

**” Your partner  
for a sustainable  
rearing.**



# URBAN ALMA PRO

The intelligent calf feeder





## Innovative technologies for the barn of the future.

**It all started with an innovative idea of Helmut Urban more than 35 years ago.**

In his passion for agriculture, the welfare of the animals has always been Helmut Urban's first priority. After all, only a healthy calf provides a secure basis for the future of a dairy farm. This principle gave rise to the idea of technical automation and thus species-appropriate feeding for calves. This idea is the basis of our developments and brings the work relief for the farmer and the health of the animals in harmony.

**In 1992 the company Urban** moved to the industrial area in Wüstring, whereupon we developed to one of the specialists in feeding technology for calves and lambs. Over the years, we have been able to expand our product portfolio. With the automatic calf feeder Alma Pro, as well as the Milkshuttle, we have leading product lines on the market in the area of stationary and mobile young animal feeding.

**Thanks to our in-house development and production,** the highest standard of our products is guaranteed. Meanwhile we export our products to more than 60 countries all over the world and the demand is constantly increasing. With modern and precise approaches we develop innovative technologies for the barn of the future. For this purpose we are in regular exchange with farmers and experts.

**” Our motivation is to make everyday work for farmers as efficient as possible.**







# URBAN ALMA PRO

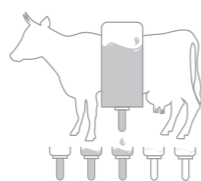
The intelligent feeder  
for automatic calf feeding.

## BENEFITS



### Species-appropriate feeding all around the clock

The feeding curve can be adjusted for each individual animal, if required. The corresponding amount of milk feed is distributed throughout the day in smaller feed portions.



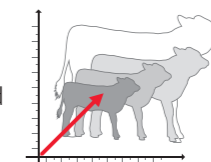
### Metabolic programming as a result of intensive feeding

The feeder provides many small milk portions – a very natural approach.



### Health monitoring

A variety of health parameters are collected and can be retrieved at all times.



### Improved growth rate

The constant and regular feeding enhances the daily weight gain.



### Consistent milk concentration

All components are continuously mixed to maintain a homogeneous milk feed mixture.



### Constant milk temperature

Three temperature sensors ensure that the milk is kept at the same temperature around the clock.



### Improvement of (feed) hygiene

The fully automatic cleaning program cleans the automatic feeder thoroughly and reliably. Automated teat and water disinfection (HygieneSet<sup>UV-C</sup>) optionally available.



More interesting information and worth knowing:



### Feeding station

By means of sophisticated sensor technology the station recognizes each calf transponder and dispenses its individual milk quantity.

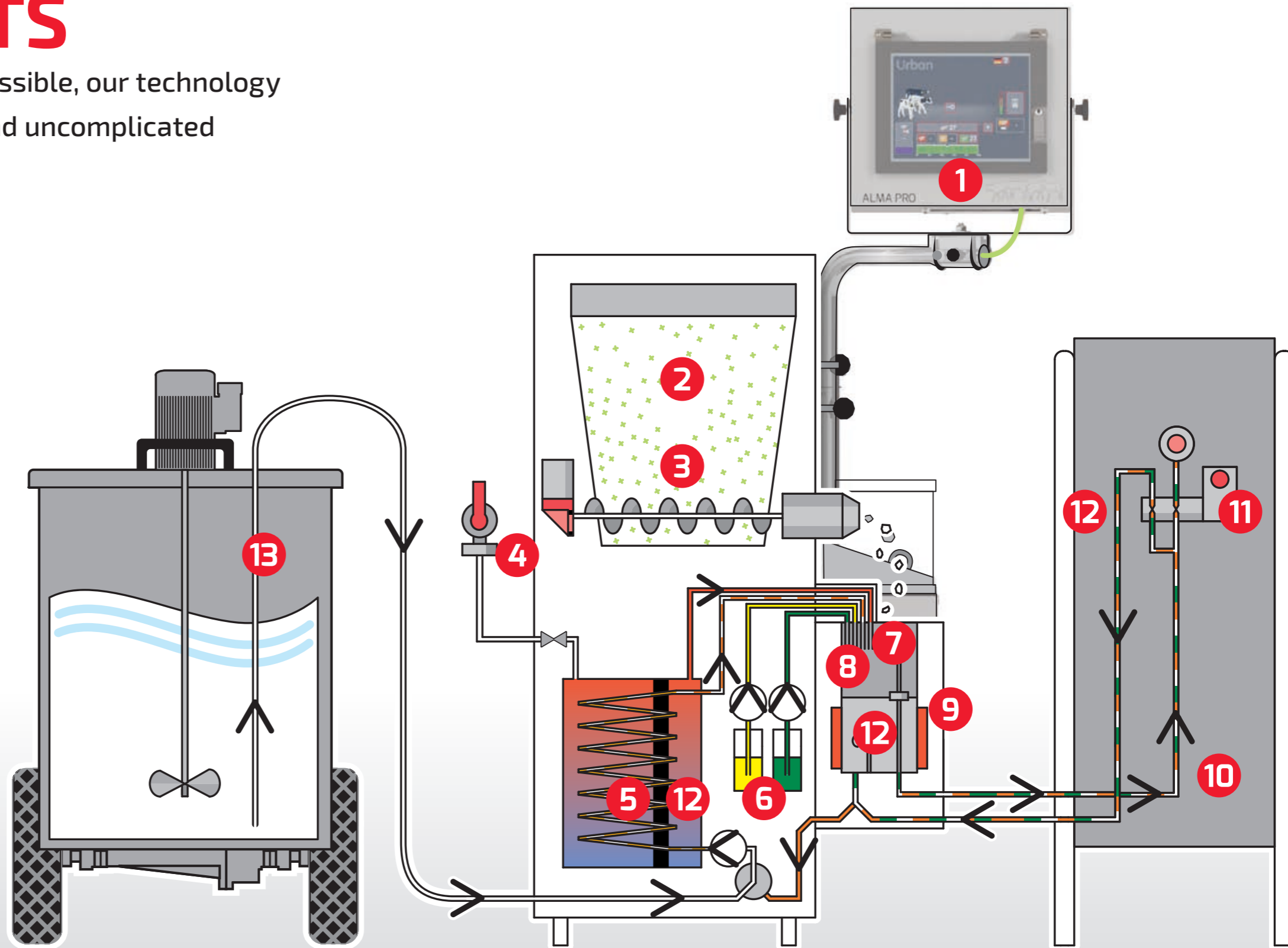




# COMPONENTS

To make your work as easy as possible, our technology is based on a simple structure and uncomplicated operation.

- 1 Control panel with touchscreen and a clearly arranged user interface.
- 2 Storage container for milk powder with a capacity of 35 kg.
- 3 The powder spiral ensures a consistently precise dosing of the milk powder
- 4 Water connection
- 5 Boiler / heat exchanger
- 6 Cleaning agents (acidic and alkaline) for fully automatic cleaning.
- 7 Milk removal tap – for easy tapping of milk.
- 8 Float in the mixing bowl – measures the dispensed amount of milk. This means that even small portions can be allocated to the calves with millilitre precision.
- 9 Heated mixing bowl
- 10 Ring line – transports the milk to the teat. Periodic, temperature-regulated circulation between teat and mixing bowl ensures that the calves can always access warm milk and that the lines do not freeze if temperatures fall below zero
- 11 Station Valve
- 12 Temperature sensors – ensure that the milk is kept at a consistent temperature.



**MILKSHUTTLE  
WITH WHOLE MILK**

**AUTOMATIC FEEDER**

**DRINKING STATION**

**13 Whole milk feeding** – optional  
Feeding 100% whole milk or a mixture of Fullmilk and milk powder is also possible without any problems. The proportion of whole milk can be adjusted from 0 % to 100 %. The MilkShuttle is the ideal way to make fresh milk available as easily as possible.



# STANDARD FEATURES

Operation and data retrieval via the integrated touch screen are extremely simple. The intuitive user interface allows for individual feeding and the comfortable creation of feeding curves.

The intuitive user interface enables animal-specific feeding and and convenient creation of feeding curves.

## TOUCH TERMINAL



• One-touch overview button – calls up the list of conspicuous animals with just one click.

• For an optimal view, the terminal can be swivelled and adjusted in height.

### Herd overview

Animal monitoring around the clock – instead of only once or twice a day. The herd overview always displays the most current values. The Alma Pro uses alarm lists to indicate leftover quantities and deviations within animal-specific values (drinking speed, number of station visits, length of stay).

• Quick overview of the health status of the animals.



### Health Management

All data relevant to health is stored and automatically analyzed. Animals which behave conspicuously are marked orange or red. This helps to identify upcoming diseases on the earliest point so that calves can be treated before the actual outbreak.

• Monitoring of feeding behaviour over the last seven days.



### 7 days food overview

In addition to the daily amount, the display shows the actual consumption of the past 6 days.

• This monitoring function enables optimal health maintenance of each individual calf.

### Feeding Curve

On the clearly arranged touch terminal, feed curves can be easily adapted to the special need of calves. Multiple feed curves can be created with different amounts and concentrations.



### Mobile control – optional

• By pairing the device with the Urban Wi-Fi router you can use all functions of the Urban Alma Pro with smart device or PC.







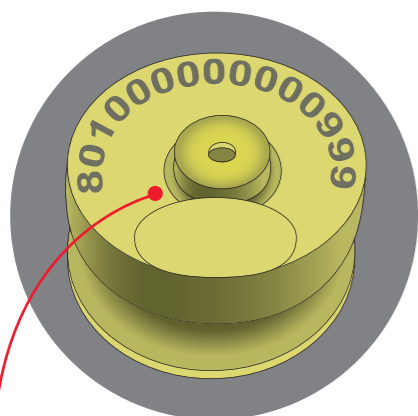
**Container**

The feeder is made from high-quality stainless steel and the compact design helps in saving space. The robust lateral edge and the low filling height (1.09 m) makes it easy to fill.



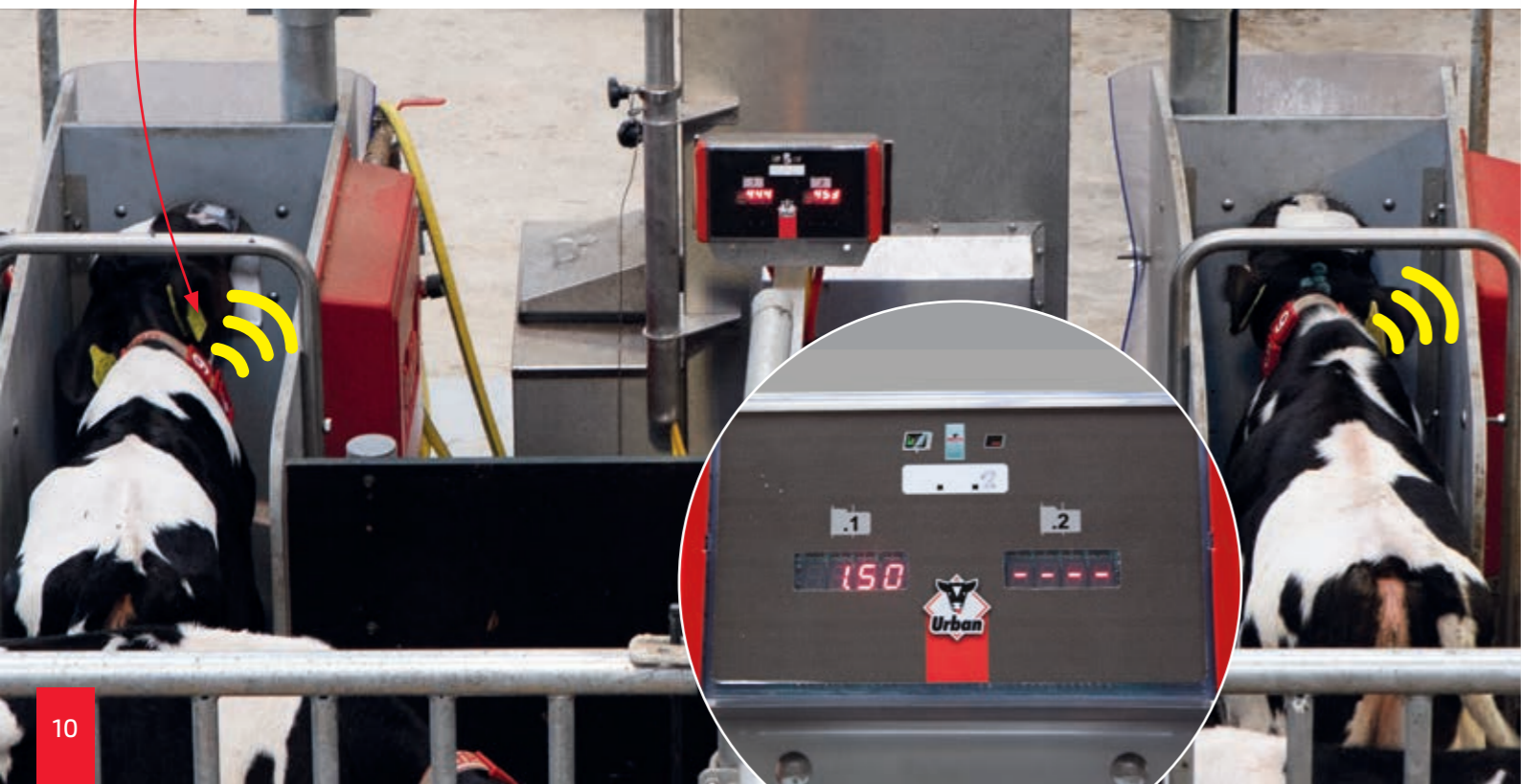
**Animal identification**

The animal is identified by transponder on the collar or electronic ear tag.



**Electronic station units**

Shows the amount of milk left to consume for the calf and monitors the milk temperature directly at the station.



**AUTOMATIC FEEDER**



A mechanism on the powder bag ensures that the powder is dispensed in an even manner.

**Cleaning programm**

The integrated cleaning programm cleans all milk-distributing parts including the teat, alternating with two different cleaning agents (alkaline and acidic). The cleaning process is fully automatic, thorough and reliable.



**Milk tap**

Milk can be taken from the machine at any time, for feeding calves which are seperated from the feeder.



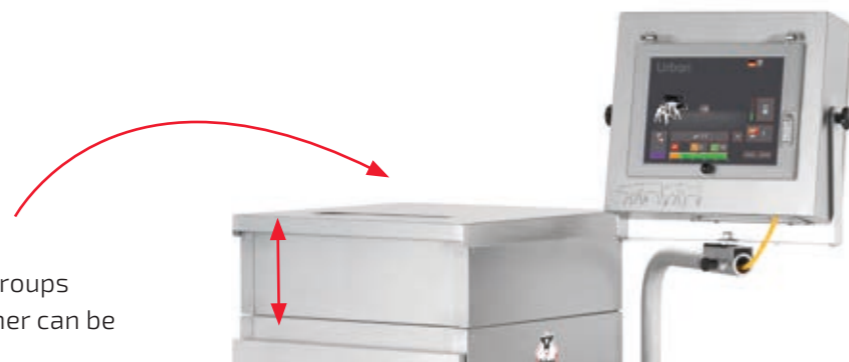


# OPTIONS AND ACCESSORIES

The large range of optional equipment allows you to adapt the automatic feeder to your individual needs.

## 1 Powder supply expansion

If the Alma Pro is used for large groups the volume of the powder container can be increased to 55 kg.



## Signallamp

red, yellow, green- equal as a traffic light system, makes the status of the feeder clearly visible from a distance.

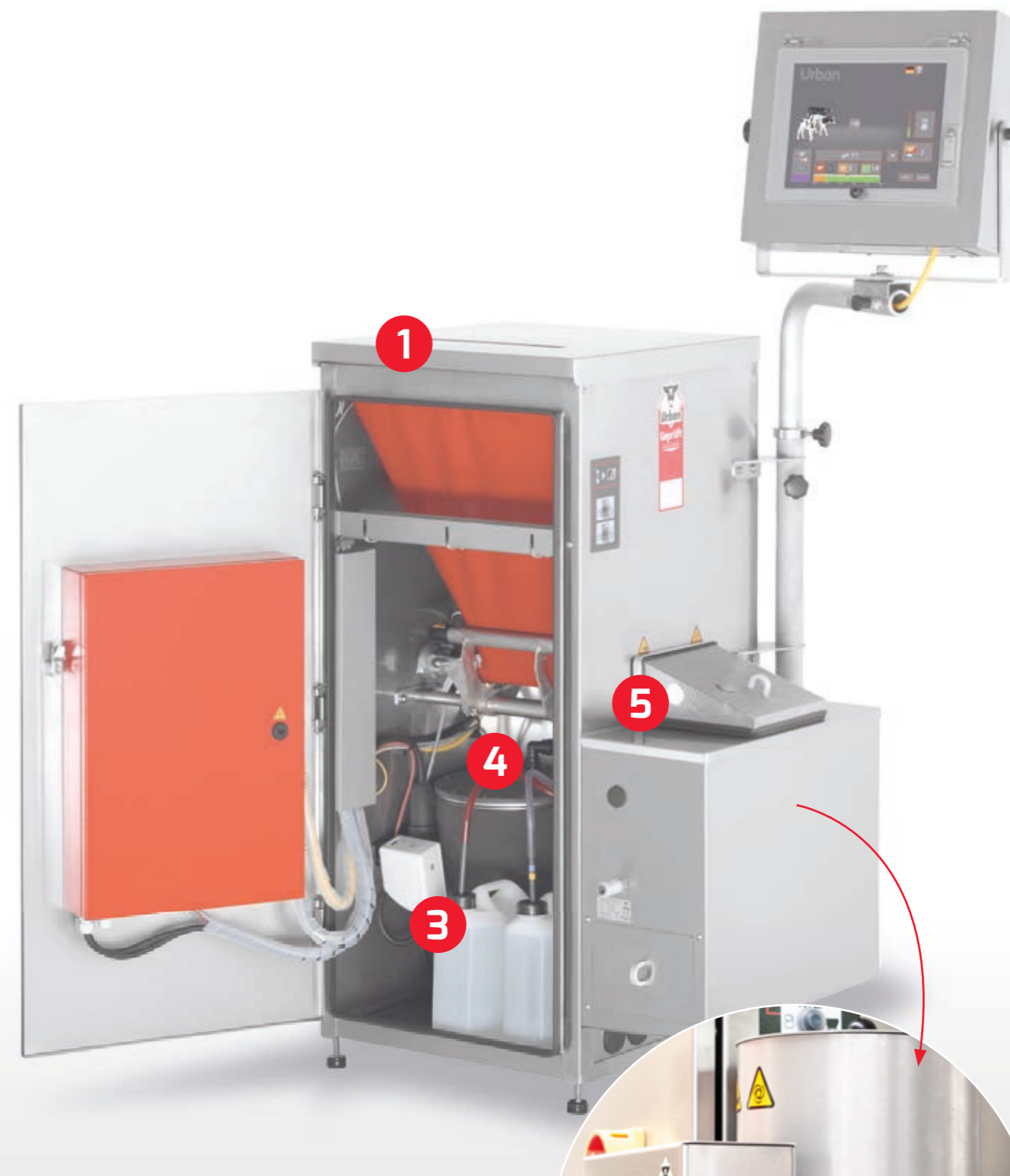
## 4 Additional pre-heater with FitPlus

A second heater can be installed at request for higher performance. It significantly increases the heating capacity of the feeder and thus makes it possible to feed calves faster without breaks. The concept also includes a novel type of 2-phase cleaning: Two different detergents can be used in a single cleaning sequence.



## 3 Liquid additive doser

Liquid additives such as vitamins or electrolytes are directly injected into the milk line. Delivery of the additives can be adjusted individually.



## 5 Powder additive dosing unit

Enables the automatic dispensing of powder additives, such as vitamins or electrolytes – individually or to the whole group.





# DRINKING STATIONS

## BASIC MODELS

### STANDARD STATION



Individual animal identification, safety bracket and quality teat – the feeding station with standard equipment already scores with numerous features.

### HYGIENIC STATION UV-C



The **HygieneSets** <sup>UV-C</sup> quickly disinfects the teat chemical free and energy saving.

### DOUBLE STATION

Without bounce bar for larger space requirement and for simplified training of calves. It can also be combined with the **HygieneSet** <sup>UV-C</sup>.



## EQUIPMENT-OPTIONS

### Tilttable feeding station

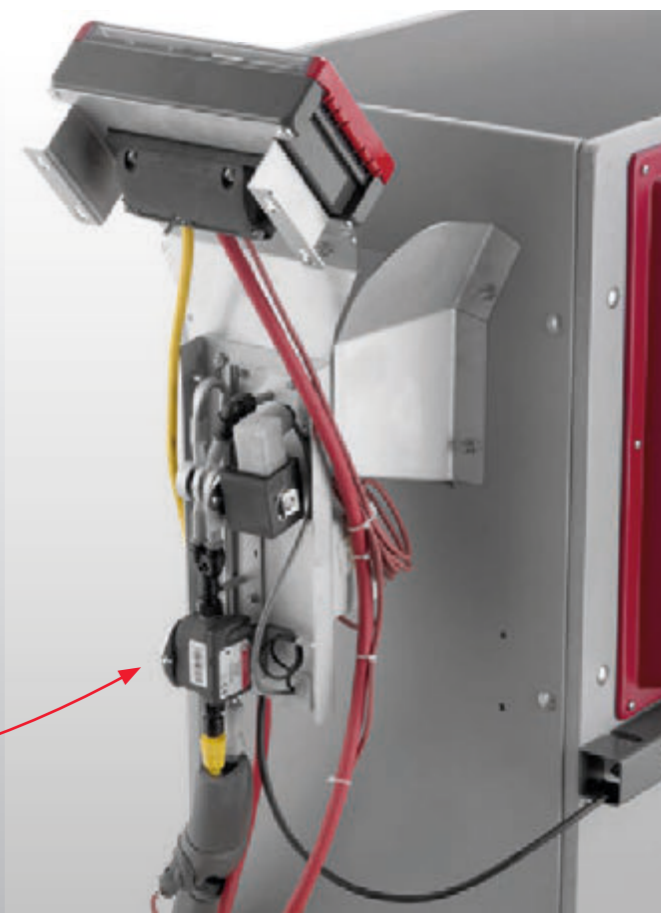
Feeding stations can optionally be ordered in a tilttable version. The tilt function creates space for clearing out the manure and thus makes cleaning the barn easier.



### Parallel feeding with FIT sensor

All drinking stations, whether standard, hygienic or UV-C hygienic station, are equipped with the FIT sensor as standard.

This means that feeding can take place at all stations at the same time. Furthermore, the measurement of drinking behavior is improved.





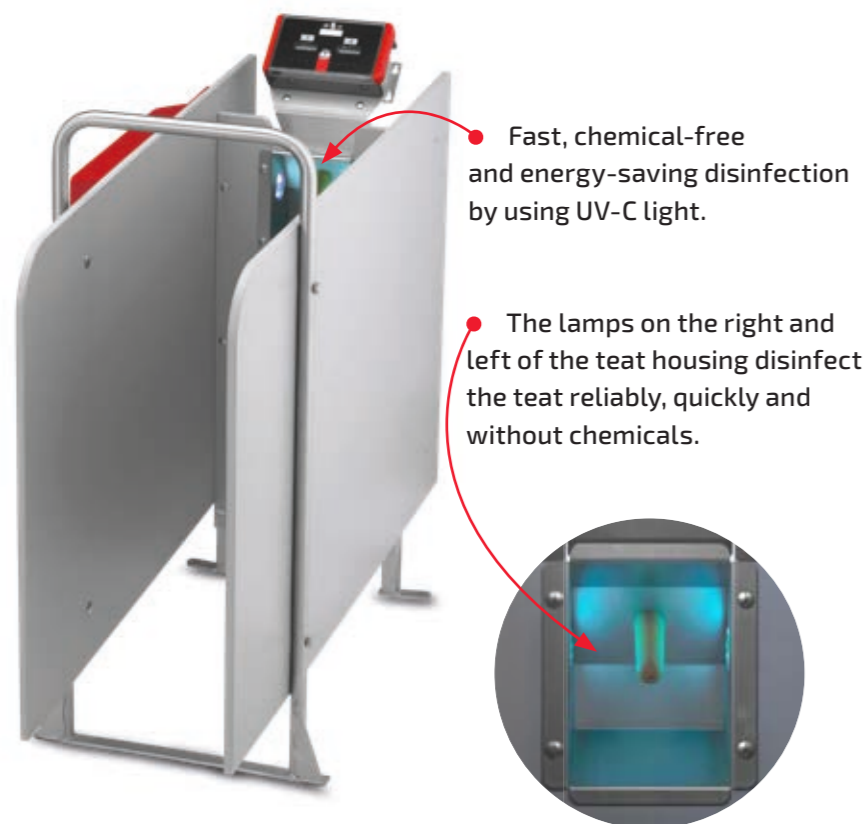


# URBAN HygieneSet<sup>UV-C</sup>

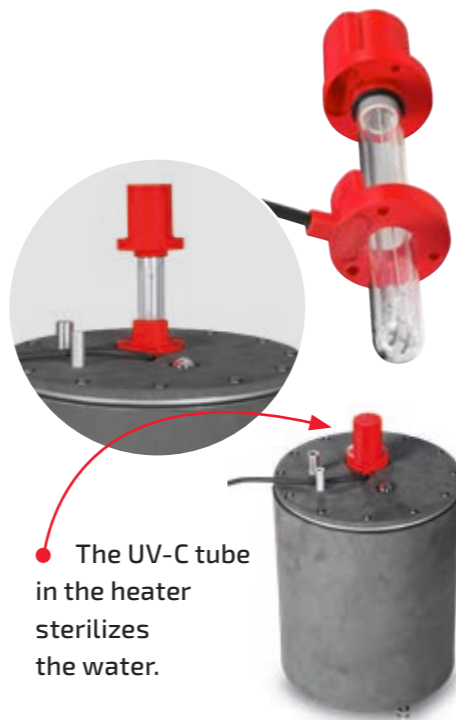
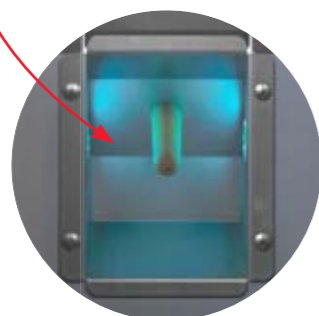
## Good Hygiene – Healthy Animals

The Urban HygieneSet<sup>UV-C</sup> for the Urban Alma Pro feeder was awarded a silver medal at EuroTier 2021.

HygieneSet<sup>UV-C</sup> for the Urban Alma Pro consists of an UV-C unit at the teat and in the warm water heater of the feeder.



- Fast, chemical-free and energy-saving disinfection by using UV-C light.
- The lamps on the right and left of the teat housing disinfect the teat reliably, quickly and without chemicals.



- The UV-C tube in the heater sterilizes the water.



- If a calf approach the teat, the UV-C light automatically switches off.

” In this way, we can prevent the transmission of diseases from one animal to the other via the teat.

Dipl.-Bio. Regina Deininger

# URBAN FitPlus



FitPlus optimises the training time, which means less stress and less time spent for both animal and carer.

Dipl. Ing. Martin Lüllmann

## The newly developed FitPlus feeding process

Optimizes the preparation of feed in such a way that there is a continuous availability of milk for the animals. During the drinking process, there are no longer any technical pauses necessary. The animal's feed intake is relaxed and stress-free, because the animal never has to wait for milk.

The FitPlus process allows, the feeder to feed in batch mode. By that, warm milk is available immediately as the calf entrance the station. This simplifies training and acclimatization of young animals at the machine.



The angle of inclination of the drinking teat strengthens the calf's natural sucking reflex and promotes the digestion.

On fattening farms it is enormously important that the purchased animals, which are stressed by transport are fed very fast immediately after unloading so they can come to rest quickly.





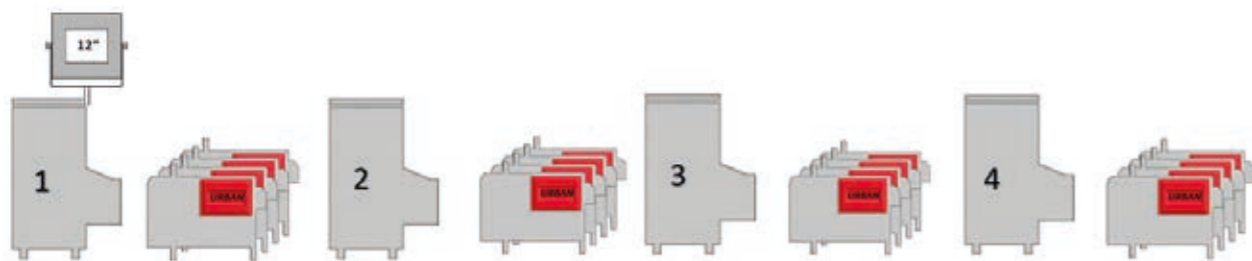


# INSTALLATION OPTIONS

Our goal is to create functional, operation-specific solutions  
Our automatic feeder is suitable for small(est) and large groups and can be individually adapted according to the purpose.



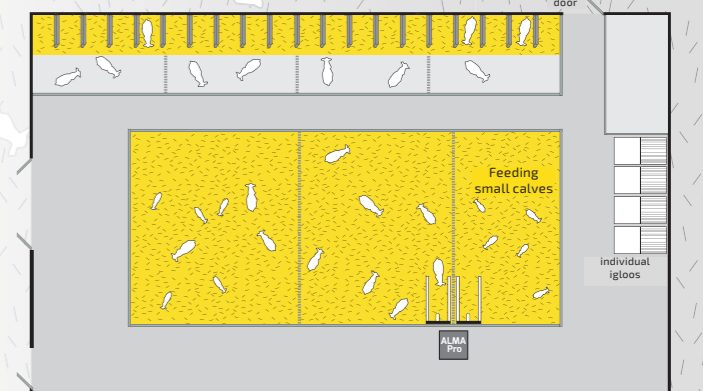
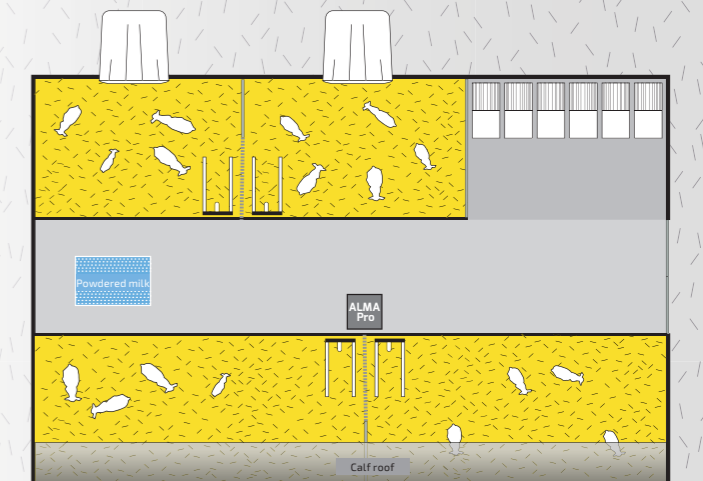
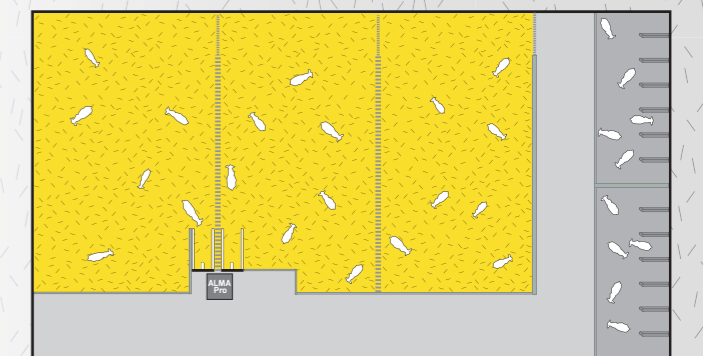
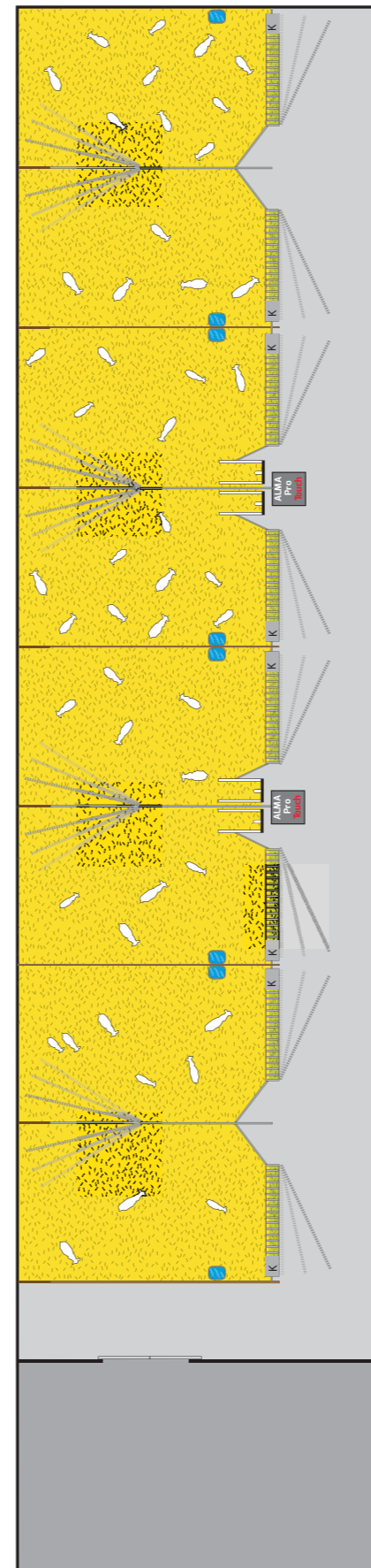
With only **one** operating terminal up to 4 feeders and thus 16 drinking stations can be controlled.



The installation of the Alma Pro depends on the conditions of the barn, the type of housing and the number of animals. While one feeder with two drinking stations is usually sufficient for smaller farms, larger farms may need several feeders and feeding stations.

This is the only way to ensure that each animal receives enough milk. We support you in planning the optimal technical set-up. It is possible to connect up to four drinking stations per automatic feeder. In addition, the number of automatic feeders per terminal can be increased to up to four.

# EXAMPLES







# URBAN VITALCONTROL

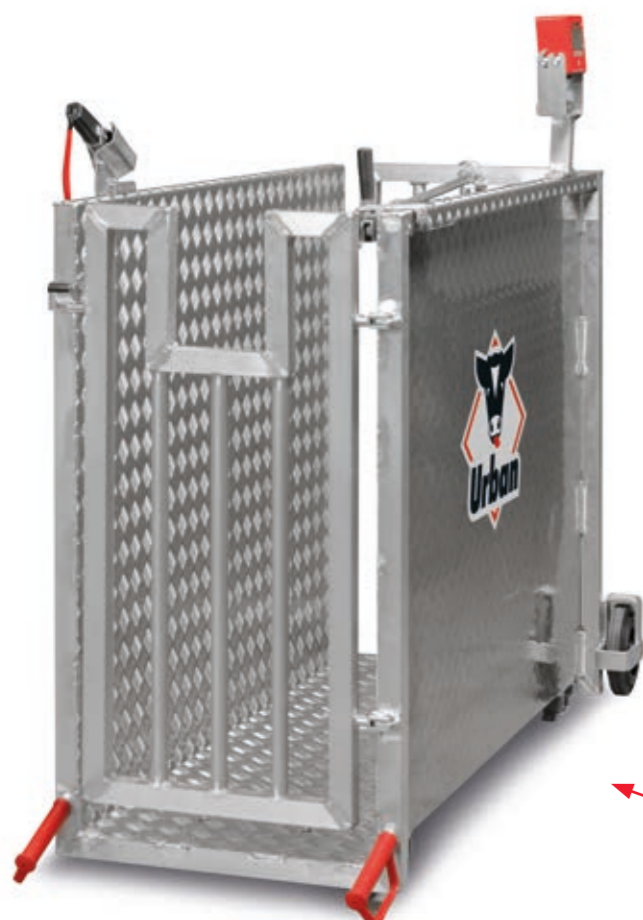
## The professional equipment for improved animal health

The newly engineered VitalControl is compatible with the Alma Pro. The collected values are assigned to the respective calf by the scan function. This provides a well-founded animal evaluation and allows detecting possible illnesses earlier. VitalControl creates alarm lists based on the collected data. Conspicuous animals are shown in simple diagrams based on body temperatures and general state of health.

”

*This is what modern, digital animal data collection of today looks like!*

Dr. Andreas Deininger



### The Urban Mobile Calf Scale

Practical and tailored to your needs. Add the weight of the animals to your data with the help of the Urban calf scale.

## DETAILS



• Transponder (ISO 11784/85)

• Optical signaling of the measurement result

• Lighting of the anal area

• The comfortable handle and the clear display allows a quick and easy measuring process.

Left-right neutral, rotatable measuring head with integrated measuring tip

• Long, stepped, flexible, deflectable measuring tip made of flexible, tissue-friendly material

• Vibration for signaling of the end of measurement

• USB



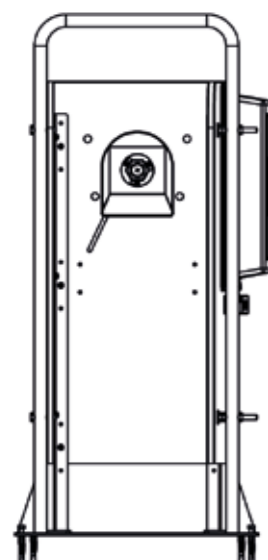


# URBAN ALMA PRO

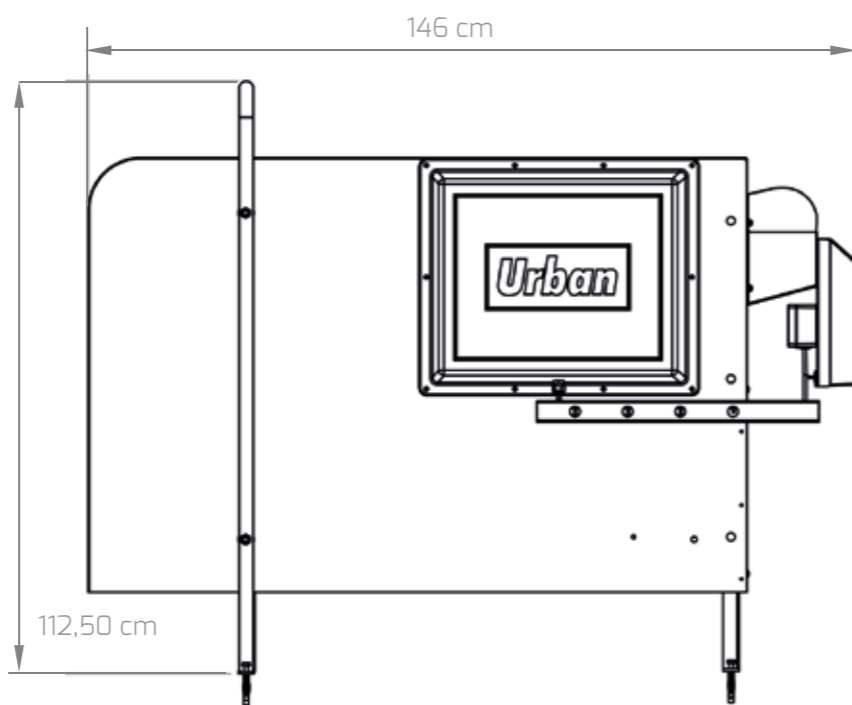
## TECHNICAL DETAILS

### DRINKING STATION

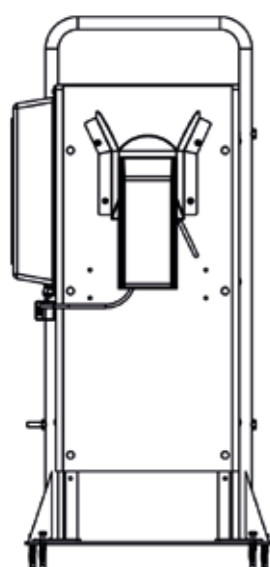
Front view



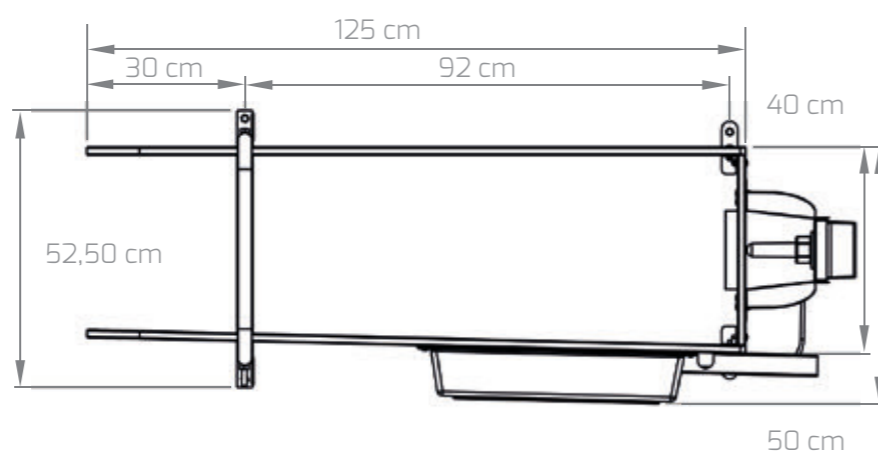
Side view



Back view

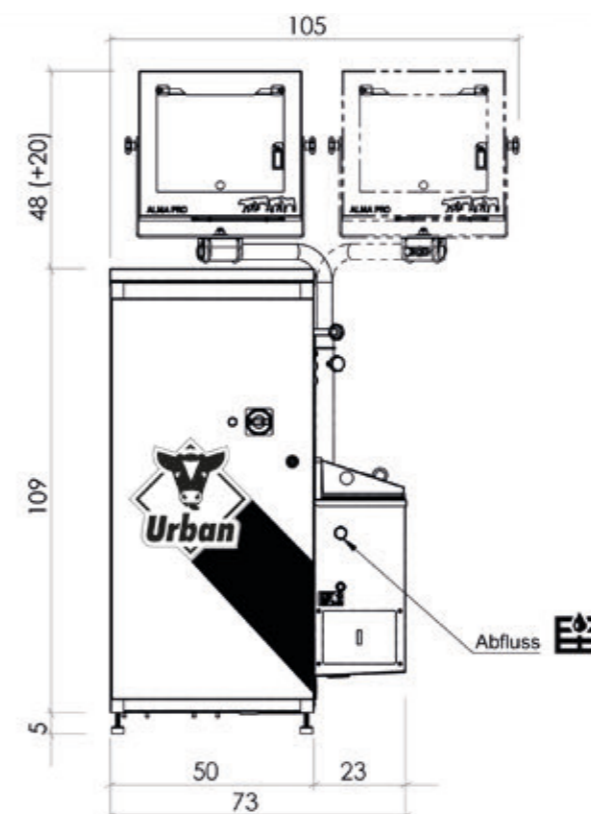


Top view

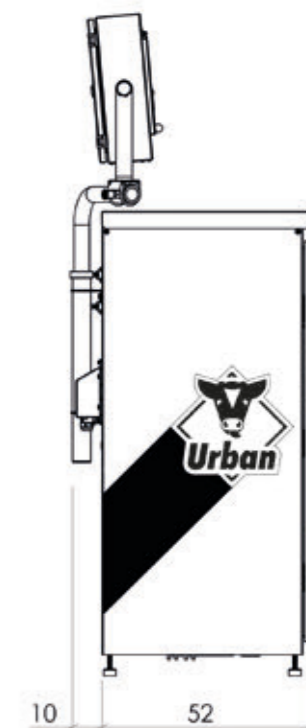


### DRINKING AUTOMAT

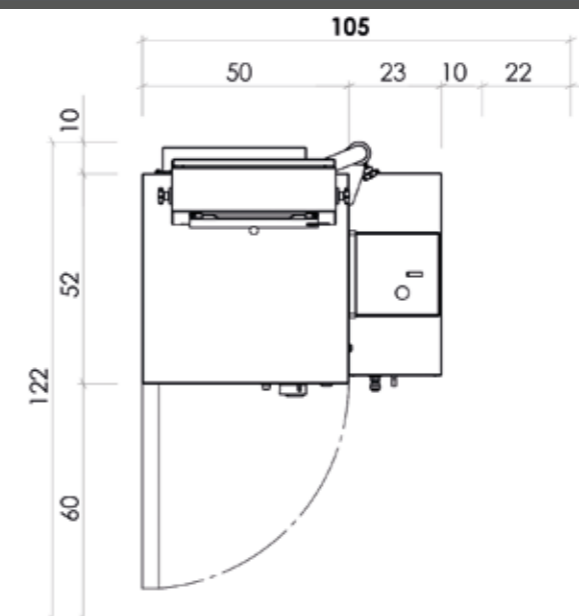
Front view



Side view



Top view



#### Required connections



Water connection 2 to 4 bar



Protective contact socket  
240V/16A  
When using the pre-heater  
a 400V/16A earthed socket is  
required  
(required in Germany)



drainage





# URBAN MilkShuttle



**Mobile calf feeding,  
matched to the individual needs of your calves.**

**The right size, for you requirements:**

100 L

150 L

200 L



250 L



350 L



# URBAN EcoProtector<sup>UV-C</sup>



The **URBAN** EcoProtector<sup>UV-C</sup> is an accessory for the **URBAN** MilkShuttle. It has 4 powerful, shatterproof UV-C tubes, which disinfect surfaces in a very short time. It can be used horizontally ( for floor disinfection ) and vertically ( for hutches / room / wall disinfection ).



Innov'Space  
Award  
excellent







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On our website you will find further latest news and information about our products.



More exciting stories and videos we regularly post on our social media channels.

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