# FOAMDOS

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Dosing station for the production of foam for the use at e.g. massages

## 1. Function

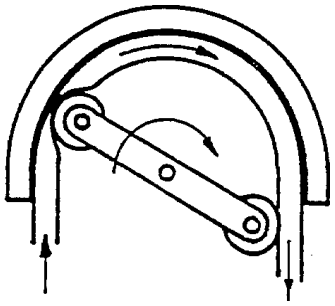
The FOAMDOS produces foam by the 3 components water, air and foam agent. The foam is brought onto a massage guest by a PVC hose. Furthermore a flushing function with warm water is integrated. The dosing quantity of the foam agent, the water flow and so the consistency of the foam is adjustable at the controller.

## 2. Technical components

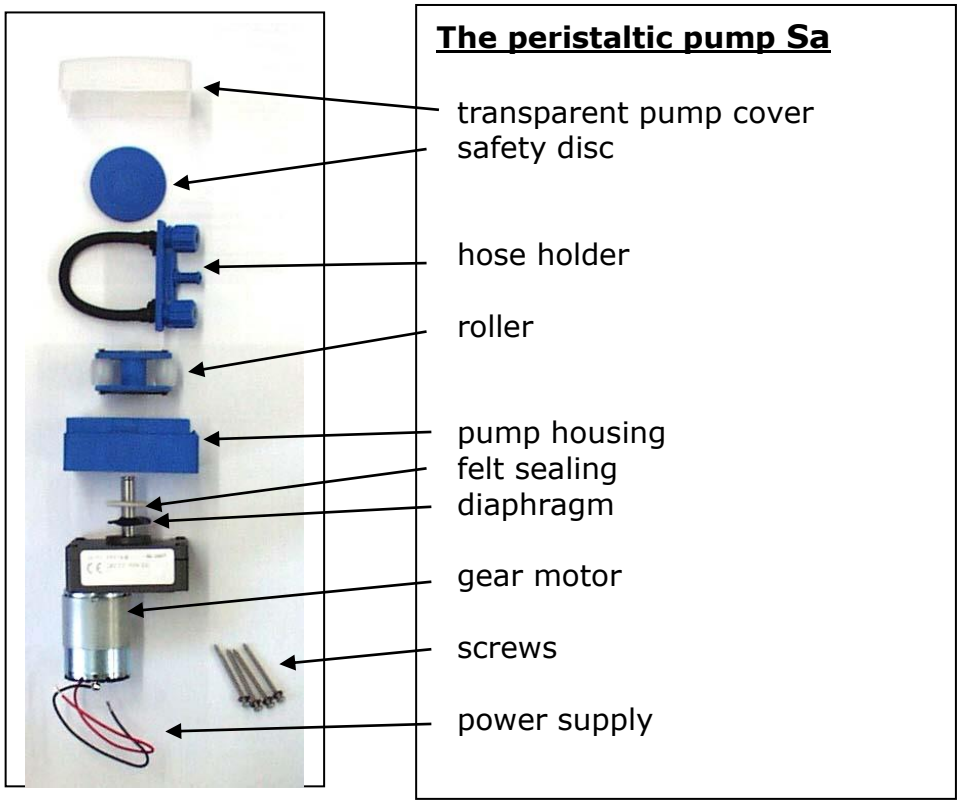
- ball valve ½", 1 pre filter brass ½", security device so that no foam agent can be sucked back into the water net, pressure gauge for the control of the system pressure
- 2 solenoid valves 3/8" for controlling the single parameters
- foam generator for the foam production
- peristaltic dosing pump UNODOS+
- mounting plate 50 x 50 cm
- hose PVC 12x1,5 transparent
- suction lance d12 420mm
- push button plate with 2 Piezo push buttons
- relay controller
- diaphragm air pump 7006 AC – flow rate 6,6 l/min - max. pressure 2,5 bar

## 3. Peristaltic dosing pump

A peristaltic pump is used to dose the foam agent. The pump is ideal for achieving low dose rates and is self priming (i.e. no air bubbles). Rotating rolls press the dosing hose against the pump tube housing, whereby the liquid within the hose is pressed out in front of the rolls and at the same time drawn in behind them . The pump is extremely reliable and very simple to handle.

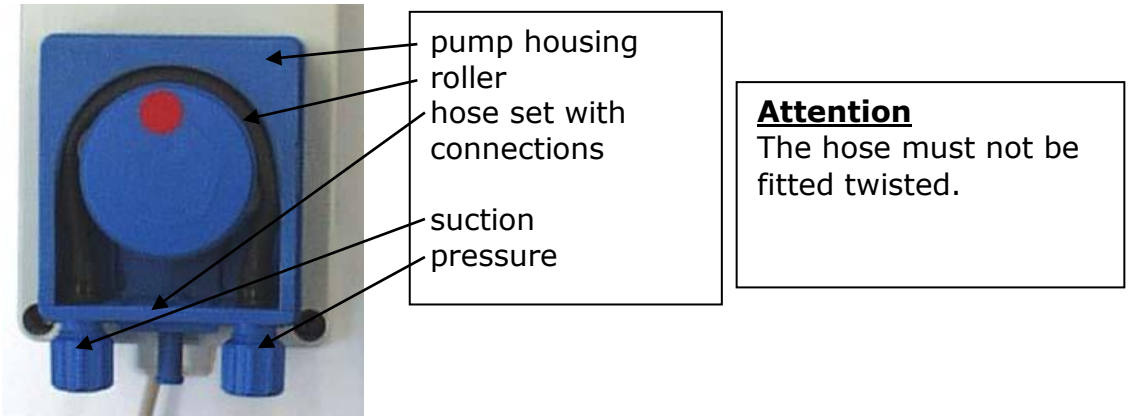


The dosing hose used is resistant against most agents that are in common use in the industry but we still recommend to check with your equipment supplier prior to use.




## 3.1 Changing the hose set

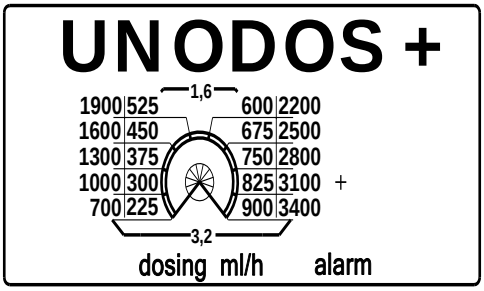
Remove the transparent pump cover and the yellow roller cover. To change the hose set the suction and pressure connections have to be pulled forward. Turn the roller to the right and pull out the pump hose over the cut out at the roller. On reassembly reverse this process. At the installation act contrawise.




**We can not guarantee the resistance of the hoses against every foam agents and fragrance oils that are common in use!!!**

## 3.2 Adjustment of the dosing performance

The dosing performance of the FLOCDOS +/ UNODOS+ depends on the used peristaltic hose diameter and can be adjusted as follows by the rotary button at the pump:




**UNODOS +**

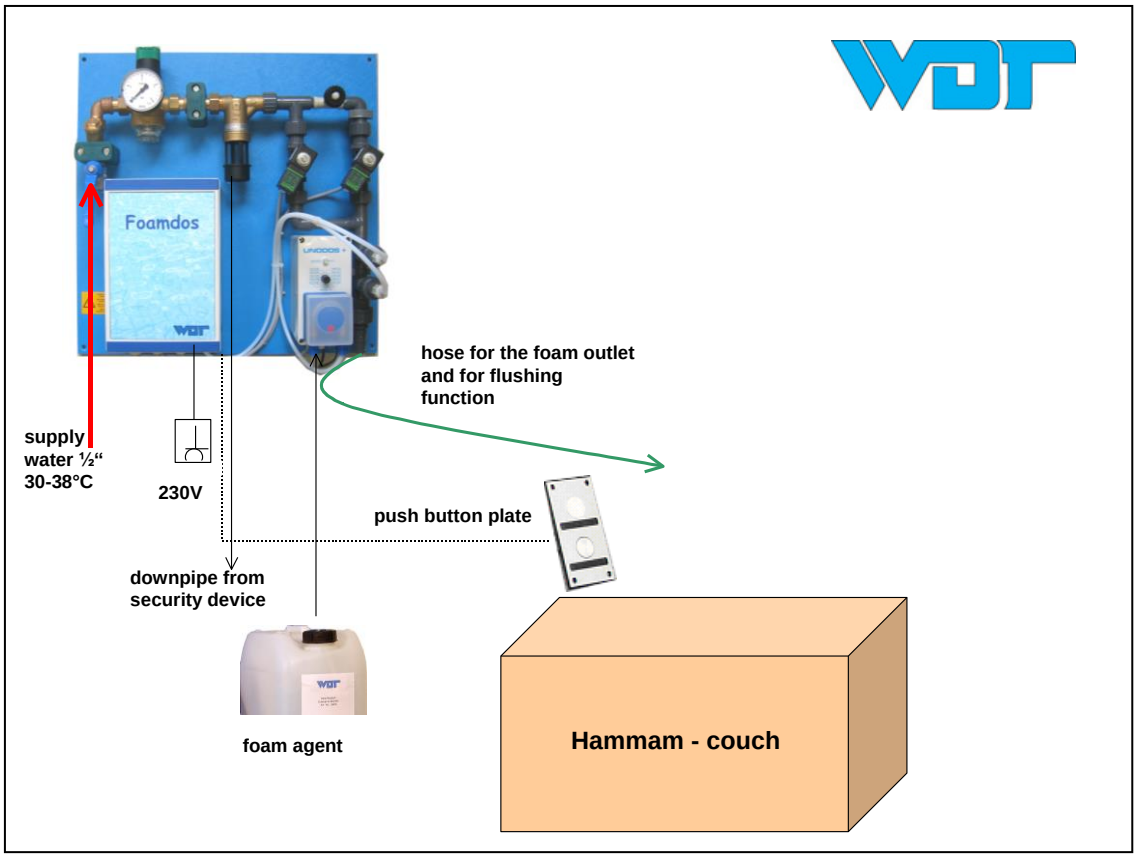
| Controller | hose diameter | rpm | dosing performance |
|---|---|---|---|
| DS-2 | 1,6x1,6 | 11 bis 50 | 200ml - 1000ml/h |
| DS-2 | 3,2x1,6 | 11 bis 50 | 700ml - 3300ml/h |

## 4. Installation / Taking the unit into operation

The unit has to be mounted at an easily accessable place next to the Hammam couch. The fragrance canister is placed under the unit on the floor and the suction lance is hung onto it so that the end of the lance reaches the bottom of the canister. Alternatively the FOAMDOS can be installed directly in the interior of the massage couch unless there´s enough space (50cm x 50cm). In both cases the tubings have to be installed according to the following schema.

The control housing with included diaphragm air pump is not mounted at the mounting plate but it is connected completely. The housing has to be operated in a horizontal position.

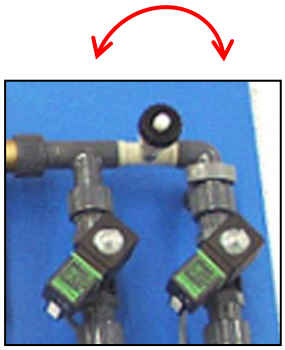
For shipping and stock-keeping there´s no hose inserted in the pumps preventing a deformation of the hose.




## 5. Adjustement of the foam consistency

The consistency of the foam can be adjusted by 2 parameters:
1) Dosing quantity of foam agent (see page 3)
2) Adjustement of the water flow by a valve on the plate:

more water → foam gets more liquid



less water → foam gets thicker

## 6. Maintenance

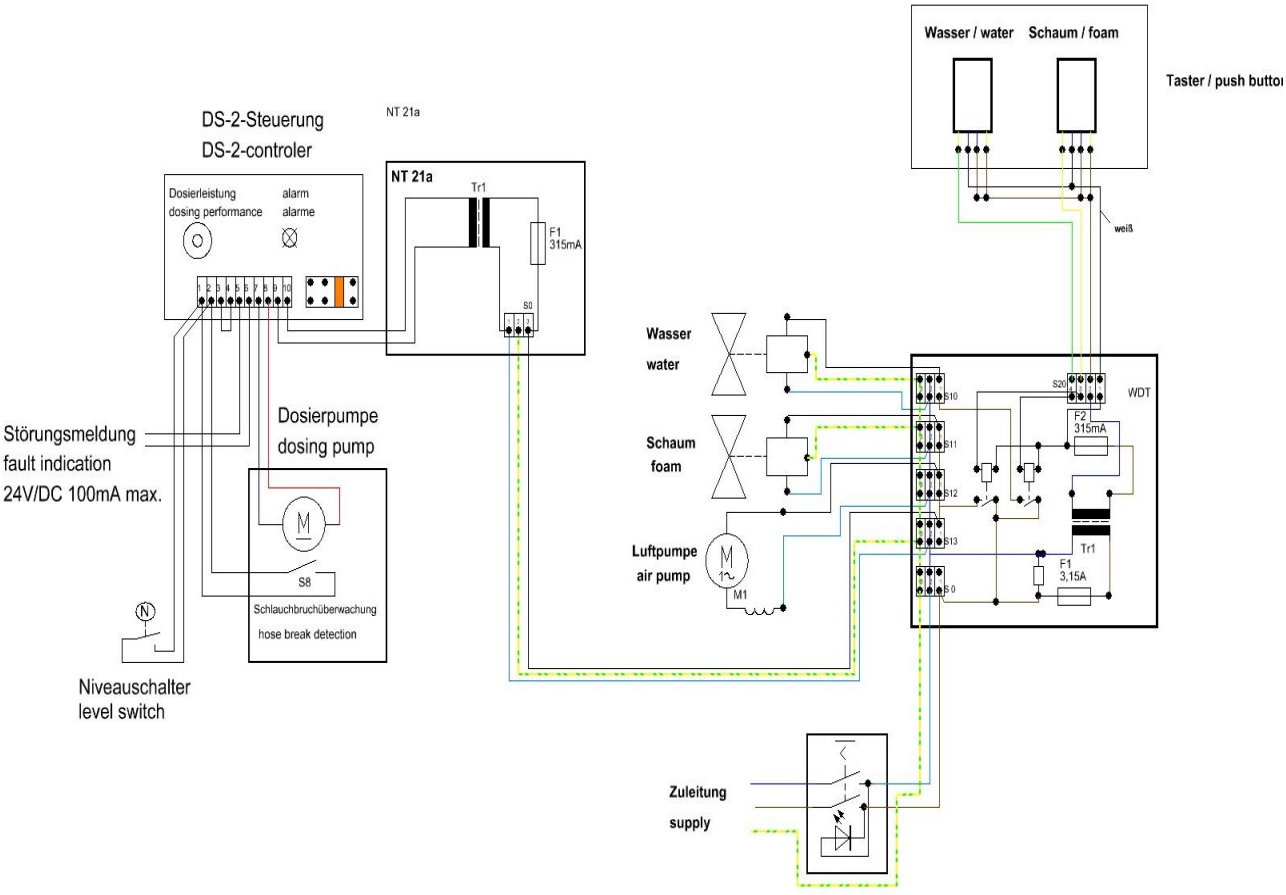
The peristaltic pumps is nearly maintenance-free and give long life if the following points are considered:

- unsuitable fragrances/ foam agents are not used
- check the pump head every time you change the canister
- change the hose twice anually, if required monthly.

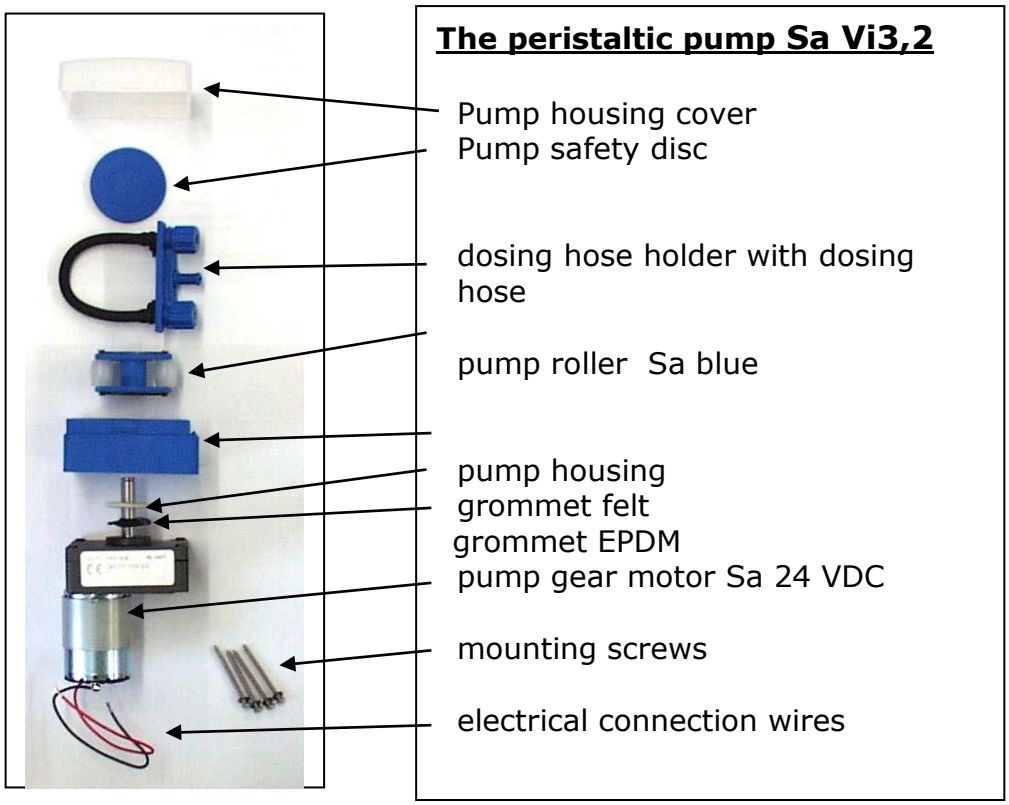
If the unit is taken out of service remove the dosing hose from the pump to prevent long term deformation of the hose.

Check the dosing valves if the components stick together at every time you change the canister with foam agent. If such a case comes up clean the valves with warm water.

## 7. Wiring diagramme



## 8. Spare part list




| Designation | code no. |
|---|---|
| **pump** | |
| cover for pump housing Sa, transparent | 14259 |
| pump safety disc | 13633 |
| pump roller Sa blue | 13039 |
| pump housing Sa blue | 14140 |
| grommet felt 2mm | 14166 |
| grommet EPDM 24x7x0.5 | 12709 |
| pump gear motor Sa 24 VDC | 13557 |
| mounting screw for SA pumps | 17067 |
| | |
| dosing hose kit 3,2x1,6 Ph-Sa | 13413 |
| | |
| **controller** | |
| knob 6mm with nose for control board | 11031 |
| control board for peristaltic pumps DS | 14337 |
| transformer WDT 21-A | 14420 |
| main switch 2p A-E 10A d20 round | 12764 |
| fuse 5x20 lazy 0,315A 315 mA | 11493 |
| fuse 5x20 lazy 1,25A | 11361 |

**water part**

| | |
|---|---|
| ball valve G 1/2" PN25 | 10423 |
| filter brass 1/2" | 11479 |
| solenoid valve PA 3/8" 230V | 14818 |
| solenoid valve plug with LED, cable 1,5m, | 13082 |
| pressure controller Ms 1/2" | 11121 |
| tube cutter 1/2" - CA 295 1/2 A | 14872 |
| dosing valve 3/8" - 1Kfa | 16663 |