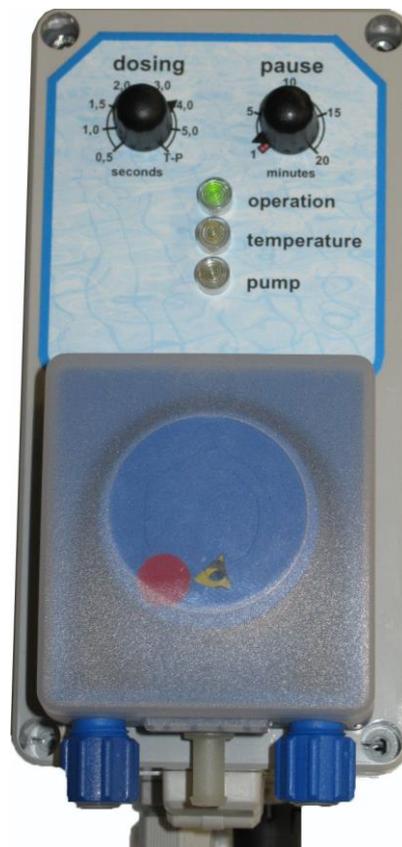


Duftdos – UNPL – with contact sensor

<u>Table of contents</u>	<u>Page</u>
1. Instruction for the manual.....	2
1.1 Validity	2
1.2 Target group	2
1.3 Storage of the manual	2
1.4 Further informations	2
1.5 Used symbols.....	2
2. Safety.....	3
2.1 Technical safety advice	3
2.2 Use in accordance with regulations	4
3. Delivery	4
4. Function	4
5. Technical Data	5
6. Fragrance pump.....	5
6.1 Change the hose set	6
6.2 Sparepartlist persaltic pump fragrance	6
6.3 Dosing valve.....	7
6.4 Spare part list dosing valve.....	7
7. Console for fragrance canister (optional).....	7
8. Installation / Commissioning / Dosing.....	7
9. Maintenance	8
10. Wiring diagramme.....	9
11. Change the set switching temperature.....	9



1. Instruction fort the manual

1.1 Validity

This manual describes the installation, commissioning / taking into operation and operation of the unit.

1.2 Target group

Only the trained persons in the functions of the device are allowed to operate. Connection works must be carried out by suitably trained professionals.

1.3 Storage of the manual

All manuals for the device and the installed components must be stored in the immediate vicinity of the equipment and shall be accessible at all times.

1.4 Further informations

For further information, please contact your dealer or company WDT Werner Dosiertechnik GmbH & Co KG.

1.5 Used symbols

	<p>Danger! Warning of Danger Failure to observe this warning may result in serious injury or death and/or damage to the unit.</p> <p><i>Every explanation of this sign has to be considered!</i></p>
	<p>Attention! Failure to observe this warning may result in damage to the unit.</p> <p><i>Every explanation of this sign has to be considered!</i></p>
	<p>Note! "Note " indicates a fact , the following of which leads to an improvement in the operation</p>
	<p>Corrosive! "Corrosive " indicates a fact which, if not avoided injury (destroys living tissue) and property damage may result.</p> <p><i>Every explanation of this sign has to be considered!</i></p>

2. Safety

2.1 Technical safety advice

Company WDT does not take the liability for damages that occur due to not considering this manual. The easy and safe operation of the unit assumes a correct transport, storage and installation of the unit. Respect the following advices to minimize the risk in injury or even serious injury or danger for life.

	<p>Attention</p> <p>The installation of the unit has to be done in accordance with the local safety norms (e.g. for Germany DIN/ VDE) and all other relevant governmental norms and laws.</p> <p>During the operation all covers of the unit have to be closed. Disconnect unit components from power supply prior to maintenance or repair work and secure against reconnection.</p>
	<p>Danger</p> <p>Please note the information in these operating and installation instructions about dangers, warnings and precautions.</p>
	<p>General</p> <p>Obey all safety notes and warnings present on the unit.</p> <p>In case of a malfunction, switch off the unit immediately and prevent a restart. Repair malfunctions immediately. After any repair work, have qualified personnel check the safe operation of the unit. Use original spare parts only. Additional national safety regulations also fully apply to the operation of this unit.</p> <p>Always use original spare parts!</p>
	<p>Accident Prevention Regulations</p> <p>Comply with the accident prevention regulation</p> <p>Accident Prevention Regulation Electrical Systems and Equipment (VBG4/BGVA2) must be observed to prevent injury to yourself and others.</p>
	<p>Operation of the Unit</p> <p>Do not perform any work which compromises the safety of the unit.</p> <p>Regularly check that all safety and monitoring devices are functioning normally.</p> <p>Do not remove or disable safety devices.</p>
	<p>Installation, Disassembly, Maintenance and Repair of the Unit</p> <p>Attention:</p> <p>Work on the electrical system may only be performed by suitably trained personnel.</p> <p>Disconnect unit components from power supply prior to maintenance or repair work.</p> <p>Attaching or installing additional components is permitted only with the consent of the manufacturer.</p> <p>In case of faults in the power supply switch off the device immediately.</p> <p>Use only original fuses with the appropriate amperage rating.</p>
	<p>Disposal after De-installation</p> <p>Note:</p> <p>The operator is responsible for the disposal of unit components as required by law.</p>

	<p>Mandatory Sign: Use Eye protection</p>
	<p>Mandatory Sign: Use face protection</p>
	<p>Mandatory Sign: Use protective gloves</p>

2.2 Use in accordance with regulations

The unit is only designed for the operation in the described use. Other fields of use are not allowed.

3. Delivery

- Please look for transportation damage when the unit arrived.
- Check delivery for completeness when the unit arrived.
- Do not let the goods fall down, do not flip and do not throw the goods!
- Open the package carefully!

	<p>Note: The operator is responsible for the disposal of unit components as required by law.</p>
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4. Function

The dosing unit DUFTDOS UNPL with contact sensor measures the temperature at the steam tube by an incl. temperature sensor. The dosing operation is released if the temperature has reached 70°C (ex works adjustment). After you press the push button the dosing is activated for 0,5 seconds till 5 seconds (adjustable) and aroma is injected into the steam pipe. Afterwards the dosing is locked for an adjustable (1-20 minutes) pause time.

If the temperature will get lower than 65°C the pump switches off automatically. Therefore, no fragrance can be dosed when the system is stopped. This "switch temperature" can be adjusted. Look at section 11.

- If the temperature will fall below the adjusted temperature the LED illumination of the button flashes (off + on 50% dimmed) in an Interval of 1 second. If the LED flashes the aroma dosing is deactivated.
- If the adjusted temperature will be reached the LED shines 50% dimmed and the aroma pump is ready for activation.
- If the button will be pressed, the LED illumination of the button flashes (100% + 50% dimmed) in an interval of 1 second and at the same time aroma will be dosed for the adjusted time. After the lapse of the pause time the LED shines 50% dimmed and the aroma pump is ready for a new activation with the push button

5. Technical Data

The dosing unit DUFTDOS UNPL SA with surface sensor consists of:

- peristaltic dosing pump type Sa
- special hose from Viton
- Controller UNPL-temperature with dosing-pause-adjustment
- Dosing rate 1ml to 5ml each dosing
- Hose-surface sensor
- Suction hose from PE 4x1mm; 1,5m long

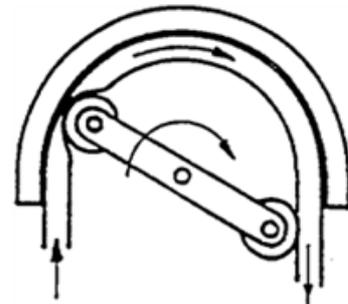
Options

Title	article number
Dosing-set DD complete:	12596
- Dosing valve for fragrance SS 3/8"	15108
- 3m dosing hose PTFE 6/4x1mm	10432
Console with 1,5l canister	13892
Console PE gray for 3-10l canister	14391
Piezo push button 24V, diameter 60mm	23561
Mounting sleeve for LED spots d-55mm/l-113mm	20924
Sealing flange, tiles d48mm complete	20976-1

6. Fragrance pump

A peristaltic dosing pump is used for dosing, which safely promotes also smallest quantities. Even when Air- or gas-bubbles are trapped in the suction line. 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.

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



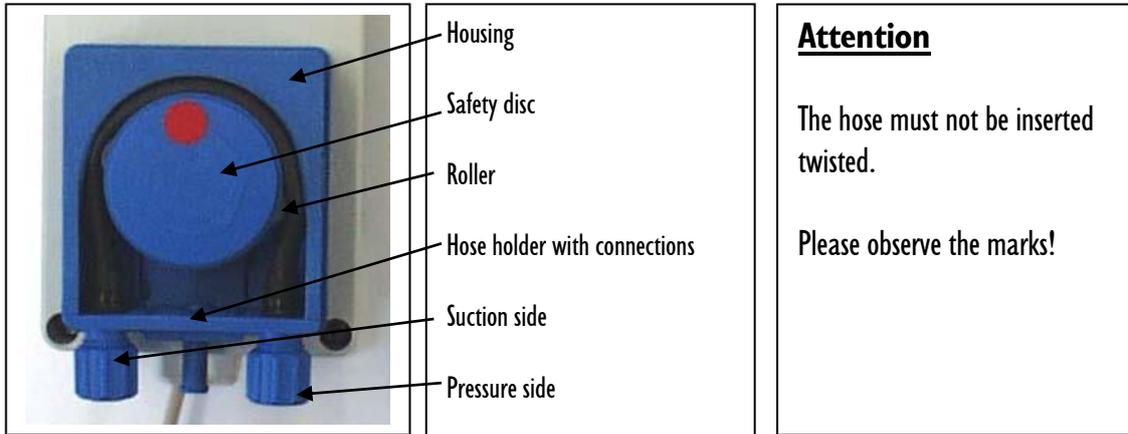
Attention!

- Back pressure must not be higher than 0.5 bar
- Use only original WDT dosing valves.
- Don't bend the dosing tube.
- Use only PTFE dosing tube.

Company WDT can take no warranty for the resistance of the hose against every fragrance concentrate on the market!

6.1 Change the hose set

Remove the transparent pump cover and the blue safety disk. To change the hose set the hose holder, suction and pressure connections have to be pulled forward. Turn the roller to the clockwise and pull out the pump hose over the cut-out at the roller. On reassembly reverse this process.



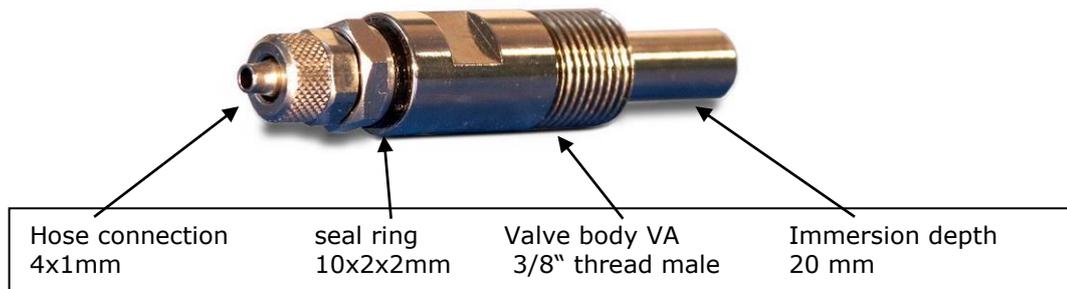
6.2 Sparepartlist peristaltic pump fragrance

	<u>The peristaltic pump</u>	<u>article no.</u>
	Transparent pump cover Sa	14259
	Safety disc for roller Sa blue	13633
	Hose holder Sa, for fragrance with Viton hose	13358
	Hose set Sa (2 dosing hose 3,2x1,6 Viton Sa, with 4 hose clips)	12782
	Roller yellow	12609
	Pump housing blue	14140
	Felt grommet	14166
	Membrane	12709
	Gear motor	18769
	Mounting screws	17067
	Electrical connection red = positive / black = negative 24VDC	

6.3 Dosing valve

A push back of steam into the dosing tube is prevented safely by a spring loaded non-return, dosing valve. The valve body is completely made of stainless steel.

Dosing valve for fragrance (optional)



6.4 Spare part list dosing valve

Description	article No.
Dosing valve complete	15108
Seal ring	10421
Hose connection	10410
Dosing hose PTFE 4x1 (1m)	10432
Suction hose PE 4x1 (1m)	12064

7. Console for fragrance canister (optional)

As standard, the Dosing unit for wall mounting is delivered. The fragrance canister is placed on the floor.

Optionally there is a console for a higher installation of the fragrance canister available. So the fragrance canister has a distance to the floor.

8. Installation / Commissioning / Dosing

The dosing unit has to be mounted in an easily accessible place on the wall, about 1m above the floor. The fragrance canister is placed under the unit. The suction hose is inserted into the fragrance canister, so that the hose-end touches the bottom of the canister. If you use the console, you can choose the mounting place you like.

For transportation and storage of the unit there are no roller inserted in the pumps to prevent a deformation of the hose. To mount the roller see section 6.1, Change the hose set.

The dosing valve has to be screwed into the dosing point and the dosing hose from PTFE 4x1mm will be connected between the pump and the dosing valve. It is good to install the dosing tube in a protection tube / empty conduit.

	<p>Attention!</p> <p style="color: red;">Do not bent the dosing hose! The fragrance may not be able to run back into the steam line to the generator!</p>
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Mounting of the contact sensor on the steam line

The temperature sensor type NTC 20 K Ω , is a contact sensor for mounting at steam-carrying tubes. The sensor measures the temperature at the pipe wall of the steam pipe.

Article no.: 23721

Scope of delivery:

Temperature sensor NTC 20 k Ω
incl. tensioning chain with spring



Temperature sensor with tensioning chain and spring

Mounting:

	<p><u>Attention!</u></p> <p>Risk of scalding at the hot steam lines!</p>
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- Take the coil spring with the small chain, placing them on the steam pipe and hook the chain with a slight tension on the coil spring. Check if the chain is securely hooked on the coil spring.
- Now pull the coil spring from the steam pipe up and push the head of the temperature sensor between the steam pipe and the coil spring, so that the coil spring is located in the recess of the sensor head (see picture). Look out for a tight fit of the sensor head.

Then you adjust the desired dosing value at the rotary knob for the dosage. The dosing pump delivers per second running time approximately 1 ml fragrance. The green LED indicates the unit is read to operate. The yellow LED temperature indicates reaching the set temperature of the steam line.

Because the dosage of the fragrance is coupled via the contact sensor to the steam generator it will only dosed when the steam pipe is hot and at the same time the steam generator produces steam.

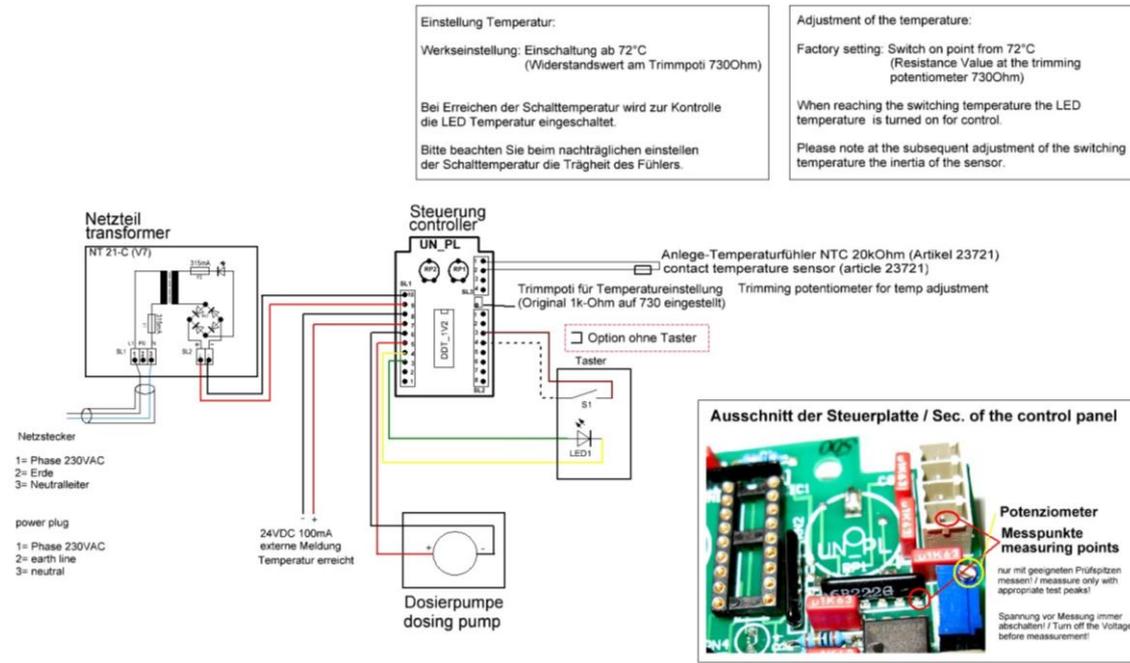
9. Maintenance

The DUFTDOS dosing pumps are practically maintenance-low and giving long life if the following points are considered:

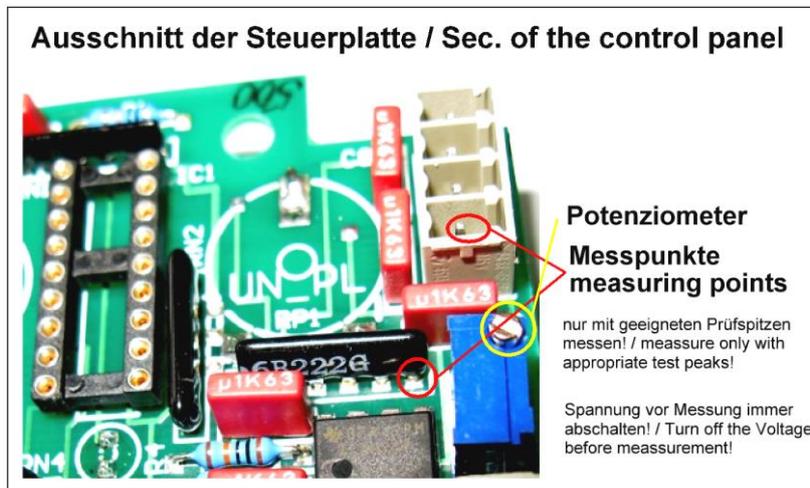
- Unsuitable fragrances are not used
- check the pump head every time you change the canister
- at least change the pump hose twice a year, or as needed

If the unit is taken out of service remove the dosing hose from the pump (see under section 6.1) to prevent long term deformation of the hose.

10. Wiring diagramme



11. Change the set switching temperature



The switch-on temperature is factory set at approximately 70°C. This pre-setting is optimal for most applications. In the factory setting the resistance value between the measuring points is 730 ohms.

If the switch-on temperature should be changed, so you can do these, when you turn the adjustment screw at the potentiometer. If you turn clockwise, the switch on temperature will go down (the resistance will be higher). If you turn counter-clockwise, the switch-on temperature will be higher (the resistance will go down).

The temperature range can be adjusted from approximately 67°C to 85°C, deviations from these values can occur by the tolerances of the potentiometer.