

## The Aquatic Physio-Therapeutic Treadmill for Dogs

Aqua-Therapy Basin with an inside mounted, motor driven treadmill for the therapeutic exercise of dogs

The hydrotherapy as part of the physiotherapy is used for the treatment of diseases and impairments in the musculoskeletal system with muscles, tendons, ligaments, bones and joints as well as rehabilitation after surgery. The treatment with water is effective and gentle because the buoyancy reduces the dead weight in the water and at the same time the training effects are increased by the pressure of the water.



### THERAPY

Aqua-Therapy Basin with an inside mounted, motor driven treadmill for the therapeutic exercise of animals.

This new therapeutic basin is a medical appliance for the treatment of injuries and diseases in the musculoskeletal system of dogs.

#### Advantages of the Aqua-Therapy Basin

Hydrotherapy is a special kind of physical therapy which is used in the treatment of a disordered or weak musculoskeletal system including muscles, tendons, ligaments, bones and joints to achieve mobilization or strengthening, also as postoperative treatment after surgery. The treatment in the water is efficient and gentle, because the buoyancy reduces the body weight to be carried, and at the same time the water pressure increases the training effect.

The therapeutic basins which are already available from competitors serve the same purpose. However, they require a lot of floor space and/or have a very complex mechanical design which leads to a variety of problems for the user in respect of handling, hygiene and maintenance.

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## Advantages

### What are the advantages of this basin?

The therapeutic basin can be installed in any veterinarian practice without additional constructive changes. With its small dimensions it fits through all types of standard entrance and room doors. For its installation a floor space of approx. 2 sqms is required. Owing to its low weight (basic weight 100 kgs, water-filled 500 kgs) no static problems of the building should occur. It requires a common 230 V wall socket power outlet. Mains water supply and waste water piping of any kind must exist. Use, cleaning and maintenance are very simple and can be done by the medical staff. The operational costs are extremely low. The water (max. 400 liters) is cleaned by filters and can be recycled for many treatments. The dogs can enter and exit out of the basin comfortably through the watertight, lockable front door.

### Where is the difference?

This therapeutic basin consists of two tanks: one water reservoir and one therapy basin with integrated treadmill which are connected to each other by a powerful pump. This allows the water level to be adjusted in a short period of time according to the individual animal size. No complex mechanical lifting device is required. The capacity of the water reservoir is 400 liters. The basin has a very low permanent weight and can be operated with a relatively small amount of water, as the treadmill is flat and located directly on the bottom of the basin. The technical design allows for easy one- grip removal or maintenance of the treadmill without having to loosen screws or mountings. The pump is equipped with a dirt filter which filters hair and other particles up to 50  $\mu$  from the water.

## Optional Features

Water Heater with Temperature Control



The Counter Current Flow Device can easily Be removed from the Basin Rim.



**The Digital Display shows elapsed time, speed and covered distance.**



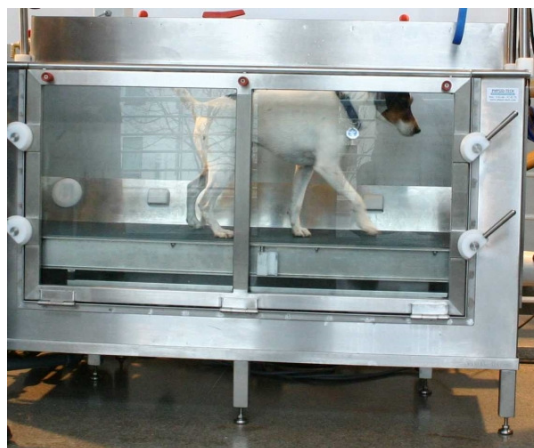
**Control Cabinet.**



**Rack for Dog Safety Harness.**



**Treadmill Riser. This option raises the treadmill by 20 cm (8 inches). Recommended for the treatment of smaller patients.**



Maintenance and Service

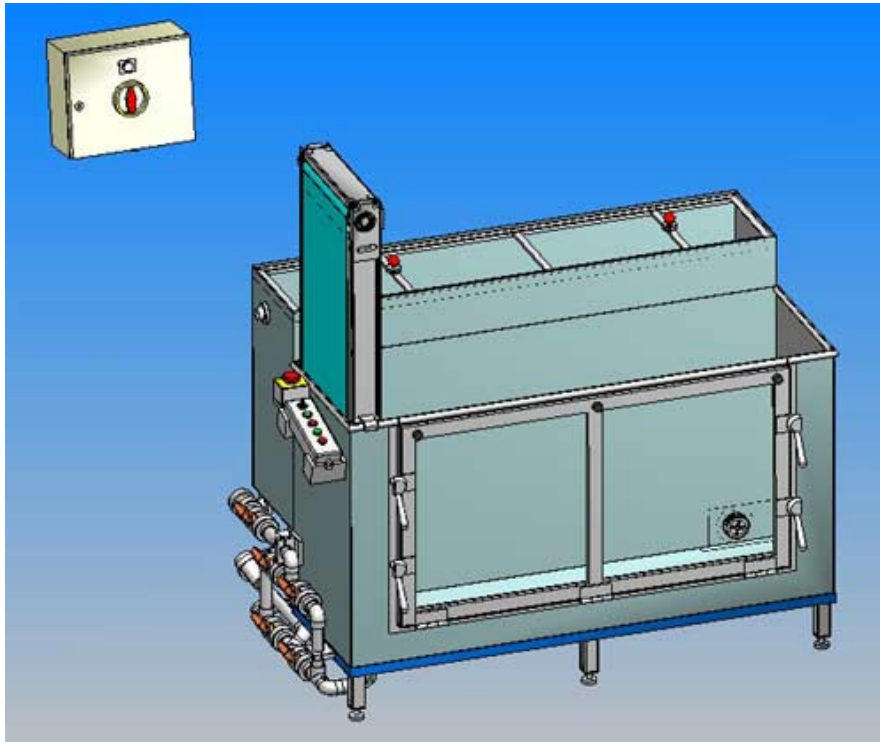
The treadmill can be easily removed without tools with one grip. It can be placed in a vertical position or it can be removed from the basin.



The basin is well designed and all areas are easy accessible for cleaning.



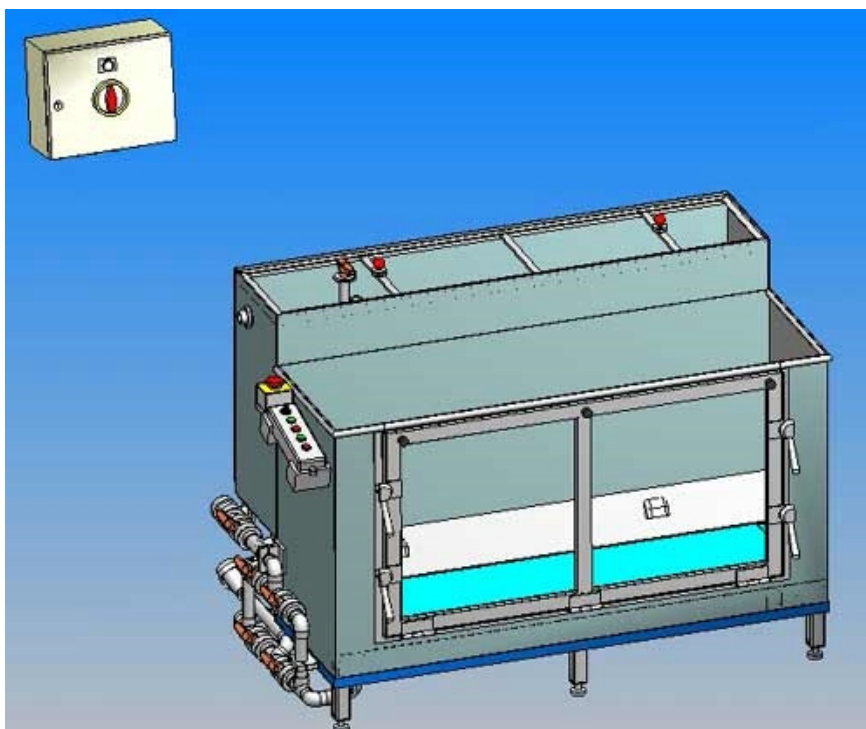
## Technical Details



Therapy basin with the front access door closed and with the corresponding control cabinet.

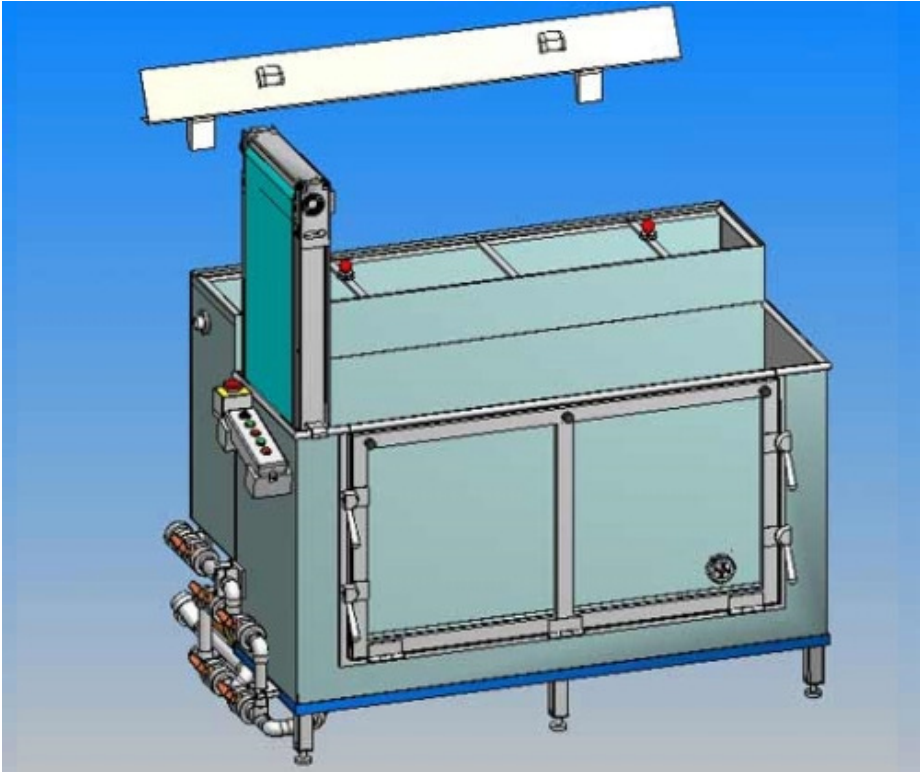
Measurements: Length: 155 cm; Width: 80 cm; Height: 100 cm. Net weight: 100 kg, Total weight (filled with water) 500 kg.

Made of stainless steel. The door serves as an access ramp when opened.

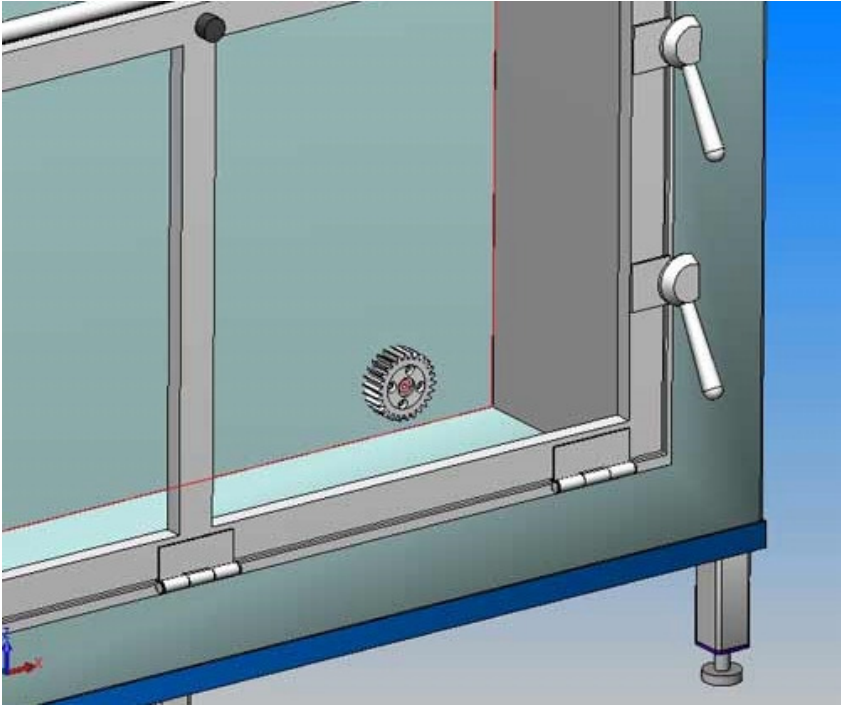




After removal of the protection cover the treadmill can be easily lifted up and attached to the brim with a plastic clip to allow for easy cleaning.

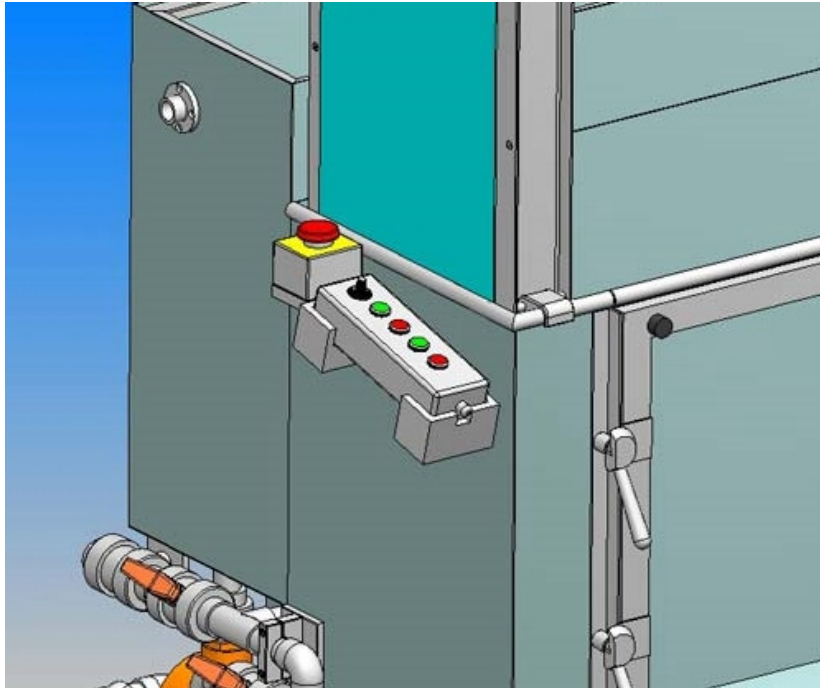


When closed the access door can be locked watertight by turning four eccentric levers by 180 degrees. The treadmill is driven using a wear resisting plastic gear.



The therapy basin is operated by a remote control:

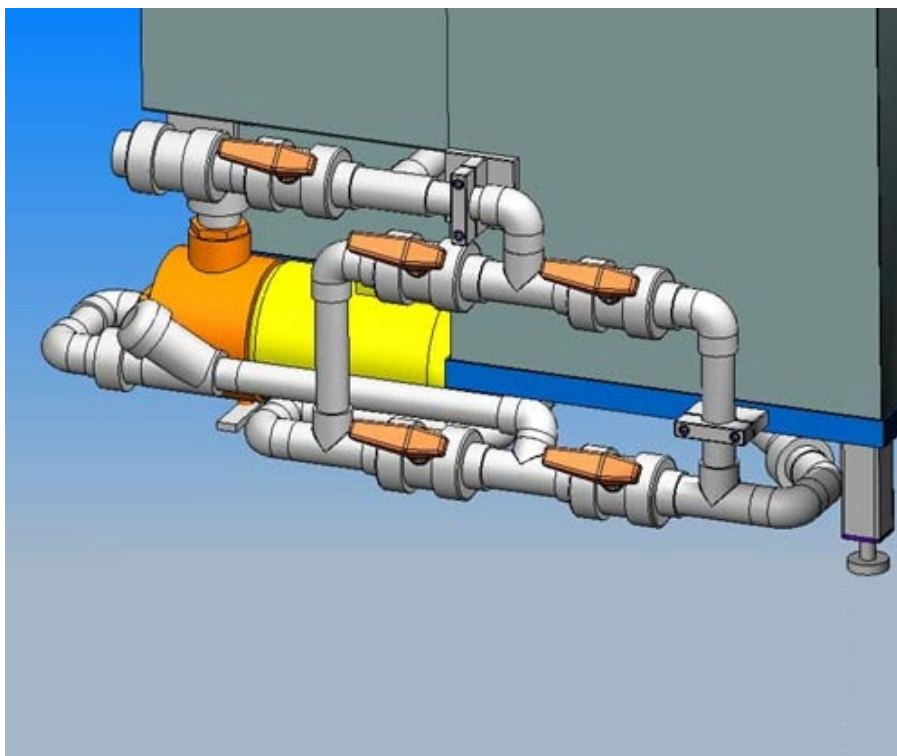
- Switching the pump on/off
- Switching the treadmill on/off
- variable speed control of the treadmill (0,2 - 3,2 m/s)



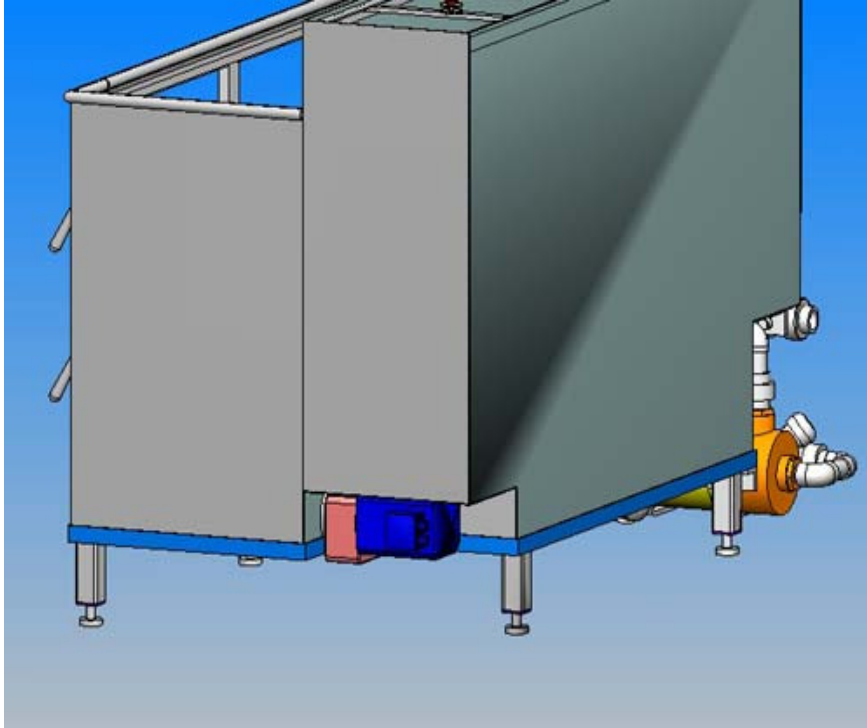
The following operations can be carried out using the ball valves:

- Pumping the water from the storage tank into the therapy basin and vice versa
- Draining both of the tanks into the sewer (secured by a non-return valve)

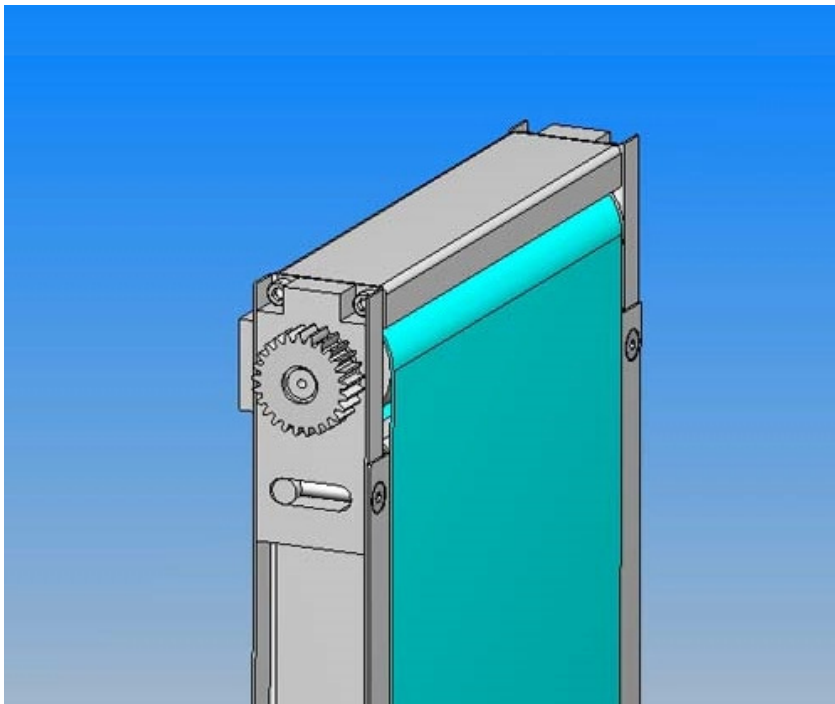
During each operation the water will be cleaned by a micro filter (80  $\mu$ )



The treadmill is powered by an electric gear motor. (220 V power outlet).

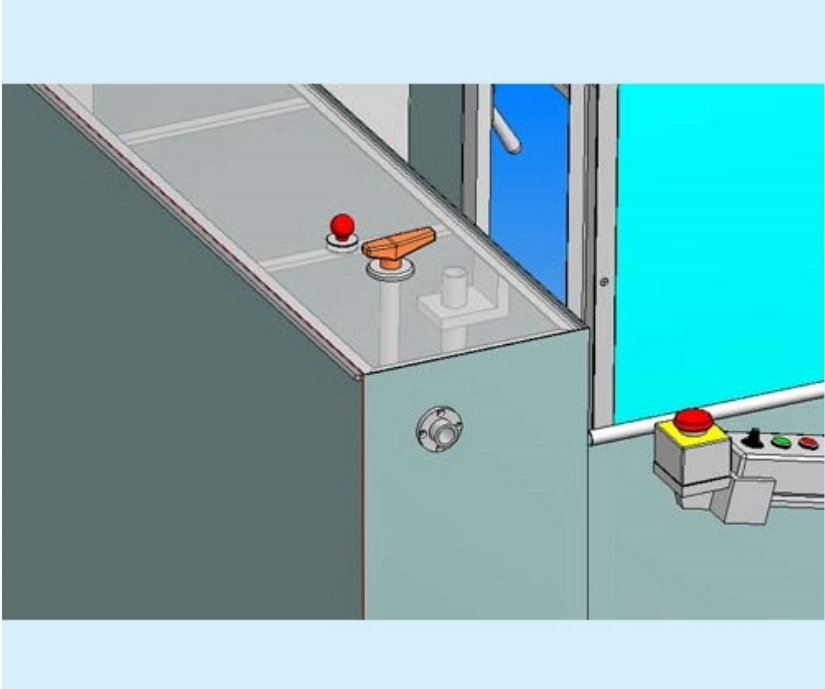


Retensioning of the treadmill is done using two set screws.

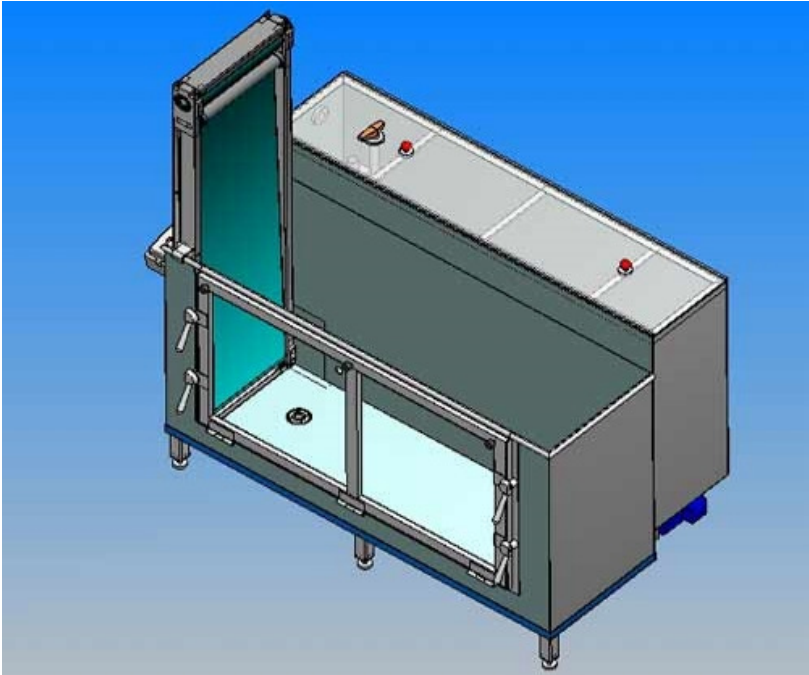




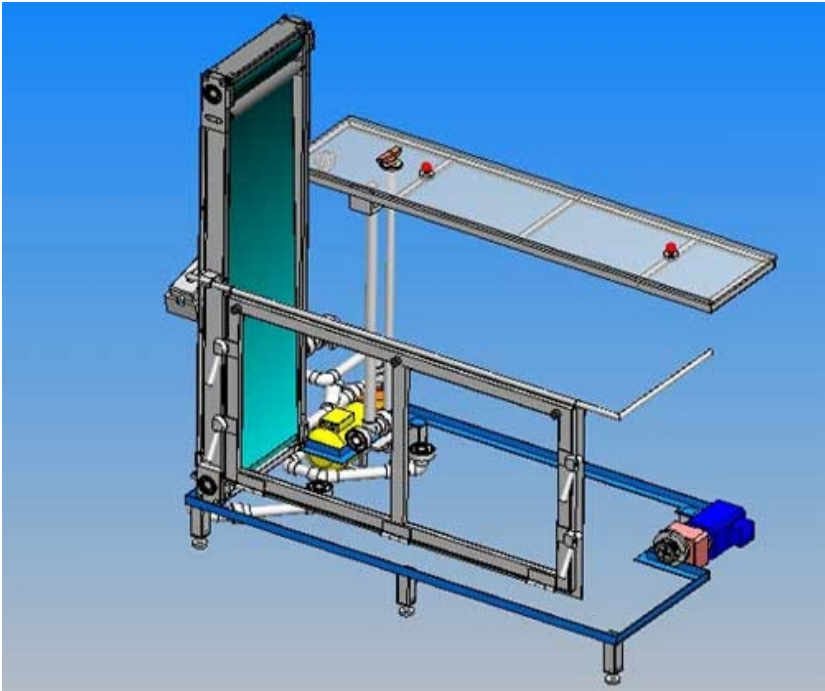
Water is admitted using a ball valve. The storage tank is covered with a plastic lid and secured by an overflow protection.



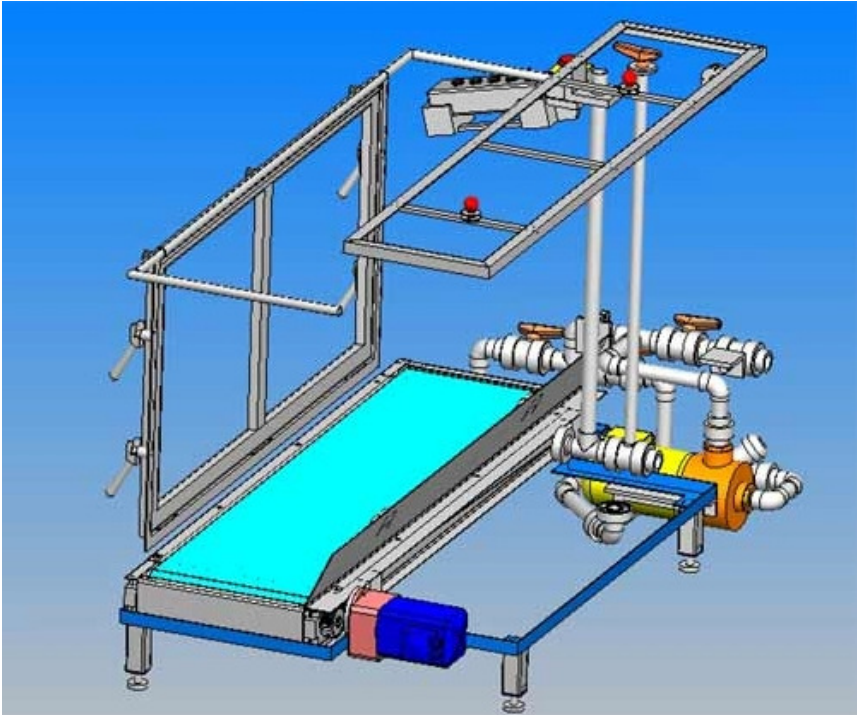
Water can be completely drained from the storage tank and the therapy basin using the electric pump.



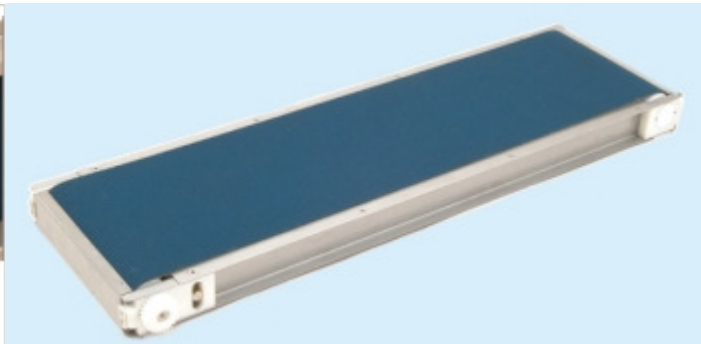
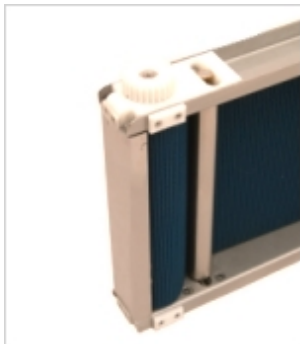
Overview of the of therapy basin. All components can be easily accessed for cleaning and maintenance.



An intermediate valve located between storage tank and therapy basin allows for levelling of the water in both tanks without using the electric pump.



## PHOTOS



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