



PERFECTLY CLEAN – FOR SURE



# DOSING SYSTEMS USER MANUAL

## HN10/HN11 & HN12/HN13/HN14



## Range of application and use of Buzil dosing systems

Buzil dosing systems operate according to the Venturi principle, which usually achieves exact and reliable dosing. Buzil dosing systems can be used for dosing, cleaning and disinfecting products in non-medical areas thanks to their chemically inert components.

### Operational safety of the Buzil dosing systems

In the Buzil dosing systems, an E-gap ejector provides back flow protection through the use of an elastomer sleeve and is compliant with the requirements of the European water protection standard DIN EN 1717, Category 4. The system requires little maintenance and does not scale up.

### Dosing system models:

#### 1 channel dosing system:

HN10-0001: Dosing system, 1 channel, 14 l/min.

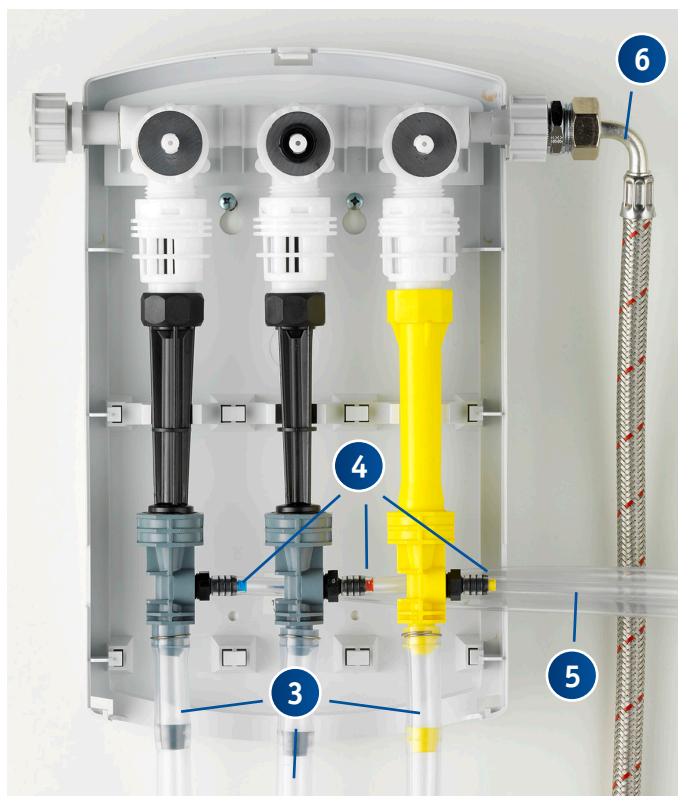
HN11-0001: Dosing system, 1 channel, 4 l/min.

#### 3 channel dosing system:

HN12-0001: Dosing system, 3 channel, (3x4 l/min)

HN13-0001: Dosing system, 3 channel (2x4/1x14 l/min)

HN14-0001: Dosing unit, 3 channel (3x14 l/min)



1. Connection thread for additional dosing system
2. Operating keys for dosing the cleaning product
3. Discharge hoses
4. Dosing nozzles
5. Suction hoses
6. Water feed pipe

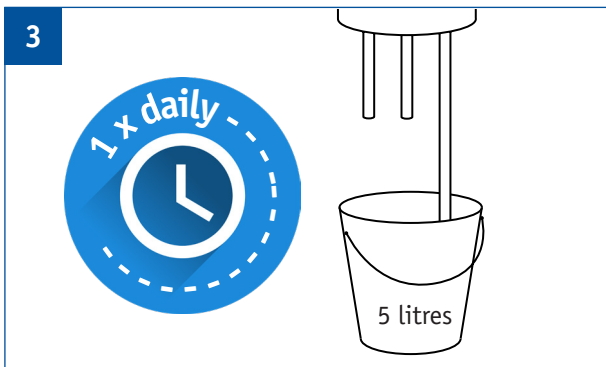
The following applies to the hygienic handling of Buzil dosing systems:



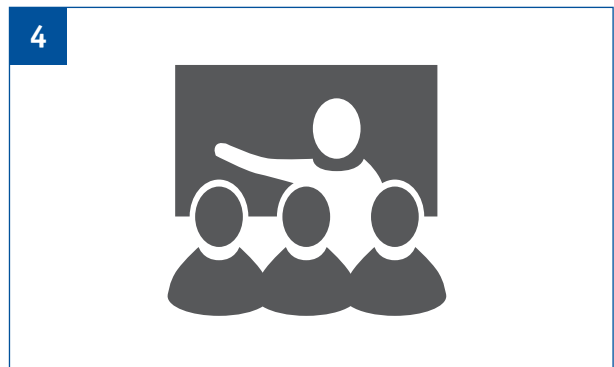
Disposable gloves must be worn before contact with the hose end to prevent microorganisms from entering the hose end and further into the hose interior.



Always make sure that no water or product solution can accumulate in the hoses. This can be ensured by running the hoses vertically downwards, without contact with the floor or dirty buckets, etc.



Operating the devices at least once a day is recommended. At least 5 litres of solution should be used. Downtime of >24 h is to be avoided due to the risk of biofilm formation.



Employees must receive regular training in the correct handling of the dosing stations and on the subject of dosing generally.

#### Adjustment and control of the Buzil dosing systems

- We recommend regular, half-yearly checks of general functionality and this must be documented in writing.
- In particular, the dosing accuracy must be checked (e.g. by metering). If necessary, the dosing must be reset.
- The hose connections are also visually inspected for biofilm formation. These must be replaced where necessary.

## Checking dosing accuracy

Instructions for „metering“ to determine the dosing accuracy:



A specific quantity of cleaning product, 800 ml for example, is measured in a measuring vessel.



The suction hose is inserted down to the base of the measuring vessel, and a reading is taken from the markings.



A bucket is filled with a defined quantity (at least 5 litres) via the discharge hose of the dosing system.



The quantity removed from the measuring vessel can now be read off.

**5**

**Example:**  
 $200 \text{ ml} / 8,000 \text{ ml} \times 100 \% = 2.5 \%$

The removed quantity is then given as a proportion of the total quantity.

**6**

Target Value -----

Actual Value -----

The determined amount is then compared with the target value.



Using other nozzles can have an effect on dosage, and another check should be made to ensure the target dosage has been reached.

## Setting dosage by choosing a nozzle



1 Wear gloves and protective goggles.



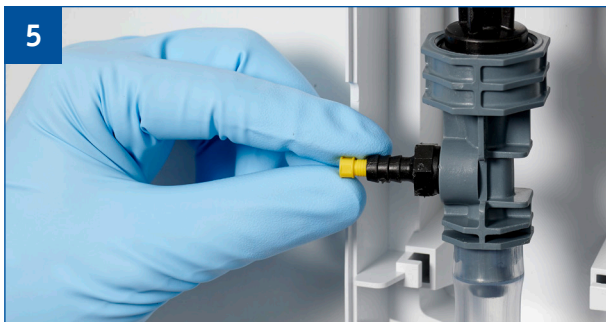
2 Open the Buzil dosing unit by pressing the upper retaining clamp.



3 The front cover of the dosing unit can now be removed.



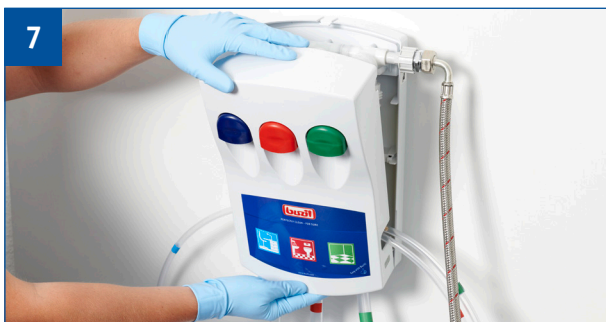
4 Remove the transparent hose from the nozzle.



5 Simply remove the desired nozzle from the mount.



6 Attach the new nozzle and the transparent hose.



7 Replace the front cover.

## Changing the discharge hoses



1 Wear gloves and protective goggles.



2 Open the Buzil dosing unit by pressing the upper retaining clamp.



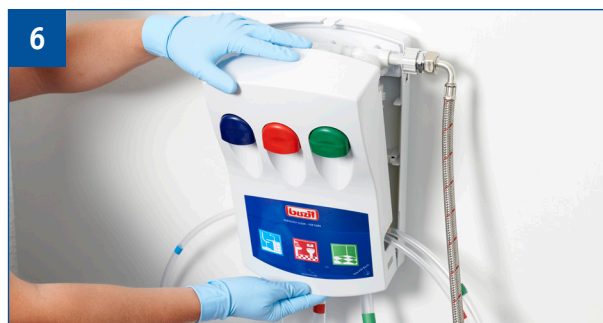
3 The front cover of the dosing unit can now be removed.



4 Pull the hose downwards at the upper end.



5 Replace the new hose by pushing it upwards.



6 Replace the front cover.

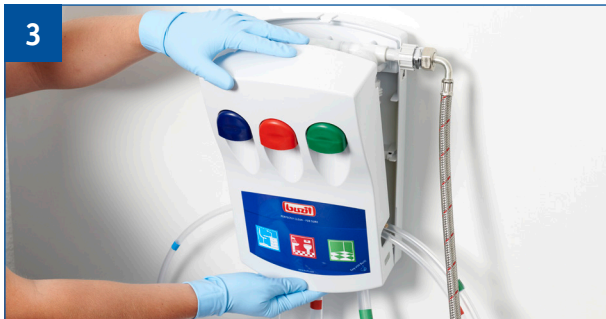
## Changing the suction hoses



1 Wear gloves and protective goggles.



2 Open the Buzil dosing unit by pressing the upper retaining clamp.



3 The front cover of the dosing unit can now be removed.



4 Remove the hose from the valve



5 Unscrew the canister lid.



6 Remove the hose from the canister.

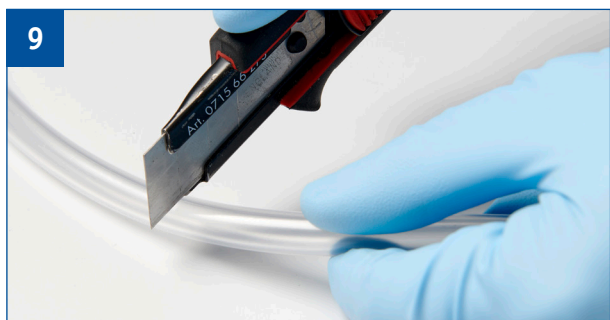


7 Pull off the foot valve.



8 Measure the length of the hose.

## Changing the suction hoses – continued



9 Cut the hose to the required length.



10 Replace the foot valve on the hose.



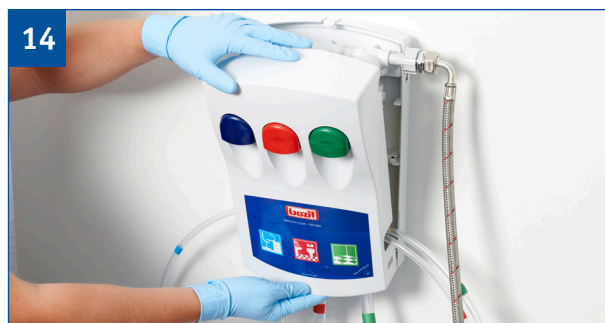
11 Insert the hose into the canister.



12 Screw the canister lid shut.



13 Replace the hose onto the nozzle.



14 Replace the front cover of the dosing system.



## Changing the foot valve



1 Wear gloves and protective goggles.



2 Unscrew the canister lid.



3 Remove the hose from the canister.



4 Pull off the foot valve.



5 Attach the new foot valve onto the hose.



6 Insert the hose into the canister.



7 Screw the canister lid shut.

## Ordering replacement parts

All moving parts such as nozzles (complete set), suction and discharge hoses in prefabricated lengths (depending on model), as well as foot valves, can be reordered individually if required.

## Service technician

After an appointment has been made, our service technicians (subject to a charge) will install the dosing systems and later change nozzles, valves and hoses.





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