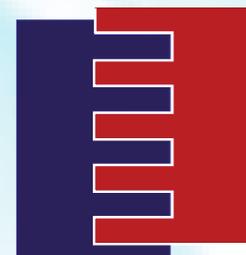
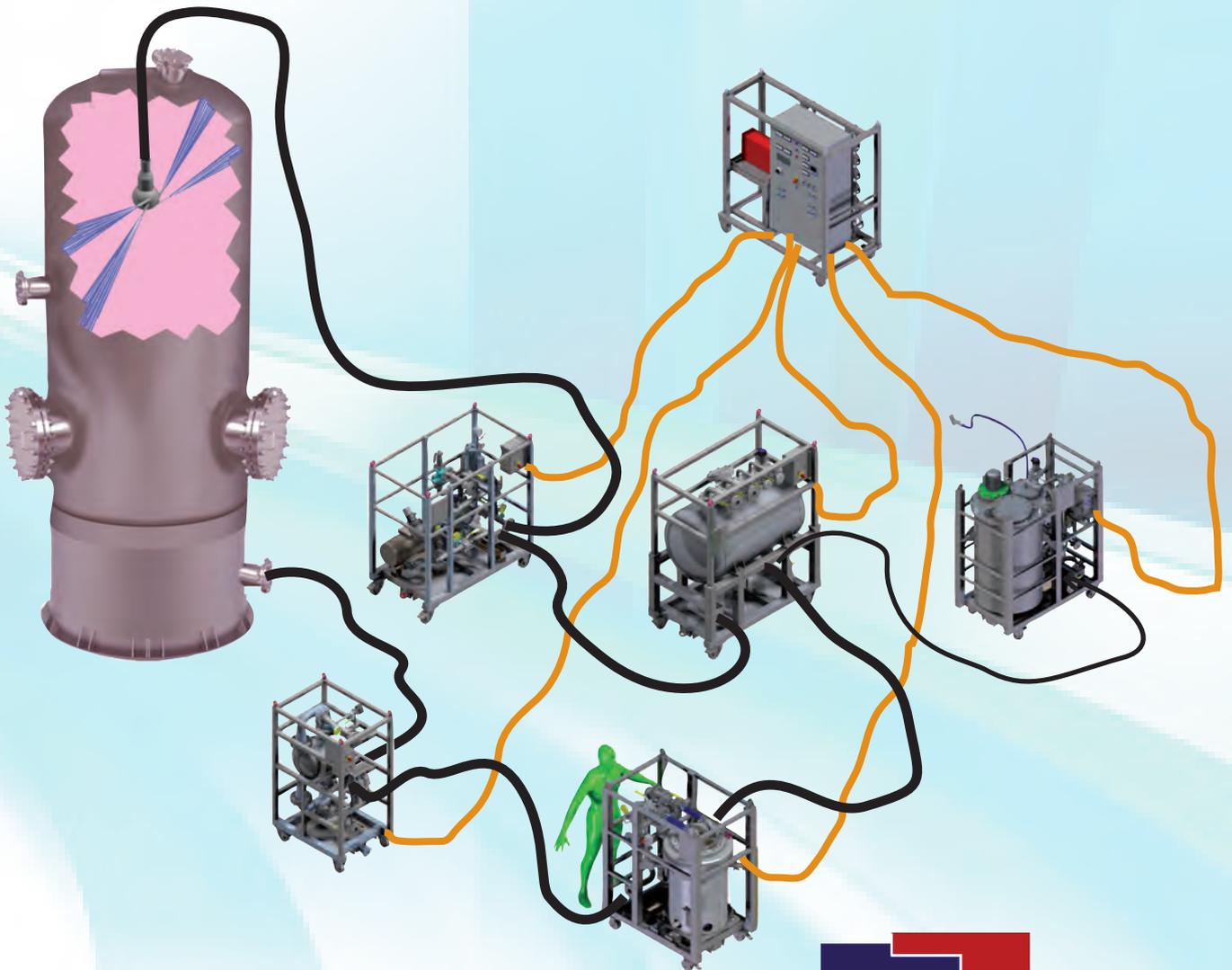


# DECO - SYSTEMS

## Mobile Decontamination System, Tanks and Pipes



**FAGERSTRÖM**  
DECO -SYSTEMS

# DECO-SYSTEMS

## The Process

The mobile decontamination system consists of movable modules, which are applied to decontaminate system components (tanks, pipe systems) in order to reduce the dose rate prior maintenance works or inspections in the nuclear power plant. The complete system consists of several modules with their own function which are used to provide mobility of the system. These modules are provided with electrical and control equipment and are operated from a local control panel.



### Module 1 Chemical Mixing Tank

The Chemical Dosing Unit are used for make-up of the chemical concentrates required for the decontamination and consist of a vertically mounted Chemical Mixing Tank with Agitator and includes all connections, pipes, valves and necessary instrumentation. The Chemical Injection Pump transfers liquid chemicals directly into the decontamination loop. For the decontamination process demineralized water or chemical solutions are used.

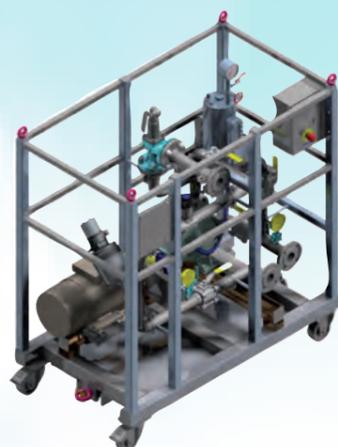
### Module 2 Decontamination Tank

The Decontamination Tanks serve as buffer tanks for the Decontamination Pump. The Module 2 consists of the Decontamination Tank with several nozzles and pipes for different connections (chemicals, demineralized water, contaminated liquid, venting), overflow and outlet of the tank.



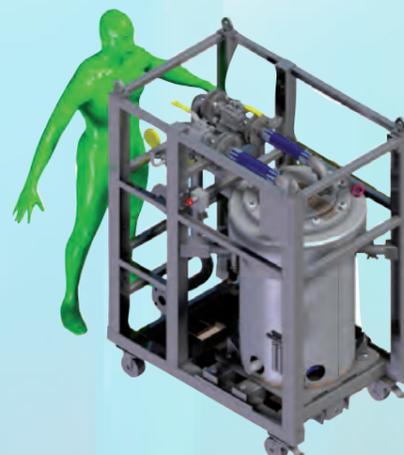
### Module 3 Decontamination Pump

The Decontamination Module consist of a centrifugal pump with a thermosyphon vessel (providing sealing water at a pressure greater than the system pressure) and pumps the liquid from the Decontamination Tank to the nozzle, mounted at the inlet flange of the component to be decontaminated.



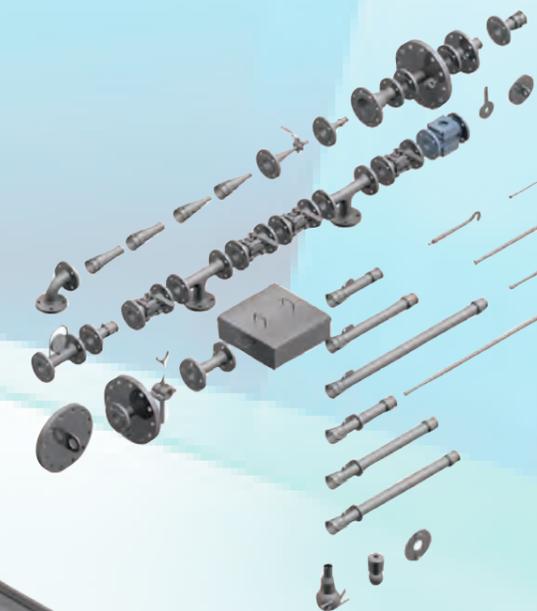
### Module 4 Extraction Pump

The Extraction Pump is an air driven sandwich diaphragm pump connected with the outlet flange of the component to be decontaminated, which pumps the liquid through the Decontamination



### Module 5 Decontamination Filter

The Decontamination Filter is a cartridge filter to remove impurities out of the decontaminated solution. It is located in front of the Decontamination Tank via flexible hoses.



### Accessories and dollies

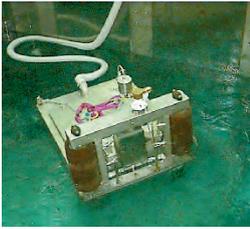
The accessories dollies are used for storage of hoses, service and maintenance of parts. As all other transportation carts, castors are mounted for easier handling and transportation. There are totally 7 accessories dollies in the system.

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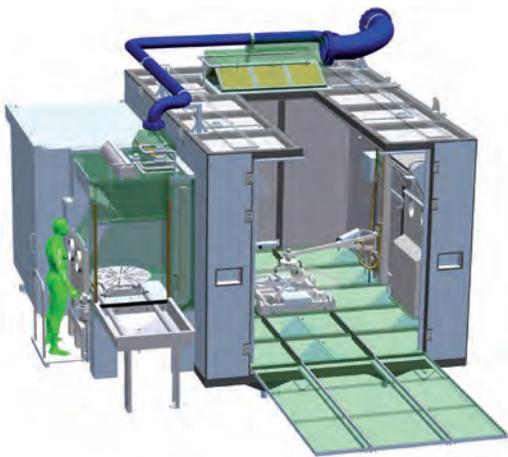
# Fagerström Deco-Systems has developed the most effective cleaning machines for decontamination of cavities as reactor- and fuelpools.



RCC-10 (Reactor Cavity Cleaner) cleans the basin with two against each other rotating brushes. The machine is easily manoeuvred along the walls and controlled by two joysticks. Transfer in height is done by emptying the basin. Two jetbeams provides necessary bearing pressure against the wall. Decontaminates the basin at the same time it is emptied. Minimizes necessary time for cleaning. Only the oxide layer is removed. Prevents airborne contamination by absorption. Crane is not occupied. Reaches even curved walls.



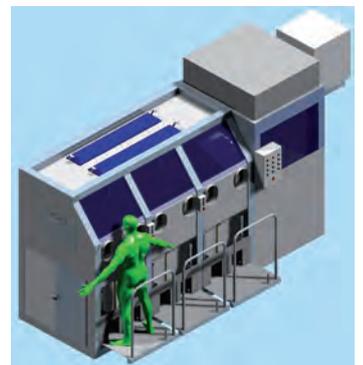
RCC-1 can be delivered with air motors or electrical motors  
The rotation of the brushes polishes the surface and removes the contamination without removing any material off the wall. RCC-1 is manoeuvred with the polar crane which it is hanged up in. A module system making it possible in an easy way to elaborate its accessibility after Your needs. RCC 1 minimizes time needed for cleaning, airborne contamination and also a considerable reduction of personal radiation dose.



Fagerström Deco-systems has developed High pressure and Wet blasting booths. We build to your needs.



Fagerström Deco-systems has developed a DeconWash for small parts. We build to your needs.



Fagerström Deco-systems has developed a Sorting Box for waste with In-Drum 20 tons Compactor. We build to your needs.

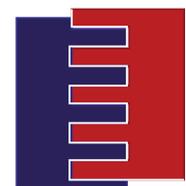


Fagerström Deco-systems has also smaller alternative High pressure or Wet blasting- and rinsing cabinets. We build to your needs.



Fagerström Deco-systems has developed a Drum Transport Trolley for easy handling of waste drums.

We build to your needs.



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