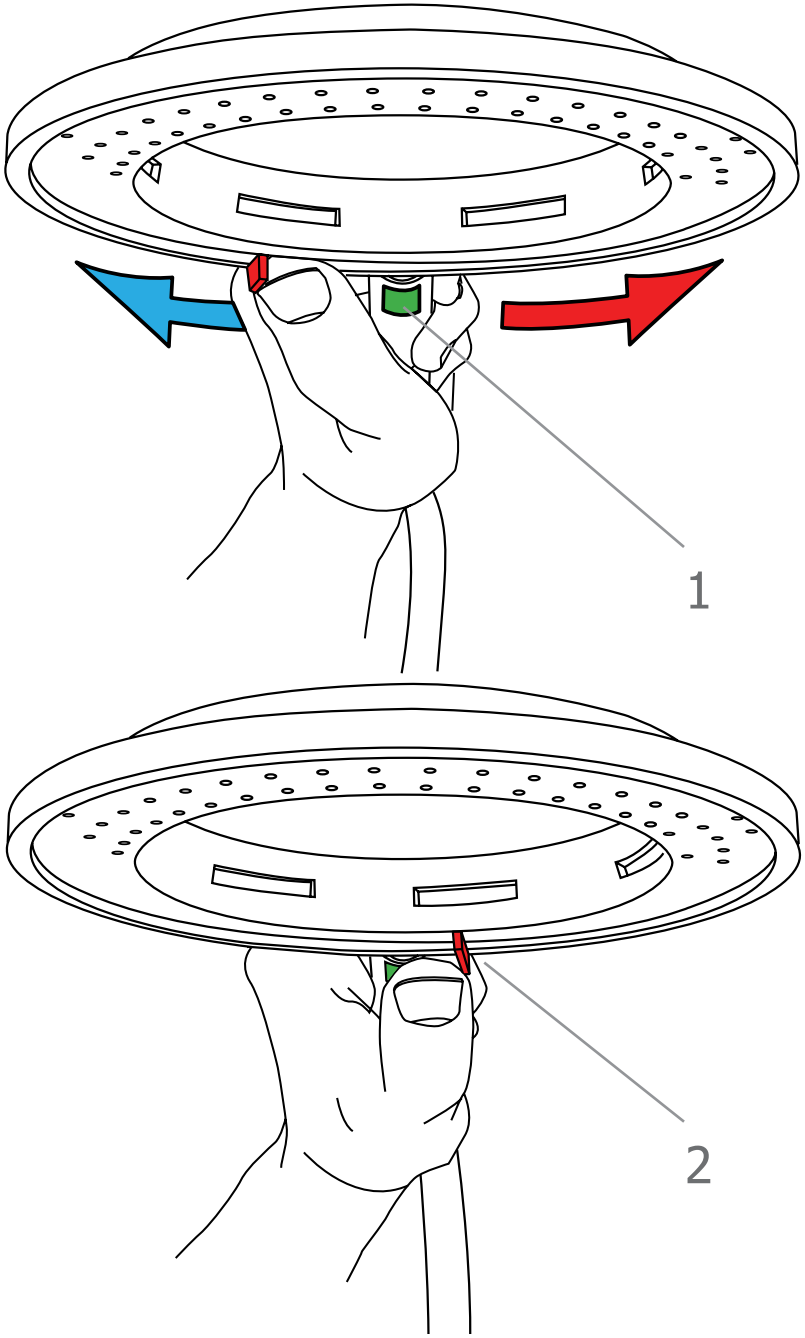
hand shower

The hand shower has the same functions as the shower but without the separate nozzles for the warm and cold water. You can switch it on and off directly at the handle and it is the first hand shower combining a rain- and a waterfall-effect.

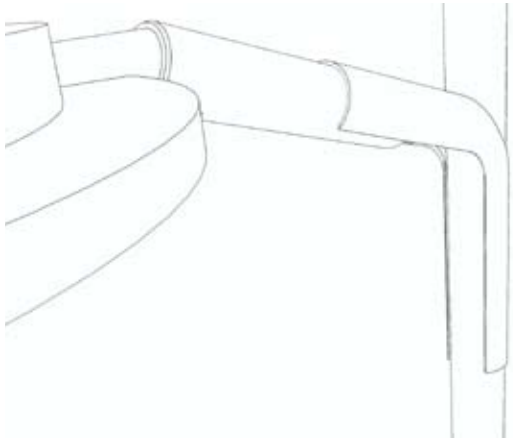




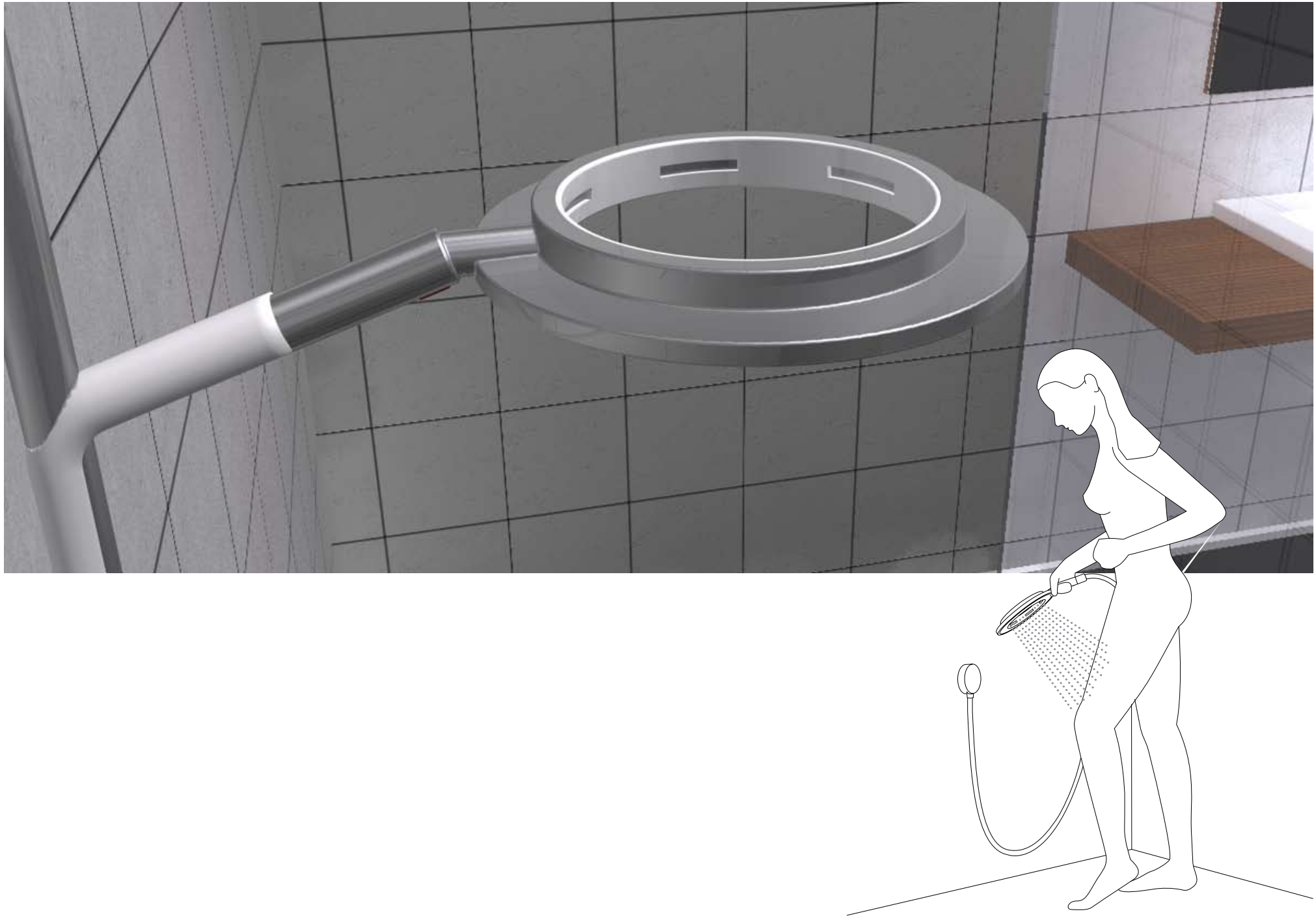
fifty-six

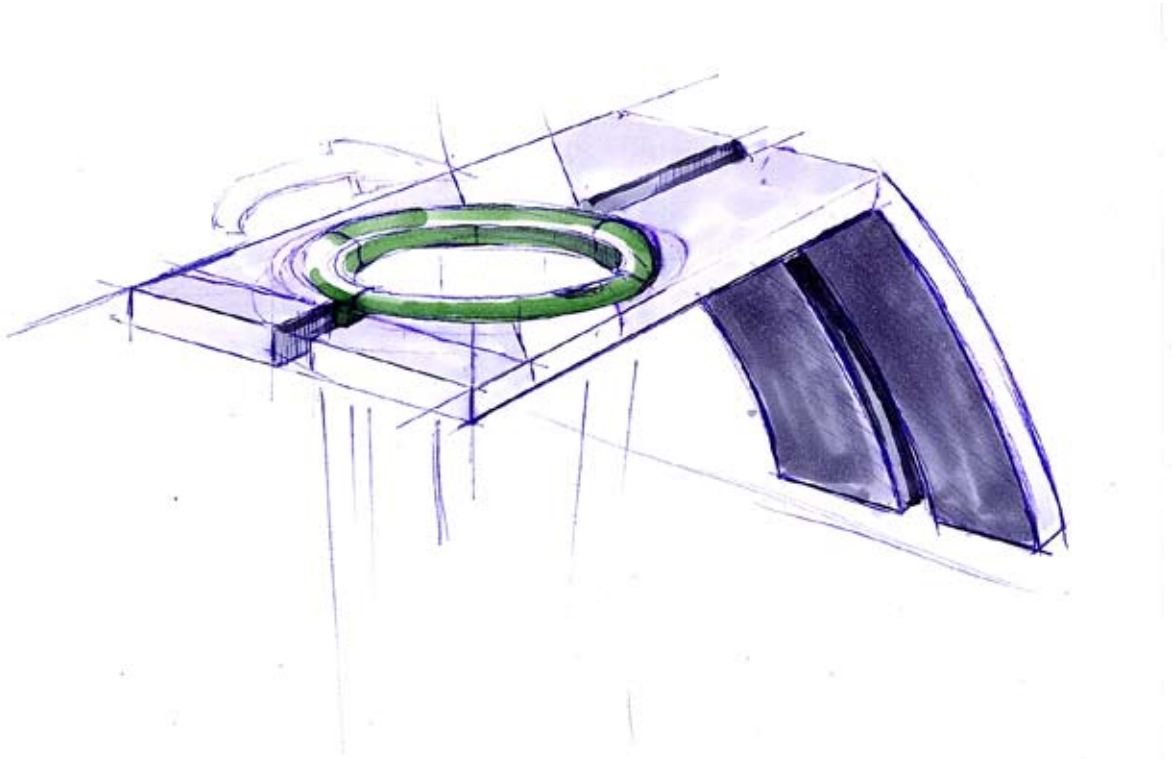


You can change the temperature or start and stop the water just with your thumb. To start and stop press the start-button (1). If you want to have more water from the inner part of the ring press the button longer. The longer you press the more water will come as a waterfall. After e.g. 2 seconds there will be only water from the waterfall-nozzles. By pressing it again you can have more water from the rain-nozzles again. To change the temperature move the switch (2) to the left or the right.



fifty-eight

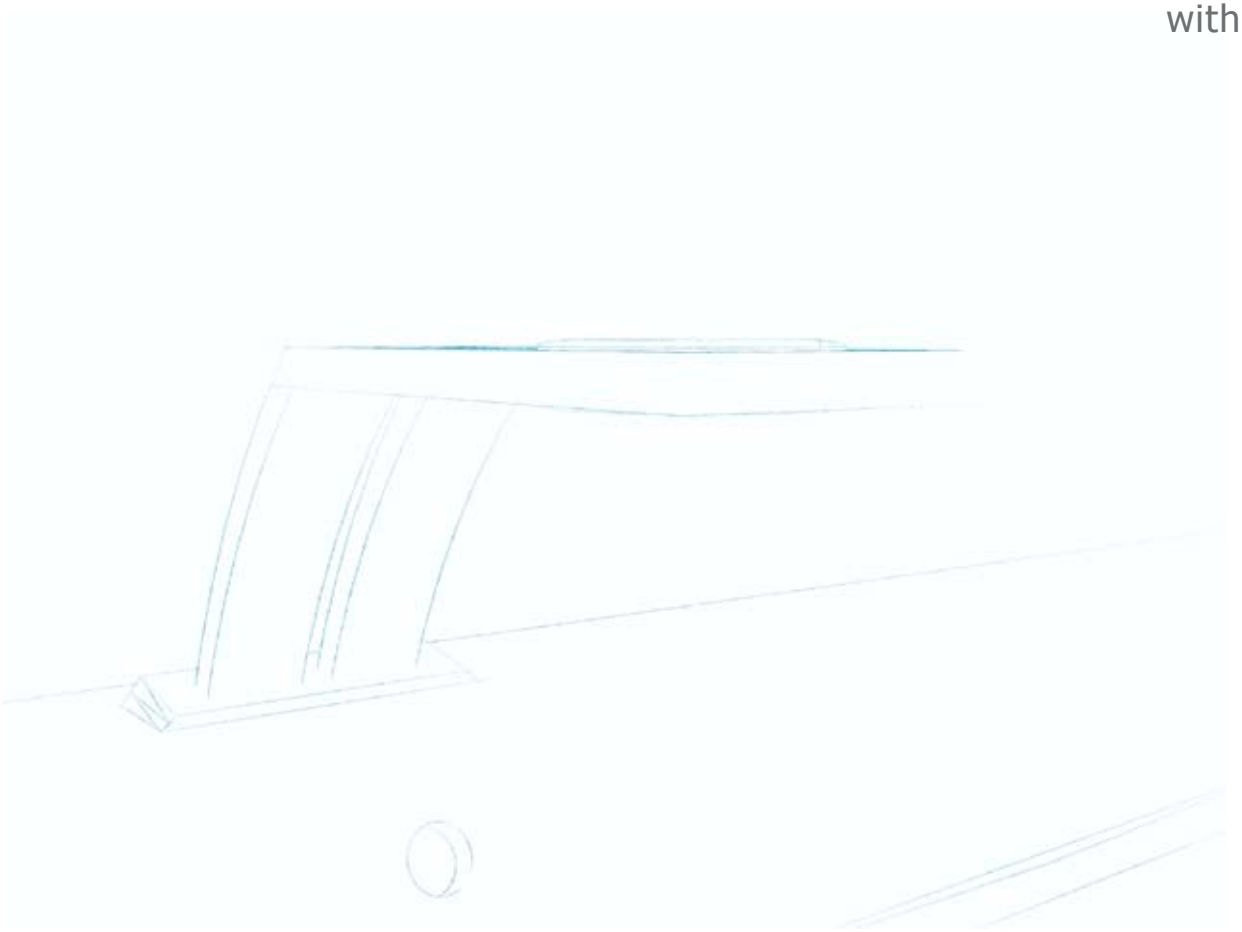




sixty

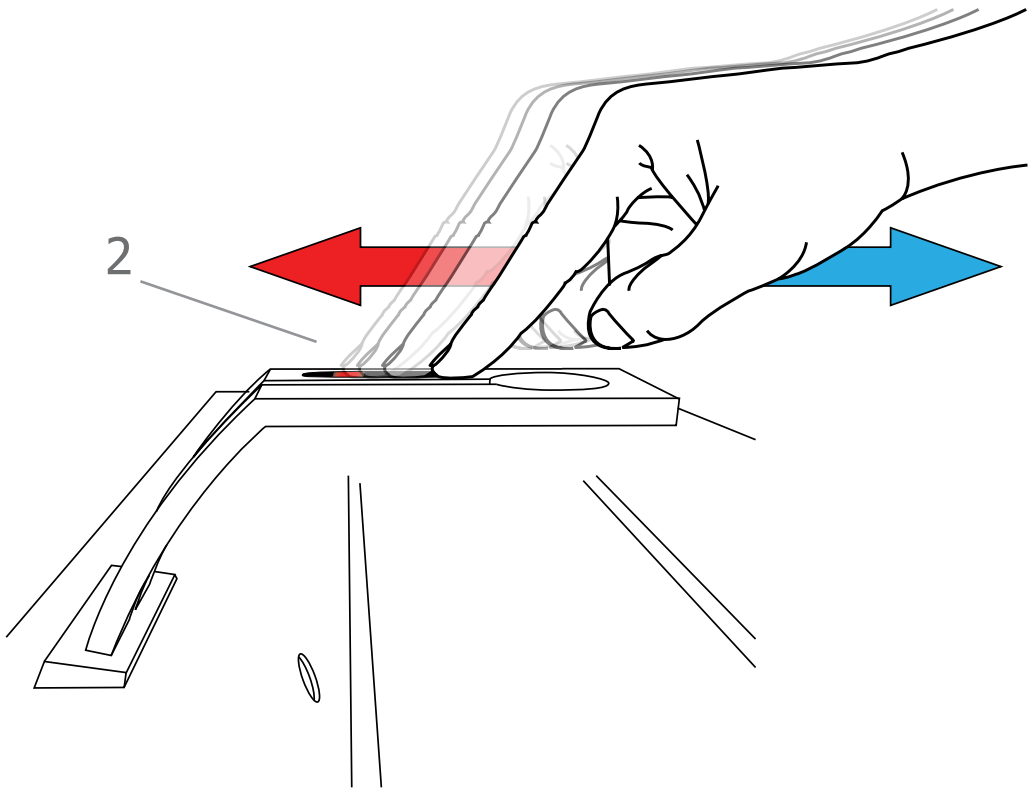
faucet

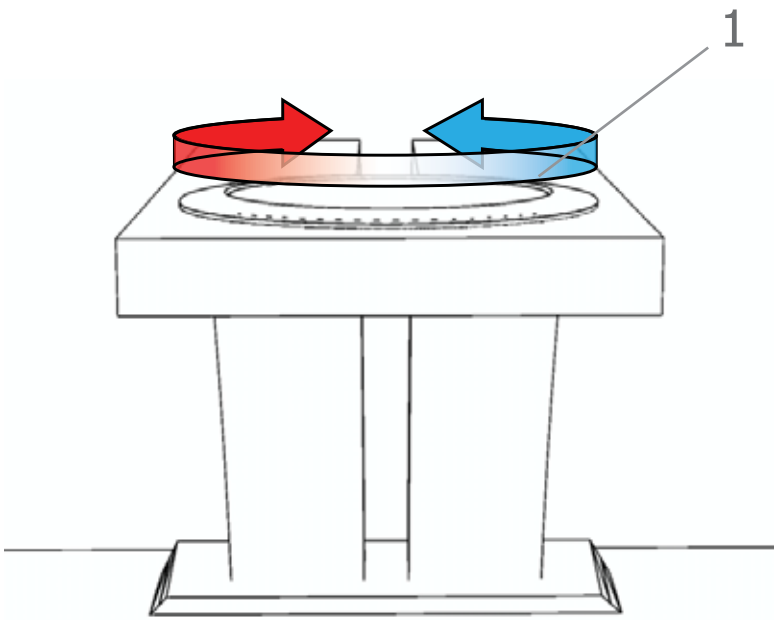
There are two kinds of the same faucet. There is one mechanical and one electronic faucet. Like the hand-shower the mechanical faucet has got a rotating ring. The electronic faucet misses the ring and you can regulate the temperature with an touch-pad.

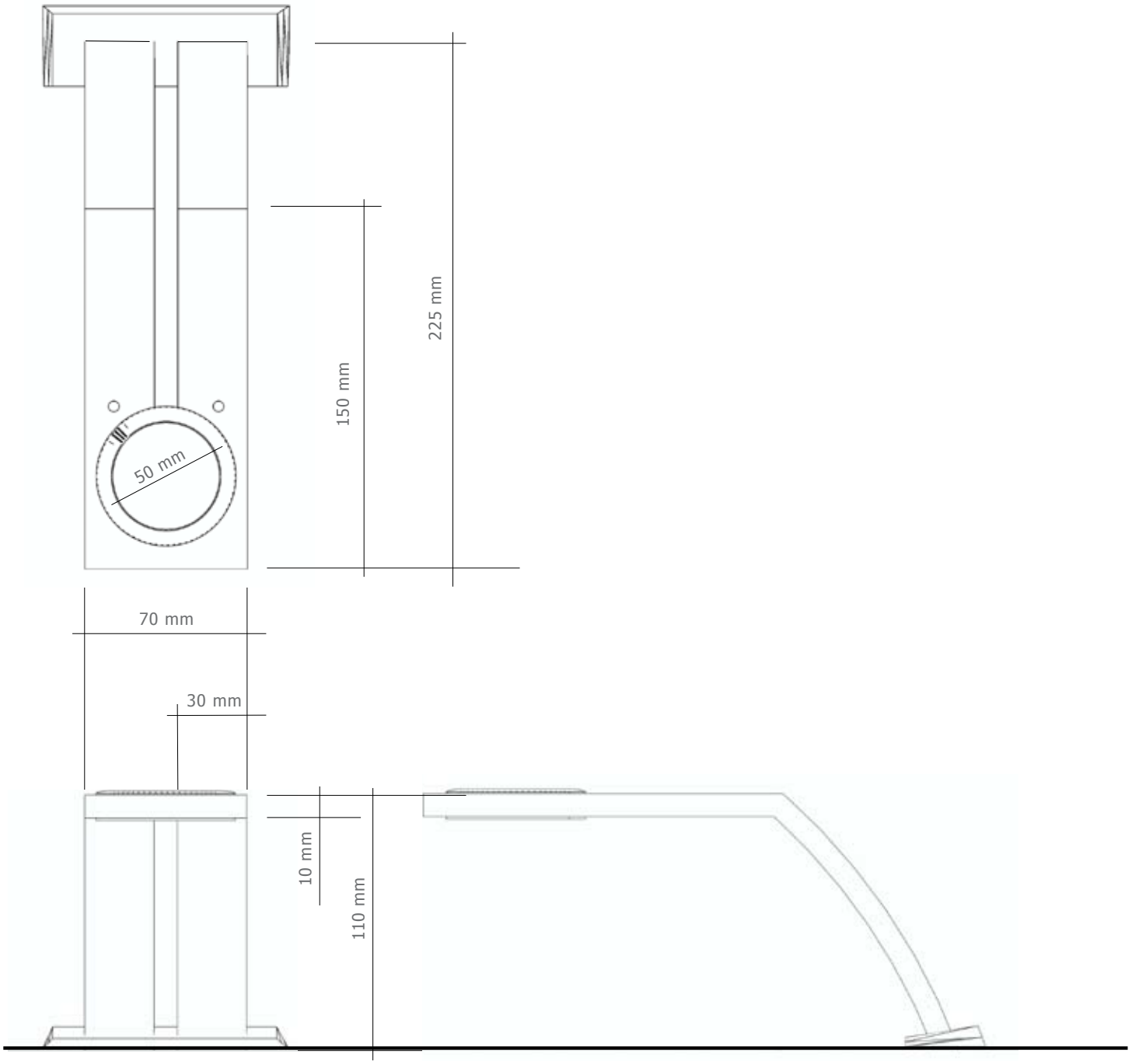


sixty-two

By turning the ring (1) you can adjust the temperature of the water.
The electronic faucet misses the ring and you can regulate the temperature with an touch-pad. There is an area on top of the faucet (2) which allows you by sliding over it to regulate the temperature.
To activate the faucet you just have to hold your hand under it and the water will start automatically and stops when you remove your hand.



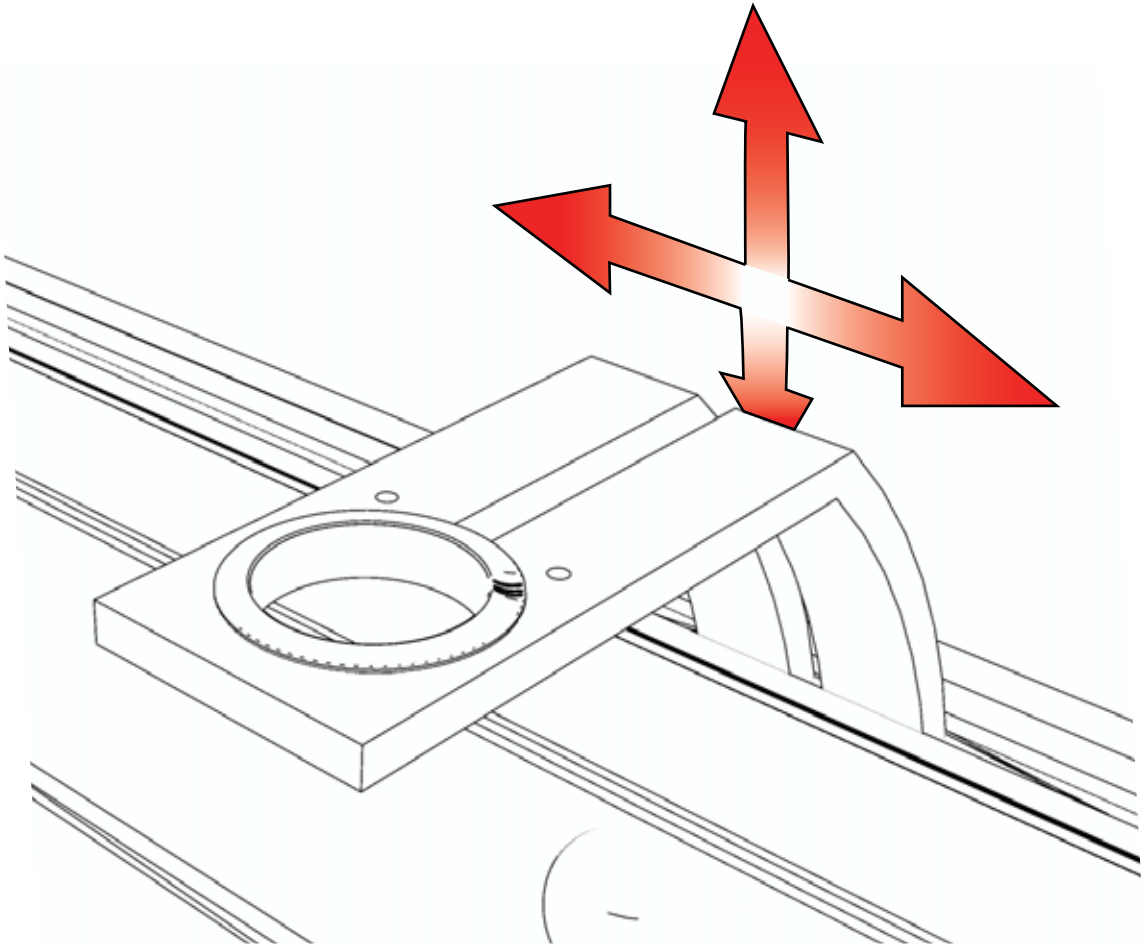




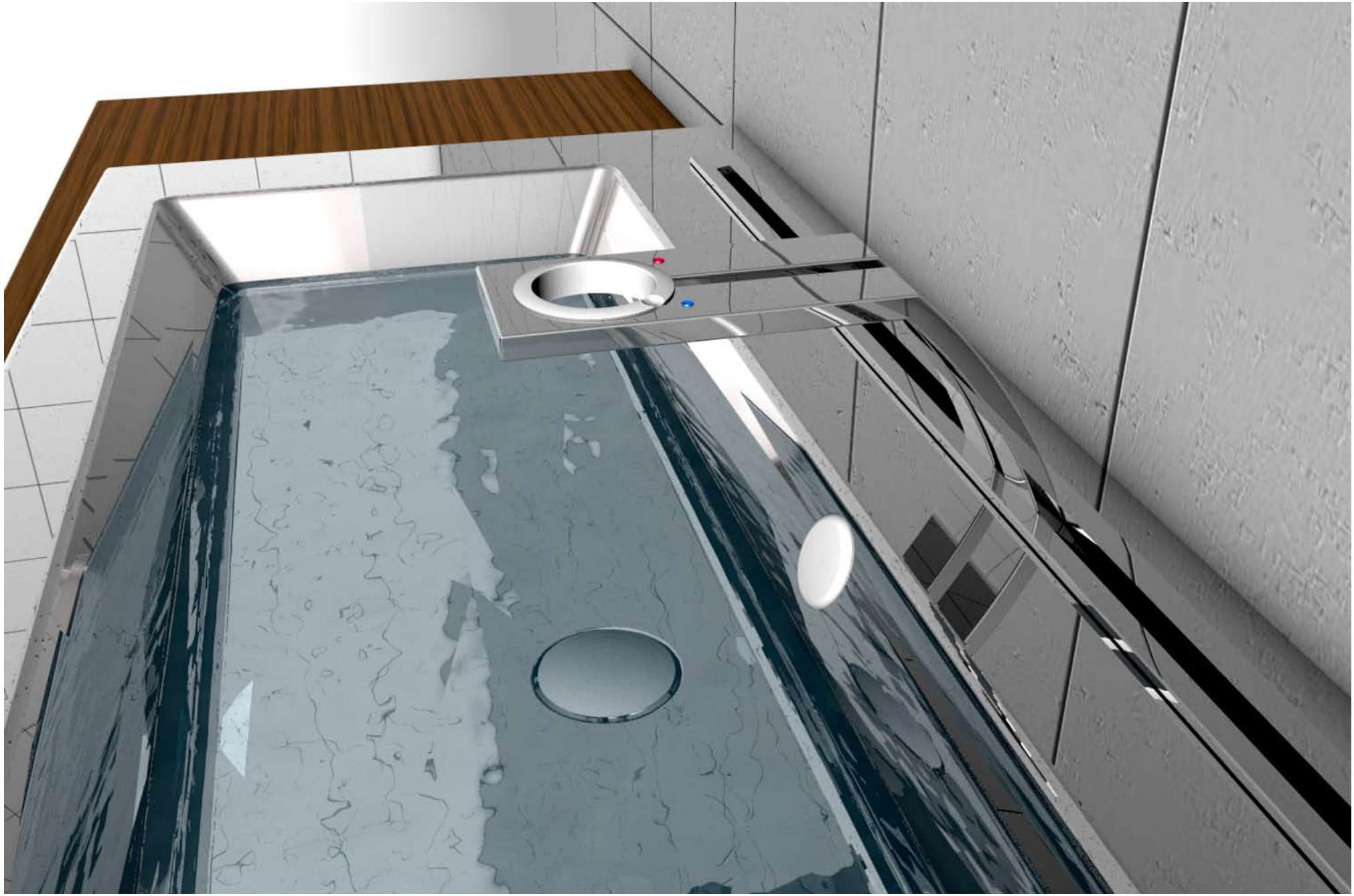
sixty-four

kitchen-faucet

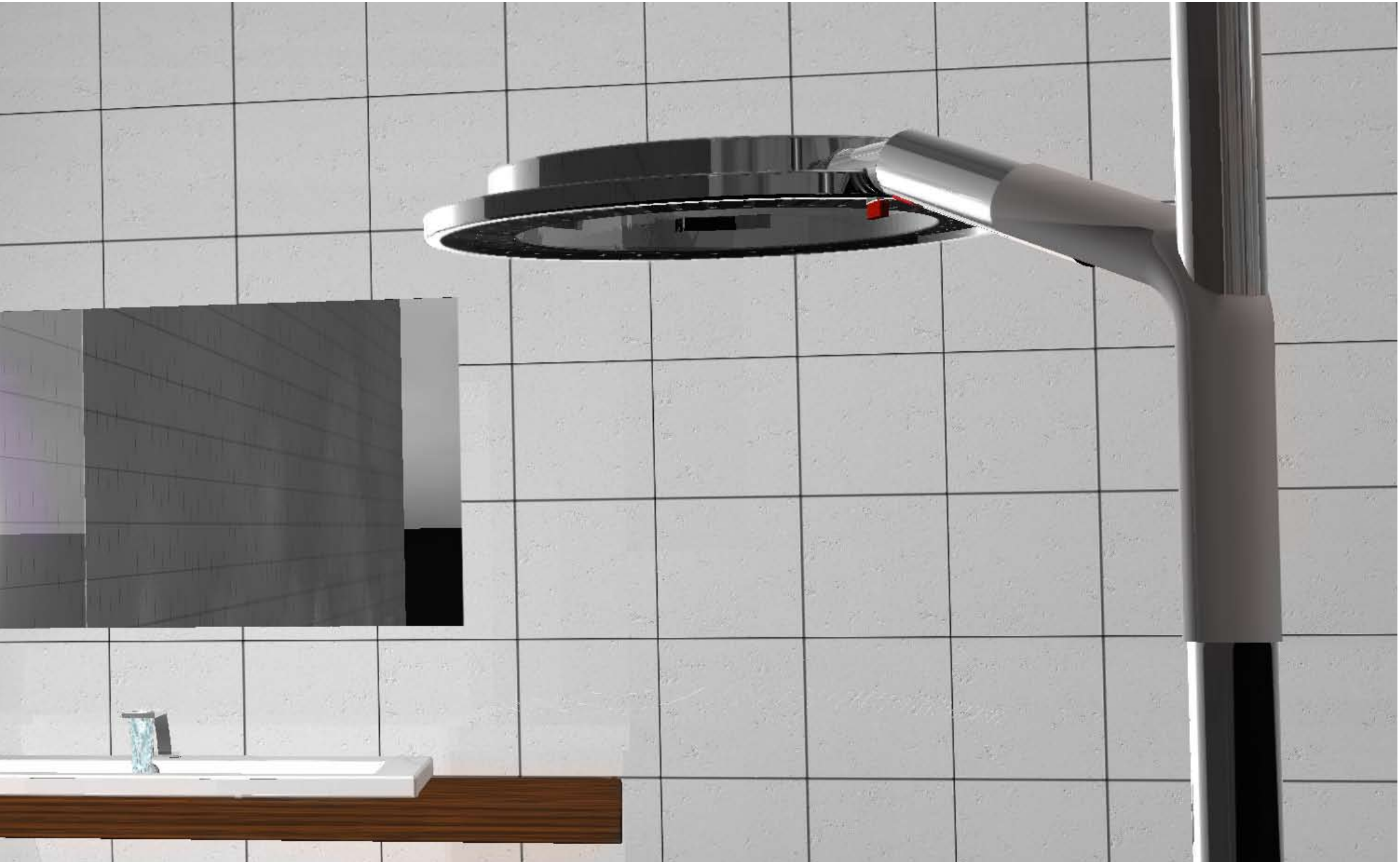
I was also thinking about an solution for the kitchen. You can move the faucet from the right to the left by sliding it. You can change the hight of the faucet by push it up or down.



sixty-six



sixty-eight



the new way of having a shower