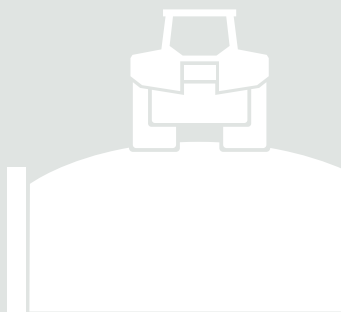




**Applicator unit for
forage harvesters,
loader wagons
and balers**

**Simple and reliable
silage success**



i At a glance

- suitable for many machines
- simple self-assembly
- dosing quantity 2 - 40 l/h
- cooling tank for fit bacteria
- with fill level display on the tank
- includes accessory set consisting of cool box (13 litres), mix ball, cool pack and whisk
- detailed instructions with dosing table

vario pro



Dosing made easy with the vario pro

- robust and weatherproof thanks to the stainless steel socle
- solid integrated diaphragm pump (12 V) with pressure switch
- resistant suction strainer
- continuously adjustable flow rate
- electric control unit
- pick-up sensor with switch
- non-return valve prevents backflow and dripping
- sturdy cup filter
- 2 nozzle holders
- 3 different nozzle sets included

Lactic acid bacteria are alive – and don't like high temperatures

Our cooling tank offers the little helpers optimum conditions, even in warm weather

- Mix shortly as possible before use.
- Do not underestimate the waste heat from the machines – uninsulated or permanently installed tanks heat up quickly and damage the bacteria.
- The insulated tank keeps the lactic acid bacteria fit for longer: low temperatures slow down the metabolism – the sugar from the carrier lasts longer.



There must be 2.5 metres of hose between the **diaphragm pump** and the **non-return valve** to ensure smooth operation.



Robust non-return valve

Prevents backflow and dripping.

Holder and flow meter (2 - 40 l)

The holder with the flow meter should be assembled vertically, preferably within the machine operator's sight area. It makes easy to remove the flow meter and holds it securely in place.

Lay the **cables** so that they are neither pinched nor chafed!



Cooling tank

The **insulated tank with fill level display** protects the bacteria from heat. It holds 20 litres and its lid is secured with expander loops. It is attached to the machine individually in the frame.

vario cool set

The **mixing ball** ensures a permanent mixing process in the tank due to the constant movement of the machine.

The **vario cool box** with the **cool pack** is used to keep the silage bags cool during transport. The cool pack can also be placed in the tank at warm temperatures. A **whisk and dosing plan** complete the set.

Weatherproof stainless steel socle

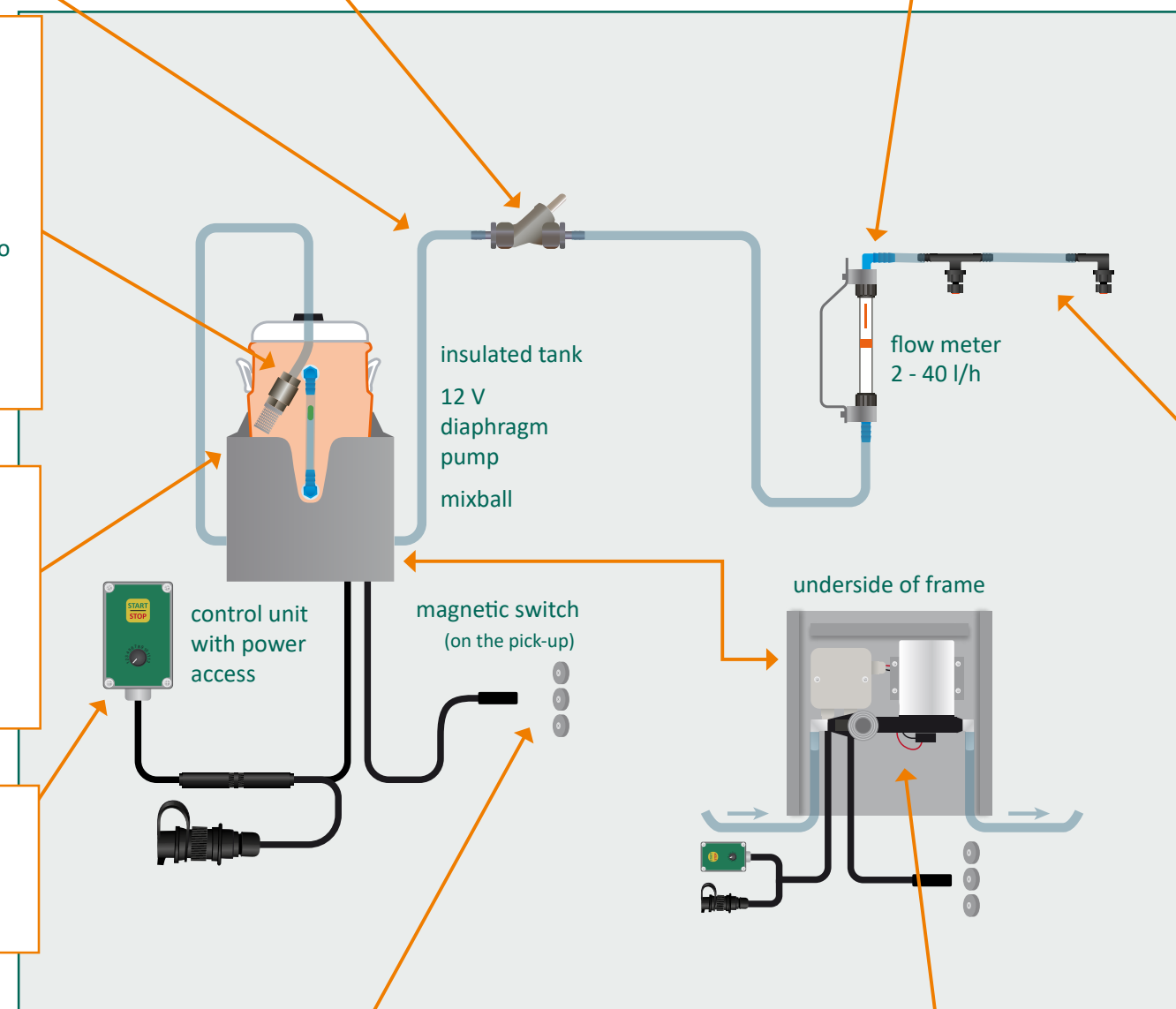
Robust holder for the cooling tank, the pump and an additional 10 A fuse. It can be mounted variably on the machine.

Sturdy suction strainer

The sturdy design prevents foreign particles from entering the mechanics.

Electric control 12 V

The flow rate is continuously variable for precise dosing. It can also be used to switch the pump on and off. The control unit can be easily mounted in the driver's cab thanks to its magnet.



2 nozzle holders (nozzle set included)

One or both can be connected as required. This makes it suitable for many different appliances. The hose length can be customised.

Nozzles:

- brass (2 - 8 l/h)
- orange (8 - 20 l/h)
- green (20 - 40 l/h)

Pick-up sensor

This sensor interrupts the dispensing process while the pick-up is lifted.

It is connected with a plug and works via a magnetic field (3 magnets included for attachment). The control unit automatically recognises whether a sensor is connected or not.

12-volt diaphragm pump

The pump is integrated in the frame. It has a pressure switch and switches off in the event of overpressure to prevent damage.

10 A fuse

In the event of an overload or short circuit, a fuse protects the appliance and the lines. It can be easily replaced by unscrewing the plastic cover.

Clean with clean water – ideally **after every use!**

This prevents persistent **biofilm** from forming and the appliance is ready for the next use.



Accessory set included!

- **mixball** ensures constant mixing in the tank
- **cooling box** for storing the silage additive bags
- **cool pack** maintains the temperature in the box and can also be placed directly in the cooling tank if the outside temperature is particularly high
- **whisk** ideal for mixing the silage additive

Dosing

The flow rate is set on the control panel and checked on the flow meter. If it is not reached at the highest setting and the pressure switch turns off the pump, the selected nozzle is too small.

If no spray pattern is achieved at low flow rates, use smaller nozzle inserts!

Nozzle colour	Number	Quantity range l/h (water solution)		Remark
		from ...	to ...	
brass	65050	2	8	with 2 nozzles
orange	11001	8	20	with 2 nozzles
green	110015	20	40	with 2 nozzles

Calculation:

1. determine/estimate **silage output (t/h)** (example: 25 t/h)
2. determine quantity of **silage additive** mixed (**ml/t**) (example: 150 ml/t)
(example calculation flow rate: $25 \text{ t/h} \times 150 \text{ ml} = 3.75 \text{ l/h}$)
3. select suitable nozzles, set the mark on the flow meter (example: 3.75 l)
4. check: run appliance with water for 20 min, collect water
(example: $[3.75 \text{ l} / 60 \text{ min} = 0.0625 \text{ l/min}] \times 20 \text{ min} = 1.25 \text{ l water in the bucket}$)
5. estimate the tonnage to be treated (example: 400 t) and calculate the required silage additive solution:
(example: $400 \text{ t} \times 150 \text{ ml/t} = 60 \text{ l silage additive solution}$)
(The tank holds 20 l, so a total of 3 tank fillings are required.)



Caution!
Do not operate the appliance with a constantly switching pressure switch, but select the next largest nozzle and check the spray pattern.



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