Happy end.

Product Portfolio

WEDA

We care about pigs

We care about pigs.

Those wishing to aim for the maximum possible degree in quality and profitable efficiency in all cycles of pig production need a competent partner at their side – one who is able to develop and to put into practice made-to-measure solutions: Welcome to Weda – Dammann & Westerkamp GmbH – in Lutten.

Contents

Liquid Feeding 4–77

Weda No-Residue Feeding BW+

Made-to-measure solutions for your livestock

By means of the Weda Liquid Feeding System, large amounts of feed can be transported by circular pipeline over great distances within a very short time. With this system, small as well as large numbers of livestock will at all times be optimally provided for.

Characteristics

- Reduction of costs as improved animal performance can be gained with same feed amount
- Greatest hygiene security by Weda's hygiene package (Hy.Light, pH-Control, cleaning with alkaline, acid wash and many more; you will find details in our Hygiene Brochure)
- Weda's own conception and in-house production and therefore extraordinary system security
- Computer controlled, fully automatic operation and therefore minimization of labour input
- Exact mixing and dosing of feed without residues (economical)
- Greatest feed accuracy
- Feeding of any component and exact supplementation of any kind of additive
- Provision and control of all production sectors via a central control system
- Tremendous efficiency due to state-of-the-art technology
- Transport of large feed amounts over large distances without problems
- Modular system – the components of the unit can be combined in a modular construction system
- Optimal adaptation to any kind of animal house or pen
- Feeding can be carried out by means of trough probes and predetermined feeding periods
- By means of the liquid feeding system, all kinds of products can be fed out, therefore no exclusive limitation to grains as in dry feeding systems
- Rationed feeding or ad lib principle is possible
- Number of feeding periods is freely adjustable
- Relief for humans and animals due to low formation of dust
- Feeding with feeding time measuring of weaners, fatteners and sows
- The mixing containers fit through any door

The size of the unit is irrelevant for Weda. We construct your feeding system in any size your wish – in accordance with your individual requirements.

Weda offer highest feeding accuracy for any type of unit.

In case of very large distances between feed preparation and animal location, feed provision takes place via satellite preparation room.

Weda No-Residue Feeding BW+

Always on the safe side

The integrated Weda Hygiene Package guarantees optimal hygiene security. Hy.Light, pH-Control, cleaning with alkaline and acid wash are reliably fighting bacteria and germs inside the feeding unit. Due to this, animal losses are clearly reduced.

Weda Liquid Feeding Systems are perfectly suited for any unit size.

The individual components of Weda liquid feeding systems can be easily combined with each other.

The Double Feed System enables problem-free feeding of sows, fattening animals and piglets.

Weda liquid feeding units can be flexibly installed in almost all rooms of any size.

The Weda systems allow the smooth mixing and dosification process of even smallest amounts of feed.

Nutrix+, the Suckling Piglet Feeding System

Optimum Feeding for the small ones

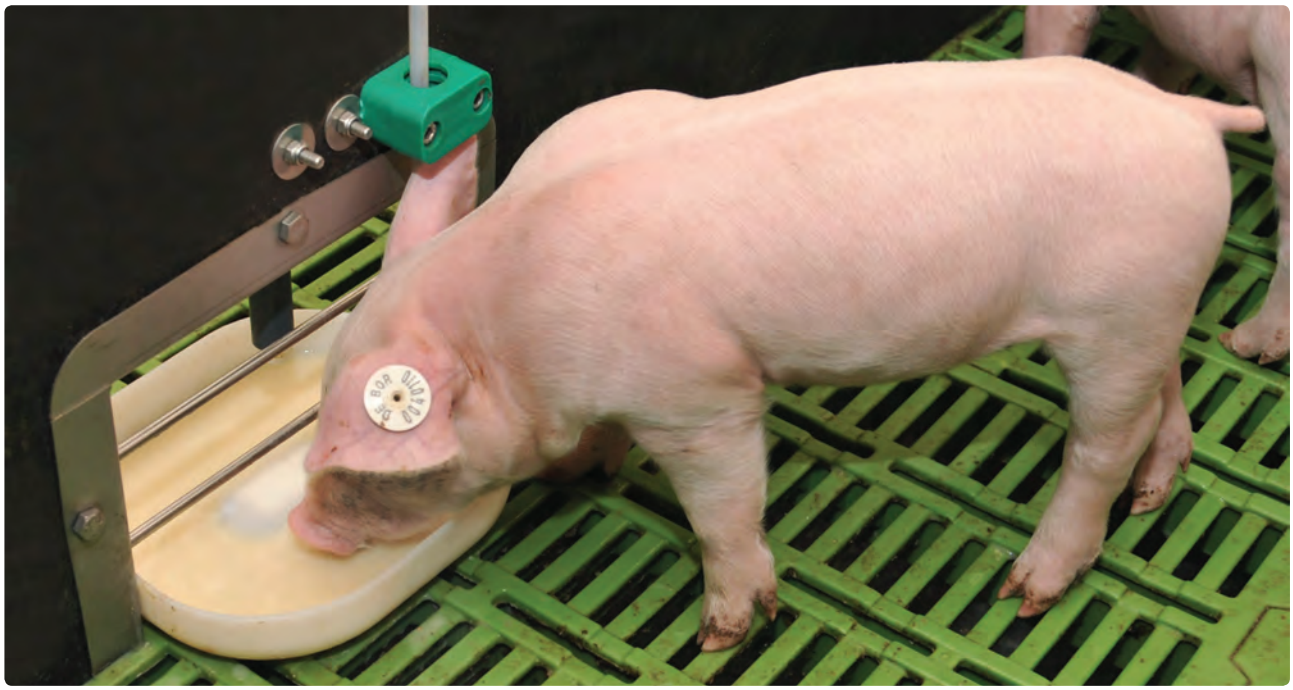
Nutrix+ is a fully automatic sensor controlled liquid feeding system for the additional supportive feeding of suckling piglets during the first days after farrowing.

Feed Preparation

Switching cabinet with Touch Panel

Characteristics

- Dosification of smallest amounts of only 30-40 g per trough dosification
- Feeding of sows' milk via prestarter to weaning feed
- Modular expandibility enables upgrading of up to three mixing containers and allows the use of various feed mixes
- One computer provides 600 farrowing places around the clock without any problems. Overnight, the suckling piglets take in 40-50% of the feed.
- Control and operation by means of Touch Panel
- Adapted to the growth of the suckling piglets
- The digestive tract of the suckling piglets slowly becomes accustomed to piglet feed 1 (weaning feed)
- Automated, computer-controlled possibility of individual adjustment of mixing temperatures
- Sensor feeding: a „full" report already takes place at 0.07 l filling capacity
- A special pneumatic method enables emptying of the lines back into the dosification container
- Maximum state of hygiene due to the proven cleaning method of an acid / lye rinsing
- Considerably reduced workload in the management of large litters as the system can be fully automatically operated and remote-controlled.
- Special double troughs with grids ensure permanent social contact of the piglets between two pens.
- Rounded plastic trough with an isle where the feed always gathers in the front. This way, the piglets can feed directly without climbing into the through; the residues are clearly reduced.
- Suckling piglets will be unable to lie down in the trough
- Trough only protrudes 7 cm into the pen
- No dead corners at the trough
- Optional: tilting trough of high-grade steel available
- Over 1 kg more weaning weight and at least 3 kg more in fattening will be possible per piglet
- Protection and relief of the mother sow due to sow losing less weight. Thus, condition and fertility of the sow are improved
- Lower piglet losses
- Guaranteed animal provision also in cases of large litters
- Partly more than 100 feedings per day



The pale special troughs of plastic with a centrally placed isle make entering and lying down an impossibility.

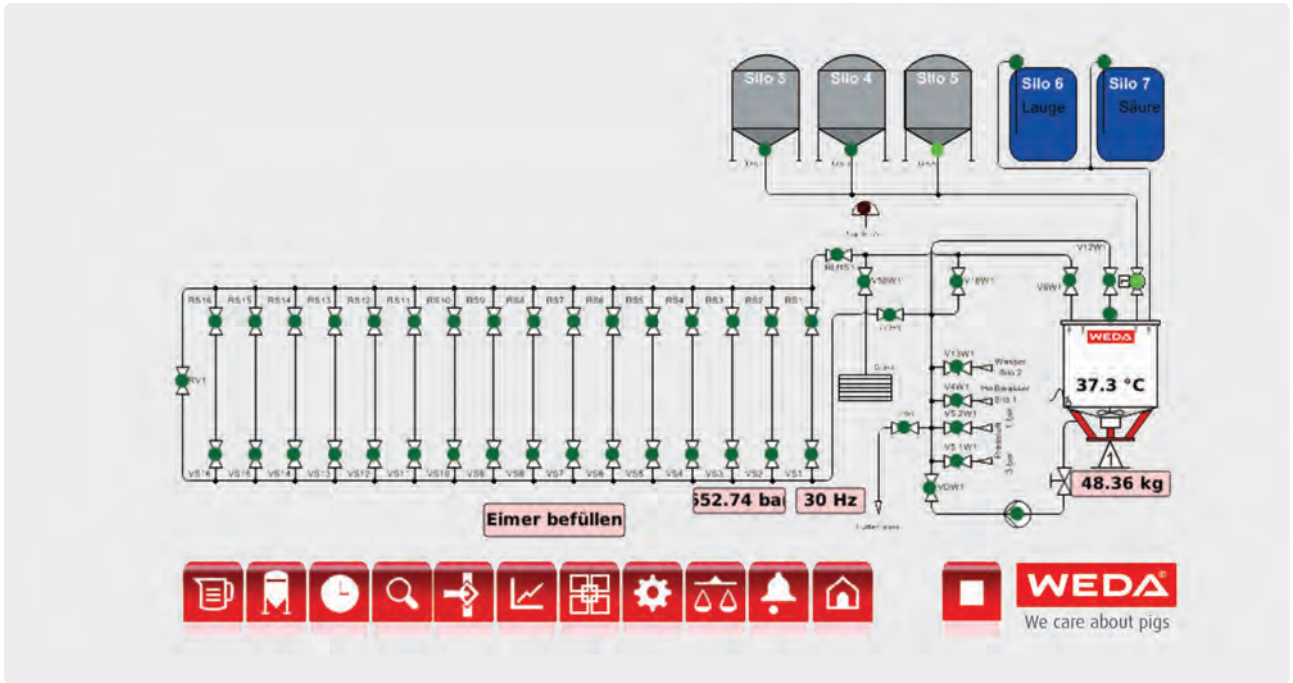
Alternatively, a tilting trough can also be installed into the pen. Due to its tilting function, the trough can be easily cleaned.

Nutrix+, the Suckling Piglet Feeding System

Relief of the Mother Sow

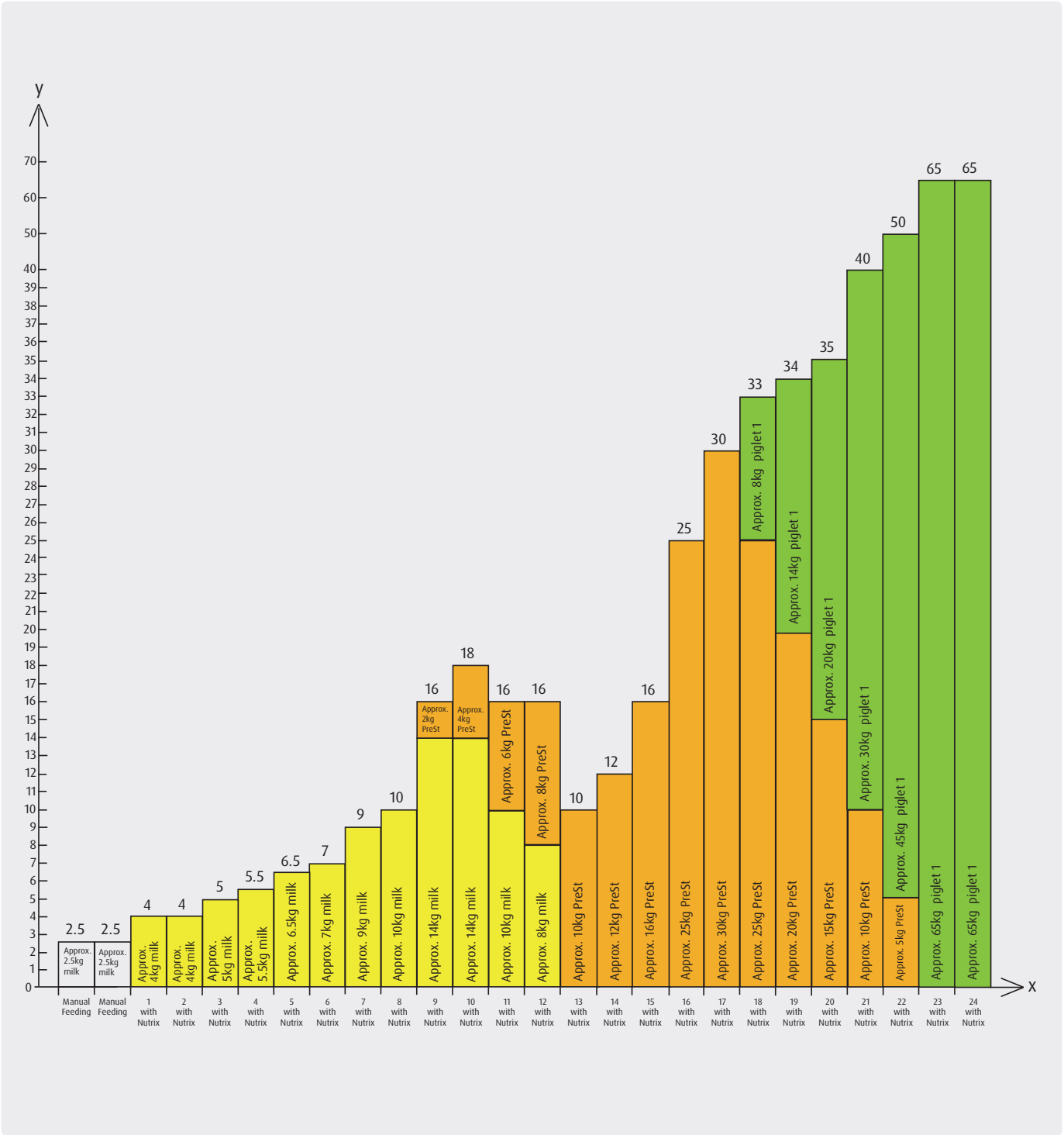
Higher litter numbers demand larger amounts of milk from the mother sow, who will not always be able to produce such amounts. Nutrix+ ensures relief for these sows as it supports them in the feeding of suckling piglets.

Best provision for piglets with Nutrix+



Unit Visualization

Feed consumption Suckling Piglet Feeding System Nutrix+
(650 suckling piglets at on-road test)



Index:

Milk = piglet milk

PreSt = Prestarter

Piglet1 = piglet raising feed 1

x = time (in days)
y = feed amount (in kg)

Feed dosificator FD100 / FD200 / FD600 for Nutrix+

Quick and easy dosification

The feed dosificators FD100, FD200 and FD600 ensure quick and easy dosification of the feed in the mixing tank of the suckling piglet feeding system, Nutrix+.

Characteristics

- Inlet hopper with attachment
- Contents FD100: approx. 100 ltrs
- Contents FD200: approx. 200 ltrs
- Contents FD600: approx. 600 ltrs
- Drive: 0.75 kW
- 6m feed screw
- Diameter of pipe: 75 mm

Feed dosificator FET600 for Nutrix+

Reliable dosification

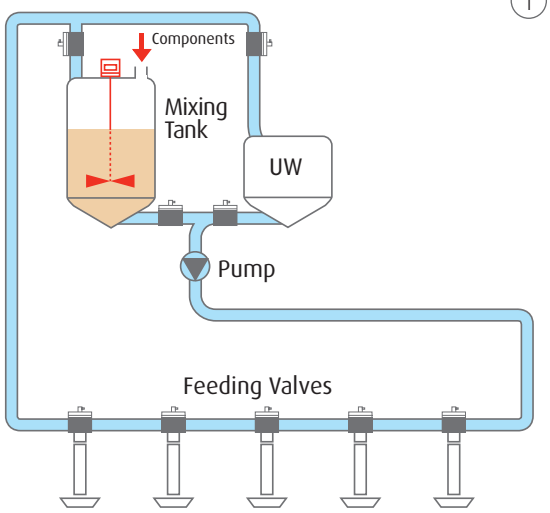
The feed inlet hopper FET600 ensures smooth and continuous conveying of dry feed to the suckling piglet feeding system Nutrix+.

Characteristics

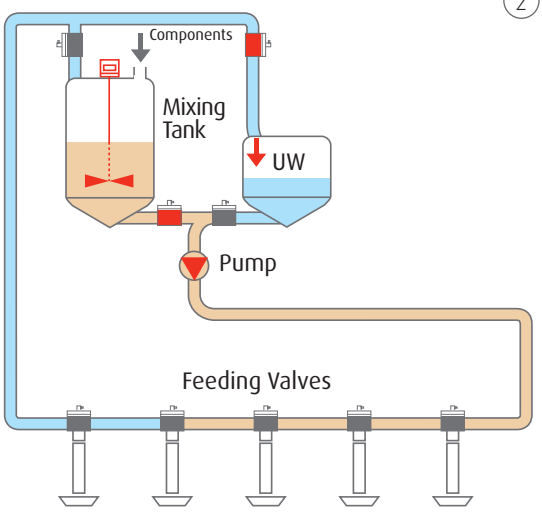
- Feed inlet hopper with surface mounted box of high-grade steel
- Surface mounted box with protection grid
- Contents approx. 600 ltrs.
- Dosification by means of chain conveyer 60mm
- robust
- Even conveyance
- Complete emptying
- No formation of bridges

Weda No-Residue Feeding BW+

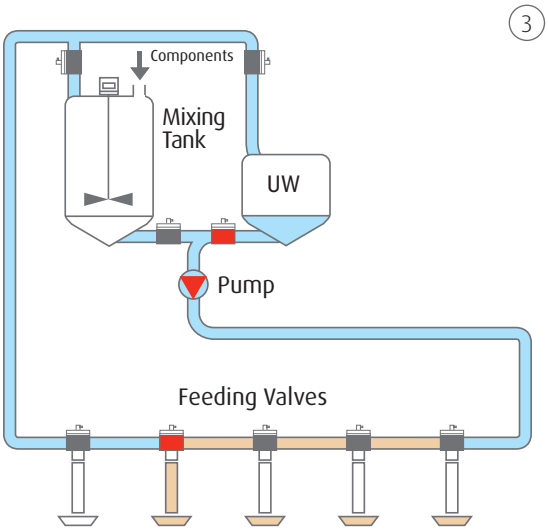
Working Method of the Non-Residue Feeding System (Closed Circular Pipeline):



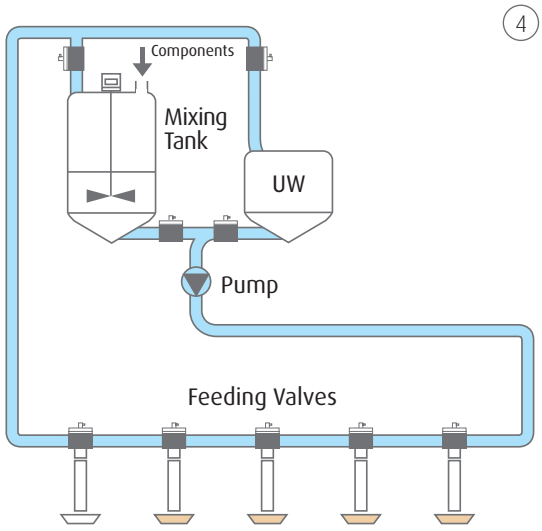
The feed is mixed inside the mixing tank. Scales are situated underneath the mixing tank; by means of these, feed components can be weighed and dosificated via the weight.



The feed is pumped into the line all the way to the last valve which is feeding out. Then, the respective amount is dosed out at each valve until the mixing tank is empty. The replaced water gets into the service water container (UW).



The feed in the pipe is fed out with the water from the service water container.

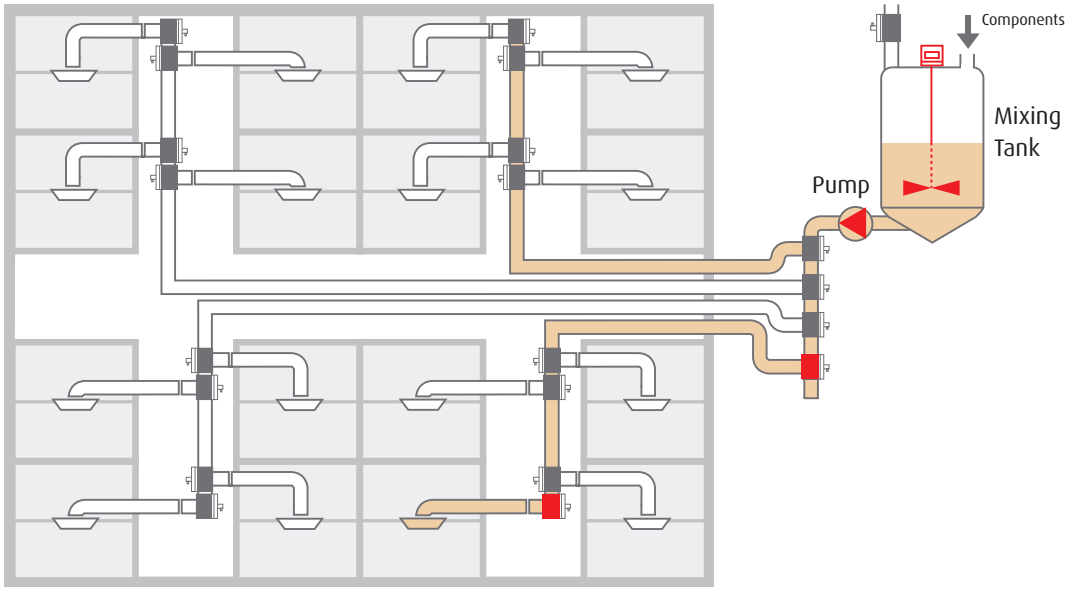


The feed is fed out to the group **without leaving any residues**. Water remains in the pipes. For the then following feed mix in the mixing tank, the necessary water is pumped through the feed lines.

Spur Line

Optimal for small animal houses

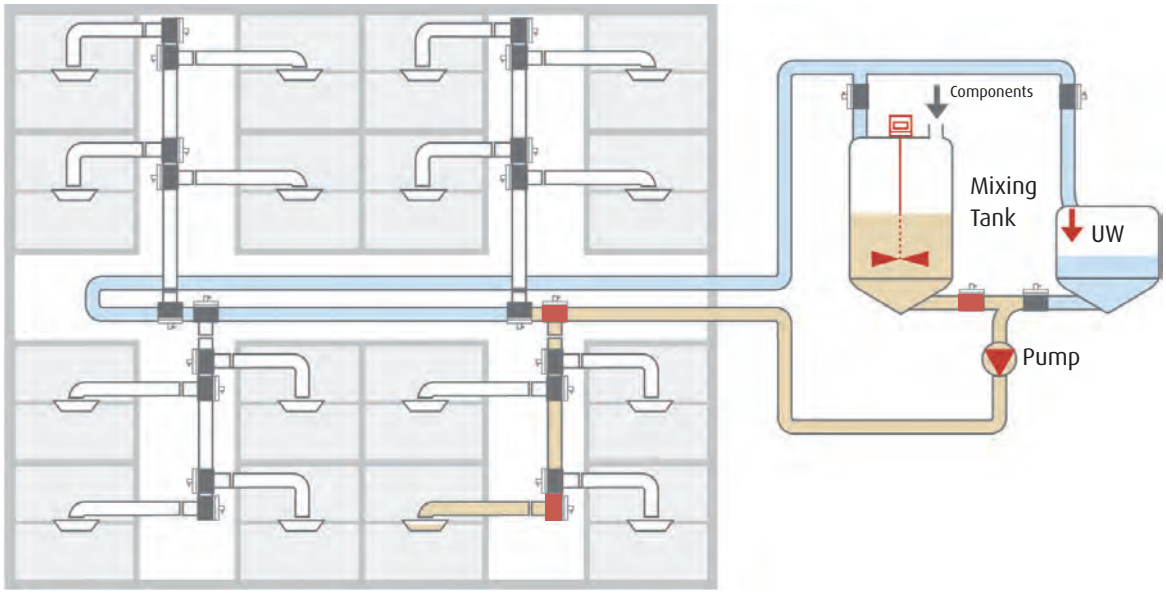
By means of this system, each division can be specifically controlled via its own feed line. With the last feeding of the day, water can be fed out into the stubs so that no feed residues remain in the pipe during the night.



Ring Circuit Combined with Spur Lines

Ideal for larger animal houses

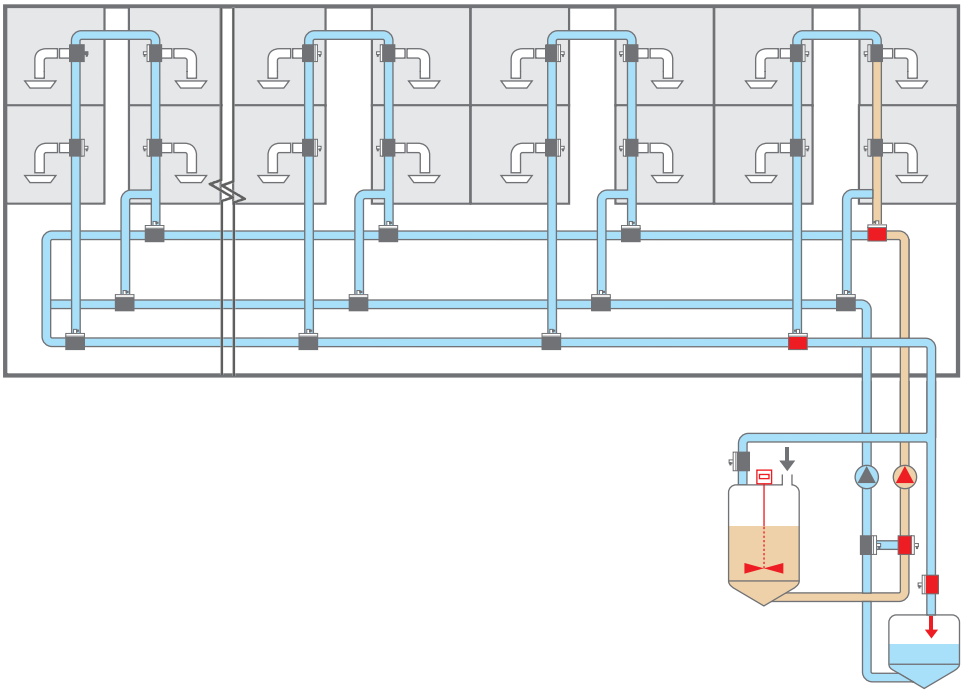
With this solution, larger animal houses with many divisions can be provided for without any problems. Feed paths can be clearly shortened and consequently costs of material can be saved. Additives can be simply injected into the spur pipe.



FastLine

Sophisticated technology right to the last valve

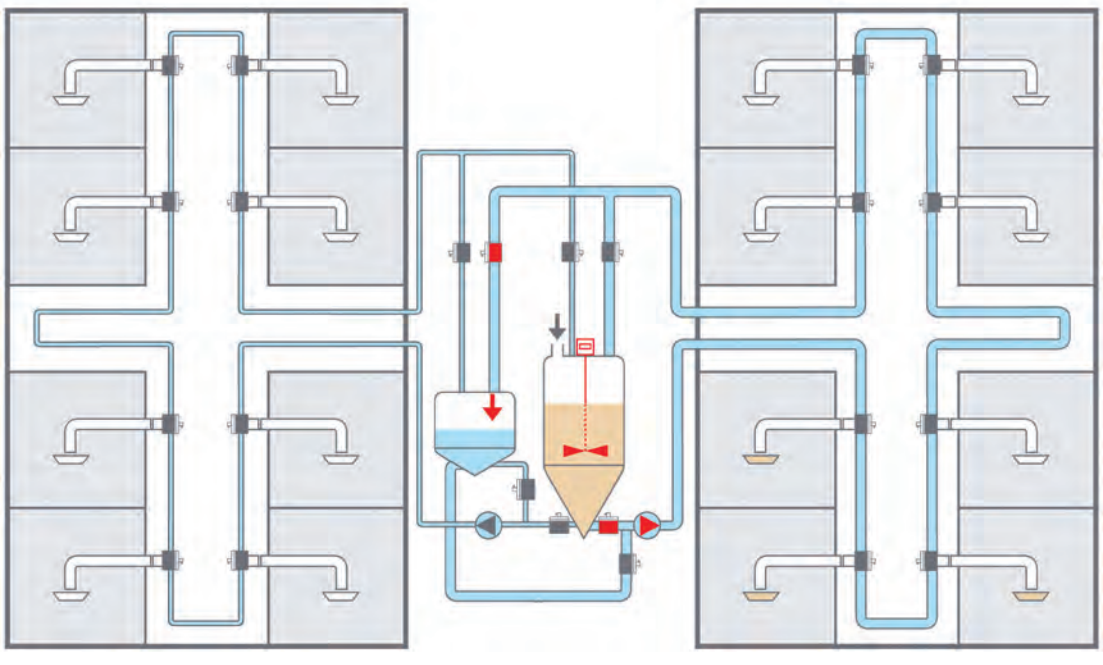
A separate service water line in the connector enables an optimal and considerable faster forward feed of the feed soup. The service water cannot only be switched over in the feed preparation, but also directly in front of the division!



Double Feed

The solution for all fields of production

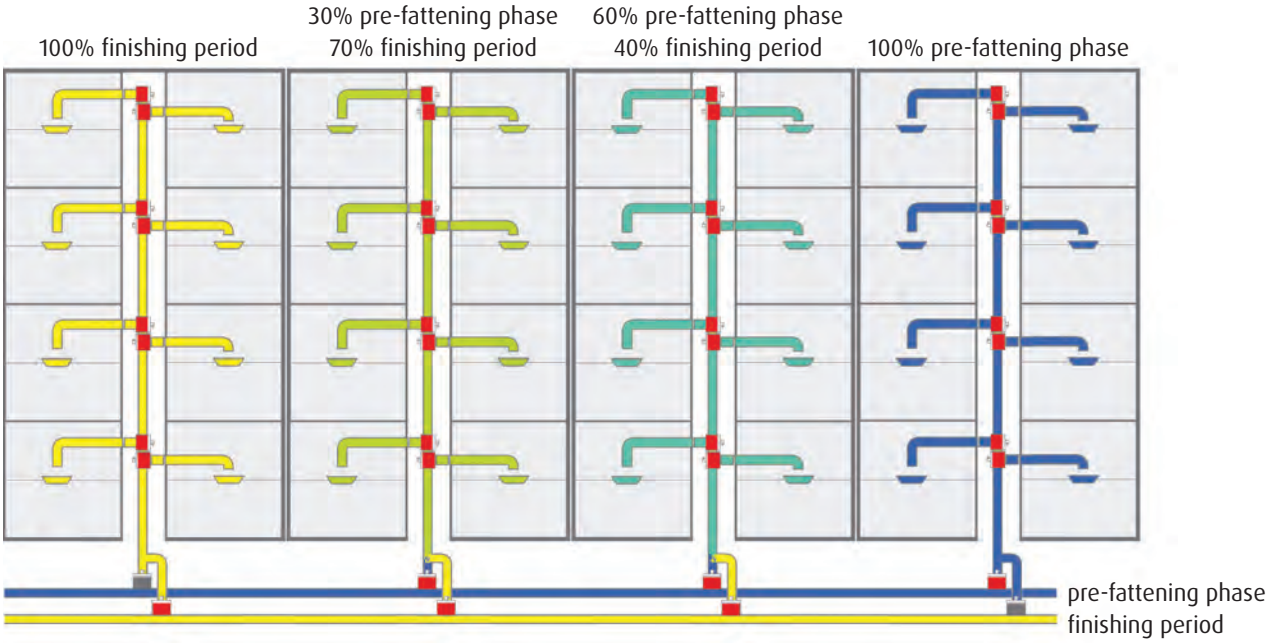
This system unites two liquid feeding systems in one mixing container. The container has a large connection for the feeding of sows and fattening animals as well as a small one for piglet feeding. This guarantees that no residual amounts of the feed of sows or fattening animals are fed out to the piglets.



Magic Feed

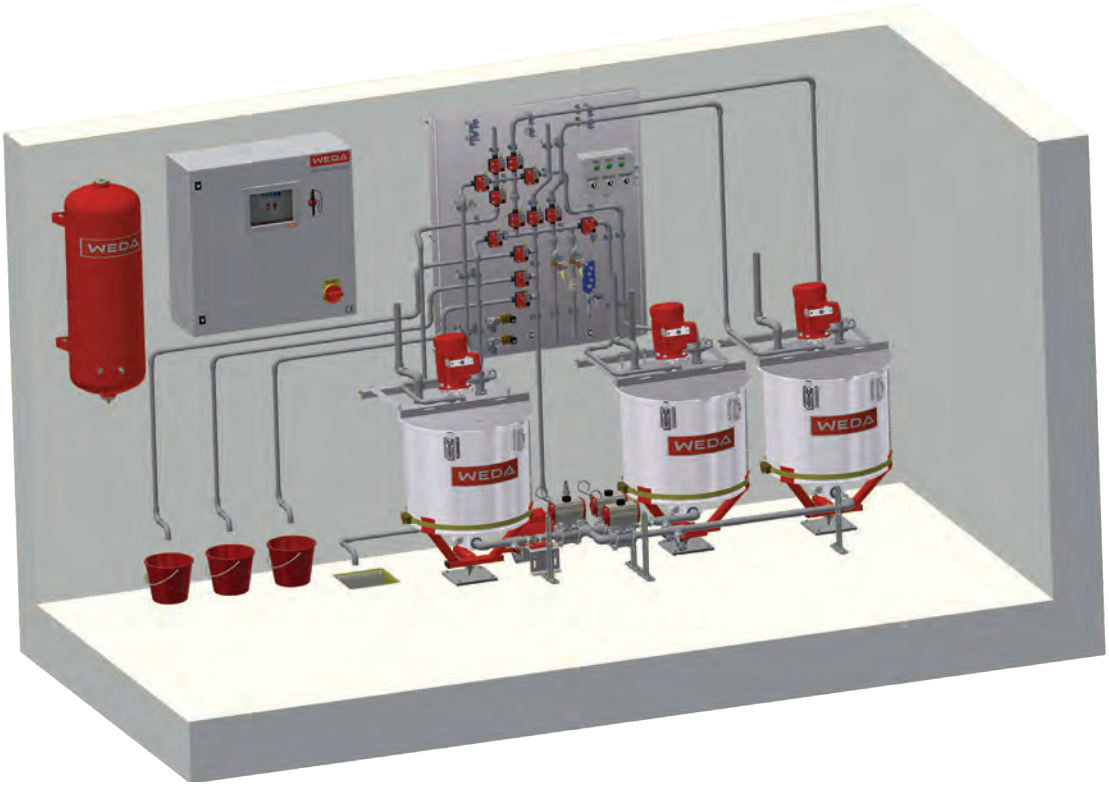
All feeding systems in one

Magic Feed is a feeding combination which unites multiphase, double pipe and stub feeding as well as non-residue feeding (via an additionally installed return flow). Pre-fattening and finishing feed can be fed out in various mixing ratios.

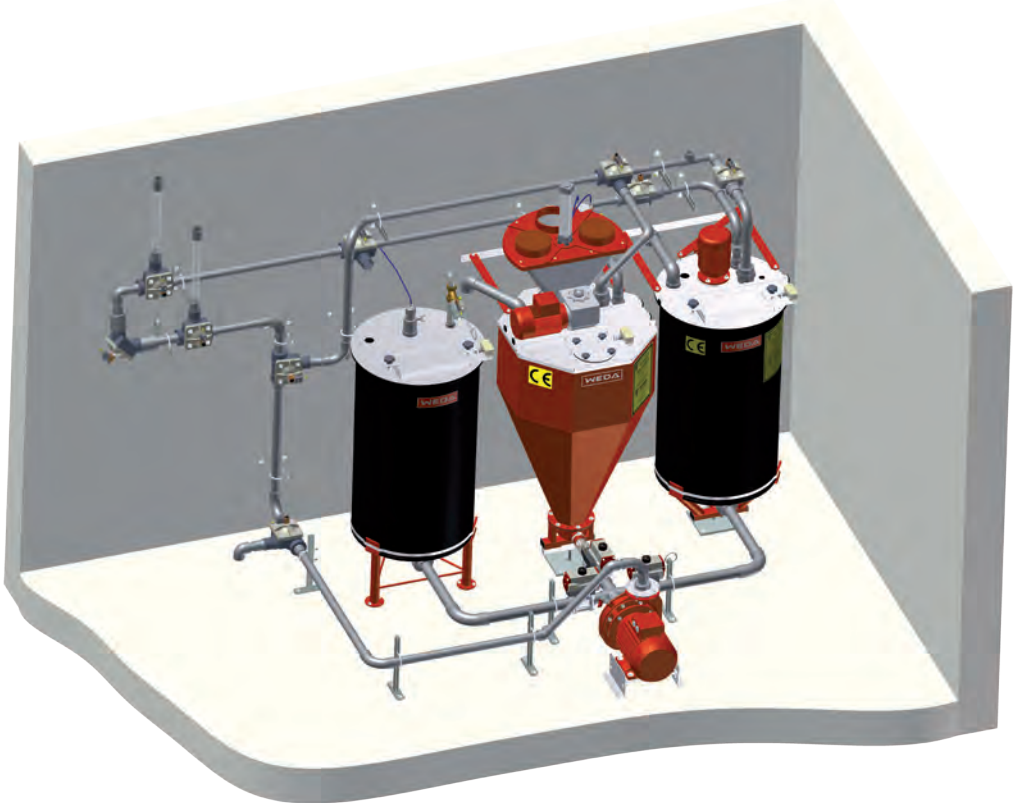


Example for a No-Residue Unit BW+

Nutrix+, the Suckling Piglet Feeding System



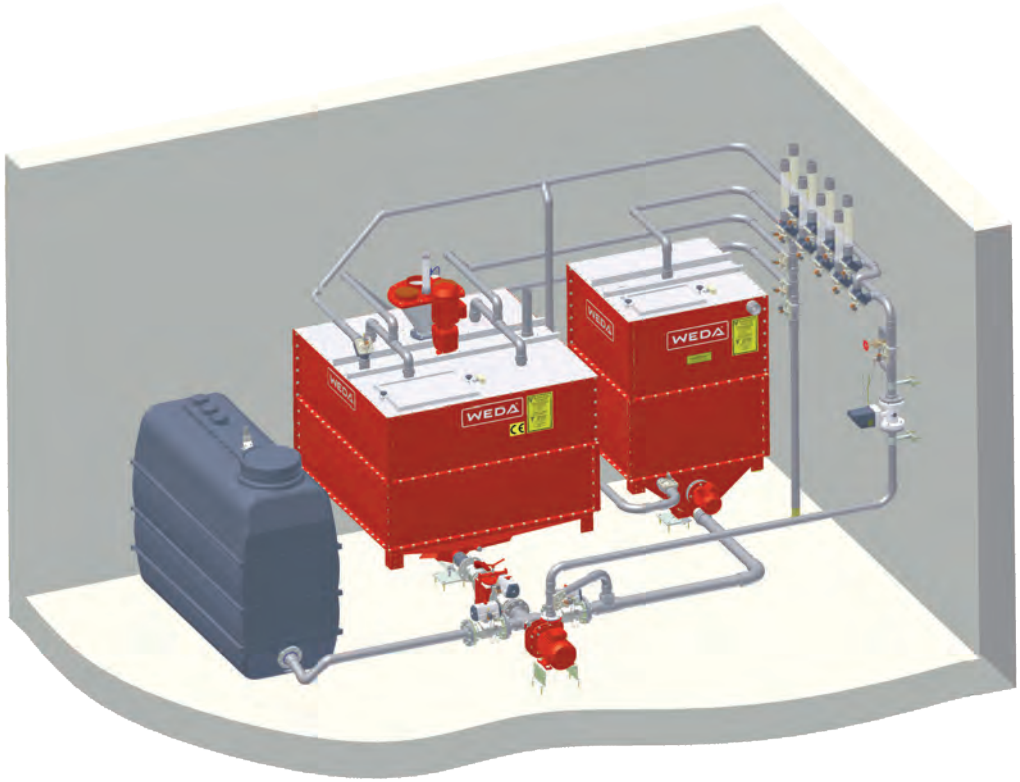
Conticomp-System for up to 1,500 piglets



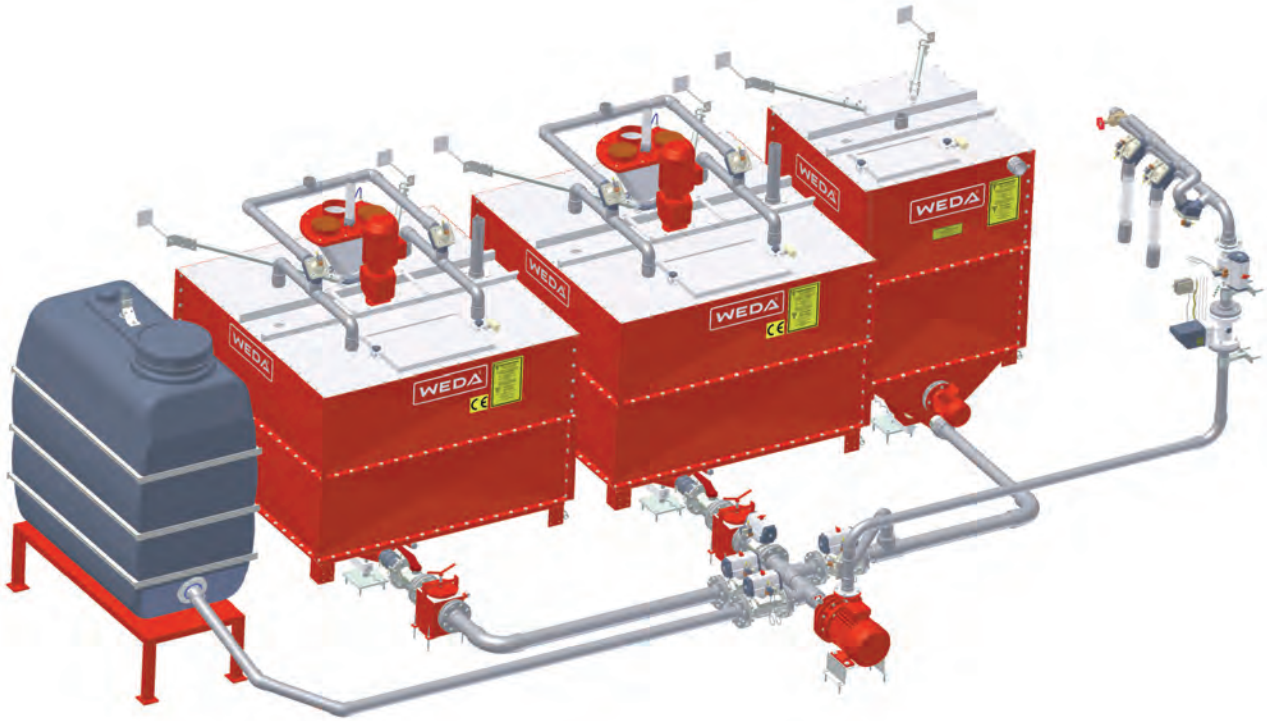
Double Feed System, e.g., for 150-sows' unit in a closed system

Unit Examples Liquid Feeding

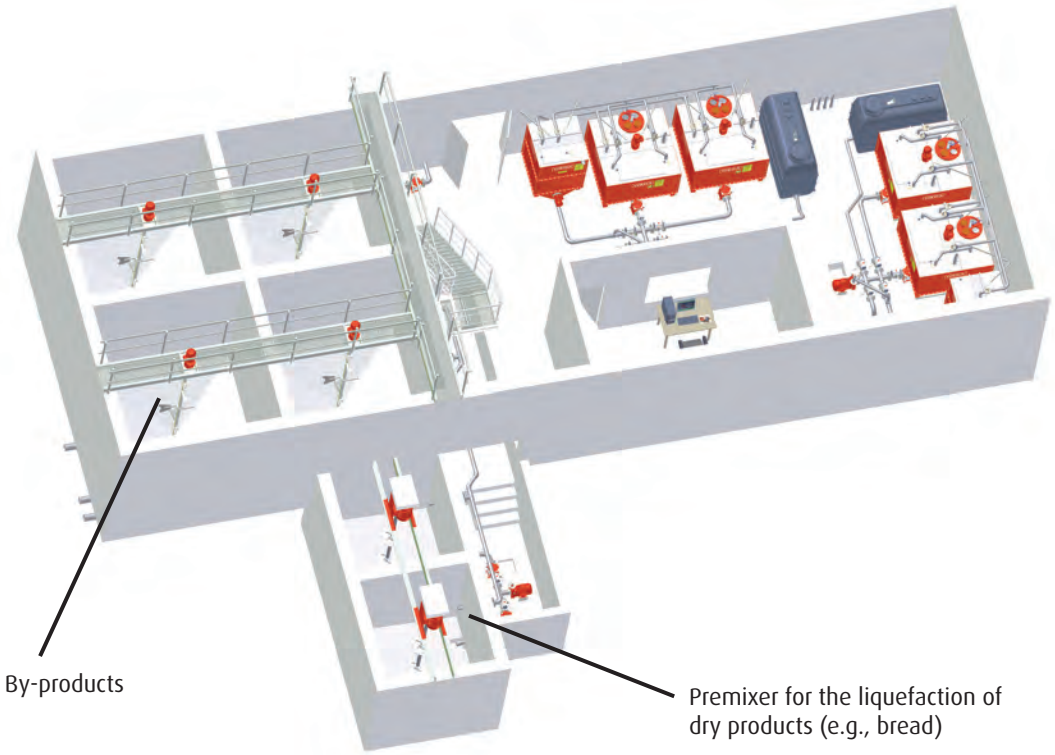
Non-residue feeding unit for up to 4,000 fattening animals



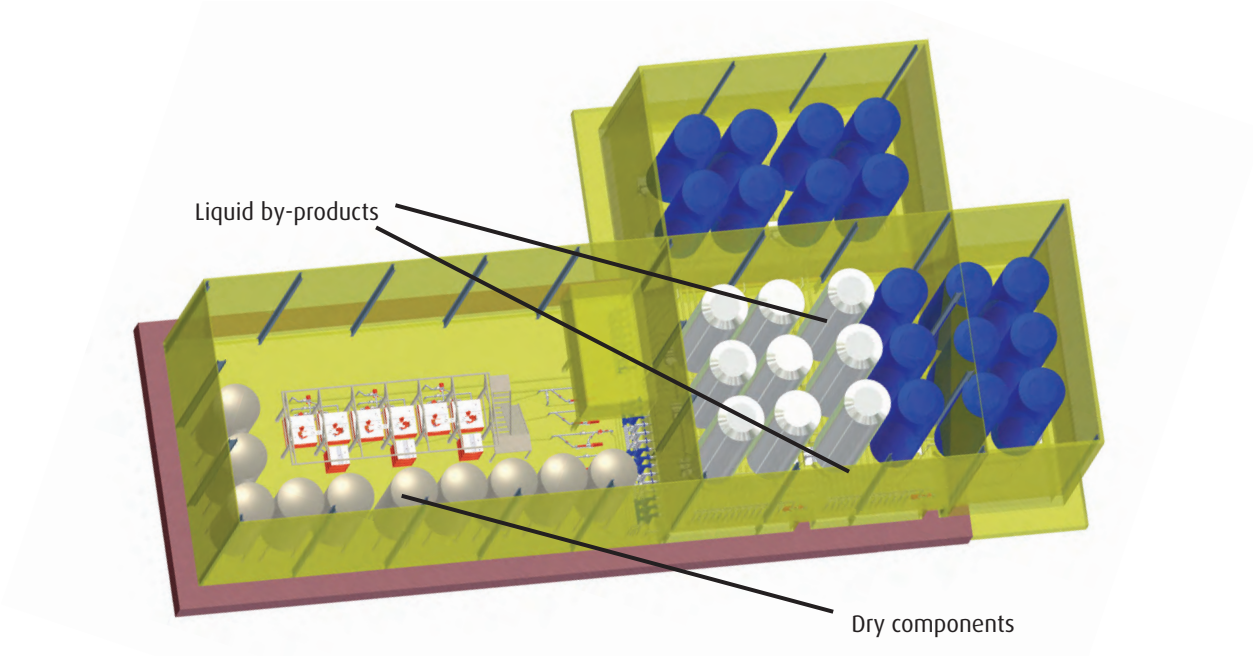
Unit with parallel working mixing tanks for about 4,000 to 8,000 fatteners



Non-residue feeding unit for about 10,000 fattening animals



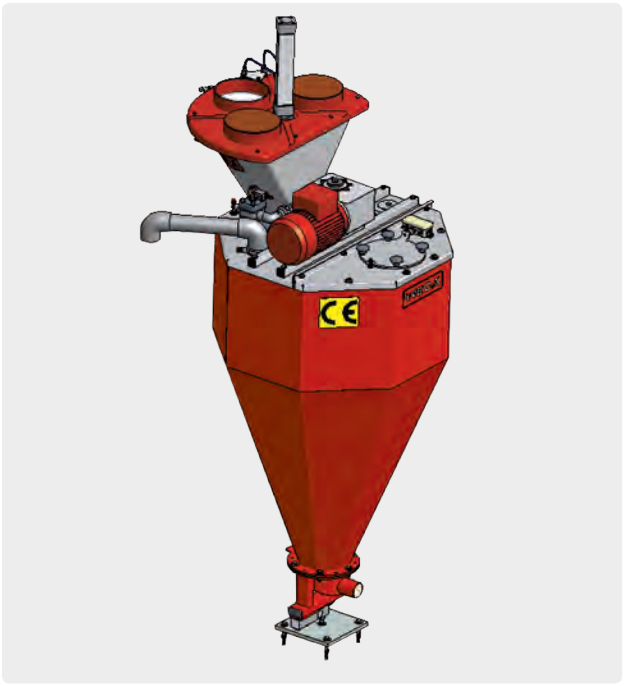
Unit for approx. 20,000 fatteners

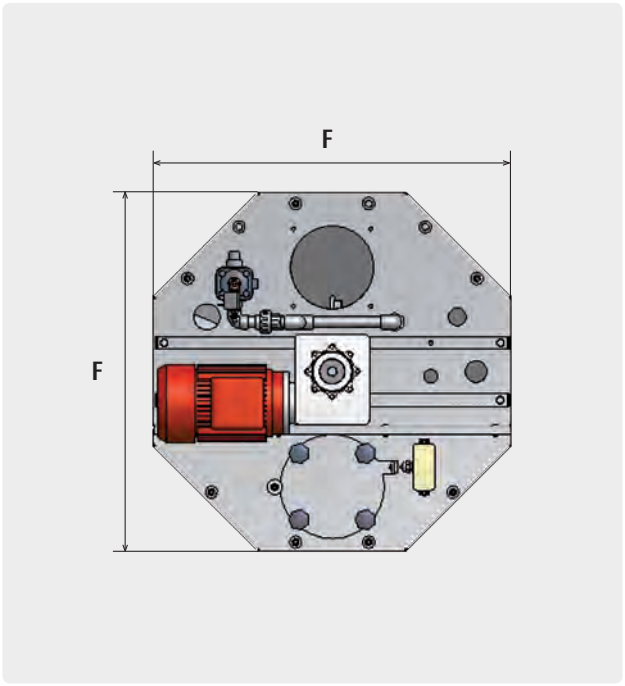


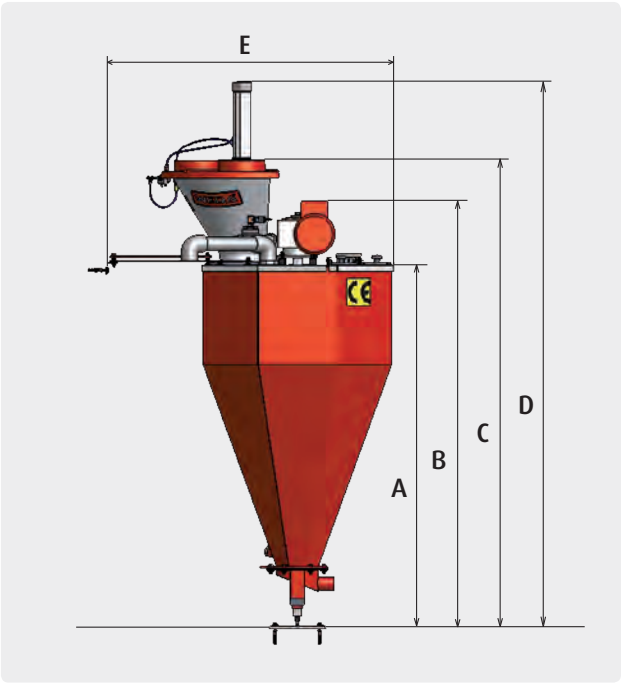
Tank Type „Conticomp“

The liquid feeding tank for weaners

The Conticomp tank is ideal for a feed provision of your weaners which is in keeping with their needs and which is hygienically safe. Smallest flowing feed amounts can be mixed without any problems.







Characteristics

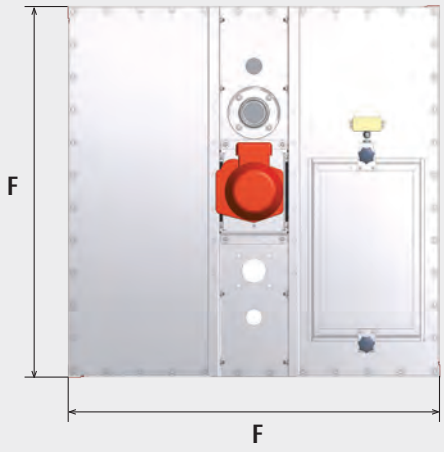
- For liquid feeding of weaners of up to 1,500 animals
- Mixing and feeding out of smallest flowing feed amounts of 5kg only and also of maximum mixing amounts of 150kg is possible
- Ideal for weaners of 6 to 35kg
- Conticomp-System is permanently furnished with Hy.Light, pH-control, alkaline cleaning and acid washing
- Maximal strand length to the last dosification valve: 75 m with a 32-conduct; 100 m with a 40-conduct
- Combination with already existing liquid feeding units possible
- Optional: pre-assembly on frame

	A	B	C	D	E	F
Measurement (mm)	1,335	1,565	1,710	1,990	1,048	688

Tank Type „QXS“

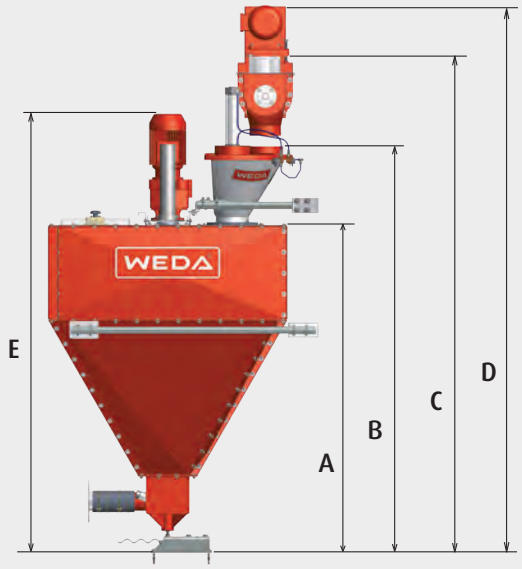
The little one for large-scale houses

By means of the QXS tank, piglets as well as sows and fattening animals can be fed by using different conveyor cross-sections. The cuboid “sump” underneath the container makes this possible.



Characteristics

- 2 pump-driven cleaning nozzles
- Cleaning nozzles are resistant and do not clog up
- Equipped with Agitator Type “MSE” of high-grade steel.
- Minimal mixing amount: approx. 15-20kg
- High-grade steel tanks are clean, robust and extensible
- Additional installation of ultraviolet light for the destruction of germs and bacteria
- The cuboid ”sump“ underneath the tank enables smallest mixing amounts
- Available with outlet 90, 50 or combined
- Modular construction method
- 1-point weighing
- Stirs even underneath the ground bearing

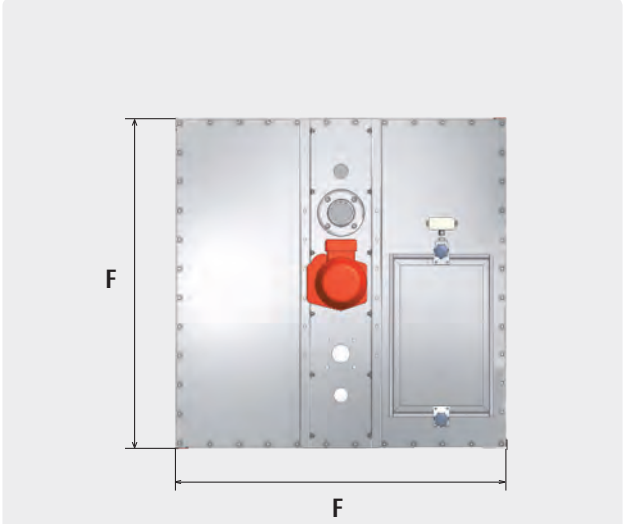


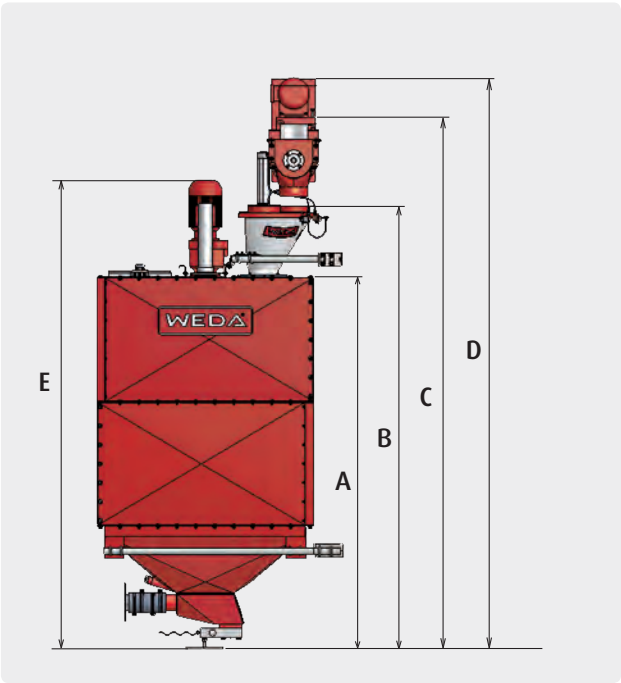
Cubic Capacity/ltr.	650	900	1,150	1,400	1,650
Measurement A (mm)	1,565	1,765	2,015	2,215	2,415
Measurement B (mm)	1,940	2,140	2,390	2,590	2,790
Measurement C (mm)	2,375	2,575	2,825	3,025	3,225
Measurement D (mm)	2,610	2,810	3,060	3,260	3,460
Measurement E (mm)	2,095	2,295	2,545	2,745	2,945
Measurement F (mm)	1,140	1,140	1,140	1,140	1,140
Agitator blades	1	1	1	1	2
Drive (kW)	1.5	1.5	1.5	1.5	1.5

Tank Type „QS“

Our mixing tanks fit through any door

The square mixing tank type „QS“ of top-quality high-grade steel is installed on-site. Fast installation as well as simplified transport are saving costs.





Characteristics

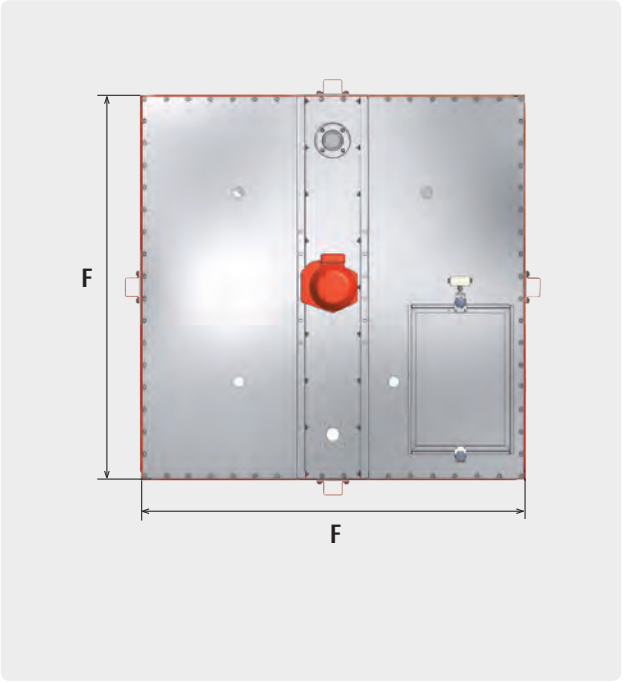
- 2 pump-driven cleaning nozzles
- Cleaning nozzles are insensitive and do not clog
- Equipped with agitator type „MSE“ of high-grade steel. Agitator blades individually adjustable in height and inclination
- Minimal mixing amount: 40kg
- High-grade steel tanks are clean, stable and extendable
- Additional installation of an ultraviolet light for the killing of germs and bacteria possible
- Square construction ensures favourable stirring effect
- 1-point weighing, 4-point weighing possible on demand

Cubic Capacity/ltr.	500	750	1,000	1,250	1,500	1,750	2,000
Measurement A (mm)	1,105	1,305	1,560	1,760	1,960	2,215	2,415
Measurement B (mm)	1,485	1,685	1,940	2,140	2,340	2,595	2,795
Measurement C (mm)	1,915	2,115	2,370	2,570	2,770	3,025	3,225
Measurement D (mm)	2,145	2,345	2,600	2,800	3,000	3,255	3,455
Measurement E (mm)	1,610	1,810	2,065	2,265	2,465	2,720	2,965
Measurement F (mm)	1,140	1,140	1,140	1,140	1,140	1,140	1,140
Agitator blades	1	1	1	1	2	2	3
Drive (kW)	1.5	1.5	1.5	1.5	1.5	1.5	2.2

Tank Type „QM“

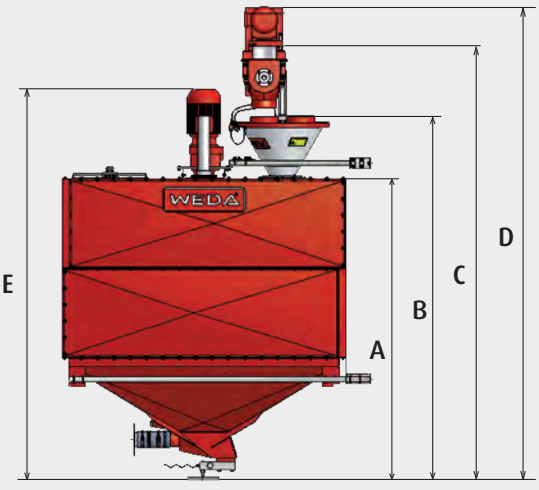
We construct made-to-measure tanks

The top quality high-grade steel components of the mixing tank „QM“ can be transported for installation into the feed preparation - independent of local peculiarities.



Characteristics

- » 4 pump-driven cleaning nozzles
- » Cleaning nozzles are insensitive and do not clog
- » Equipped with agitator type „MSE“ of high-grade steel. Agitator blades individually adjustable in height and inclination
- » High-grade steel tanks are extendable
- » Additional installation of an ultraviolet light for the killing of germs and bacteria possible
- » Square construction ensures favourable stirring effect
- » 1-point weighing, 4-point weighing possible on demand

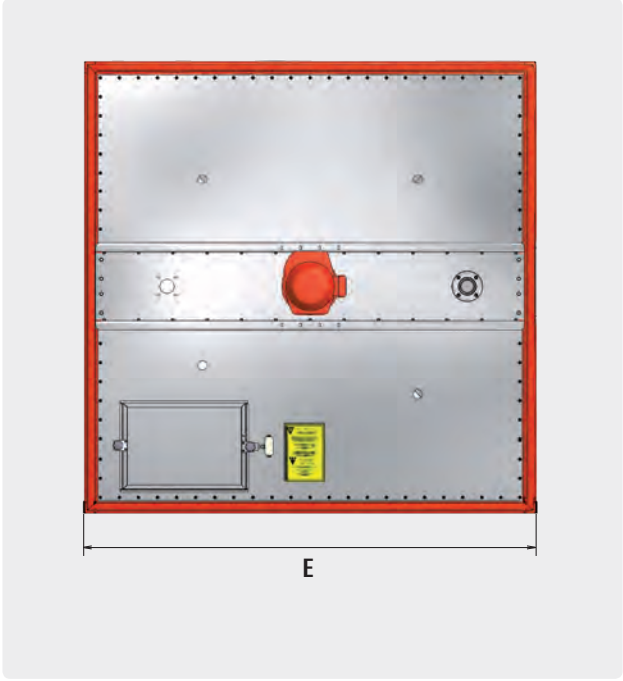


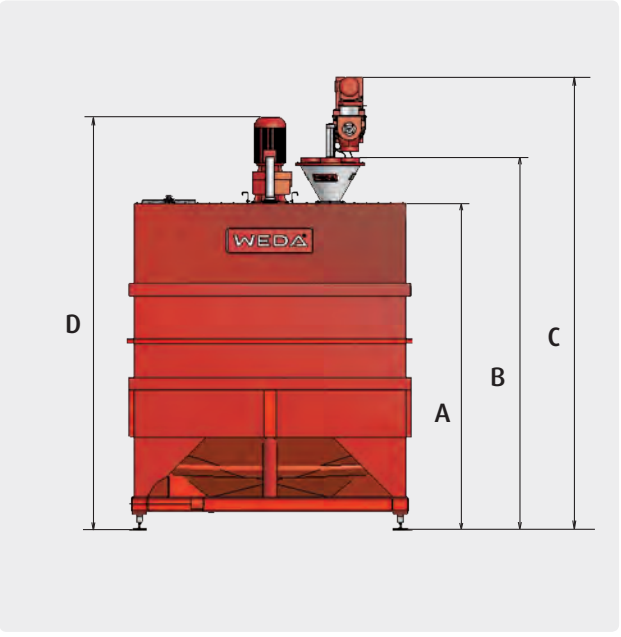
Cubic Capacity/ltr.	1,500	2,000	2,400	3,000	3,900	4,800	5,500
Measurem. A (mm)	1,290	1,495	1,635	1,835	2,175	2,520	2,785
Measurem. B (mm)	1,670	1,875	2,015	2,215	2,555	2,900	3,166
Measurem. C (mm)	2,100	2,305	2,445	2,645	2,985	3,330	3,596
Measurem. D (mm)	2,340	2,545	2,685	2,885	3,225	3,570	3,835
Measurem. E (mm)	1,835	2,040	2,180	2,420	2,810	3,155	3,420
Measurem. F (mm)	1,730	1,730	1,730	1,730	1,730	1,730	1,730
Agitator blades	1	2	2	2	2	3	3
Drive (kW)	1.5	1.5	1.5	2.2	3.0	3.0	3.0

Tank Type „Q“

Our tank for maximum amounts

Square, welded of top-quality high-grade steel, our mixing tank „Q“ offers space for maximum amounts. Up to 25,000 litres serially – and if you wish – more.





Characteristics

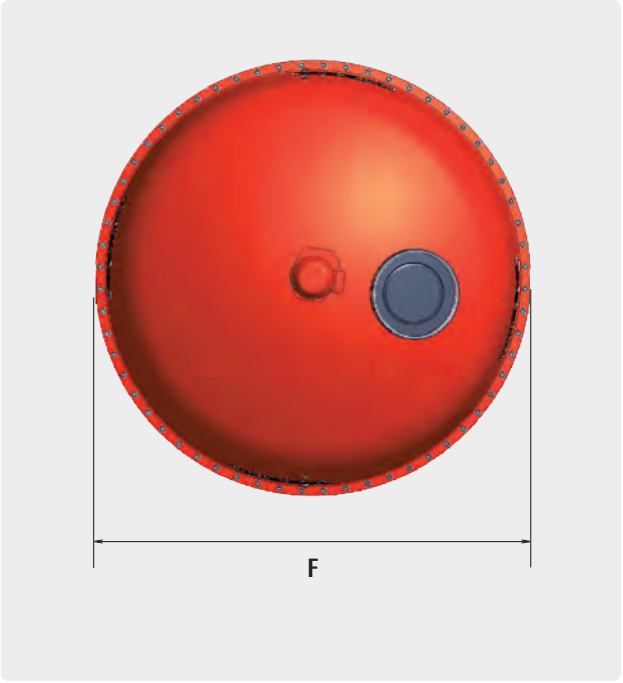
- 4 pump-driven cleaning nozzles
- Cleaning nozzles are insensitive and do not clog
- Equipped with agitator type „MSR“ of high-grade steel. Agitator blades individually adjustable in height, width and inclination
- Also suited for SS agitators
- High-grade steel tank is clean, stable and extendable
- Additional installation of an ultraviolet light for the killing of germs and bacteria is possible
- Square construction ensures favourable stirring effect
- For 4-point weighing

Cubic Capacity/ltr.	4,000	5,200	6,400	8,000	10,000	12,500	15,000	17,500	20,000	25,000
Measurement A (mm)	1,900	1,900	2,150	2,350	2,770	3,300	3,750	4,250	3,815	4,565
Measurement B (mm)	2,280	2,280	2,530	2,730	3,150	3,680	4,130	4,630	4,195	4,945
Measurement C (mm)	2,900	2,900	3,150	3,350	3,770	4,300	4,750	5,250	4,815	5,565
Measurement D (mm)	2,495	2,495	2,765	2,965	3,640	4,170	4,660	5,160	4,730	5,480
Measurement E (mm)	2,000	2,250	2,250	2,400	2,400	2,400	2,400	2,400	2,622	2,622
Agitator blades	2	2	3	3	3	3	4	4	5	5
Drive (kW)	3.0	3.0	4.0	4.0	5.5	5.5	7.5	7.5	7.5	7.5

Tank Type „GR“

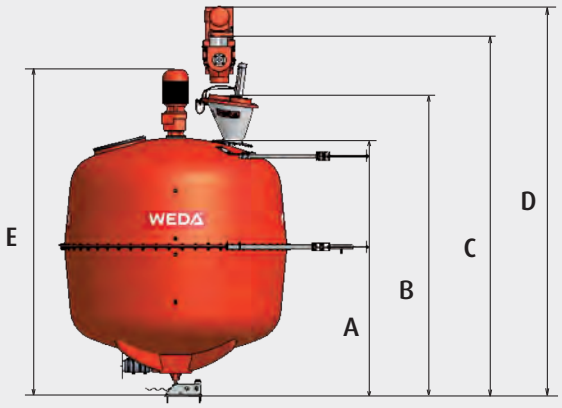
An “All-Rounder”

The tank of type „GR“ is a round, stationary and closed mixing tank of fibreglass reinforced plastic.



Characteristics

- Equipped with agitator type „MSR“ of high-grade steel. Agitator blades individually adjustable in height, width and inclination
- Sizes of 1,000 to 6,200 litres cubic capacity
- Depending on size and requirements, suitable for 1-, 3-, or 4-point weighing system
- 2 cleaning nozzles operated via feed pump
- Cleaning nozzles are insensitive and do not clog
- Additional installation of ultraviolet light for the killing of germs and bacteria possible
- Installed baffle plates ensure desired mixing effect
- Reasonably priced alternative to high-grade steel containers

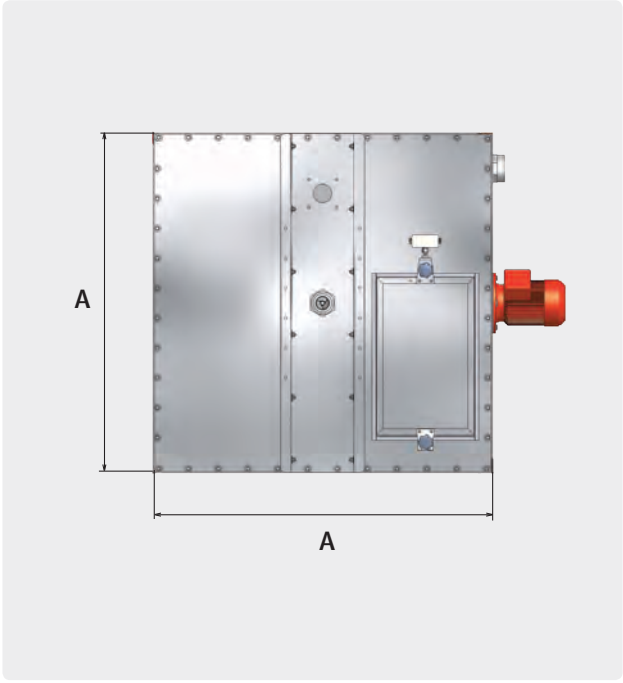


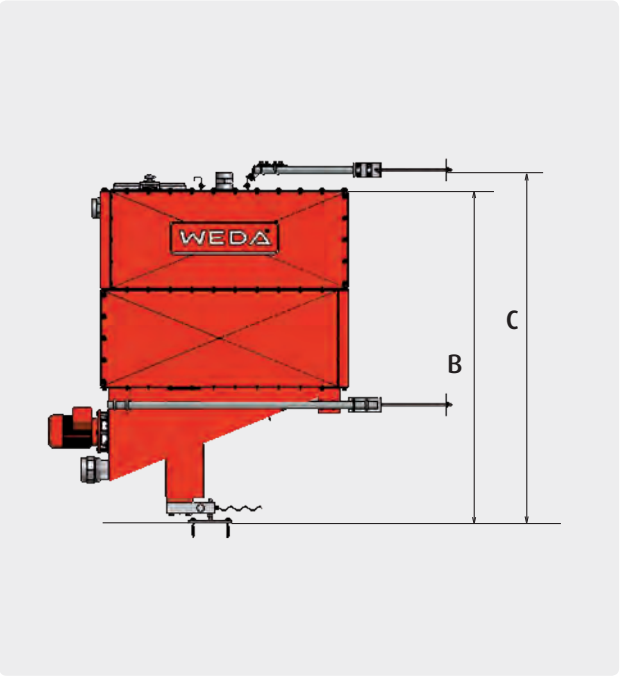
Capacity / ltr.	1,000	1,500	2,200	3,200	4,400	5,300	6,200
Measurem. A (mm)	1,665	1,965	1,965	2,110	2,305	2,605	2,905
Measurem. B (mm)	2,005	2,305	2,305	2,450	2,645	2,945	3,245
Measurem. C (mm)	2,485	2,785	2,785	2,930	3,125	3,425	3,725
Measurem. D (mm)	2,670	2,970	2,970	3,150	3,410	3,710	4,540
Measurem. E (mm)	2,167	2,467	2,467	2,649	2,916	3,216	3,540
Measurem. F (mm)	1,400	1,400	1,700	1,900	2,100	2,100	2,100
Agitator blades	1	2	2	2	3	3	3
Drive (kW)	1.5	1.5	1.5	2.2	3.0	3.0	4.0
Weighing	1P/3P	1P/3P	1P/3P	1P/3P	1P/4P	1P/4P	only 4P

Used Water Tank „BWS“

The ideal used water tank for your No-Residue Feeding System

The used water tank of high-grade steel is available in various construction sizes. Integrated cleaning systems ensure a high degree of hygiene.





Characteristics

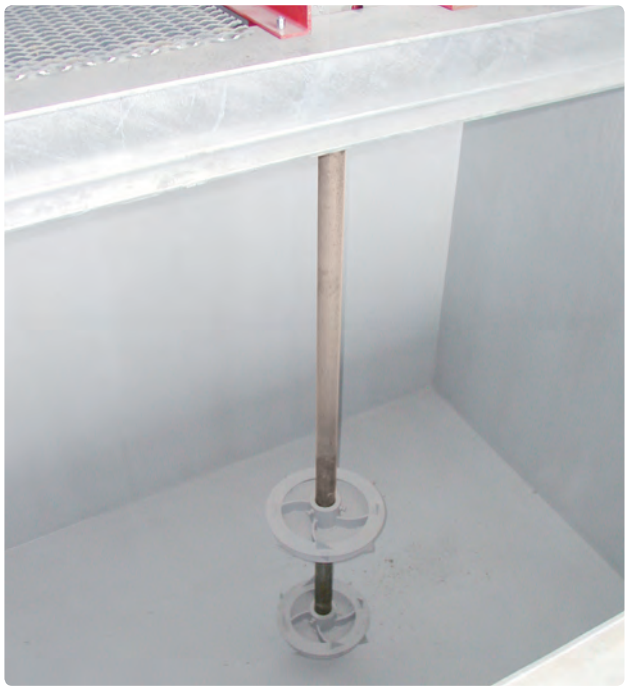
- Collecting tank of high-grade steel
- Construction sizes of 500 up to 2,000 litres
- A cleaning nozzle operated via feed pump
- Cleaning nozzles are insensitive and do not clog
- Additional installation of ultraviolet light for the killing of germs and bacteria possible
- Problem-free installation of an additional agitator in the case of probe feeding

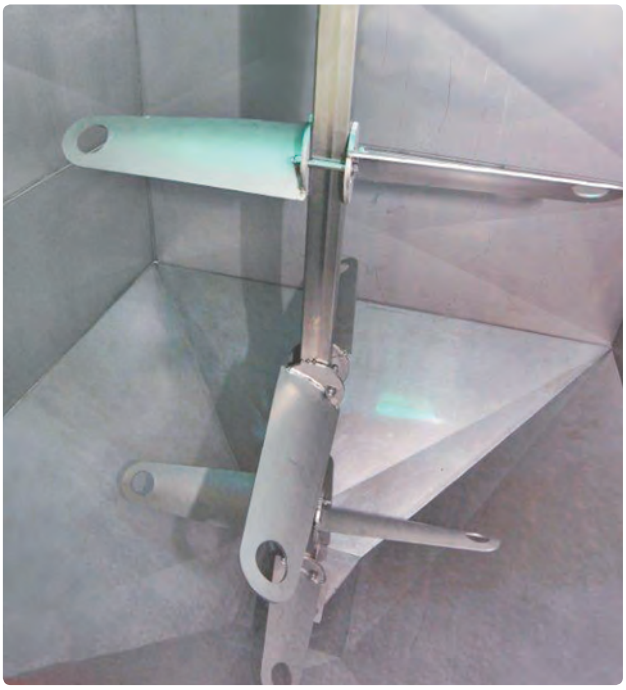
Cubic Capacity/ltr.	500	750	1,000	1,250	1,500	1,750	2,000
Measurem. A (mm)	1,140	1,140	1,140	1,140	1,140	1,140	1,140
Measurem. B (mm)	1,077	1,277	1,532	1,732	1,932	2,190	2,390
Measurem. C (mm)	1,172	1,372	1,627	1,827	2,027	2,286	2,486
Drive (kW)	0.55	0.55	0.55	0.55	0.55	0.55	0.55

Agitators

Well stirred – not shaken!

The Weda agitators provide for an optimal mixing of feed components in order to produce homogeneous liquid feed. Our agitators are also available as fast running cutter/agitators.





Characteristics of the SS-Agitator

- Fast running cutting agitator
- For size-reduction of feed components (e.g., bread, potato chips, noodles)
- From 7.5 to 30kW
- For pre-mixing tanks with a capacity of 4,000 to 25,000 litres (with one agitator)
- With an installation of 2 agitators suitable for pre-mixing tank with a capacity of up to 50,000 litres

Characteristics of the MSE-Agitator

- Medium fast running agitators with drive motor (approx. 64min^{-1})
- Engine design to match tank size
- Agitator blades and shaft of high-grade steel
- For all tank sizes of the QS and QM type
- Agitator blade freely adjustable in height
- Conception of agitator blade ensures more than 20% of energy saving
- Also available with 40min^{-1} for fermentation

Mixing paddle of SS agitator with knife-spraying protection

By-Products

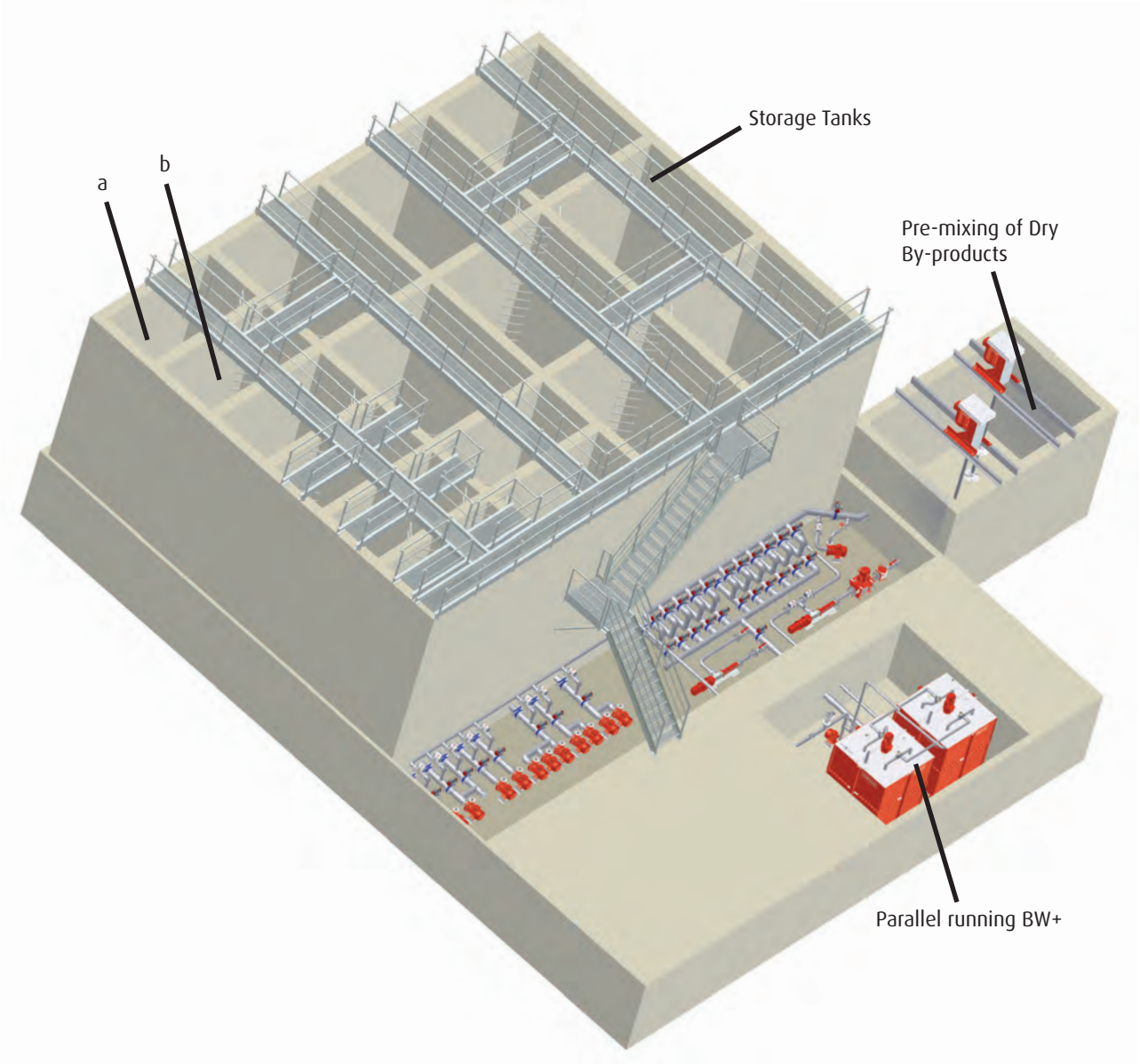
We care for an efficient feeding of your by-products – you save money!

By-products like e.g., whey, kitchen waste or distiller's waste from potatoes are low-price protein and fat suppliers, which can be mixed with traditional feed components and can then be fed.

Characteristics

- Lower priced than traditional animal feed
- Faster growth of the animals
- Nutrition-physiological advantages
- Improvement of animal health due to organic acids

Unit for 18,000 fatteners, 2,800 sows and 12,000 weaners



In this unit, customary feed is mixed centrally and is then distributed to the different divisions by pipes. For any product – no matter whether customary feed or by-products – two exchange tanks exist.

Example:
Tank a is filled with whey and is emptied during feeding; tank b is full. When tank a is completely emptied, it can be cleaned. Meanwhile the unit draws whey from tank b.

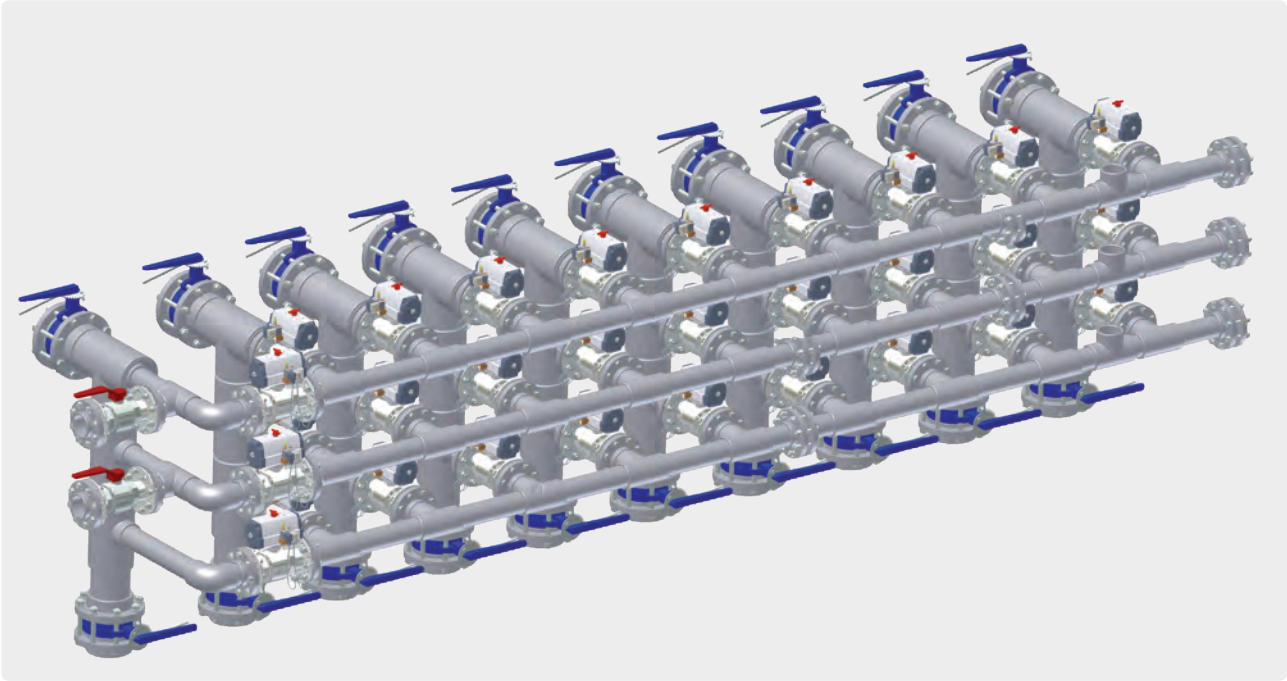
By-Products

Improvement of animal health

Organic acids in the by-products ensure an improvement of animal health. Moreover, by-products are more cost-effective than customary feeds.

Premixer

Premixing tank



Planning

Realization

Fermentation

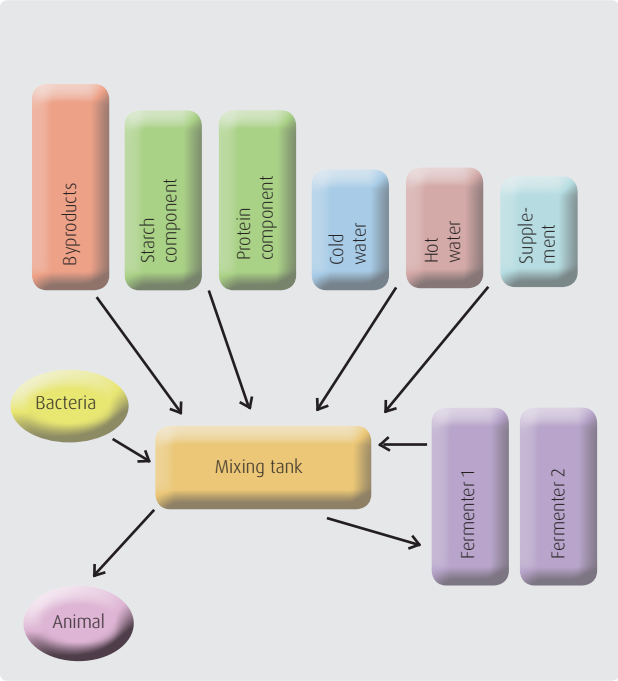
Lower costs with better health

Fermented feed components have a verifiably positive effect on the health of the animals in the house. Coughs and diarrhoea problems are clearly receding and salmonellae are reduced. This lowers veterinary costs and the use of antibiotics.

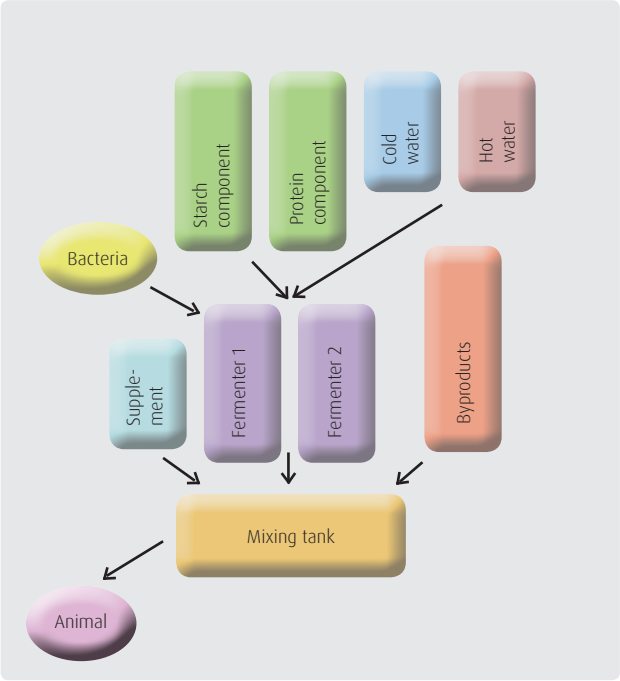
Characteristics

- In food industry, food products are preserved and value is added by means of fermentation processes.
- Fermented foodstuffs support the natural immune defence and promote health
- Clear reduction of the application of medications
- Lowering of veterinary costs
- By means of fermentation, certain feed components in pig managements can be modified in such a way that a kind of "pre-digestion" takes place. The advantage: better feed conversion, which clearly reduces the feed expenses per animal.
- Higher feed uptake
- Increasing animal performance
- Cost savings because due to cost-effective, domestic feed components (e.g., rape and rye) instead of expensive, genetically modified soy, almost identical animal performance can be reached.
- In case of fermentation, the addition of mineral phosphorus and feed acids will not be necessary. This saves additional costs.
- Increase in turnover and profit
- Lower environmental pollution due to the reduction of phosphorus and nitrogen in liquid manure
- Reduction of the total amount of liquid manure as by means of fermentation higher dry substance – and thus higher nutrient – contents can be fed out.
- Controlled fermentation process in comparison with continuous procedure is clearly better suited because better control is possible.
- For the controlled procedure, a liquid feeding system and two containers for the fermentation of the feed are required. Due to the change of containers, each fermentation process can proceed untroubled.
- The bacteria culture necessary for fermentation can be added in three different ways: in combination with a breeding ground for the pre-cultivation in a pre-vaccination container; as a pre-fabricated dry component that is dosed out directly into the mixing container via dry-dosificator; or as a ready-made liquid component.

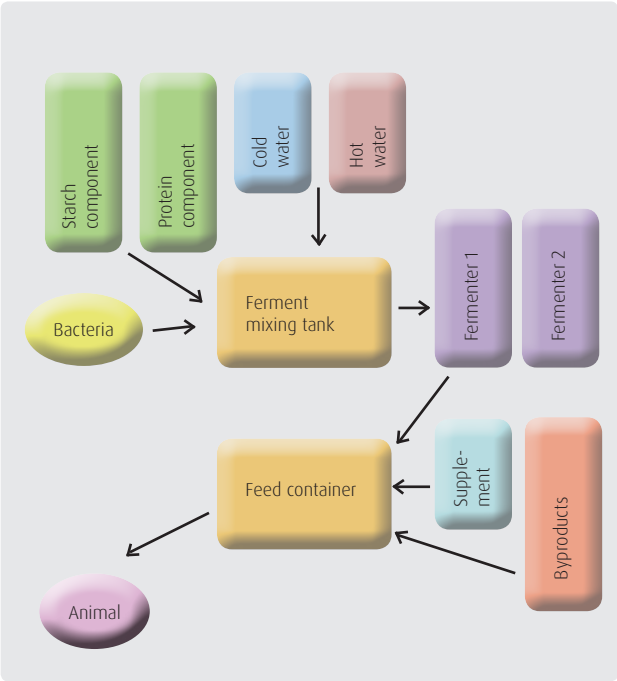
Possibilities of fermentation



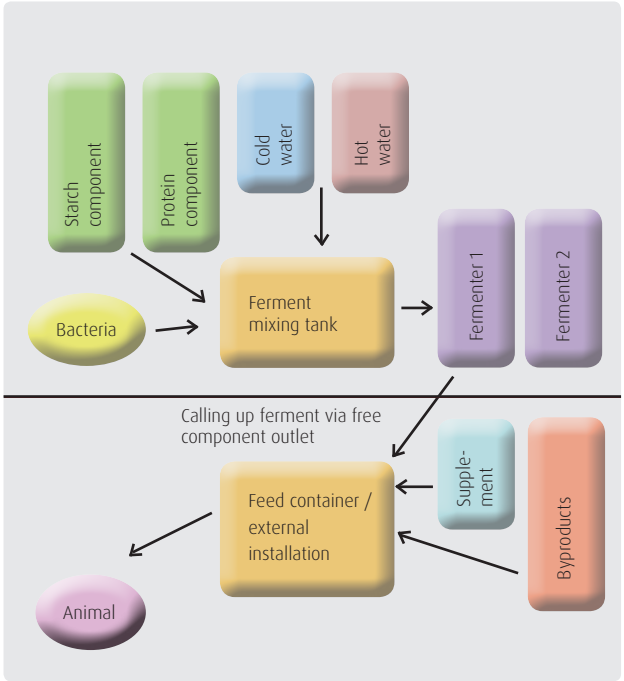
Mixing in feed tank



Mixing in fermenter



Mixing in separate tank



Mixing in separate tank with external installation

Fermentation

FermCube

In order to retrofit already existing units with a fermentation system, a construction permit might quite often be necessary. For cases like this, we have an ideal solution with our „Fermentation inside the Container", our FermCube, because no construction permit will be required for the container.

Characteristics

» Compact fermentation unit in a container, including complete process control, process monitoring, mixing technology and hot water processing
» Standardized modular system can be employed in almost any size of house
» Integrated monitoring system evaluates fermentation data and ensures high process reliability.
» Container will be delivered completely assembled and only has to be connected with the existing unit.
» Unproblematic combination with the liquid feeding systems of other manufacturers or with already existing house units
» Ferment production, water treatment and feeding run automatically.
» All fermentation data can be automatically transferred from the WEDA Software Fermi 4PX via an interface to the respective feed producers. Possible disturbances are thus directly recoverable.
» No GVO soy necessary any more
» Healthier animals
» Reduced use of phosphorus in the feed
» Lower feed expenses due to better feed conversion

High Moisture Corn Doser

Optimal intermediate storage of the feed at any time

The High Moisture Corn Doser is an intermediate storage for dry and moist feed components. The conveyance of the feed components into the mixing tank of the liquid feeding system takes place via CCM meal auger or by means of a pumping station.

Characteristics

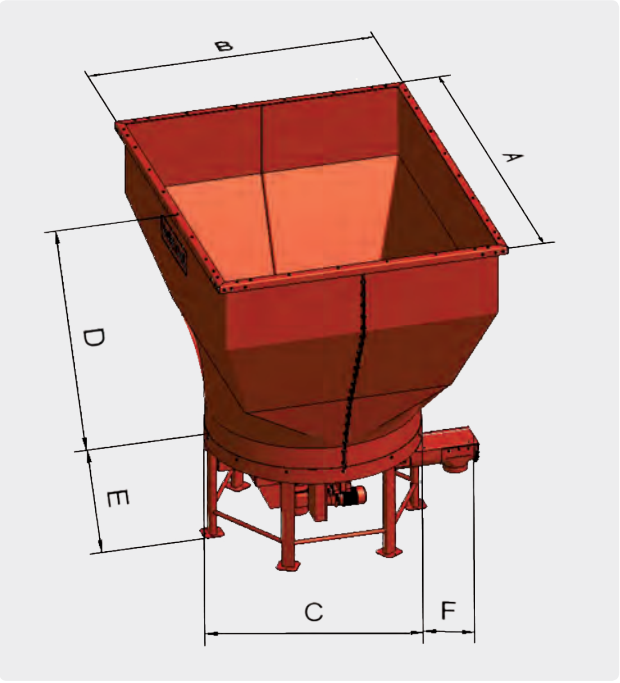
- Tank made of fibreglass reinforced plastic (GRP) with reinforced steel upper edge
- Base plate of tank of stainless steel
- Discharge auger with 0.37kW
- Ideal for CCM (Corn Cob Mix) and moist grain
- Discharge by means of rotating sword guarantees that the residual CCM is always brought out first
- Larger bales and lumps are easily broken up and discharged
- The disturbing formation of bridges is avoided
- Available in five different sizes
- Optional with backflow pump: flexible transport to several mixing tanks, independent from distances and floor levels, due to liquid conveyance with high conveying capacity (for feed amounts of more than 150kg if the dosing feeder is not put up in the feeding kitchen)

Lid of the High Moisture Corn Doser

High Moisture Corn Doser

Intermediate storage with a maximum of hygiene

The Silage High Moisture Corn Doser is ideal for the intermediate storage of CCM and moist grain. Larger bales and lumps can be reduced in size and dosed out without any problems. Residual amounts are principally always extracted first.



Technical Details	2.7m³	3.5m³	4.3m³	6.0m³	10m³
Measurement A (mm)	2,200	2,200	2,200	2,646	2,956
Measurement B (mm)	1,800	1,800	1,800	2,365	2,366
Measurement C (mm)	1,700	1,700	1,700	1,716	1,716
Measurement D (mm)	1,000	1,250	1,500	1,516	2,217
Measurement E (mm)	750	750	750	755	755
Measurement F (mm)	550	550	550	387	387
Contents (cbm)	2.7	3.5	4.3	6.0	10.0
daily ration (number of fattening pigs)	900*	1,100*	1,300*	1,900*	3,200*

* If feed consistency: 50% CCM proportion (TS contents: 40%) of the dry feed

Macerator

For permanently even consistency of the feed

The Macerator serves for the size-reducing of pumpable media like e.g. chips and potatoes. Heavy foreign matter like e.g. stones are kept back.

Characteristics

- Equipped with high speed cutting agitator
- Light ingredients or potatoes are reduced to small pieces by the blades of the cutting screen
- Heavy items like stones and metal items are securely kept back in its container
- Macerator can be controlled by means of a frequency converter (for variable torques)
- Furnishing with automatic pressure monitoring possible

Stone Trap

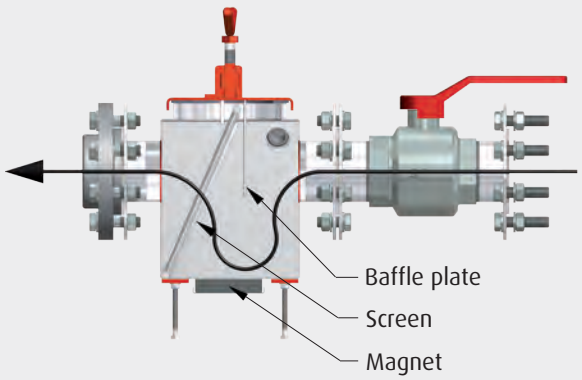
Security for your pumps

In order to protect the pumps of your liquid feeding unit, the Stone Trap is employed. Strong magnets ensure the separation of metallic foreign bodies and an integrated screen separates non-metallic ones.

The screen inside the stone trap holds back impurities which are situated inside the feed.

Characteristics

- Magnet keeps back metallic parts
- Filter for the segregation of non-metal items
- Available for the following pipe diameters: 75mm, 90mm, 140mm, 160mm and 200mm
- Compact construction for smaller residual amounts
- Feeding-depending control intervals



Flow direction of the feed in the stone-trap.

Pumps

For a reliable transport of liquid feed

Weda manufactured pumps are known for reliable operation and provide for smooth transport inside your liquid feeding system.

Characteristics of the Centrifugal Pump

- Power consumption of 4.0kW or 7.5kW
- Pump casing as standard in high-grade steel
- Weda self-construction
- With replaceable wear parts
- Before leaving the company, each pump is subject to an extensive examination on a test bed

Technical Details	Unpressurized conveying amount (to./h.)	Conveying amount during feeding (ltr./min.)	(to./h.)	Max. conveying pressure 50Hz	60Hz
Centrifugal pump, 4.0 kW	20	133	8	3.6	5.1
Centrifugal pump, 7.5 kW	40	166	10	4.8	7.2
Centrifugal pump, 4.0 kW for Conticomp System	--	50	3	4.6	6.5

Characteristics of the Eccentric Pump

- Short, compact construction with directly flanged on drive (block construction)
- Application in extreme areas like for example viscous media or high dosing accuracy (<5kg)
- Pump casing of high-grade steel
- With frequency and pressure sensor for your liquid feeding system
- WD 15/4 with flange-mounted ball valves in order to avoid residual amounts
- Weda self-construction
- With replaceable wear parts
- Before leaving the company, each pump is subject to an extensive examination on a test bed

Technical Details	Power (kw)	Conveying amount (to./h.)
Type WD10	4.0	10
Type WD15	4.0	15
Type WD15/4	4.0	15

Cleaning with Alkaline & Acid Wash

Hygiene Mr. Clean is dreaming about

In regular intervals, the entire liquid feeding unit is automatically washed out by rinsing with a lye (pH value >12). During acid washing, the tanks are cleaned with a low pH-Value of 4 and less.

Characteristics

Cleaning with alkaline:

» A sophisticated system based on a double effect of chemical cleaning processes and the wash effect by re-rinsing
» Considerably increases hygiene in the liquid feeding system
» The entire unit (weighing-mixing tank, used water tank and feeding pipes) is automatically washed by rinsing with lye of a high pH-value
» Killing of the, for the most part acid-tolerant flora like e.g., yeast fungi inside the tanks and pipes
» Intervals for the rinsing are freely selectable
» Reduction of stress as well as a decrease of animal losses due to improved hygiene conditions
» The total amount of the lye is so low that this can be discharged into the liquid manure without causing any problems at all

Acid wash:

» In addition, acid wash-out treatment is also possible for preventing possible bacteria populations
» During the following feed rations, the acid from the washout is fed out to the animals which brings about additional advantages in terms of nutritional physiology
» Fully automatic process
» Economical application of water
» Economical application of chemical cleaners, in particular in connection with pH control
» No danger for human beings or technology as in the case of acid fumigation
» Effective and by far more insensitive than acid fumigation as available cleaning nozzles are used
» Application of organic individual acid or acid mixtures

Characteristics of lye / acid dosification V1:

» Acid resistant / alkaline consistency
» 220V
» 50Hz
» 50W
» Conveying capacity: max. 60ltr./h.
» Protection kind: IP55

Characteristics of lye / acid dosification V3:

» Acid resistant / alkaline consistency
» 24V
» Air-pressure controlled
» Conveying capacity: up to 496.8 ltr./h

Hy.Light

For the professional cleaning of mixing tanks, used water tanks and water tanks

Hy.Light is a component of the Weda Hygiene Package. The system based on 100% ultraviolet light kills germs and bacteria at the walls of the tanks. Furthermore the formation of fungi and yeasts is prevented, and all this with low running costs.

Characteristics

- Killing of germs and bacteria on tank surface
- Growth of fungi and yeasts is prevented
- Perfectly neutral with regard to feed composition
- No danger potential whatsoever due to security switches, in particular in comparison with acid fumigator. When opening the tank, the light is automatically switched off. In the case of acid fumigation there is risk of injuries due to overpressure.
- Pipes available in lengths of 32cm and 92cm
- Advantageous operating costs (40W-pipe)
- Approved for food according to §13 clause 2 No. 1,2 of the Foodstuffs and Consumer Goods Law

Weda pH-Control

The ideal solution for an optimal state of health and low animal losses

By means of the pH-Control, the pH-value of the mixed feed is measured. If the desired pH-value has not been reached, a small amount of feed acid is added. This procedure will be repeated until the desired pH-value is reached.

Characteristics

- Mixing of a feed composition with a desired pH-value by adding liquid feed acid (selectable depending on mixture)
- Patented Weda method
- Causes an optimal gut flora within the gastrointestinal tract of the animals as a constant pH-value has a positive influence on the amount and on the activity of the digestive enzymes
- Ideal pH-value improves the vitality of your animals
- Of particular relevance when feeding weaners and sows
- Fully automatic procedure
- The computer naturally considers various pH-values for each recipe

WACS - Efficient Cleaning of Downpipes

Mechanical cleaning at the highest level

The WACS (**W**eda **A**ctive **C**leaning **S**ystem) is a computer-controlled downpipe cleaning system for liquid feeding units. The system is based on pneumatic pressure and suitable for pipe diameters of up to 63 mm.

The pressure-water-air mix, in connection with high speed, ensures thorough cleaning of the downpipe.

Characteristics

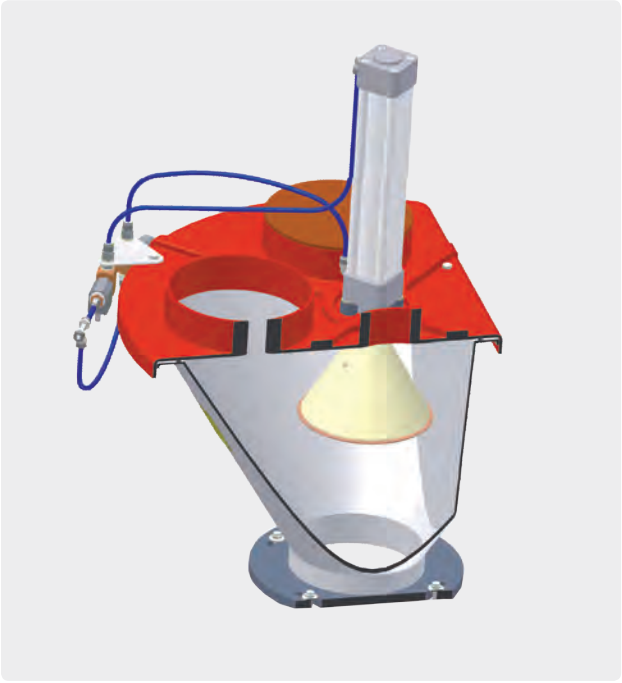
- Mechanical cleaning by an air-water mix, which is transported through the downpipes with very high speed.
- An additional installation of plastic downpipes with an antibacterial effect or enrichment of the air-water mix with disinfectants by means of injector is possible
- Suitable for all unit types (incl. stubs)
- Additional automatic mechanical cleaning of the feed line that is situated in front of the valve
- Reduction of manual cleaning works
- Time-saving
- The daily number of cleanings can be adapted to the requirements of the respective unit and can be programmed into the control system to the unit accordingly
- Cost-effective as system can be operated with a customary compressor (required air pressure: 1.5 bar to 2.5 bar)
- Can be integrated into already existing houses or pipe systems without any problems because only the air-water injector has to be installed in front of the feed line of the division in question.

Air-water distributor

Inlet Hopper

No chance for fungus and the like

Via the Inlet Hopper, the dry components arrive inside the mixing tank of the liquid feeding system. The specially designed conic stopper is an ideal protection for the feed at the inlet of the dry components against dampness from the mixing tank.



Characteristics

» Possesses three or four connections
» Closure blade is even with tank lid in order to avoid disturbing edges in the tank
» No dead corners and therefore easy cleaning of the tank
» The formation of fungi at the augers is prevented as due to the conic stopper water cannot reach up to the dry components
» Protection against the growth of "disease inflicting" germs at the auger inlets
» Optionally also available with ultraviolet light
» Also with 2 connections of 75mm for Nutrix+ or fermentation system

Tank Cleaning System / Sprinkler

Thorough cleaning of your tank

The Tank Cleaning System and its integrated sprinkler provide a thorough cleaning of the mixing- and used water tank. The provision with cleaning liquid takes place via the feed pump.

Characteristics

» For centrifugal pumps and eccentric pumps
» Of high-grade steel
» Depending on tank size, 4 sprinklers can be employed in a tank

Sprinkler for centrifugal pumps (picture):
» Agitator blades ensure distribution of cleaning liquid at the sides
» By means of a spinning disk underneath the agitator blades, cleaning liquid is distributed to the top and this way, the tank lid is thoroughly cleaned

Sprinkler for eccentric pumps:
» Integrated spiral for increasing the exit pressure
» Distribution of cleaning liquid via variable angle wings

Electromagnetic Flow Measuring

Measurement independent of scale values

Flow rate measuring of the outgoing feed or water takes place after the pump, independent of scales value. The measuring prevents an overproduction of fresh water and can increase the dosing accuracy.

Characteristics

- Prevents overproduction of used water in no-residue feeding as (necessary for many weaner and sow units) returning used water is immediately integrated back into the circular flow and no extra water is produced
- Very high dosing accuracy
- Deviations of the scales due to movements of liquid inside the tank do not influence the flow rate measuring

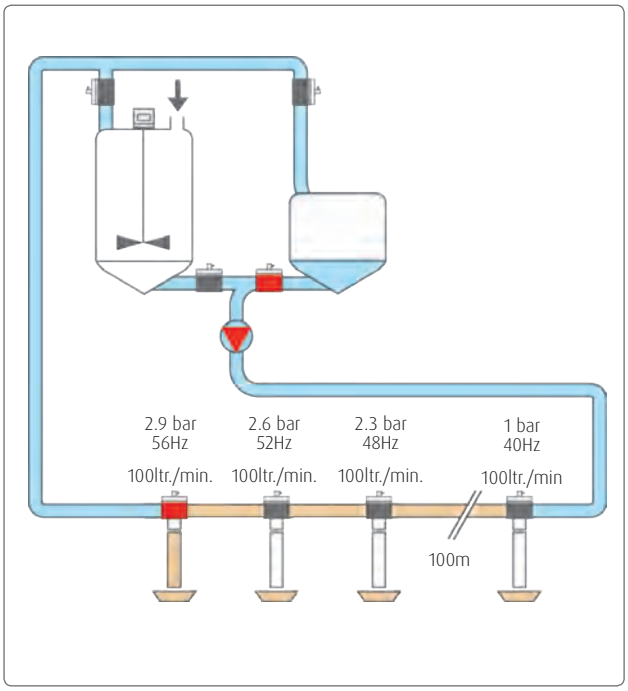
Explanation for the avoidance of overproduction of water by means of an example:
5 valves at a distance of 150m are to be supplied with 60kg of liquid feed. For a 63-pipe, approx. 380ltr. are required until the feed reaches the last valve. There are, however, only 60kg inside the mixing tank which means 320ltr. less than required. These 320ltr. have to be pumped into the feed columns in the form of water in order to transport the feed column to the valve which is feeding. If this valve is fed ten times a day, this means an additional amount of 3,200ltr. of water, and consequently a strong over-production of water. Quite often, this surplus water cannot be fed out to the other animals and therefore has to be pumped into the liquid manure pit. Weda are the only producers who do not tolerate this waste of water. Flow rate measurement exactly determines the amount of used water which is required for transporting the feed column to the respective valve. The returning used water flows back into the circuit.

With regard to flow rate measurement and frequency regulation:
Opposed to other customary methods which e.g. reach higher dosing accuracy via special valve constructions, the Weda systems feature no negative effects whatsoever with regard to membrane wear or unit overpressure.

Flow Rate Regulation

For a long life-span of your unit

A control unit ensures a constant flow rate inside the pipe and results in an even outflow at each release valve although the pressure changes with changing distance.



Characteristics

- Regulation of flow rate
- Continuous regulation of feed pumps
- Reduction of feed losses, long waiting times and no splashing during feed discharge
- Very exact dosification at the outlets
- No beats
- Long operating life, low wear of unit
- Less electricity consumption
- Several motors addressable after one another. Thus, meal components can be exactly dosificated into the mixing container

Example:
At a small distance from the valve there is only a low counter pressure to the pump. With increasing distance from the valve the counter pressure to the pump also goes up due to friction, etc.

Weda are sole providers of flow rate regulators with continuous frequency regulation. This system keeps the flow rate of the feed constant. With growing distance, the frequency and therefore simultaneously the conveying capacity of the pump is increased. In the case of valves at a close range the flow rate control guarantees that splashing of the feed during the dosing-out process is prevented. In the case of valves at a greater distance the system ensures an even flow of the feed. This allows for uninterrupted feeding and high dosification accuracy.

Furthermore, the system prevents unnecessary burden of the valve bodies as it is made clear by the following example: Starting point: 63-pipe with a volume of 2.55ltr./m. With a pipe conduct length of 200m, approx. 500kg are transported at a rate of 3.5m/sec. (12.6 km/h). In case of an abrupt stop (locked valve), 500kg of mass would therefore run frontally against a valve body and would in the long run harm the system. Weda have a different approach with regard to this: before the closing of the valve the feed-flow is slowed down. This Weda solution will consequently provide a long life span of your unit.

Mix-Pipe

Revolution in liquid feeding: demixing of water and feed prevented!

Liquid feed often has to be transported over greater distances. In the case of conventional feeding pipes it comes to a de-mixing of water and feed. Our Mix-Pipe prevents such de-mixing and ensures homogenous liquid feed at every dispensing valve.

The Mix-Pipe (above) developed by Weda prevents the de-mixing of water and feed on the entire length of the feeding pipes. Its spiral-shaped internal structure ensures a permanent thorough mixing of the liquid feed and thus prevents sedimentation inside the feeding pipe. Our Mix-Pipe was awarded the gold medal of the DLG as especially in the case of spur-lines the sedimented feed inside the pipe is immediately thoroughly mixed again.
In the case of conventional feeding pipes (below), however, feed and water demix. This leads to dosing out of a water- and feed mixture with different DS contents to the respective valves. The animals inside the house consequently do not receive the same necessary amount of feed and therefore grow irregularly.

Our Mix-Pipe does not only inspire our customers but it also inspires our competitors. The products of competitors available on the market (here as an example: feeding pipe with iron spiral) are merely integrated into the feed line in certain intervals and are therefore unable to prevent de-mixing. As opposed to other producers there is no diminution of the pipe in our Mix-Pipe. Such diminution would not only slow down the flow of the liquid feed due to the increased resistance but would also in some cases lead to a blockage of the feed-lines.

Mix-Pipe

Pipe Always Clear

By means of the Mix-Pipe, a sedimentation of the feed inside the line is prevented and thus, blockage of the pipes is prevented. In addition, the Mix-Pipe grants dosification of liquid feed with almost identical dry substance content at each valve.

Tube with iron spiral

Mix-Pipe

Characteristics

- During its passage inside the pipe the feed mixture is permanently mixed through
- Dosing out of liquid feed with almost similar content of dry substance is guaranteed at each valve
- Installation of the pipe over the entire length is necessary so that sedimentation cannot set in again
- Mix-Pipe causes no additional resistance
- No pipe clogging due to sedimentation
- Inside is furnished with a spiral-shaped structure in the shape of an approx. 10mm high lip
- Behind the lip, no „hidden areas" exist in which dirt could form
- PVC pipe with diameters of 63, 50, 40 or 32mm

Within the framework of several tests, the number of rotations of our Mix-Pipe was optimized by our specialists to approx. 1m per rotation. The Mix-Pipe has to be supported over its entire length as the heavy feed components already start their sedimentation process after a few metres.

Many attempts have been made to copy the Weda Mix-Pipe. In this context, some providers have furnished their pipes with an iron spiral. As one can clearly see when comparing these with our Mix-Pipe, this leads to the described diminution of the feed conduct.

We therefore advise you:
Stay with the original and keep your pipes clear!

Injection MK

Your reliable helper for absolutely pinpoint additive administration

The Injection MK is a screwable valve for the direct administration of additives into the downpipe. Besides the input into the spur line, feeding into a separate circuit or an injection into a certain downpipe is also possible.

Characteristics

- With corresponding adapter, additive valves can be installed (by means of screwtop) beside each feed valve and connected to the additive circuit within seconds
- Treatment of individual pens but also of complete animal houses is possible
- In case of dosing into the downpipe, dangerous procrastinations of additives into the feed lines are prevented
- Optimal mixing of the feed is guaranteed
- Integration of flow rate measuring possible, otherwise administration of additives respective of time
- Should no additives be given into a valve, the serially installed manual cock can also be manually closed per valve
- PC documentation

Additives Dosing Feeder MD 250 or 125

Additives – simple and safe!

By means of the Additive Dosing Feeder, additives can be easily and quickly processed and then be fed into liquid feeding systems. Here, the dosing either takes place directly into the mixing tank, or via the Injection MK into the feed-line, resp. into the downpipe.

Characteristics

- Completely ready for connexion (400V/50Hz)
- Dosing directly into the mixing tank or via the Injection MK directly into the feeding pipe, resp. into the outlet pipe
- Dry-running of the pump is prevented via sensor
- Completely equipped with agitators and dosing pump
- Liquid dosing with 125, resp. 250ltr. storage container and 0.55kW agitator
- Integrated discharge valve for the cleaning of the storage container
- Manual lock valve for water connexion 1" and mounting frame
- Dosing pump with a capacity of approx. 4,000ltr./h
- Optional: as a mobile design with connections in front of each division into feed-line / spur line

Additives Dosing Feeder MD 40

For strong health of your animals

The MD 40 is a dry dosing feeder of high-grade steel for the administration of additives via the feed.

Characteristics

- Holding capacity approx. 65ltr.
- Discharge of additives takes place by means of a spiral
- Spiral, diameter 55mm, drive 0.37kW (400V)
- Including vibrating unit
- At the top loose lid for easy cleaning

Additives Dosing Feeder MD 15

For the effective treatment of your animals

By means of a spiral, the Additive Dosing Feeder MD 15 administers the additives in a dry form.

Characteristics

- Dry dosing feeder
- Dosing of smallest amounts
- Contents: 15ltr.
- Motor: 24V
- Dosing accuracy in the case of powder: 5-6g/sec.
- Dosing accuracy in the case of minerals: 10-12g/sec.
- Complete with connecting branch for mixing tank
- At the top loose lid for easy cleaning

Additives Dosing Feeder S400

Additives always well stored

The additive dosing feeder S400 serves for the storage of additives for liquid and dry feeding. Transport in the feeding unit takes place via spiral.

Characteristics

- Made of high-grade steel
- Dimensions: 1.20 x 1.20 x 1.00m
- Contents: approx. 400kg
- Drive: 0.75kW
- Integrated spiral
- Conveying of additives via spiral (75mm)

Silos

Securing of best feedstuff quality for a healthy animal stock

Dry feed can be optimally stored in Weda feed silos. The feed stays fresh and nutritious, no matter which silo version you decide on.

Feed silos of GRP

Indoor silo

Characteristics

GRP Silos:

» Of high-value, weather-proof GRP
» Fast assembly, simple maintenance
» Feed stays fresh and nutritious
» No feed residues as no "screw-joint seems" at the side
» Available in one piece, or in two parts

Galvanized silos:

» Production according to TS EN ISO 9001:2000
» Thickness of silo walls is adapted to the given facts
» Long life-span due to special corrugated sheets
» For pneumatic and mechanical filling
» Excellent feed flow
» Feed stays fresh and nutritious
» Favourable temperature situation in silo
» Simple maintenance

Indoor Silos:

» Breathable, uncoated and high-strength high-tech fabric prevents the formation of fungus and adherences
» Constant grain quality according to hygiene requirements
» Silo bag with 400 mm outlet

Technical Details	Volume (m^3)	Diameter (m)	Total height (m)	Dimensions (m)
Indoor silos (Treviera)				
Available from	2.2	--	2.90	1.30 x 1.30
to	27.7	--	5.40	3.10 x 3.10
GRP-Silos				
Available from	6	2.20	4.34	--
to	60	2.80	12.10	--
Silos, galvanized				
Available from	8.1	1.79	5.84	--
to	53.3	2.68	12.52	--

Augers & Spiral Conveyors

For reliable dosing of dry components

Our augers and spiral conveyors ensure problem-free dosification of the dry feed components into the mixing tank. For varying demands, there are different augers and spiral conveyor types at your disposition.

Trough auger

Auger

Characteristics

Trough auger (R-L-auger)

- For the dosing into 2 mixing tanks
- With cover and 2 outlets
- Available in the variations of high-grade steel and galvanized steel
- V-belt drive
- High-grade steel version especially for acid-treated grains or e.g. CCM

Augers

- Galvanized
- Conveyor length up to 2m
- Diameter: 100 and 150mm
- With drive motor, auger box, auger head and outlet

CCM meal auger

- Of high-grade steel
- Diameter: 200mm

Spiral Conveyor

- With spiral of special steel, receiving hopper, control unit with downpipe, drive motor
- Pipes and elbows of low-wear plastic material (NOVICOR™)
- By means of additional conveyor pipe extensions (3m pieces) extensible to random length
- With additional pipe elbows (1.5 m pieces), edges or obstacles do not present any problem
- Special design: Two lines from one silo, complete with double receiving hopper, 2 control units with downpipe and 2 drive motors

Technical Details	Conveying Capacity (to./h) at 45°
Auger type S 102	approx. 3
Auger type S 150	approx. 9.5
Trough Auger (R-L-auger) galvanized or high-grade steel	approx. 15
Spiral conveyor	
Diameter 55mm	approx. 0.52
Diameter 75mm	approx. 1.3
Diameter 90mm	approx. 2.6
Diameter 125mm	approx. 4.5

Compressors and Accessories

The right amount of air at the right time

The compressor provides the required amount of air which is necessary for the control of the connected feeding valves, resp. aggregates.

Compressor W90

Technical Details	W40*	W90**
Voltage (V)	400	400
Capacity (kW)	1.5	3
Max. delivery amount (ltr./min)	175	350
Container volume (ltr.)	40	90
Pressure (bar)	10	10
Number of cylinders	1	2
Weight (kg)	58	77
Dimensions (LxWxH in mm)	900x400x960	1200x480x900

* W40: recommended for units up to 100 valves
** W90: recommended for large-scale units, resp., more than 100 valves

Characteristics

Compressor:

- High-value electro compressor
- In two sizes (W40 & W90)
- Dust-free stand necessary
- Portable and mobile

Accessories (optional):

- The 4PX air pressure monitoring reports pressure-losses or failure of the compressor to the system.
- The air supply container increases the volume of the air supply and ensures less start-up of the compressor. The air supply container holds 6 or 20 litres.
- The water outlet from the compressed air tank by means of an automatic drain valve ensures longer life-span of the compressor.
- The shut-off valve inside the air-conduct ensures the blocking of the air-conduct and thus helps to detect leakages.
- The maintenance unit 3/8" with automatic ball valve and air cylinder is issued with an automatic condensation outlet for the protection of valves and with oiler and manometer (oiler only for ball valves and air-cylinder; not for membranes)

Fresh Water Tank

Always sufficient fresh water

The Fresh Water Tank will always provide you with an ample supply of fresh water for the mixing of your liquid feed.

Characteristics

- Due to black outside walls (PE) no natural light can enter the tanks. Owing to this, the growth of algae is prevented
- Integrated Hy.Light kills germs and bacteria (optional)
- Available in sizes 250 (Conticomp) 1,000, 1,500 and 2,000 litres
- 5,000, 10,000 and 13,000 litres in blue
- Two tanks can be combined via bridge

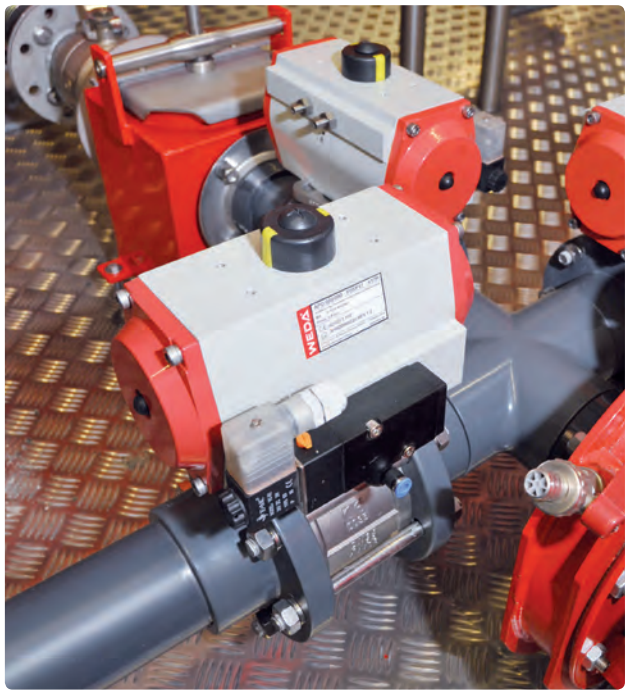
Ball Valves

Approved technology on highest level

One ball valve each is positioned in front of the mixing, used water and fresh water tank and can be controlled via computer. If fresh water, liquid feed or used water is pumped into the pipes, the respective valve opens and allows free passage to the pump.

Characteristics

- 1.5; 2.5; or 3 inches
- Positioned in the suction area of the pump in order to provide best possible passage
- Low wear and tear and therefore long life-span
- With above average sized pneumatic stamp
- With PVC flanges for fast exchange (no gluing of the valves and several hours of unit stoppage during drying time of the adhesive)
- Is currentless automatically closed (optional)
- Of high-grade steel
- Ball of solid material



Feeding Valves

Tried and tested a million times over

Liquid feed is dosed into the trough via membrane valves. Weda offer you a multitude of different valve types.

Characteristics

- Large passage diameter, no residual amount in valve body, low wear and tear
- Long life-span special membrane
- Optional: black or transparent lid
- Outlet is situated below. Heavy substances will therefore not remain inside the pipe
- Nuts and washers of high-grade steel
- Special membrane for components with much oil and fat available
- Various types: PV0 to PV7
- The Silence-Kit enables almost noiseless feeding in the sows' house

Profile of PV4-Valve


PV0


PV2


PV3


PV4 /PV5


PV6


PV7

Valve Cable / Cable Box

Always optimally connected

The feed valves are connected with the feeding computer via a 24 core control cable. The plugs are necessary for the connection of the individual valve.

Characteristics

Valve Cable:

» In case of a 24-core cable 128 valves can be connected
» When using probes, 48 valves can be connected

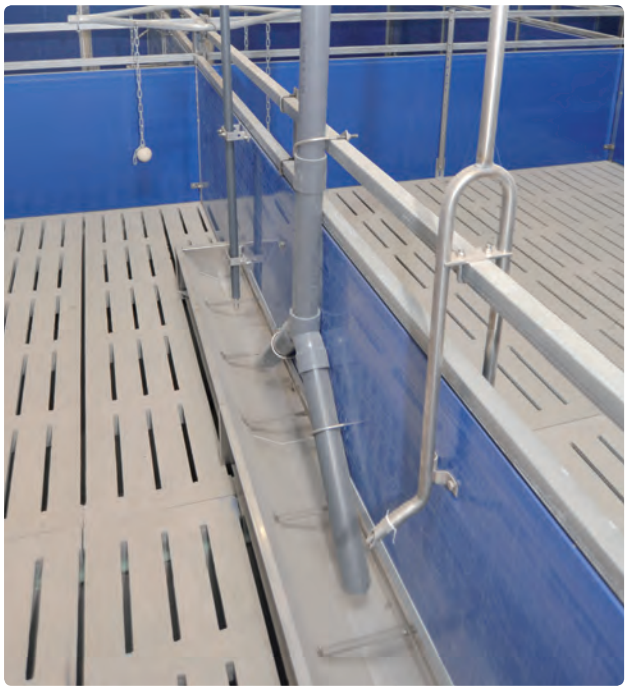
Cable Box:

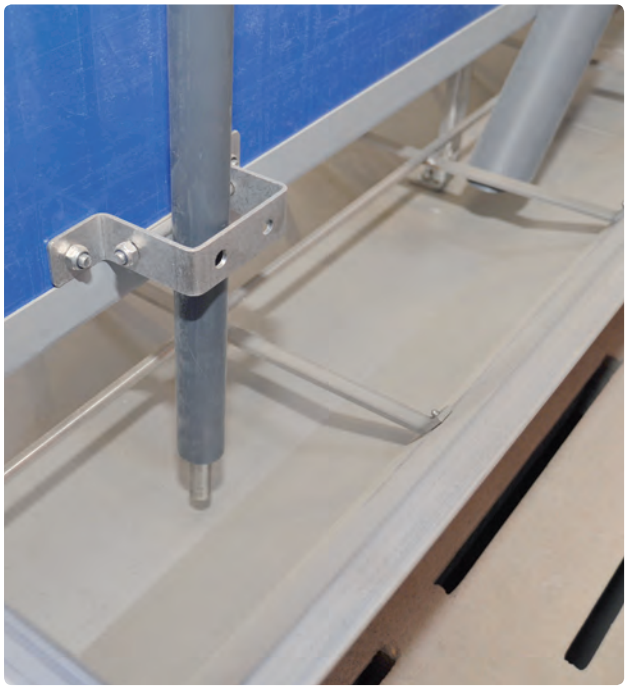
» Hose proof (IP 65)
» Up to 2 probes and 2 valves per box can be connected
» Optional: anti-fluid spray protects cables and cable connections in cable box against moisture and prevents corrosion even more effectively.

Feeding Time Control / Sensor Feeding

Optimal utilization of the genetic potential of your animals

The trough probe can be employed for the control of the feeding as well as for feeding by means of a sensor. With the aid of trough probes the feeding computer checks up on the feed level inside the troughs and thus optimizes the feed supply.





Characteristics

- Distance from probe to trough bottom: 1.5 to 2cm
- Probe is constructed in such a way that no feed residues form underneath it and that the animals can take up the feed underneath the probe (wobble probe)
- Higher feed uptakes and therefore increase of the daily gains possible
- Avoiding of under or overfeeding of the animals
- Water feeding via liquid feeding system controlled possible by means of sensor

Explanation Sensor Feeding:
(Animal / Feeding place ratio of 2 : 1 to 3 : 1):
In order to examine the filling level inside the troughs, the feeding computer sends low-current electricity through the probe into the trough. In case the trough is still filled up with feed, the current is led via the feed to a second trough probe, resp., to an earth cable, and the system receives the report that currently no further feeding is required.
In case the trough is empty no transfer of the electric current takes place and the system receives the report that feed has to be mixed accordingly.
Sensor feeding keeps up the natural and highly frequent feeding behaviour of the piglets after weaning and provides young animals from a weight of 6kg onwards with small and fresh portions, up to 10-12 times a day.

Feeding time control:
(Animal / feeding place ratio of 1 : 1; for lengthways troughs and for individual trough)
After the complete feeding out of the feed into the trough the feeding computer measures the feed level in regular intervals by means of a probe until there is no more feedback. The feeding computer then compares the measured values with the previously determined reference value and heightens or reduces the amount of feed according to the reference value.

Downpipes

The appropriate pipe for any type of house

The liquid feed is dosed into the troughs via downpipe. For this, the exact fastening of the pipes is adapted to the local conditions.

Characteristics

- Fastenings in areas with animal contact are made of high-grade steel
- Always granting perfect distribution of liquid feed into the troughs
- Available as single or Y-downpipes
- In areas with animal contact all pipes are serially manufactured of thick-walled material
- Special 100°-elbows for long downpipes
- Diameters: 32mm to 63mm
- Various types of pipes:
  Type A resp. AS: For one feeding place
  Type AY resp. ASY: For troughs up to a length of 2m
  Type B resp. BS: For troughs up to a length of 4m
  Type C resp. CS: For troughs up to a length of 6m

Downpipes

Favourable Distribution At All Times

The outlet pipes ensure favourable distribution of the liquid feed into the troughs. In the contact area of the animals, the outlet pipes are made of especially thick-walled materials.

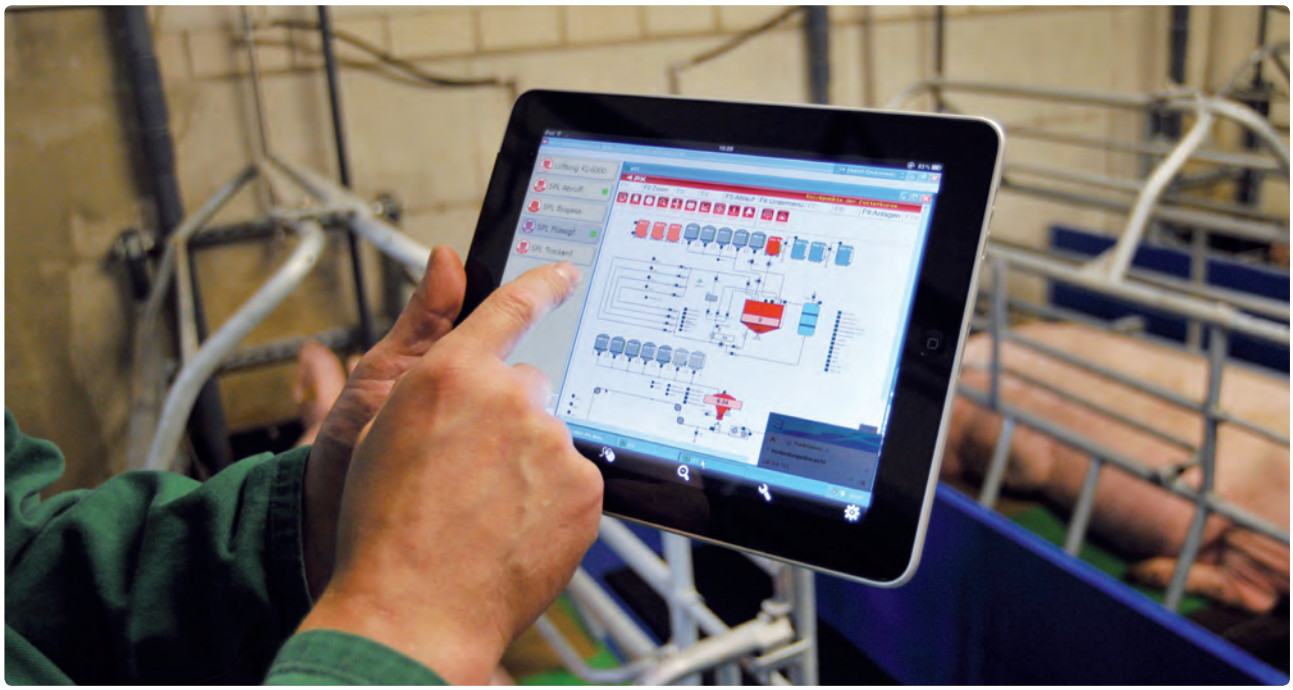
Feed line installed above the walkway.

Feed line in sow area.

Weda Farm Software

Comprehensive Management for Your House

With the help of the Weda Farm Software, the farmer can log himself into the feeding and climate computer by means of his central computer or by a mobile device in order to obtain an overview on the status and to carry out required modifications.



By means of the Weda Farm Software, you will have your unit in view at any time and from everywhere.

Characteristics

- Remote House Control of all Systems
- User interface can be adapted to the requirements of the respective user (language, control panels)
- If you wish, the system will send you an e-mail every morning with pre-defined information of the user (e.g., "Which animals did not take enough feed yesterday?")
- Simple Administration
- Clear arrangement and easy handling due to comprehensible pictograms
- Cost-effective
- Informative "traffic light system". Rectangular colour fields beside the house areas display the respective status in the colours of traffic lights: green = OK, red = disturbance
- If required, you can protect pages by using a password
- By means of the filter function, a choice of desired information can be made

Coupling Possibilities:

- Direct connection from Farm-PC to 4PX in the animal house
- Weda-Service, resp, any PC with internet connection can be linked with the 4PX inside the house via internet.
- Weda Service, resp, any PC with internet connection links up via internet with a Farm PC. The Farm PC is directly connected with the 4PX inside the house.

Internet access can also take place by means of Smartphone, Tablet PC or Laptop with UMTS-Stick.

Excellent 4PX

Description of Piktograms

Via pictograms of the Excellent 4PX, you will have fast and easy access to the desired topic where you will be able to carry out the respective alterations.

Starting Page
Basic side

Component data
Information about the ingredients, dry substance contents and the price of the feed components

Daily schedule
Determination of all actions, which will take place within one day

Process Visualization
The process of the unit is visually presented.

Valve data
Displays all data regarding individual feed valves (e.g., number of animals and feed amounts)

Stalling out
Entry of the stalled-out animals at the respective valve

Stalling out remaining animals
Entry of remaining animals at the valve

Stalling in
Entry of the animals stalled in at the valve

Rehousing
Entry of rehoused animals per valve

Recipes
Adjustment of recipes and mixtures

Feed graphs
Displays all data regarding feed graphs

Groups
Feeding sequence of division

Feeding control
Information on how much feed was fed at which time

Error List
Shows errors and helps to correct them

Losses
Entry of animal losses

Animal batches
Everything on the subjects of stalling in, stalling out and animal losses

Help
Display of help texts for current page

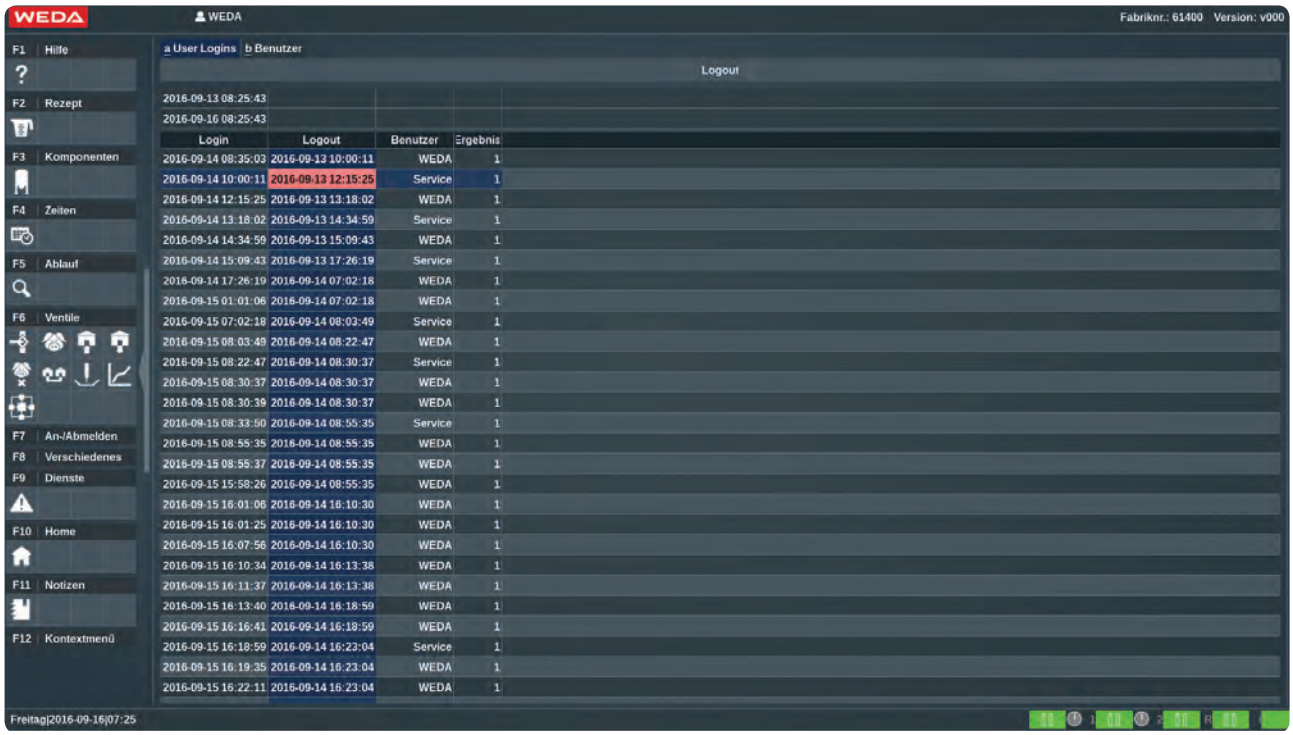
Notes
Notepad

By means of its individualized "Dashboard", the operator of the feeding unit will be in a position to register the actual state of his animal house, including all significant key figures at one glance.
The meaning of the symbols can be understood at a glance. The three traffic-light colours are integrated into the displays so that deviations can be quickly recognized. Green stands for OK, yellow for slight deviations, and red for strong deviations.

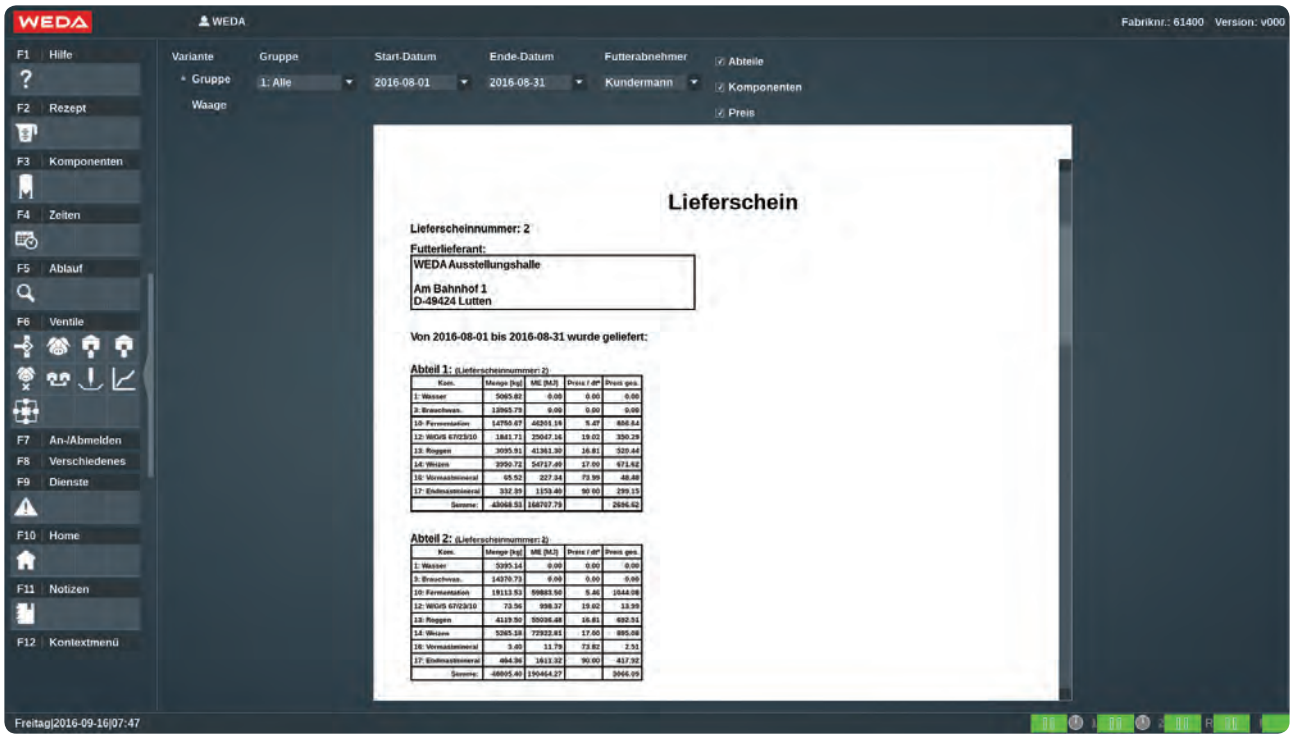
When the farmer clicks on the respective display, he is directed to the relevant page in the submenu of the computer where he can pick up respective detail information and from where he can - if necessary - take appropriate measures. In addition to the display of the actual state, trends and tendencies are calculated and presented by the feeding computer. Thus, the user already realizes at a very early stage whether problems within his animal stock are beginning to emerge. The Dashboard is also suitable for mobile terminal equipment like tablets and smartphones.

Excellent 4PX

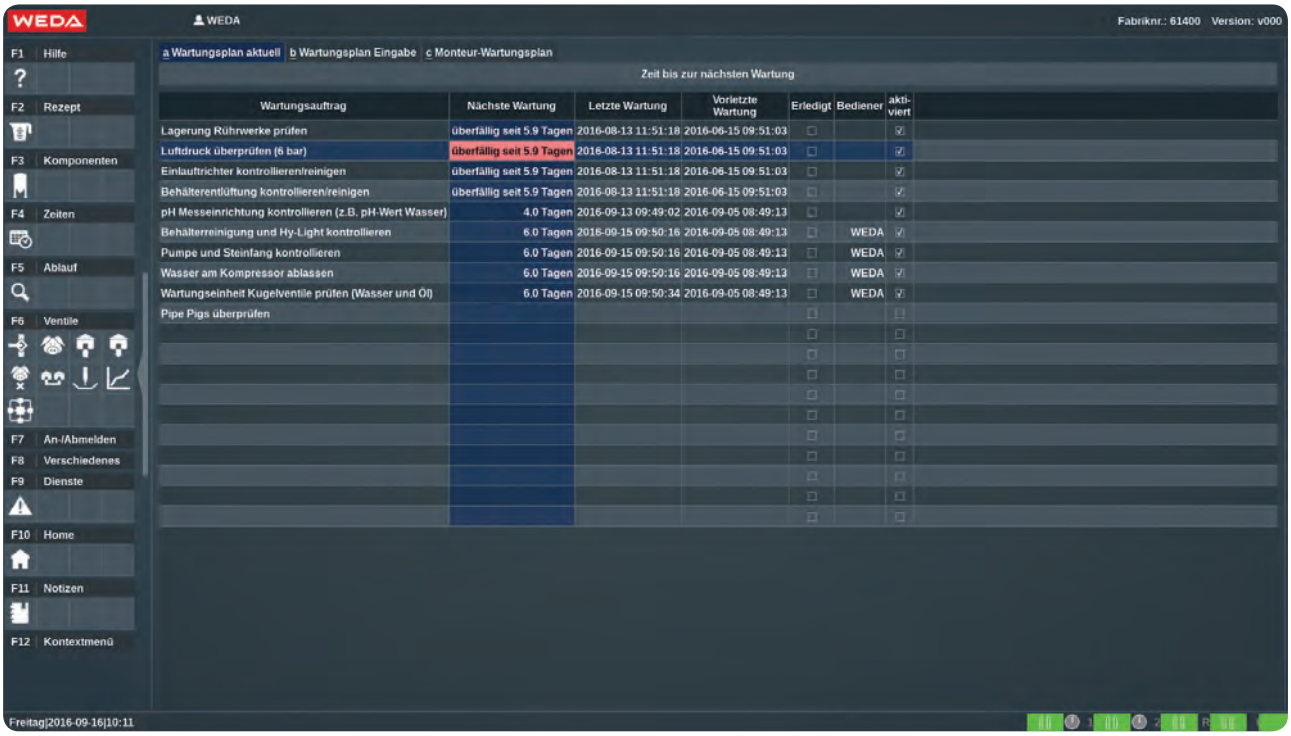
Farm Management at the Highest Level



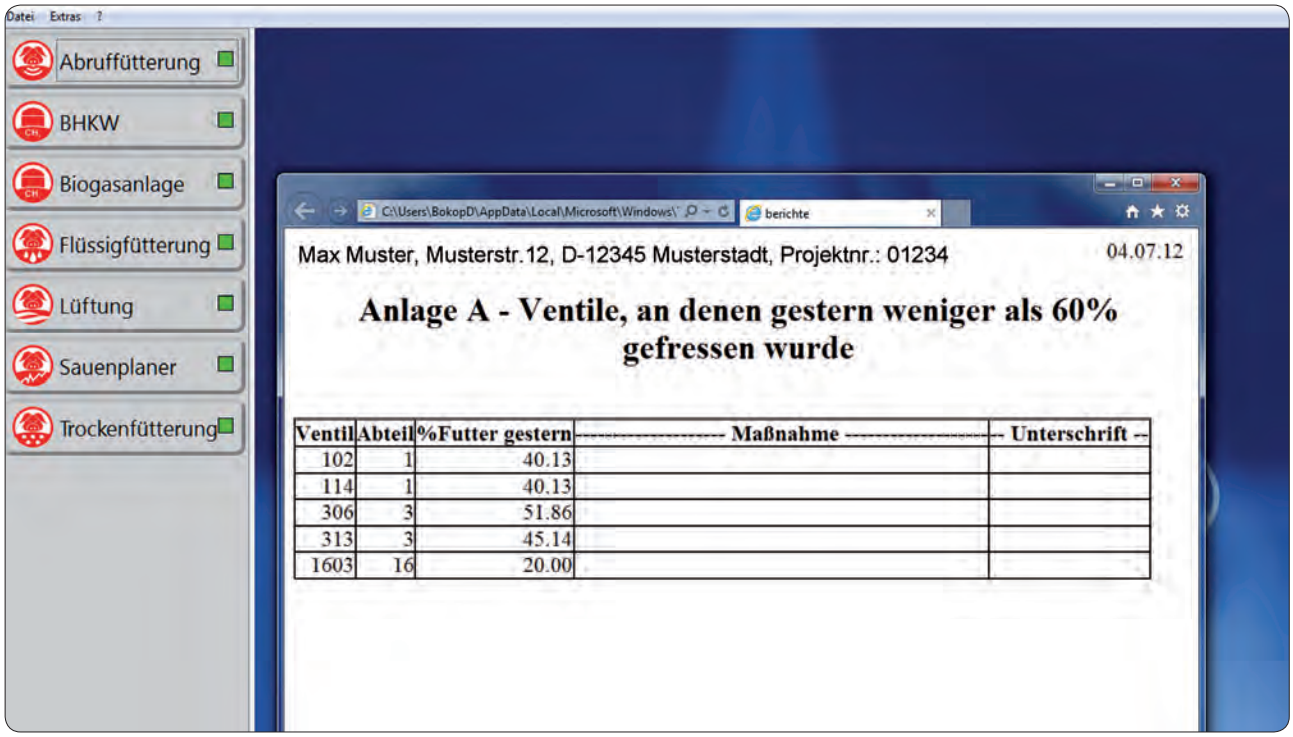
By means of the "User Administration", various user groups can be generated and their access to certain data can be limited. Data not relevant for certain users can be masked out by the administration in order to prevent incorrect entries. In addition, the system records which users have worked with the system at what time.



The function "Delivery Note" supports the farmer by issuing a proof for the divisions of the unit. Over a certain period, the system is able to give exact evidence, which animal groups have received which amount of feed and the price thereof; and it issues the relevant delivery note. Furthermore, the system can carry out weighing-specific documentation, which is particularly helpful for farming units which are connected with a grinding mill and which sell the feed.



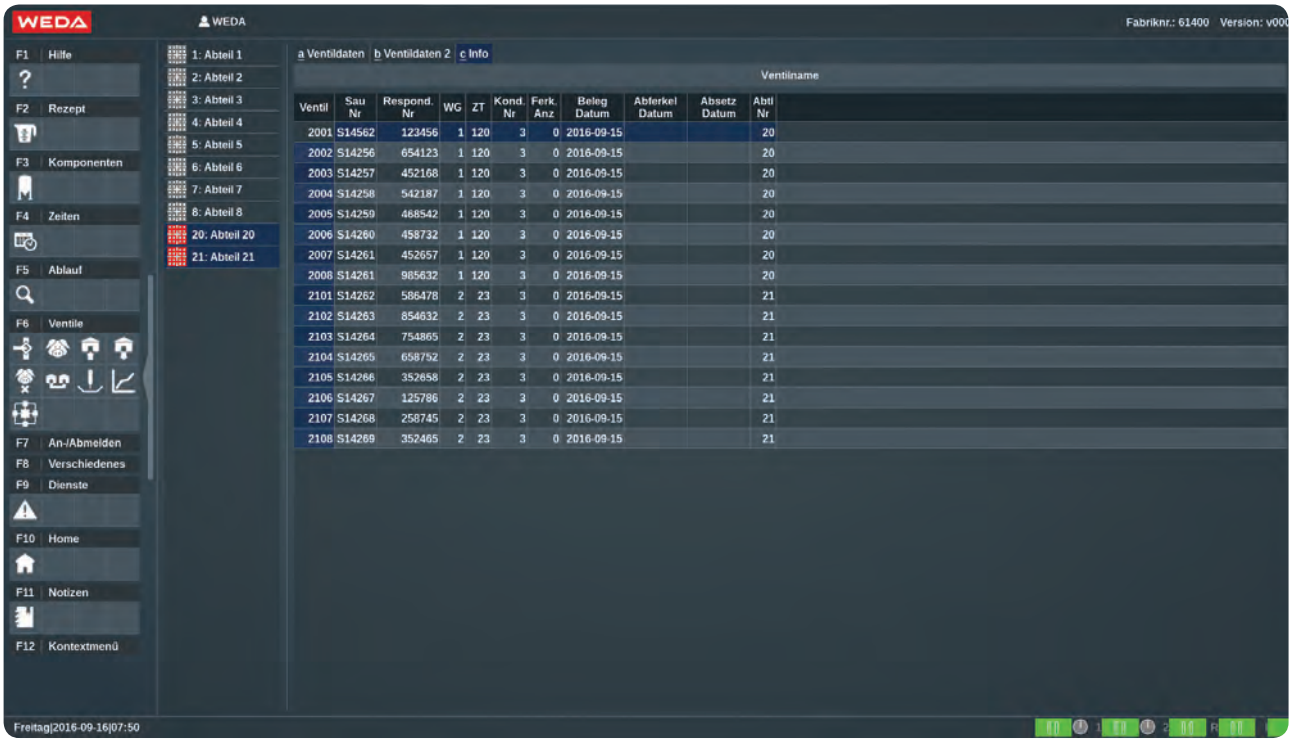
In the "Maintenance Plan" maintenance parameters can be entered individually. After a previously defined period of time you will receive an automatic report when the next maintenance is due. If the maintenance will not be explicitly confirmed to the system, the report will be repeated the following day. For external devices, maintenance can be determined in days and for connected devices in operation hours.



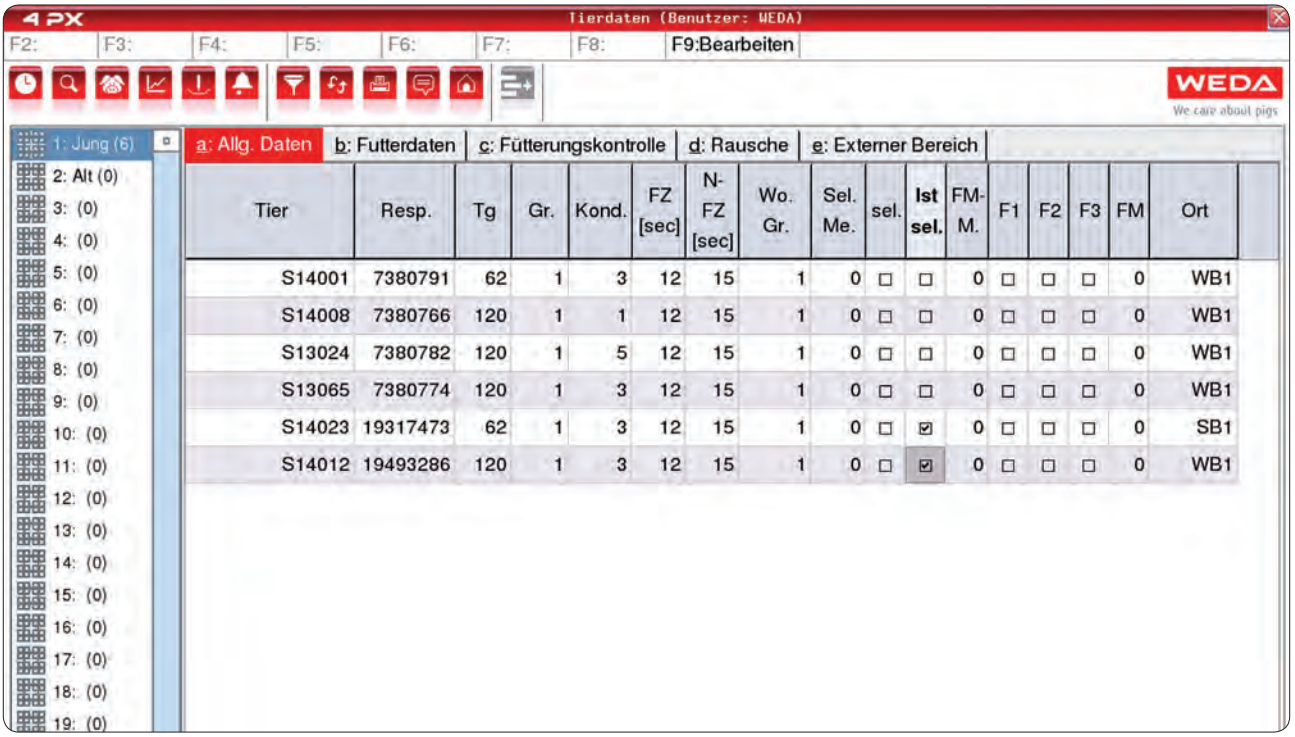
With the function, "Report Generator", the farmer is able to access relevant data immediately and compactly. The predefined data in clearly arranged shape of forms are globally posted to the farmer by e-mail or, if required, directly printed out. This function saves time as data do not have to be picked out unassisted and laboriously. Thanks to the freely selectable dispatching time, the data will already be available before start of work.

Excellent 4PX

Optimum Sow Management



With the function "Valve Data", the sows can be identified as individual animals inside the group at the feed valve. This allows an accurate and continuous animal control through all product sections.



Also data from an external computer, like for example from the demand feeding station, can be read in from the liquid feeding computer via interface. The data that was entered, like e.g., the number of the sow, the responder number or the day of the cycle are stored in the domain "General Data" and are now directly available for the user.

Excellent 4PX

The cost-saving control system for your animal house

Excellent 4PX is a cost-saving control system based on Linux which can be used as an efficient control for all processes during feeding. By means of the Excellent 4PX now also several independent day's schedules can be fed at the same time.

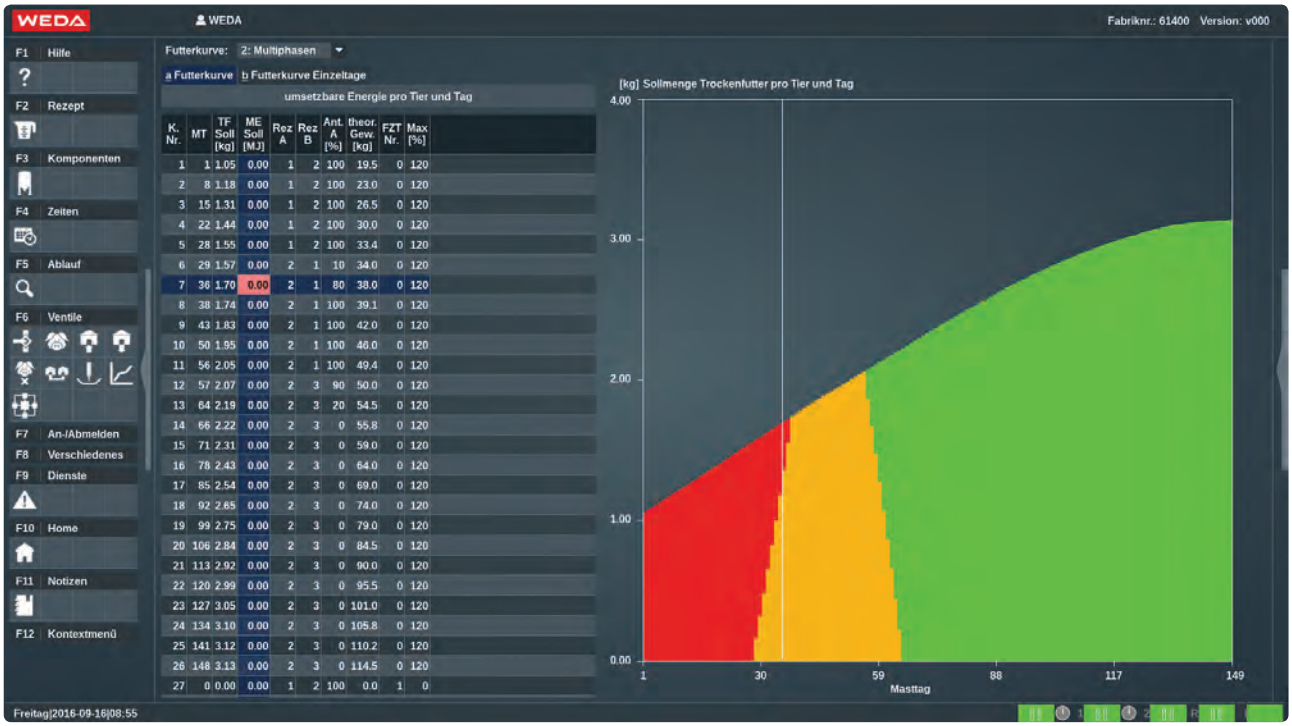
Excellent 4PX PLUS

Characteristics

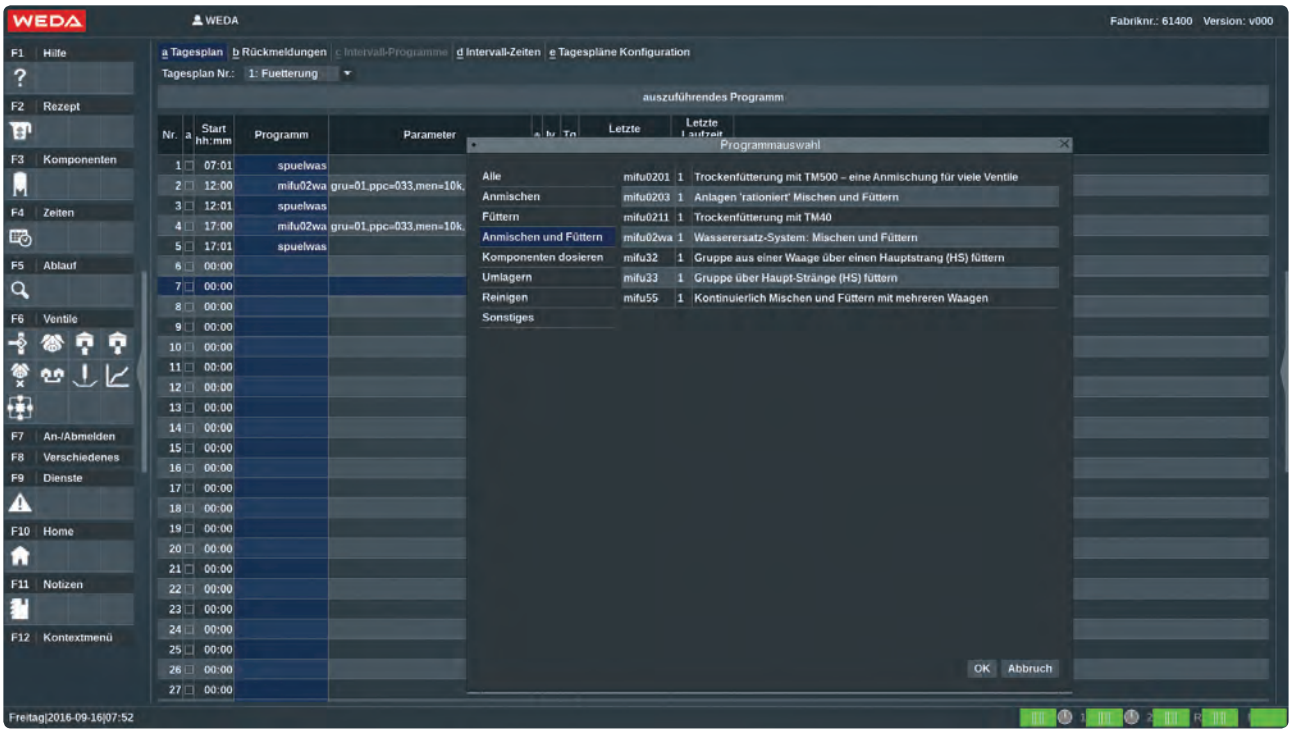
- Concept and construction on the premises at Weda
- Ready assembled and extensively pretested
- Low change of hardware and therefore low fluctuation of computer versions
- Long-time delivery of spare parts
- Equipped with low-radiation 19" flat screen and easy to clean, gas-tight sealed plastic foil table keyboard or touch screen
- Equipped with Ethernet interface, therefore integrable into the farm network via cable, glass fibre, radio or telephone
- 4PX is ISOagriNET-compatible, therefore communication with likewise compatible control computers of other companies possible
- Data securing possible via USB interface
- Traceability can be carried out via log
- Easily comprehensible icons for more security in pig production (e.g., reminder for the observance of waiting times)
- Several independent day's schedules
- Batch-tracing for animals. Despite numerous kinds of animal movements inside the house, animals can be identified problem-free
- Individual process picture visualization.
- In case of disturbances, the complete construction plans are available at Weda's competent Service Team
- If desired, the Weda Service Team can dial into your system and support it with regard to settings and problems
- Integrable into the control of extensive grinding and mixing processes
- Integrated MINI-SPS (wiring in software) additionally enabled by a change of wiring via telephone from factory or on-site
- Robust industrial control
- No components prone to dust like CD-ROM and disk drives
- Customer-individual equipment in the domain of hardware and software based on modular construction, therefore simple possibilities of extension
- Control of alkaline cleaning and pH-value
- Regulation of flow rate
- Reading of feeding time
- Recording of operating hours
- Possibility of creating individual mixing temperatures. Temperature peaks of the feed are avoided and the cleaning effect of the lye is increased by the higher temperature

Excellent 4PX

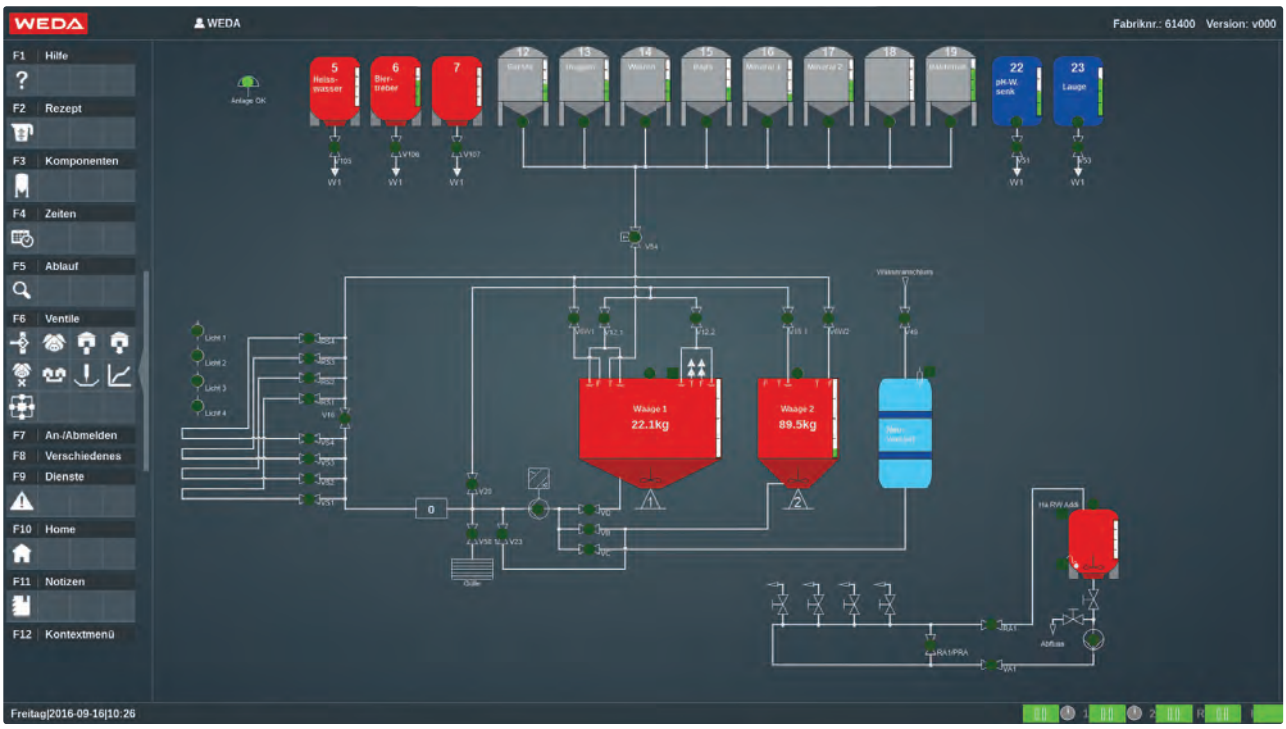
Intelligent and user friendly



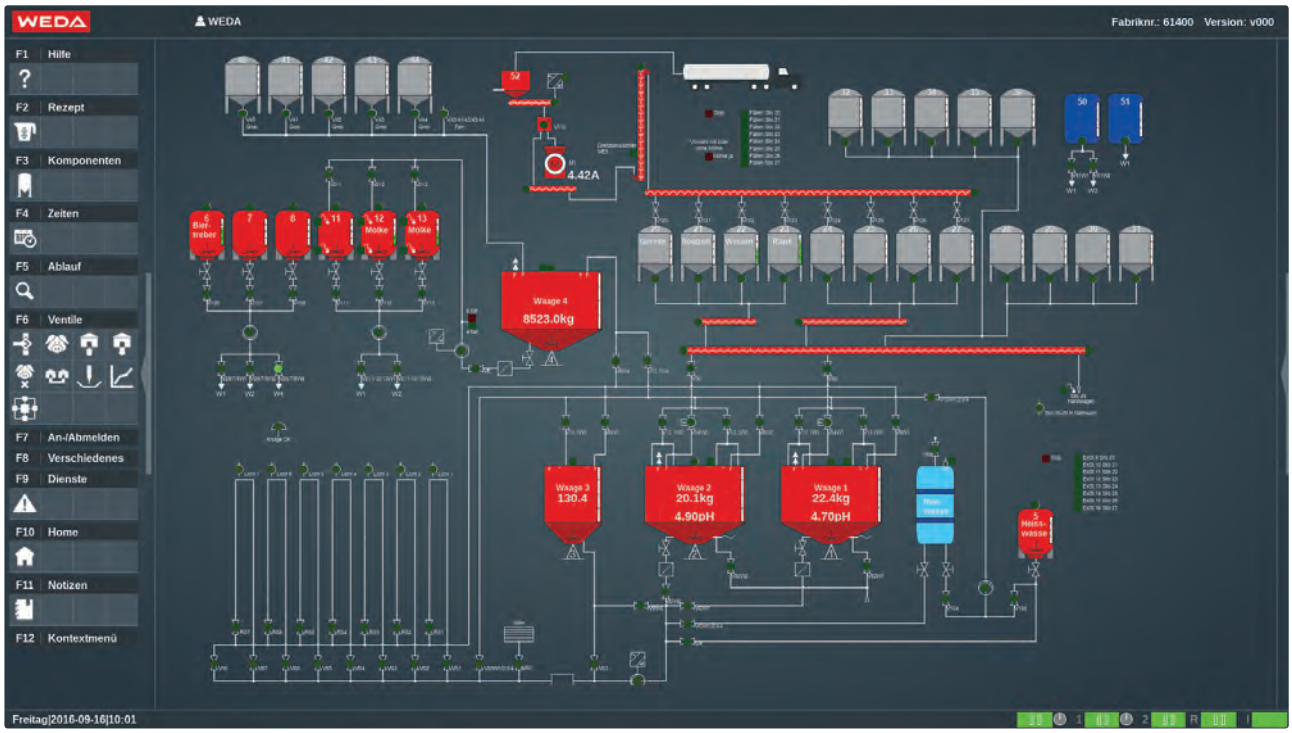
In the menu "Feed Graph", the system displays the multiphase feed graph. Here, the recipes will be shown in the previously assigned colour. Additionally, the selected position in the chard is shown by means of a line in the feed graph. This ensures a quick overview.



Further, in the section of "Day's Schedule", individual daily routines – like for example feeding programs - can be simply and fast compiled at random by means of program selection. And all this without knowledge of programming and understanding of specific abbreviations.



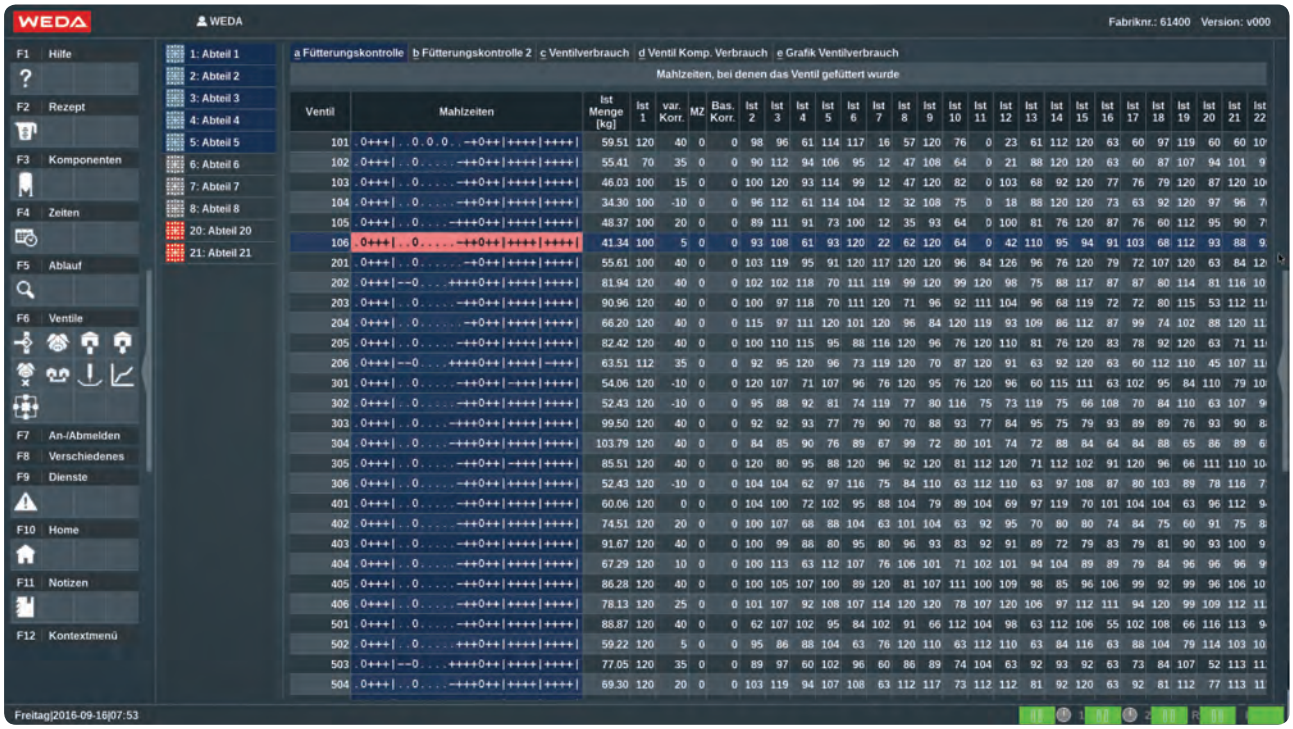
The Excellent 4PX displays an "individual visualization" of the process graphic of your unit. No matter whether you operate a simple...



or a complex unit, any registered device can be directly chosen and controlled via process visualization. By means of user-defined forms the control of the connected devices can be adapted – right into detail - to individual requirements, even afterwards. Via valve control the individual feed valves can be directly activated. Furthermore the control panel display can be simply and fast additionally faded in on the monitor.

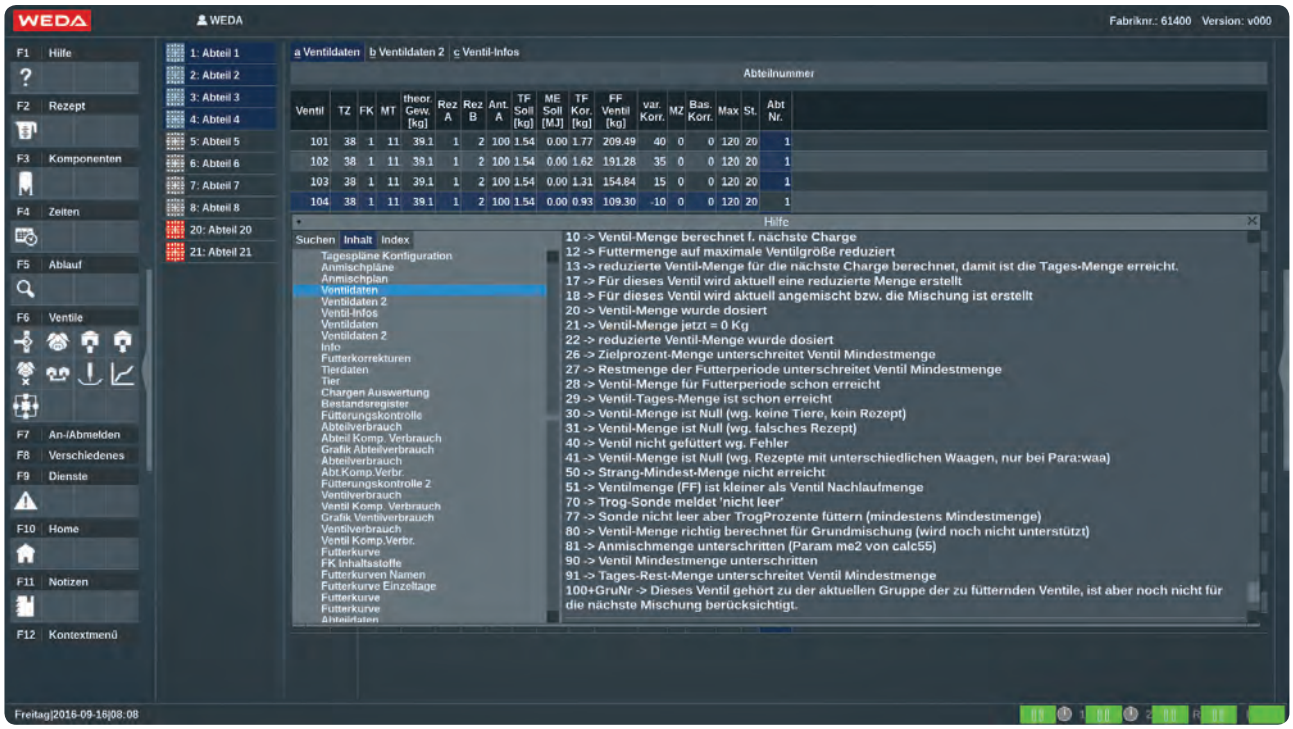
Excellent 4PX

Monitoring of your animals

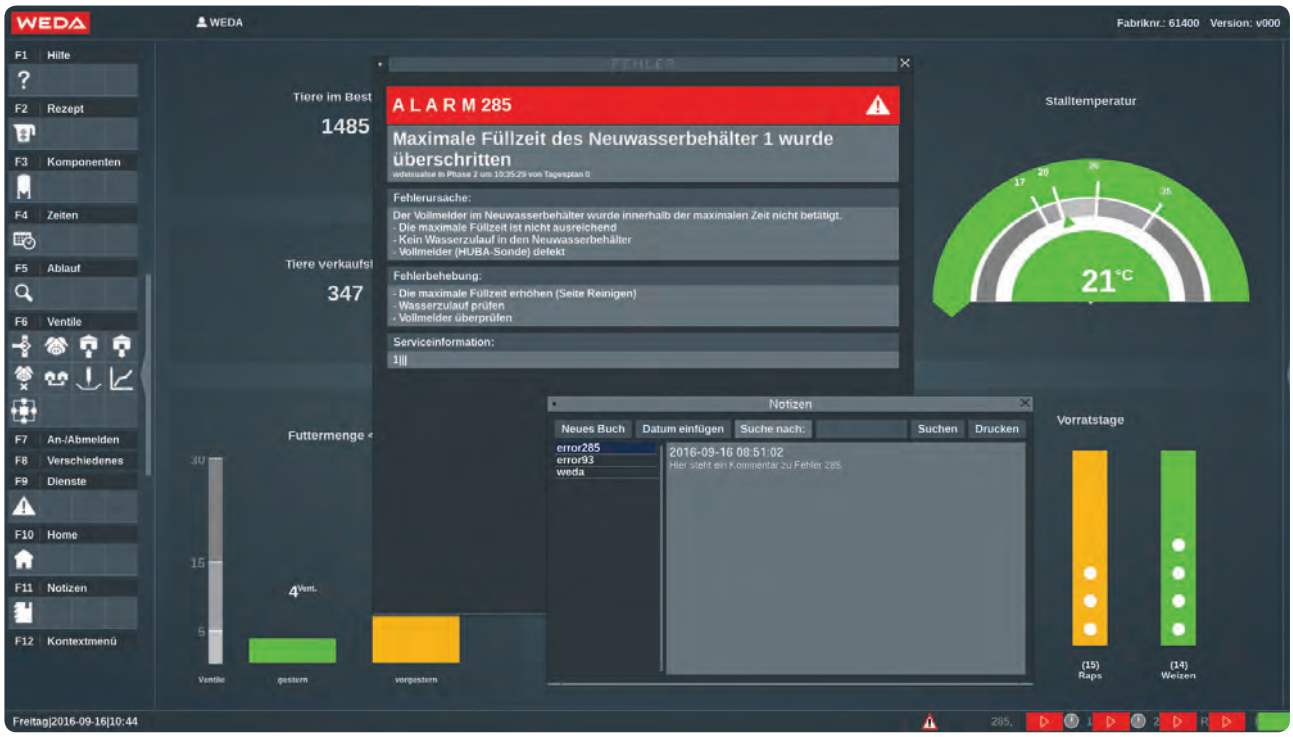


You want to know how much feed your animals have taken up at which point in time? No problem: our "Feeding Control" shows you all these data over the last then days. By means of our system you are not only able to optimize the routine of day with regard to feeding but – if you wish – you can also be shown the valves at which feed uptake can still be optimized.
You are just interested only in a certain value range? The filter can be individually set and is stored by the system.

The "Feeding Time Measuring" shows you the speed your animals require for feeding. If the trough is emptied after a certain time at the first feeding, the system will then at the next feeding automatically add a determined percentage rate of feed to the original feed amount. If – after a certain time – the trough is still filled, the amount of feed will be reduced by a determined percentage rate at the next feeding. The feeding time chards can be assigned per fattening day in the feed graph. This way, weaners for example have a feeding time chard which differs from that of fattening pigs and sows.



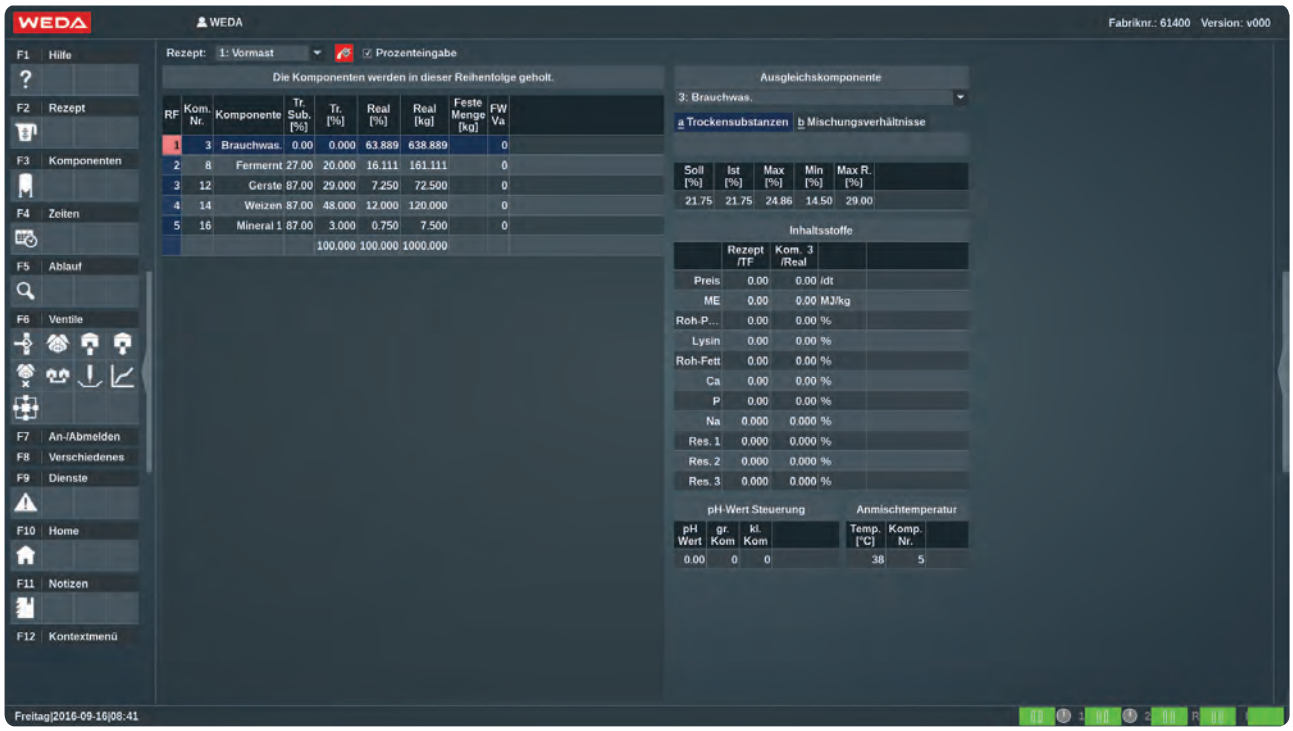
The Excellent 4PX has an extensive "Help Function". This can be selected from any menu item by means of the F1 key and shows you directly the relevant support for this menu item. From there, you can certainly also have direct access to supports for other domains.



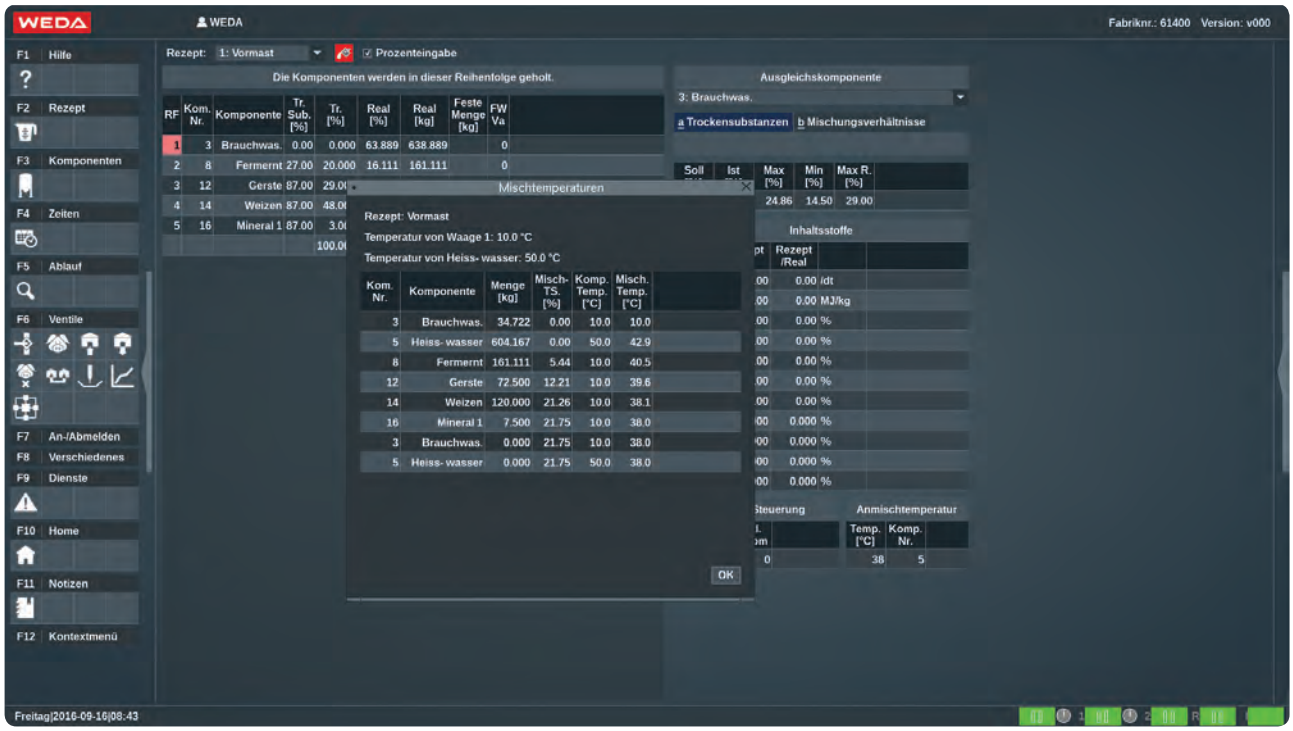
Your system displays an error? Don't worry, we have ensured proper support for you. Already the "Alarm" will offer you exact data with regard to the cause of trouble. Furthermore, via the "Notes" button, a notepad can be opened into which the user can enter additional comments.

Excellent 4PX

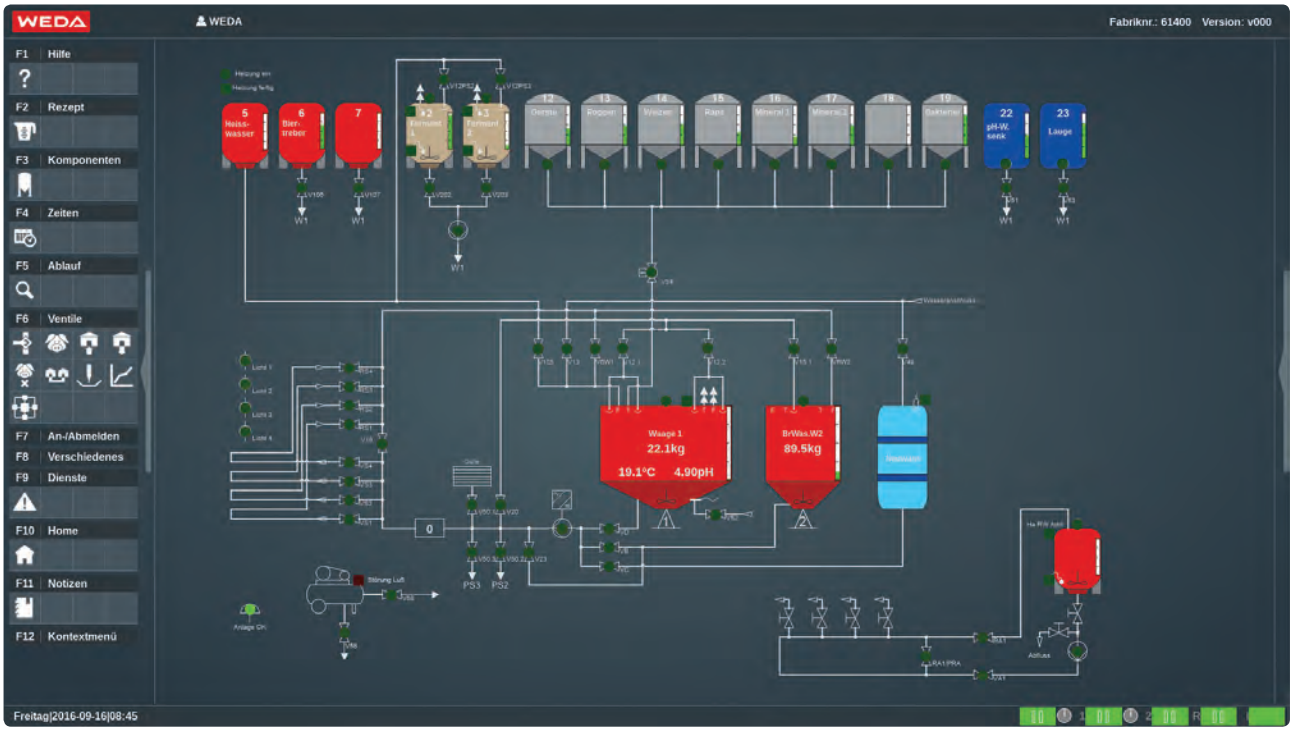
Weda Fermi 4PX - The Fermentation Software



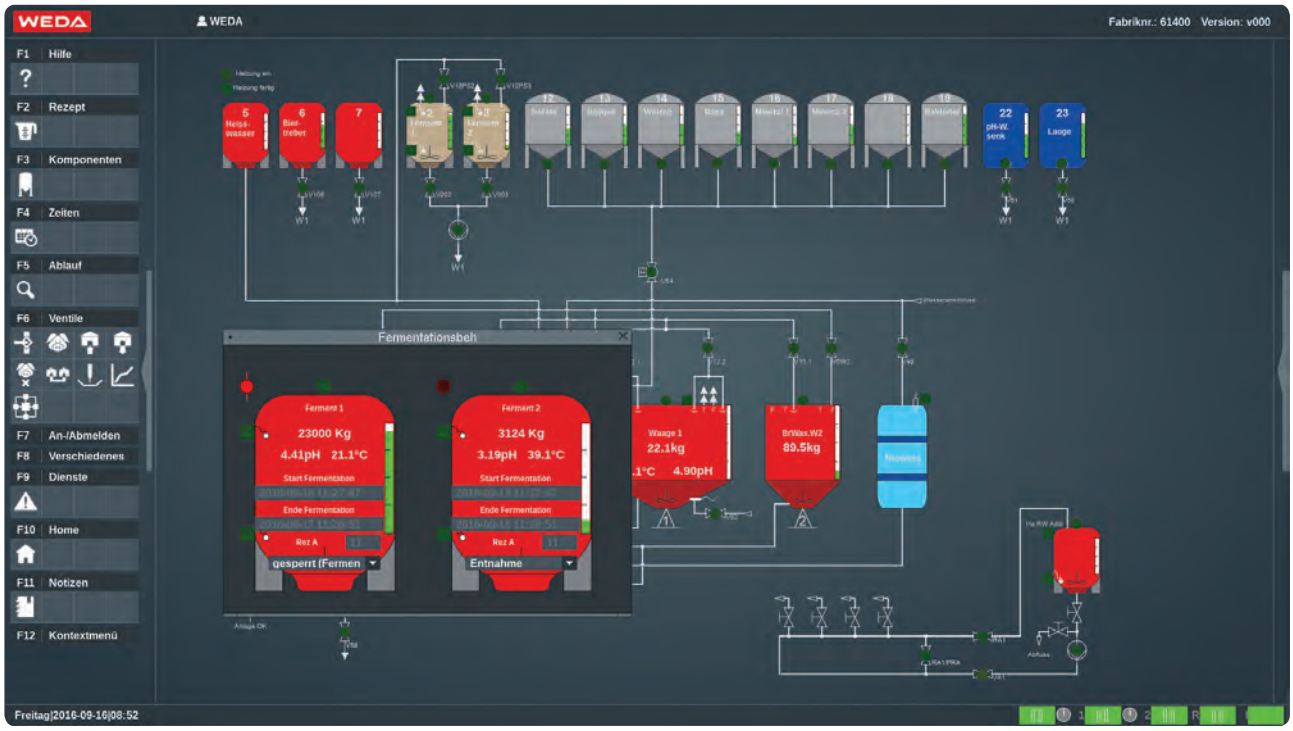
Via the "Starting Page", the user of the unit can enter the required temperature, pH-value and formula for each recipe into the computer, which then calculates the exact amounts of the required components as well as their ingredients, and which creates a mixing plan.



The "Mixing Plan" contains detailed information on the mixing procedure including all required amounts and temperatures.
After an examination as to whether it is possible to reach the temperature stated in the mixing plan with the components available in the unit or with the temperature stated in the mixing plan, the recipe or the temperatures of the different components have to be adapted if necessary. At the latest (without manual adaptation) when leaving the recipe page, a report is made that it will be impossible for the system to comply with the specifications.



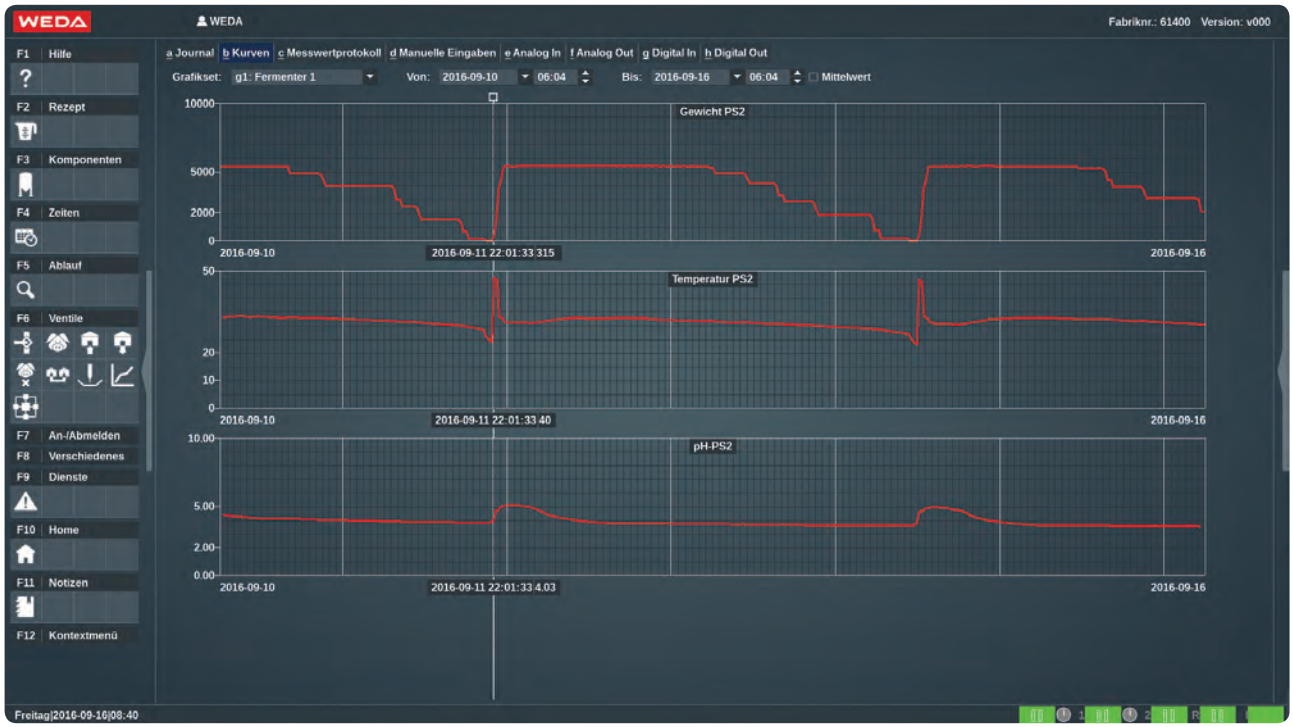
By means of the „Visualized Display", the user keeps an eye on the complete fermentation unit and is able to obtain an overview in a fast and simple way. This way, for example, the current silo filling levels are displayed.



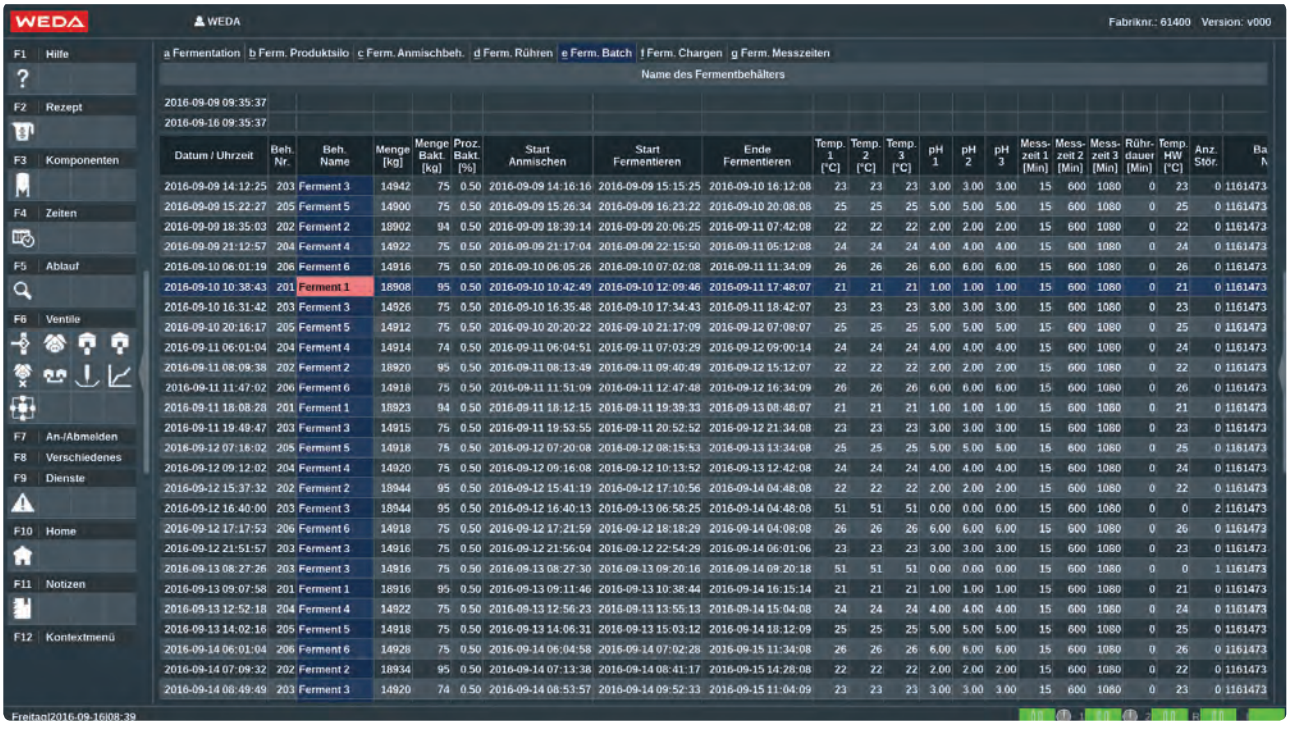
In the „Visualized Display", the fermentation tanks are displayed like silos. A double-click on the container opens a separate window with all essential information (like for example temperature, pH-value, weight / filling level, etc.).
The computer can lock the container for feed withdrawal in order to prevent that insufficiently fermented feed is fed out. The blocking is displayed by a red LED at the container. In addition, a blocking of the mixture in case of a deviating pH-value and / or deviating temperature is possible.

Excellent 4PX

Weda Fermi 4PX - The Fermentation Software



By means of the "Measured Value Indicator", the unit operator is at all times in a position to be informed on the measuring values of the last few days. A double-click on the display, for example, provides information with regard to the pH-value, temperature and weight in relation to time. Due to these values, the unit operator is at any time able to analyze processes subsequently and to correct possible errors.



Fermi 4PX collects all relevant fermentation data of the unit in tabular form and saves these over a period of 30 days. The farmer can send these files by e-mail to special evaluation programs (e.g., the feed company or the bacteria suppliers). The specialists there will then be able to point out in good time possible problems in the fermentation process to the farmer and suggest solutions for avoiding those problems. In addition the processes can be monitored and the fermentation can be further optimized.

W-Mobile

Wireless Access to all animal and feed data

By means of the W-Mobile, feed corrections and animal movements can be directly carried out inside the house. The data are fed into the central Computer by W-LAN interface (Hot Spot).

Start-up Screen

Display of Valves

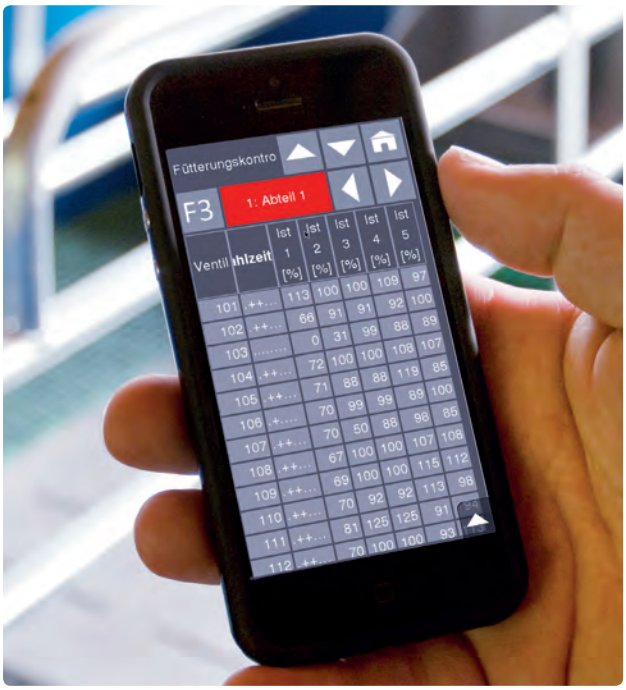
Fast Entry

Easy Adding of Data

W-Mobile

Wireless Access to all animal and feed data

By means of the W-Mobile, feed corrections and animal movements can be directly carried out inside the house. The data are fed into the central Computer by W-LAN interface (Hot Spot).

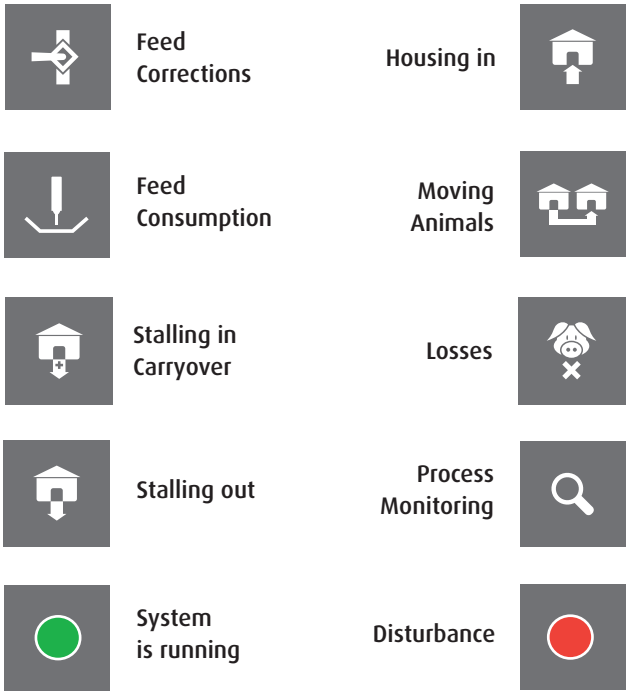


Feeding Control

Feeding Control

Characteristics

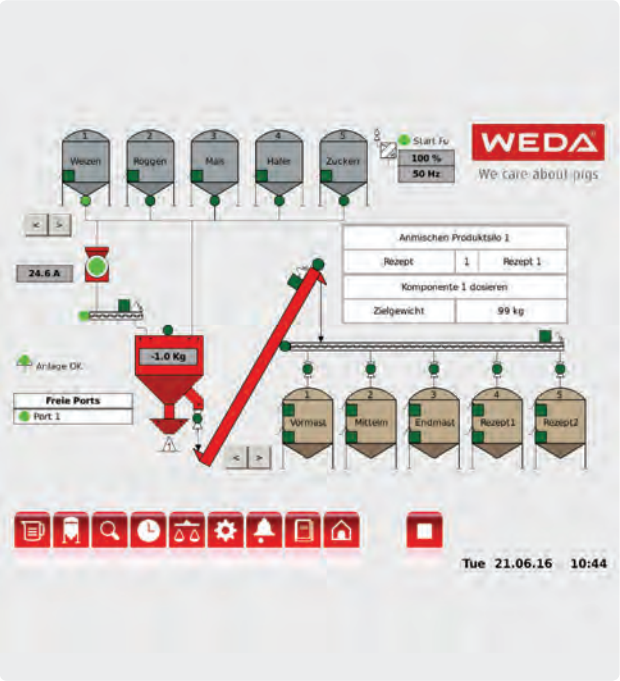
- Administration of housing in, stalling out and moving of animals, animal losses and feed corrections
- Touch Screen operation
- Connection with Excellent 4PX via W-LAN or UMTS
- Fast entry possible without keyboard



Grinder control

Everything under control

The grinder control is operated via touch screen and can be locally adapted to the customer's unit.



Visualization

Control cabinet

Characteristics

- Touch screen
- Visualization
- Simple handling
- Administration of:
  - 15 components
  - 10 product silos
  - 1 grain mill
  - 1 discharge screw conveyor
  - 1 weighed dry mixer
- Setting of 10 recipes
- Choice between automatic and manual dosification
- Day's schedule control with mixing and allocation program
- 4 outlets freely assignable and therefore connection of optional devices possible
- Time-controlled day's schedule
- Substitute components can be stored (switch silo)
- Empty report for component silos
- Full and level report for product silos
- Conveyance monitoring
- Data securing and a mixing proof can be called up via USB and Ethernet

Dry Feeding 78-99

Dry Feeding

Examples of Units

Simple dry feeding inside the house

Conveying of dry components outside the house

Control Centre of Multikind Feeding

Multikind Feeding inside the House


WEDA
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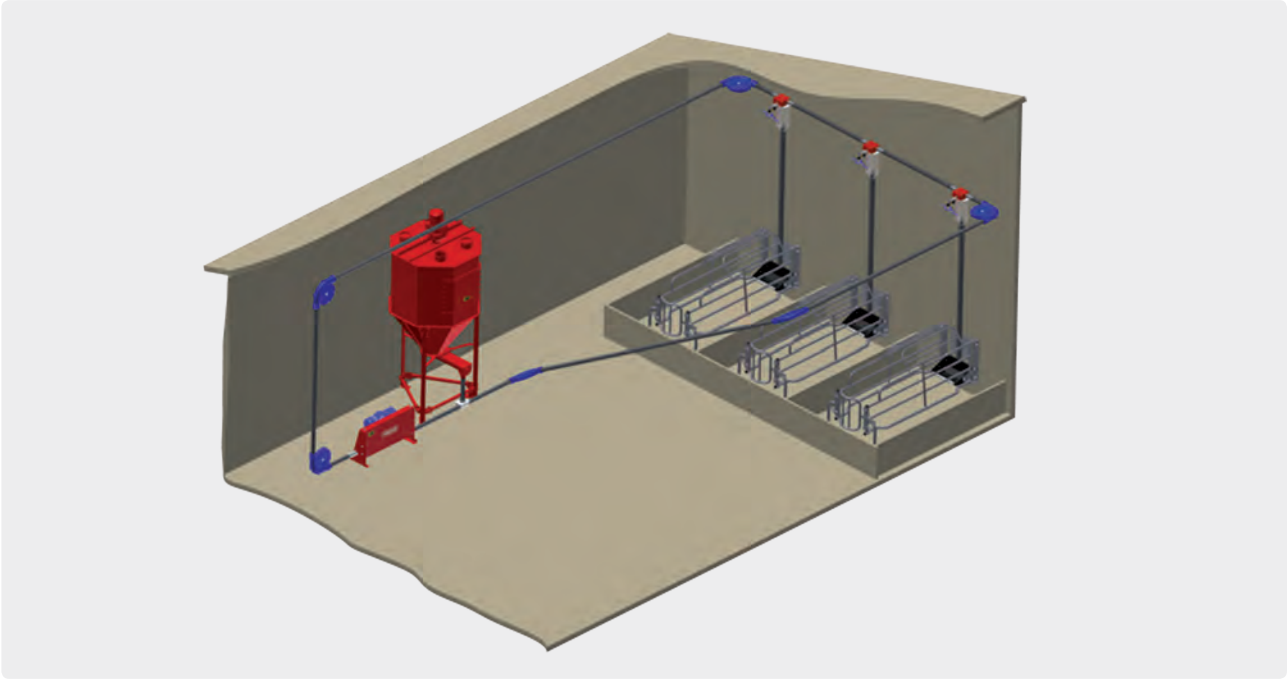
WEDA

Unit Examples



SowDryComp

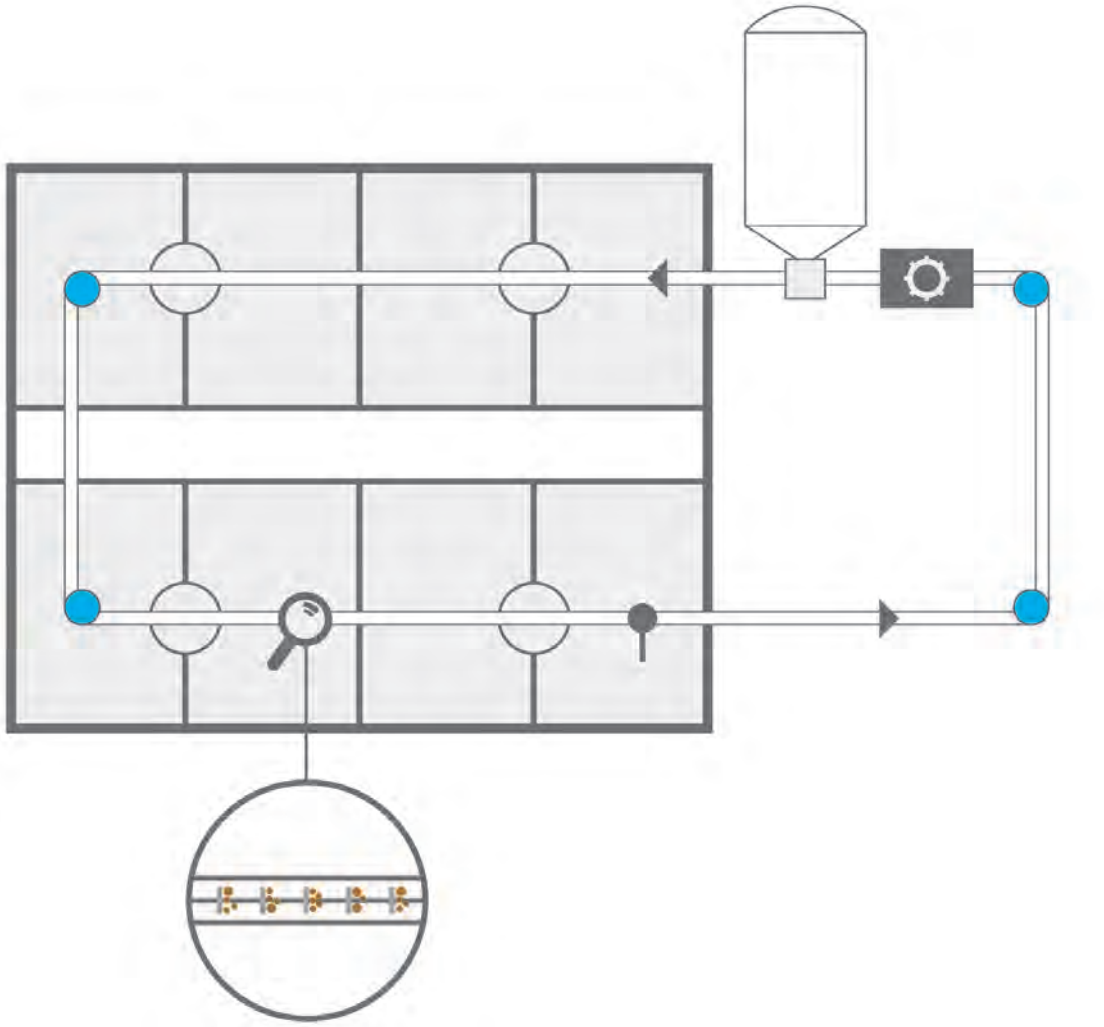
By means of the Weda dry feeding units, small...

...and large production units can be provided with feed without any problems. Up to 4 lines can be connected to a mixer.

Operating Mode of a Dry Feeding System

Quick and easy

Our dry feeding system with reliable control and robust conveying technology supplies your animals with dry feed – quickly and easily.



Pulp / Dry Feed Automat

Drive unit K

Deflecting Corner

Inlet Hopper

Safety Switch TF

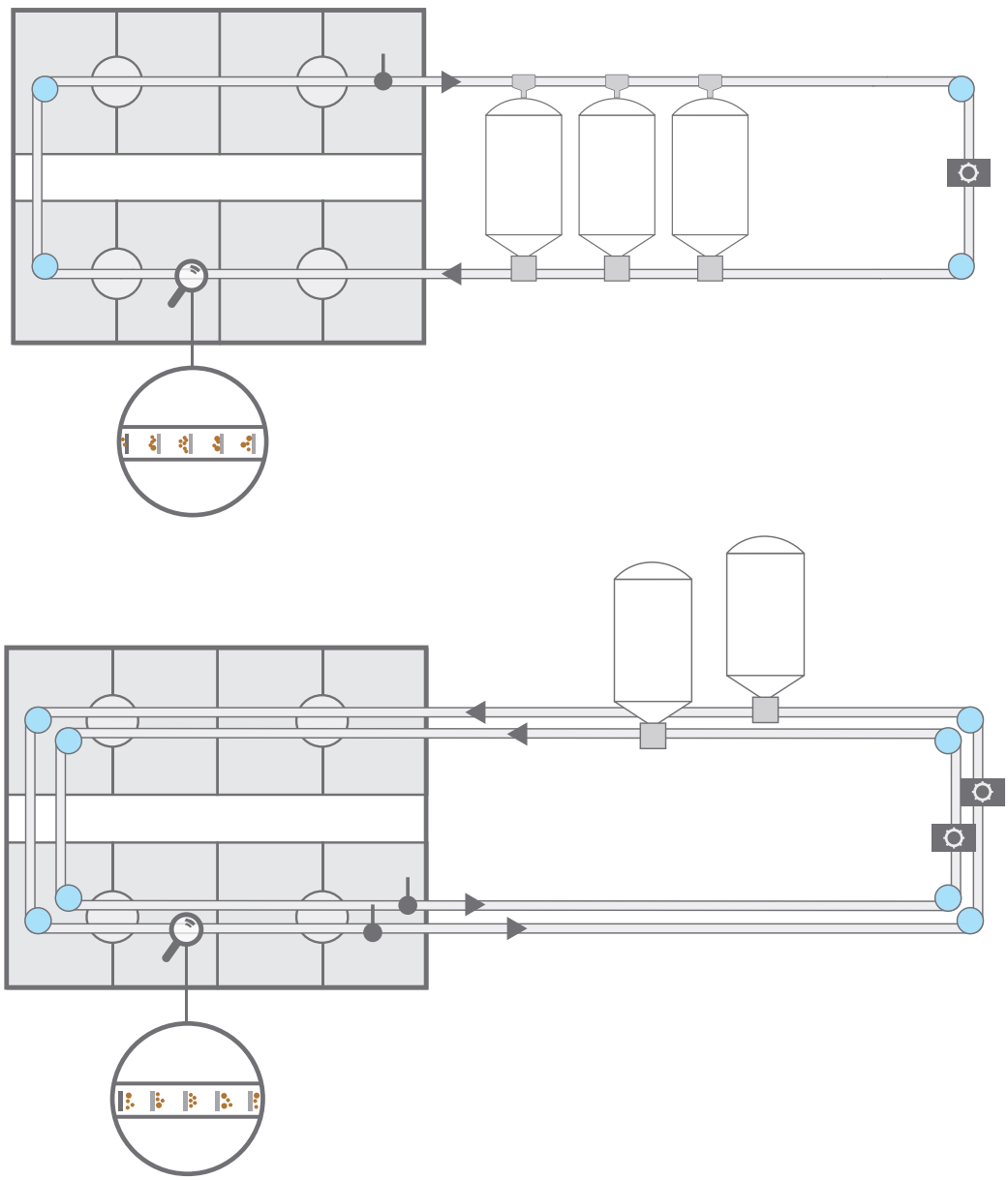
Silo

Explanations with regard to the process:
The dry feeding system with automatic control is activated by means of a clock timer; the system with semiautomatic control, however by means of a switch. At the start of the unit the drive unit K starts pulling the conveyor chain inside the feed line. In turn, the conveyor chain activates the spiral conveyor inside the inlet hopper. Via this spiral, the feed meal inside silo and feed hopper is conveyed into the feed line and is transported by means of the conveyor chain (equipped with transport plates) and dosed out from there to the pulp, resp., dry feed automat. When the last pulp /dry feed automat is filled, the feed runs over the last inlet and activates the limit switch TF there. This will then switch off the system.

Operating Mode of a Multikind Feeding System

Various sorts with less expense

With this cost-effective feeding system several kinds of feed can be fed out after one another.

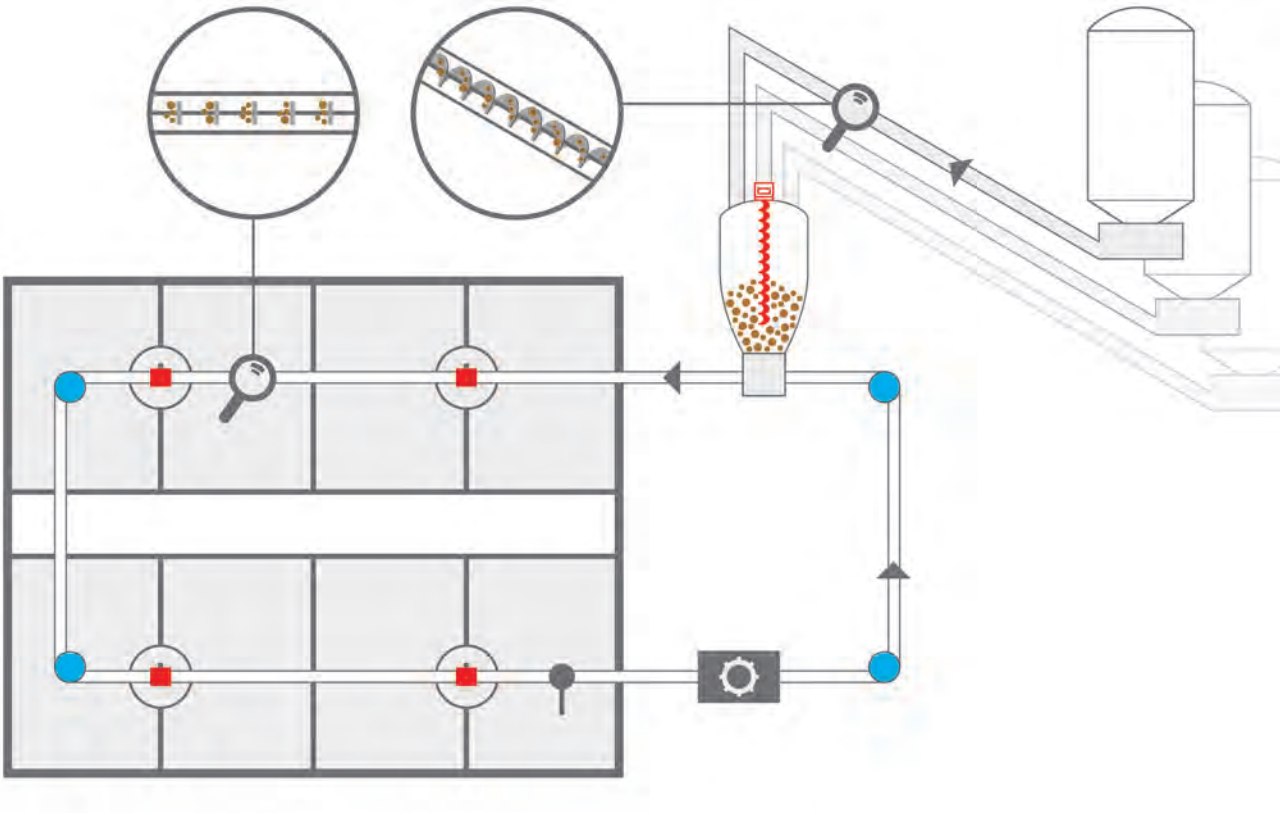


Explanations with regard to the process:
The dry feeding system is activated via a time switch. At the start of the unit the drive unit K begins with the pulling of the conveyor chain inside the feed lines. Besides, the first motor-powered inlet hopper starts, dosificates the desired feed to the conveyor chain which is equipped with discs, and transports it to the next opened transfer valve. By this transfer valve, the feed-meal gets into the feed line which supplies the required division. The conveyor chain in this feed line is driven by means of motor-powered deflecting corner and transports the feed-meal to the EcoFeeders in the division. The feed-meal is dosificated into the EcoFeeder. When the last EcoFeeder is filled, the feed runs across over the last inlet and activates the safety switch TF there. This then switches off the feed transport for this division. Before supplying the next division with a different kind of feed, the feed still remaining inside the feed line is emptied into the respective silo. This way, all divisions can be supplied with the respective feed sorts required.
As an alternative to motor-powered deflecting corners, multiphase dry feed valves can also be employed. These enable a valve specific selection of the feed.

Operating Mode of a Multiphase Feeding System

Optimal gains and improved feed utilization

In order to reach optimal gains of live weight during the different growth phases of your animals, various feed recipes can be mixed and fed out by means of our multiphase feeding system.



Explanations with regard to the process:
The feed components stored in the silos are dosificated into the mixer via augers in a pre-programmed quantitative proportion (feed recipe) and are then mixed. When the mixing procedure is finished, the feed drops into the inlet hopper via a flap. Already at the start of the unit, the drive station has started with the drawing of the conveyor chain in the feed line. The conveyor chain in turn activates the spiral in the inlet hopper. Via this spiral, the dosificated feed mixture is conveyed into the feed line and is then transported from there to the feed automats by means of a conveyor chain with discs: it is then dosed out via automatic feed valves. The required distance measurement here takes place via impulse counter at the drive station.
While the first feed recipe is already transported to the feed automats and is dosed out, the unit can mix a new feed recipe and – following this – can transport it to the required automat and dose it out. After the filling of the last feed automat, the unit switches itself off.
For protection purposes, an end switch TF is installed into the unit, which automatically switches off the automat if feed is transported across the filled feed automat.

Secure, reliable, durable

Our dry feeding products will convince due to their robust technology and simple handling. Our reliable control unit and our high-quality feed inlet hoppers for an even feed dosification leave nothing to be desired.

Control for simple dry feeding with main switch and runtime monitoring

Feed Inlet Hopper K1

Characteristics

Control:

- Available as semi-automatic or fully-automatic
- Sensor-based security switch-off
- Alternatively available as computer control TF-C with the possibility for multiphase feeding
- Dry feeding system is controllable by 4PX (e.g. in the case of complex multiphase systems)

Feed inlet hopper K and K1:

- Stable construction of high-grade steel
- Suited for interior or outside assembly
- As required for one line or two lines
- Has various silo connections
- Feed amounts can be simply adjusted when charging a line

Feed inlet hopper K:

- Spiral conveyor for even and adjustable intake
- Drive via chain conveyor or via motor-powered drive
- Suited for weighing mixers

Feed Inlet Hopper K with spiral conveyor

Drive Station K1 for Dry Feeding

The secure drive at each dry feeding

The Drive unit K1 for the dry feeding is the core of feed transport. Our approved components ensure smooth conveyance.

Characteristics

- Of high-quality high-grade steel
- For chain conveyor with a diameter of 60mm
- Extremely robust drive wheel for chain conveying
- Automatic re-tensioning and security switch-off
- Max. conveyor capacity: 1,200kg/h
- Conveyor length up to max. 300m for 8 corners
- For each additional corner approx. 12.5m of conveyor length have to be deducted from the 300m.
- 1.5kW drive motor

Deflecting Corners

Take a smooth curve

Deflecting corners lead conveyor chains via an impeller and enable problem-free transport around corners. Integrated impellers lessen wear and ensure a long life-span of the conveyor chain.

Plastic version

High-grade steel version

Characteristics

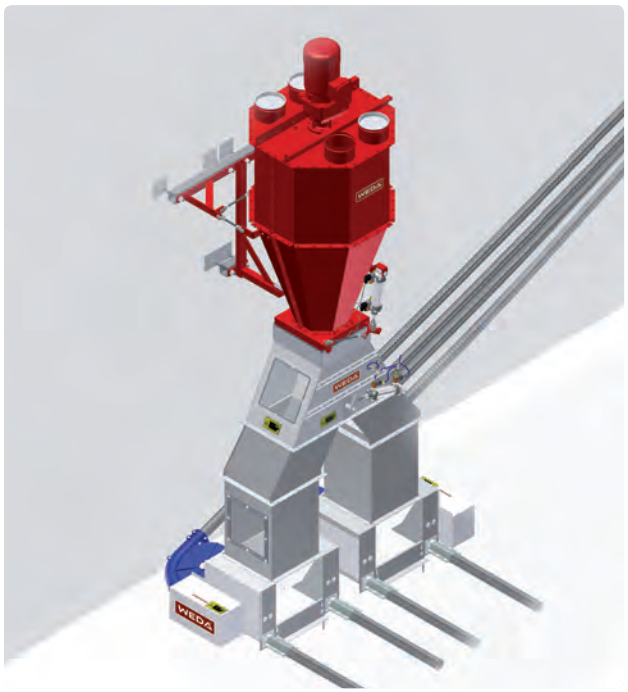
- Dimensionally stable housing in plastic or high-grade steel version
- Ball-bearing mounted drive-wheel (double ball-bearing) of high-grade steel, therefore especially secure operation
- Discs of impact-resistant PP mixture
- Optimized power distribution due to large curve radius
- High-grade steel threaded joint
- On request: impeller of cast iron

Driven deflecting corner

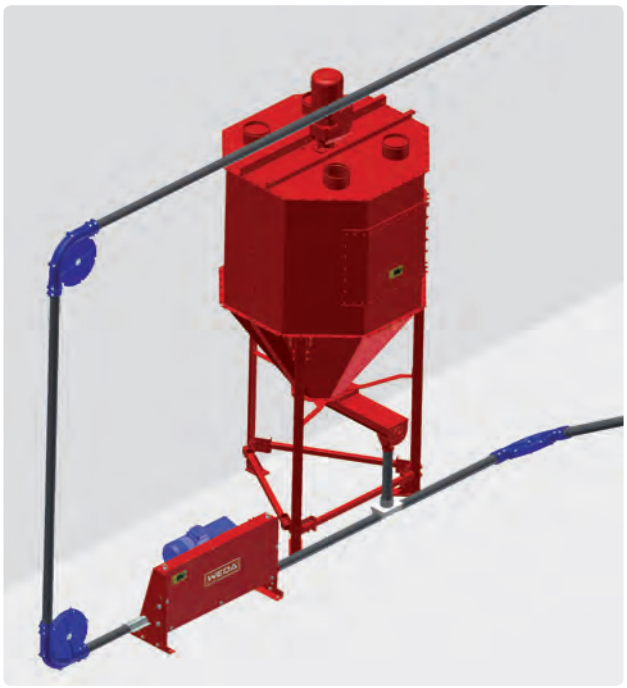
DryComp-System

The perfect multiphase feeding for optimal gains

Our DryComp-System is a computer controlled multiphase feeding system which enables aimed provision of individual output stations.



TM 100-E



TM 500-E

Characteristics

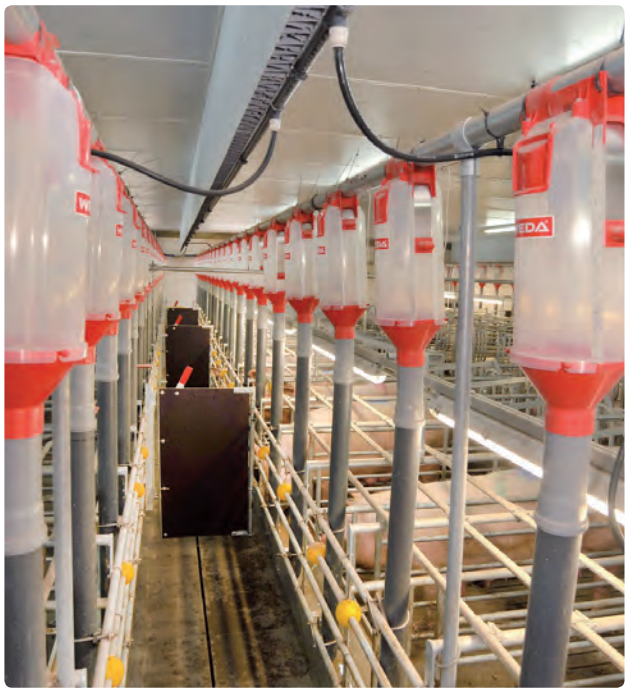
- Weighing mixer in which different kinds of dry feed can be combined with each other respective of requirements and can be fed out via independent feed circuits
- Weighing mixers deliverable in three different sizes (40, 100, 500kg)
- 4 inlet ports
- Exact weighing systems (up to 10g release) are granting very high dosing accuracy
- Possibility for probe feeding
- Simultaneous mixing and feeding out of the prepared rations
- Integration into extensive grinding and mixing processes possible
- Optional: Dosing feeder for admixture of additives
- Special equipment: frequency regulated inflow of individual components
- Computer controlled system for the domestic production of mixed feed
- Pneumatically driven modular storage cabinet for the filling of 2 feed inlet hoppers (for 2 different feed circuits)
- Low space requirement
- Two mixers with 2 lines each can be simultaneously fed out

Technical Details	TM 40-E	TM 100-E	TM 500-E
Max. mixing amount (kg)	40	100	500
Mixing	valve wise	valve wise	division-wise
Drive of mixing auger (kW)	2.2	2.2	2.2

Volumetric Dispenser

Always the right amount of feed for your sows

The volumetric dispenser is directly connected with the feed-line. Filling up takes place via a closable opening in the feed line.



Volume dosificator for one feed line

Volume dosificator for two feed lines

Characteristics

- Transparent for perfect insight
- No corners or hidden edges
- Front lid opening for easy cleaning
- Simple dosing feeder adjustment and amount adjustment by means of slide
- Slide valve
- Contents: 9ltr.
- Ball mechanism guarantees easy opening and secure locking of the dosing feeder at any time
- Ball mechanism ensures complete emptying. Agglutinations are prevented
- Release of feed output by means of pulling rope; automatic or manual

Technical Details	Max. number of dosificators in line	Max. number of rows
Manual release mechanism		
Type 1 (lever with rope)	25	2
Type 2 (rope pull)	100	2
Automatic Release Mechanism	100	2

Automatic release mechanism for the volume dosificator

Crank mechanism for volume dosificator

Outlets and Automatic Dry Feeding Valve

Dry components securely dosed out

For the dosing out of dry components we offer you a multitude of outlets with various locking functions. The downpipe is continuously adjustable. Depending on the location of the downpipe, various filling levels can be reached inside the feeding automat.

Outlet (complete set)

Telescopic outlet

Automatic Dry Feeding Valve

Characteristics

Outlets:

» Optimal dosification possible
» Closing of the outlet by means of lever, rope or slide

Telescopic outlet:

» Continuously adjustable
» Total length of 1.80 m
» Perfectly suited for pipes with a diameter of 60 mm

Automatic Dry Feeding Valve:

» Suited for pipes with a diameter of 60 mm
» Additional cover for upper part of valve
» Metal parts of high-grade steel, resp. aluminium
» Electronic activation of magnetic valves by means of computer
» Secure opening and closing

XtraFeeder for piglets

One for 50

By means of the XtraFeeder you can quickly and easily feed 50 animals at the same time and you can offer feed at eight feeding places in two pens at the same time. At each pen there will consequently be four places available for relaxed feeding!

The XtraFeeder is easy to clean

The interior construction prevents a formation of bridges

Characteristics

- Cost-effective
- Eight feeding places, four drinkers
- Integrated water circuit
- Stable and robust frame construction
- Round high-quality feeding bowl of high-grade steel with sophisticated dosification crown
- No feed-bridges inside the container
- Minimal feed-losses
- Easy cleaning
- Simple amount adjustment
- Optimal cost-benefit ratio
- Equipment with probe possible
- Trough construction avoids feed losses
- Integrable into each partitioning wall, no extra posts necessary

Technical Details	XtraFeeder for piglets
Height (mm)	1,250
Width (mm)	760
Ø Trough (mm)	600
Height of trough (mm)	118
Total volume (litres)	101

Classic-Feeder

Robust pipe pulp feed automat for your animals

The Classic-Feeder is a pipe pulp feed automat for animals of 7 up to 120kg. Filling takes place by means of dry feed. When dosing out the dry feed into the feed bowl, the animal can add water via 2 nipple drinkers, which creates a pulp.

Characteristics

- Pipe pulp feed automat with a capacity of approx. 83 ltrs.
- Solid and robust construction of high-grade steel and plastic
- For approx. 40 animals
- No feed bridges inside the container
- Simple mode of action and easy cleaning
- Lid with three feed inlets enables correct filling
- 2 drinker nipples available
- Feeding bowl with drinking trough
- Simple quantity adjustment
- Water supply by means of 3/8" high-grade steel pipe with external thread
- Available in "Multi" and "Fattening" version

Technical Details	Multi Version	Fattening Version
Width of trough (mm)	400	400
Length of trough (mm)	600	600
Contents of hopper (ltr.)	approx. 83	approx. 83
Total height (mm)	1,200	1,240
Height of feeding bowl (mm)	110	150
Suitable for animal weight (kg)	7 to 120	18 to 120

Mash Feeder

Weight gains due to continuous presentation of small feed portions

Several times a day, the Mash Feeder is charged with small dry feed portions which turn into a feed pulp by the addition of water.

Characteristics

- High-grade steel construction
- Very well suited for meal and pellets
- Manual dosing adjustment and manual drinker nipples (switchable from normal to low pressure)
- Robust, reliable, no narrow distribution mechanics
- Equipment possible with height-adjustable charging level probe
- Minimal feed losses

Technical Details	Single Automat	Dual Automat	Double Automat
Width (mm)	340	680	340
Depth (mm)	400	400	800
Height (mm)	980	980	980
Contents (ltrs.)	55	110	110
Number of pigs	12	24	2x12

Dry feeding double automat for piglets

The automat for the youngsters

The dry feeding double automat is perfectly suited for meal as well as pellets and feeds your piglets reliably and fast.

Characteristics

- Available in high-grade steel or in a plastic variation
- Very good for meal and pellets
- Robust and stable
- Reliable with a long life-span
- Minimal feed losses
- 2x4 feeding places (4x approx. 200mm)
- Other sizes possible

	Feeding places	Dimensions (WxDxH in mm)	Contents (ltrs.)	Trough Height (in mm)
Piglet Automats				
Double automat F8	2x4	815x620x740	184	120
Double automat F10	2x5	1,015x620x740	230	120
Double automat F12	2x6	1,250x620x740	276	120
Double automat F14	2x7	1,415x620x740	322	120
Fattening Automats				
Double automat M6	2x3	1,040x625x920	270	135
Double automat M8	2x4	1,365x625x920	360	135
Doppelautomat M10	2x5	1,690x625x920	450	135

TwinFeeder

The automat with the right sensors for the wellbeing of your animals

TwinFeeder is an electronically controlled feeding automat with sensor technology. During mixing of the feed, water runs into the trough. The 1/6 rotation of the integrated shaft dosificates the dry feed into the trough.

Characteristics

- Highest standard of hygiene, highest animal performance
- Controlled dosing of smallest amounts of approx. 360g per 1/6 shaft rotation (depending on feed)
- Especially suited for units with animal groups which are too small for a liquid feeding unit
- Clear reduction of the adaptation phases, especially in piglet raising; therefore clear improvement of gains
- Control via separate control unit
- Provision of permanently fresh feed possible by means of probe technology
- Number of feedings, feeding intervals and respective feed and water amount is freely selectable
- Maximal number of animals per automat: up to 100 animals
- Animal weight: 4-35kg
- No formation of bridges of the feed possible

Technical Details	
Length (m)	1.60
Height (m)	0.80
Max. capacity (ltrs.)	ca. 85
Voltage (V)	220
Water connection	1/2" (external thread); >2 water pressure

Separate control unit of the TwinFeeder

PigRunner

It's like eating at home

The PigRunner is filled with dry feed / prestarter in the form of meal or crumbs. The integrated spiral on the shaft presses the feed into the trough. The mixer at the end of the shaft mixes feed and the water which was introduced through the hollow shaft into the trough into pulp feed.

Characteristics

- Permanently fresh small portions frequently during the day, therefore prevention of feed depressions and reaching of high feed uptakes
- Made of high-grade steel
- Feeding automat for 40 weaners of a weight of 3-14kg
- Mounted onto a plate, therefore simple shifting into the pen. No permanent installation necessary
- Combination with warm water (heating rod) is possible
- Water amount and feeding time are individually adjustable
- As low or high pressure variation
- Optimal solution for a brief period of further provisioning of weaker animals during weaner raising.
- Utilizes full genetic performance potential of the animals

With regard to functioning:
The PigRunner operates in hourly intervals. The duration of feeding within each hour is determined by means of a time switch with a time scale of 5-60 minutes (5, 10, 15 etc.).
If the PigRunner is e.g., adjusted for a feeding time of 10 minutes, the feeding of the animals takes place during the first 10 minutes of every hour. Within these 10 minutes, the integrated probe checks up whether feed from the last feeding is still available. If the probe registers empty report and the animals raise the integrated clamps, new and fresh feed is mixed. If the probe does not report empty, no mixing of new feed takes place despite the lifting of the clamps by the animals.
After each hour the PigRunner automatically carries out an automatic reset, after that it beeps four times, runs up briefly and switches itself off again.

EasyFeeder

Piglet feed on wheels

The EasyFeeder is the first mobile liquid feeding system for suckling piglets in the farrowing section. Simply mix the required feed amount in the EasyFeeder, drive off and feed, - that's all: comfortable and easy.

Characteristics

- Mobile Feeding
- Available with rechargeable battery or electric cable
- Cable length: 25m
- Automatic retractor mechanism keeps cable clean
- Feeding by means of a lance. Slight pressing against the tip of the lance opens the dosification valve
- No splashing and pollution like for example by feeding with watering can as lance will directly feed out into the trough
- Smooth feeding of prestarter
- Exact dosification
- Dry substance contents up to 27% possible
- Integrated thermometer displays feed temperature
- Separate switching of agitators and pump
- 50% time-saving as opposed to customary manual feeding
- Simple handling due to special ball-bearing mounted, smooth-running wheels
- High security against overturning and easy cleaning
- Dosing and mixing at the same time
- Easy to handle due to light construction
- Max. capacity: 100 liters
- Min. capacity: 10 liters
- Battery run-time: approx. 5 hours at long-term usage
- Battery charging time: approx. 8 hours

The feed lance enables problem-free feeding of prestarter into the piglet bowl. The piglet bowls are made of plastic and are also available in a high-grade steel version.


WEDA

SowComp

Electronic sow feeding at the highest level

In the following, we show you some examples for our SowComp.

The SowComp is suited for approximately 60 sows per station.

The SowComp enables individual feeding which meets with the requirements of sows in group managements.

SowComp (Spain)

SowComp (Spain)

SowComp

Our SowComp-Feeder provides enjoyable feed for the sow

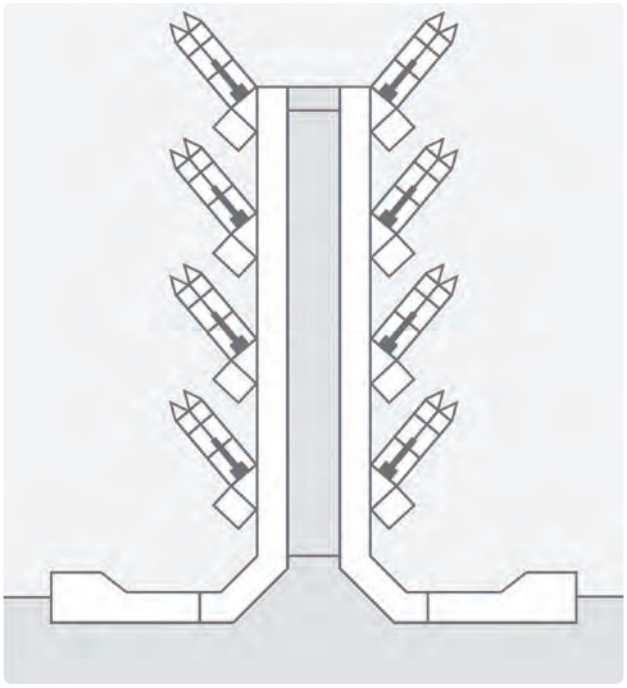
SowComp-Feeder is an electronic sow feeding system especially designed for sows in group management. Ear transponders enable perfect pre-programmed feeding of individual sows.

Characteristics

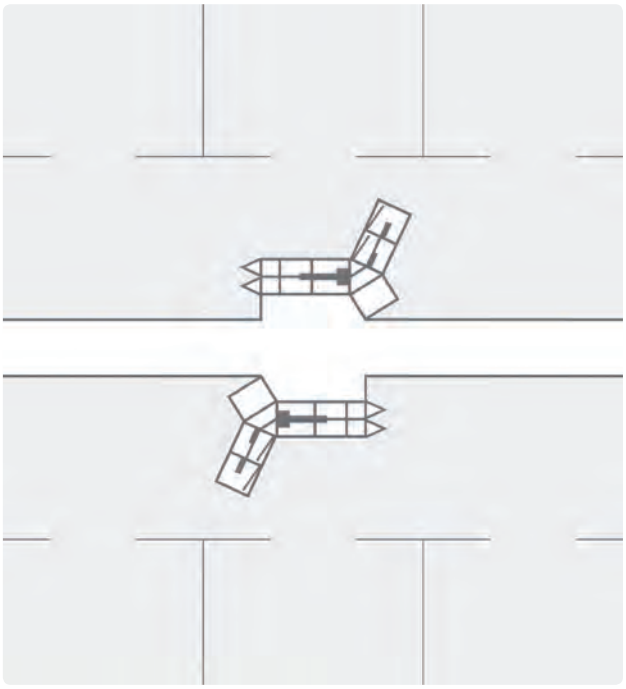
- Individual feeding which meets with the requirements of sows in group managements
- Suited for approx. 60 sows per station
- With central selection up to 300 sows per selection unit can be managed and up to 6 electronic sow feeding stations can be connected to a selection device
- For dry feeding as well as liquid feeding
- Feed stations are equipped with one feed supply container each for dry feeding
- Trough of high-grade steel: no dirt corners, easy cleaning
- Due to exit securing of the station by means of 2 doors the sow cannot enter the station from the wrong side
- The animals can leave the station at any time. No stress at the entrance as any animal can enter the station anytime.
- Normal operation and training operation possible
- Manual operation of station available
- More rest during feeding due to closed side walls
- Extremely stable due to high-value materials
- Flexible and room-saving in area design
- Species-appropriate management system which is in keeping with government regulations regarding pig managements
- For insulated and not heat insulated buildings
- Optional:
  - Emergency gate
  - Automatic heat detection
  - Colour marking system
  - Locking flap for trough
  - 2 kinds of feed can be fed out
  - Horizontal roller at entrance
  - Clamp which prevents lying down
  - Individual and group selection
  - Additive dosificator
  - Double electronic sow feeding station (Twin)
  - Handheld device for reading in of ear tags (MDE)

Feeding procedure:
When the sow enters the empty station, the doors behind her close and the station identifies the sow with the help of her ear tag transponder. If the sow is entitled to feed, the trough will be unlocked and the feed meant for her is dosed out into the trough. After the end of the feeding the trough will be locked again. If the sow is not entitled to feed the trough remains locked. In both cases the exit of the station opens time-delayed and the sow is able to leave the station again.

In the following we present you the two most established construction types of electronic sow feeding.



Group Selection



2 Stable Groups

Explanation Group Selection:
The group selection is applied when several groups of sows from various production cycles are kept together in one large-scale house and supplied with feed.
For the group selection several sow feeding stations are placed in front of a selection unit and connected with a gangway. When the sow leaves the feeding station after having fed, she walks through the passage to the selection unit. Here, she is identified by the feeding computer by her ear transponder and then led back into the normal group or possibly into the separation room.

Explanation Stable Group:
For keeping sows in a stable group, the group is fed at a feed station during a production cycle. As all sows are of the same level of pregnancy and thus leave the waiting station at the same time, no separation is necessary here.

Technical Details	Stable Group
Length of entry (m) (with gate door closed)	1.77
Length of exit (m)	1.4
Passage width for elder sows (m) (inside)	0.55
Tapering for gilts (cm)	5 or 10
Height (m) (with control)	1.73

SowComp

Approved, user-friendly, versatile, effective

Soft and hardware components support important management functions like for example the selection of sows from a group, the training of gilts or regular securing of data.

The doors of the electronic sow feeding station are opened by means of a pneumatic mechanism which is locked mechanically. (Hint: cover has been dismounted for better illustration)

Trough

Anti-laying device

Entrance area

Heat detection

Colour marking with aerosol can

Training Station

Feeding wants to be learned

Each fully equipped Weda Electronic Sow Feeding Station can also be used as a training station. The modern control of the 4PX Sow-Comp has user-friendly, practice-orientated programs that enable problem-free training of the animals.

Training station without PC Control

Training Station with PC Control

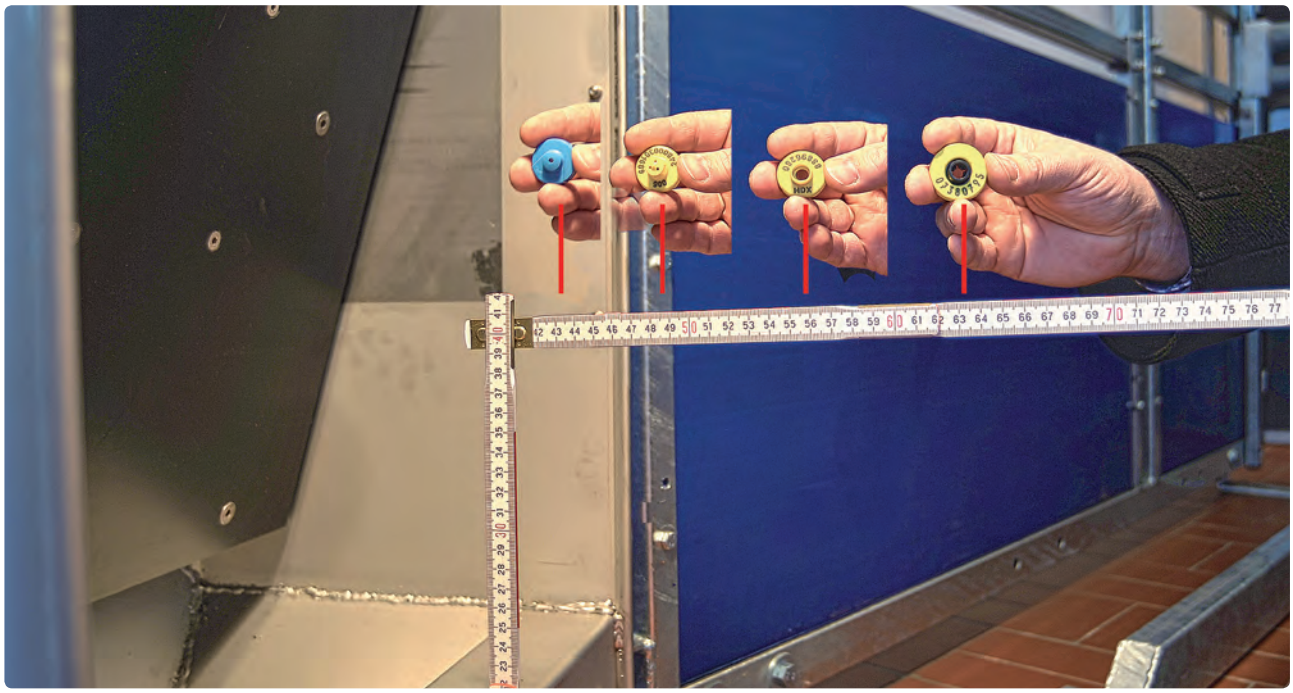
Characteristics

- Easy training of the use of the demand feeding station in several training phases
- Manual feeding possible at the touch of a button
- Sophisticated wall construction ensures a maximum of lightness inside the station
- Also available as a variation without PC control

Ear Tag for Electronic Sow Feeding Station

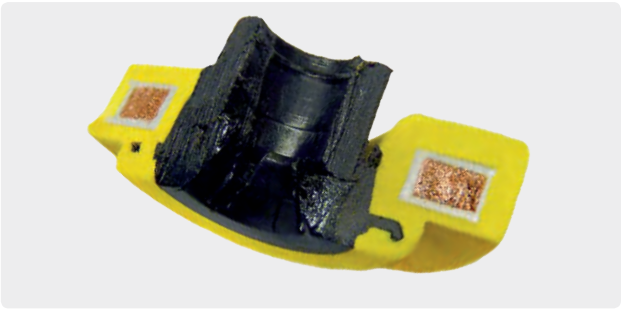
The proper ear tag

Our ear tags operate on the HDX system that - owing to an integrated condenser - guarantees clearly higher transmission ranges that customary ear tags with the FDX system, where only a simple copper coil transmits the transmitter signal.



Characteristics

- Higher transmission ranges due to the HDX system
- Very reliable
- Animals can reach the feed
- No congestions inside the station due to malfunctioning ear tags and therefore also no decline of feeding times
- No early closing of trough flaps because transmitter is suddenly out of reach
- High quality workmanship
- Water-proof
- High durability and therefore repeated use possible



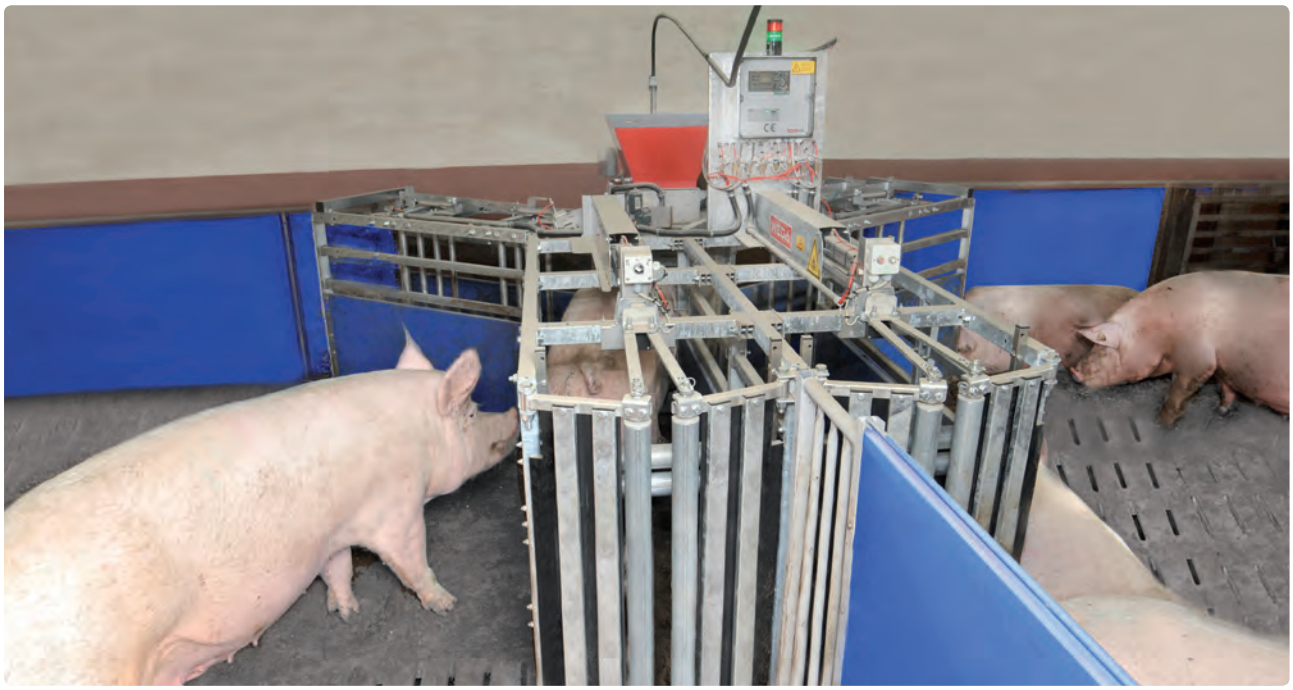
For the WEDA Ear Tag, the copper part is cast together with a special media in order to make the tag water-tight.

Low-quality ear tags consist of two manually connected plastic bodies. Water could permeate into their cavity.

SowComp Twin

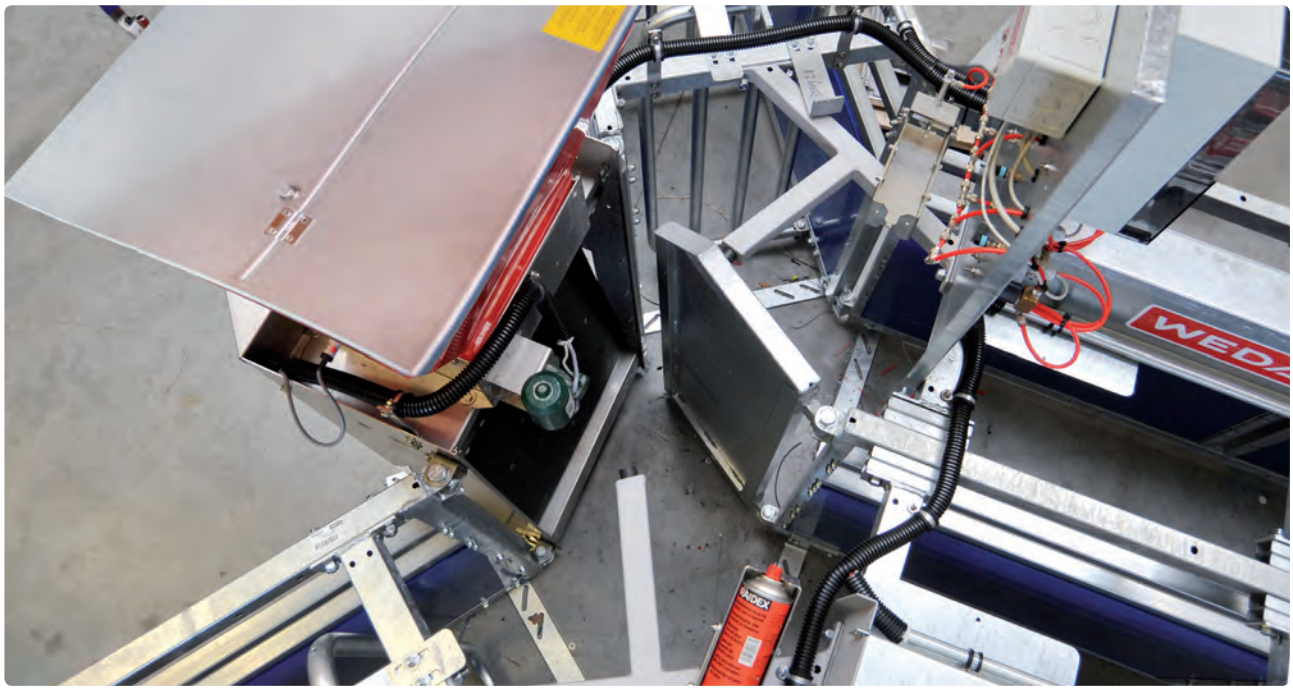
The solution for small sow groups

The SowComp Twin ist the perfect and more cost-effective solution for the management of smaller sow stocks in loose groups. Up to 55 animals can be supplied with feed by means of the SowComp Twin without any problems.



The SowComp Twin has two separate entrances...

and exits.



The station provides up to 55 animals with only one trough. A flap-door separates both sides.

Both entrance gates are alternately opened by the control system.

Weda Control System

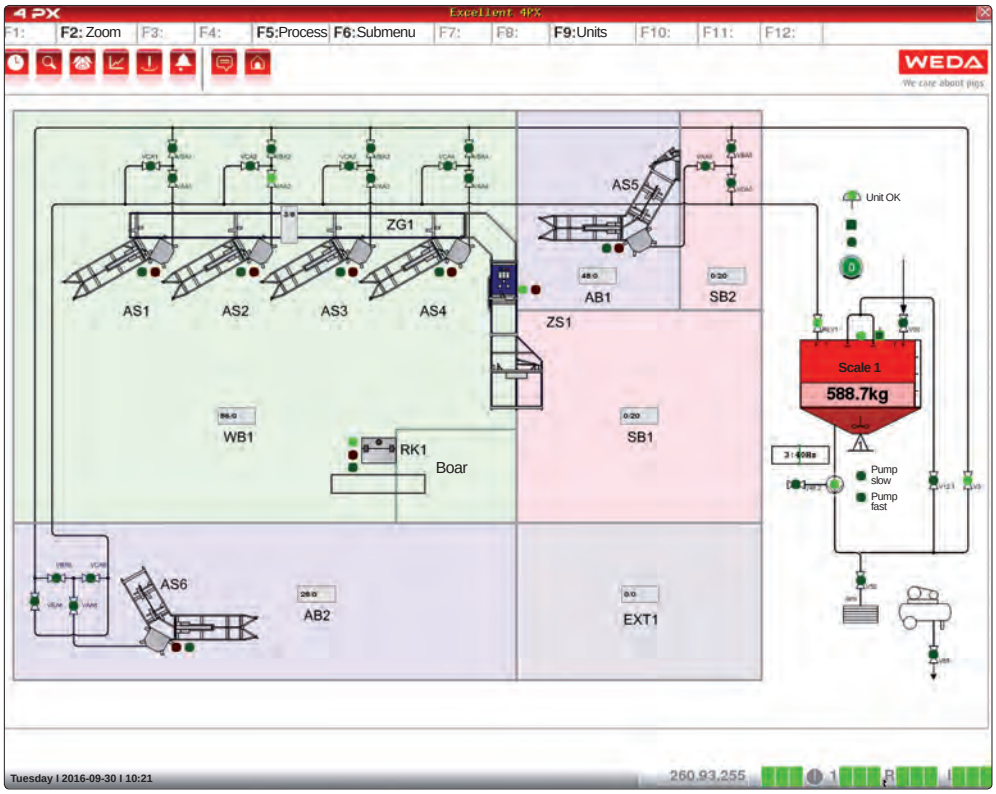
Efficient group management of sows

The Weda Control System enables an individual animal management based on genetic behaviour rules and can be adapted to growing unit sizes and to the requirements of the farmer without any problems.

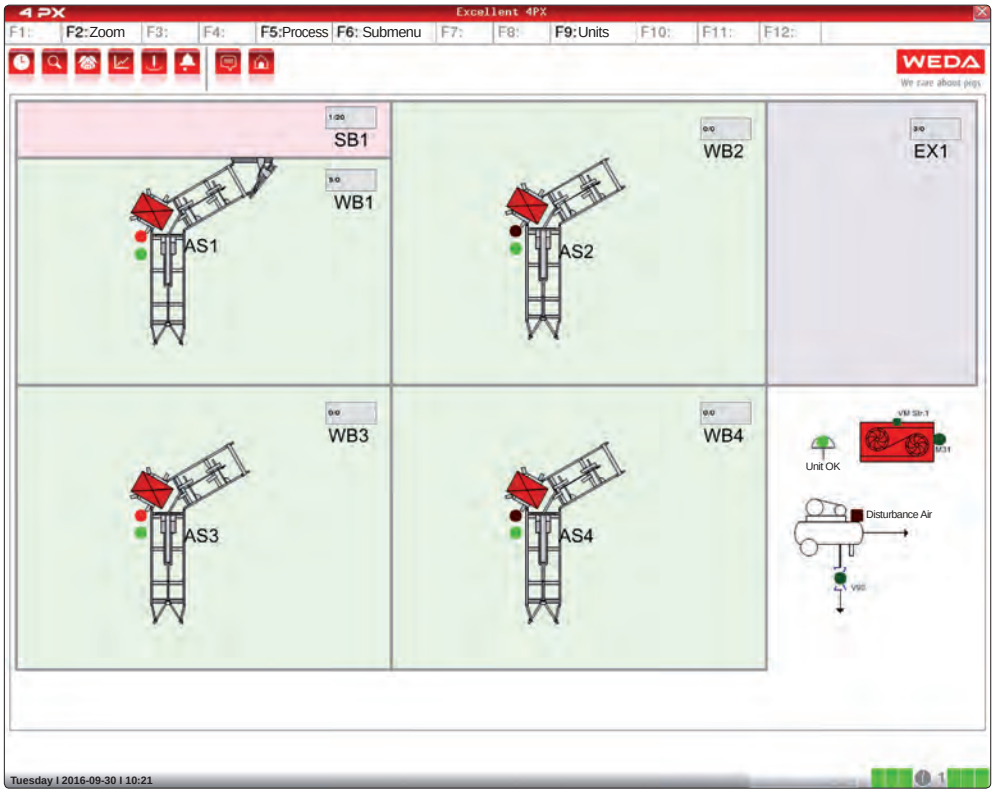
Characteristics

- Ear transponder enables feeding according to feed graph with individual animal-specific loadings and deductions.
- Improved management due to individual animal identification and computer controlled feeding
- Intervals between portion distributions adjustable
- A lamp at the electronic sow feeding station displays the latest situation
- Up to 30 electronic sow feeding stations/devices, like for example central selections and heat controls can be connected to a control system
- Each station can be directly selected via computer
- Extensive documentation (for example feed uptake, number of visits at the station, pass ways of the sows, recognition of sows' position within the station)
- Individual actions possible for each station (on and off-switching of the station, opening of the entrance gate for the training of gilts and dosification of a feed portion for the training of gilts or the control of the dosificator)
- Each station can feed out two kinds of feed, liquid or dry, or an additive
- Heat detection
- ISOagriNET-capable
- Compatible with any management system which supports ISOagriNET
- Compatible with ISOagriNET-capable product systems (feeding systems, animal separation, heating systems, etc.). The computer of the electronic sow feeding station can for example communicate with the liquid feeding unit and order required feed rations
- Software and hardware components support important management functions like for example the selection of sows from the group or regular data securing
- Takeover of numerous routine tasks (report generator)
- Simple handling and thus direct taking into operation after installation
- System controls the observance of determined behaviour rules, farm manager only has to react on deviations.
- Simple management of large animal stocks
- Networking with Weda possible
- Independent, temporary blocking of the stations if selection passage is fully occupied. Automatic unblocking when selection passage is empty again
- Protection of technology inside the house because processes inside the house are organized depending on the feed requirements of the sows. Components no more required for that day are switched off.

The "Visualization" refers to the unit and displays an exact picture of the unit with all user-relevant details. Beside the electronic sow feeding stations, one also has the training station, the boar's pen with heat detection, and the feeding kitchen at one glance. (Photo: electronic sow feeding station with liquid feeding). The special feature of the Weda electronic sow feeding station: the filling of the electronic sow feeding stations is carried out via the control computer of the station.



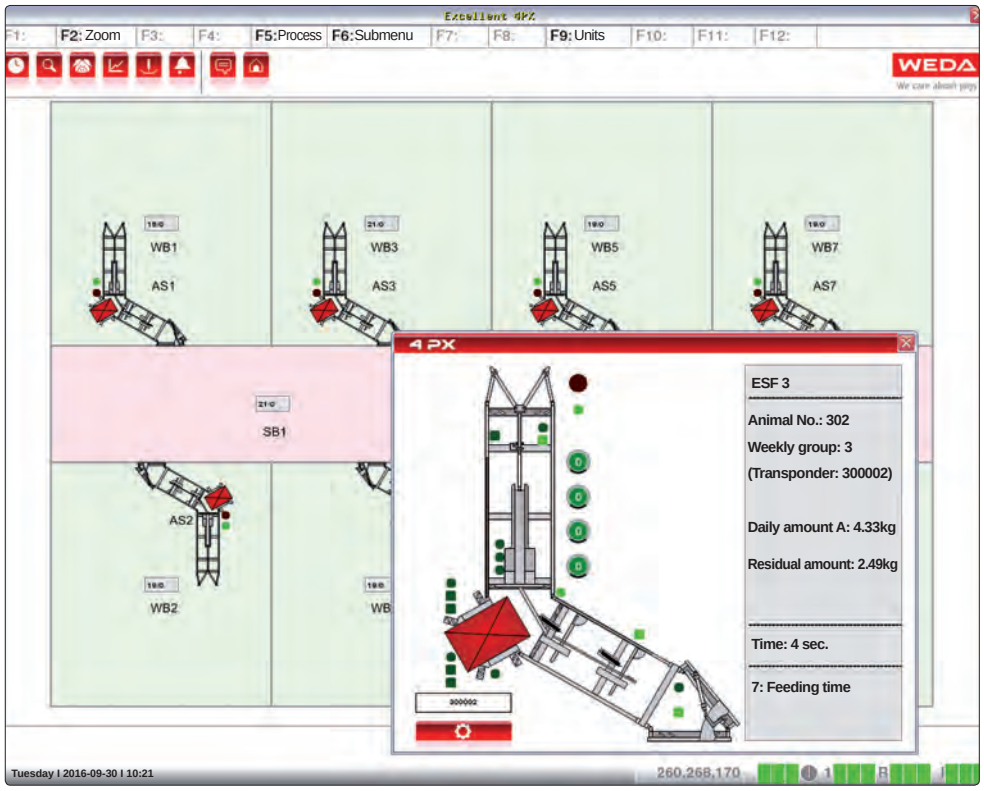
The "Unit Visualization" (photo: electronic sow feeding station with dry feeding) also presents to the user the number of animals at the respective station as well as the maximal number of animals and the actual number of animals in the selection areas.



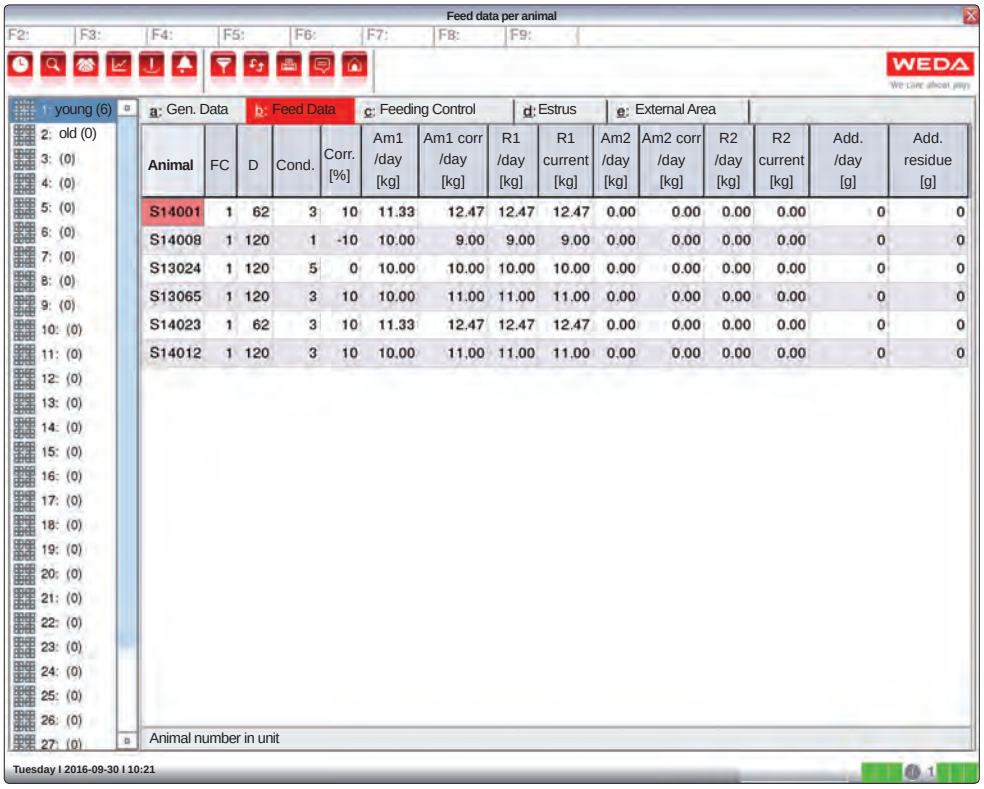
Weda Control System

Easy Management for large livestock

The Weda Control System always keeps an eye on all animals and displays possible deviations for the operator. Adaptations for individual animals can be simply and quickly entered into the system and can be implemented immediately.

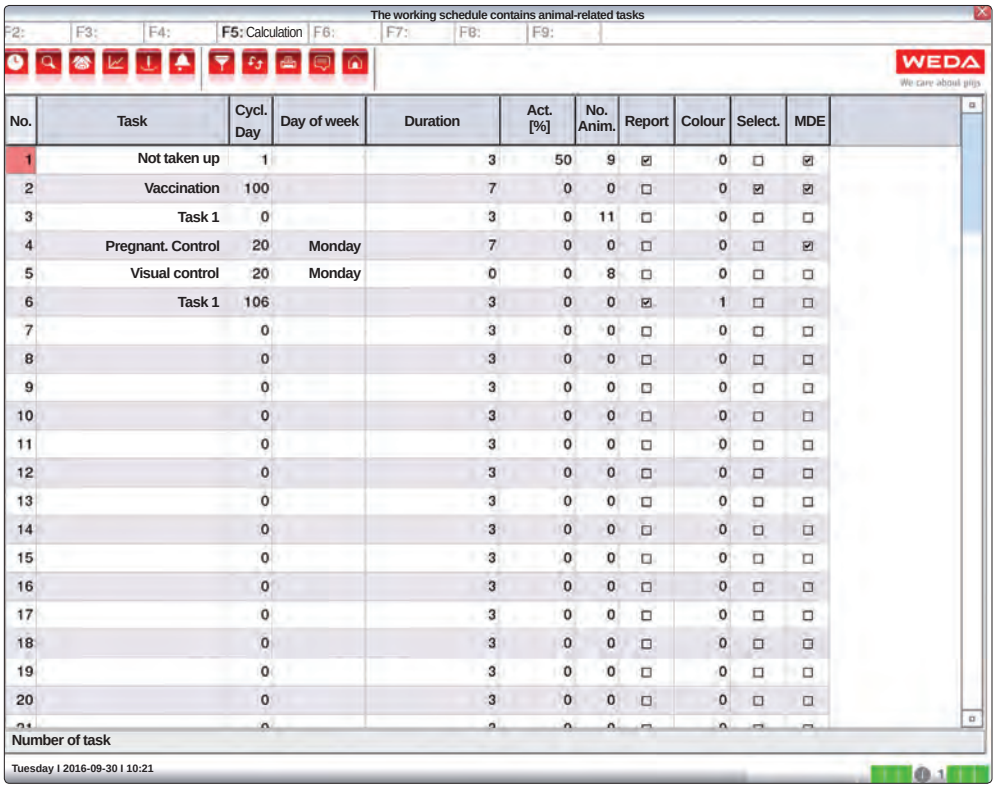


Each electronic sow feeding station can be individually addressed. Depending on the requirements, various adjustments can be carried out, like for example on/off switching of the station or opening of the entrance gate for the training of gilts. The dosification of a feed portion for the training of gilts or for the control of the dosificator is also possible.
When an animal enters the station, it displays animal-specific data, like for example the transponder number and the daily feed ration.



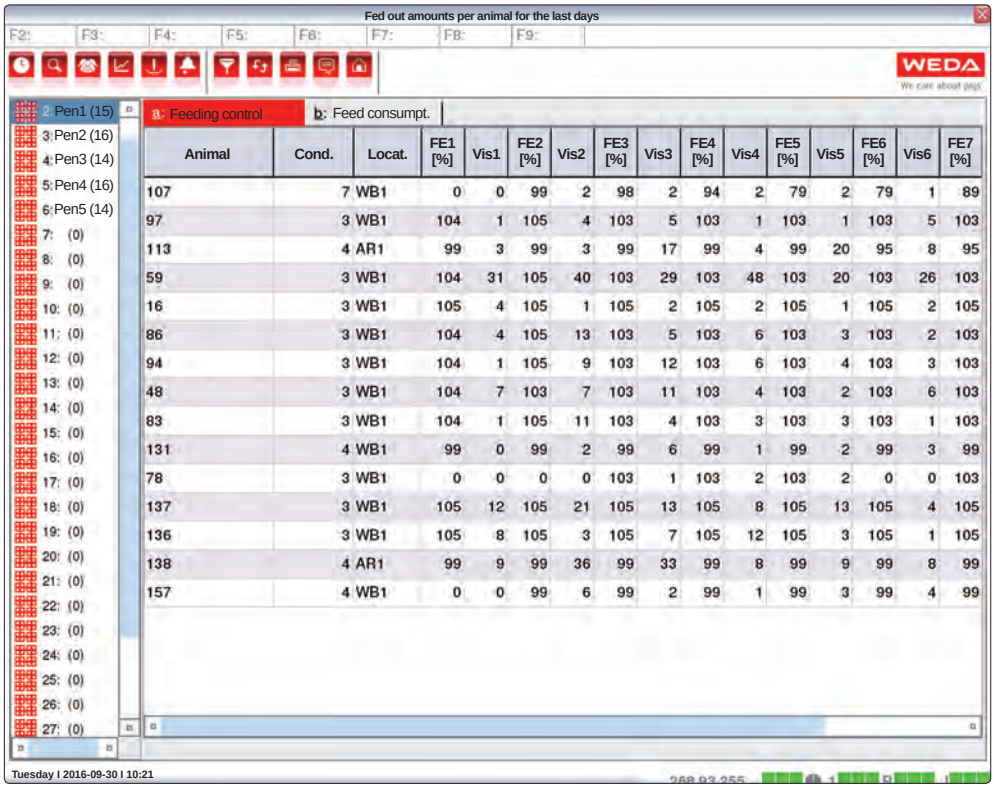
In the domain "Feed Data", all relevant data for the feeding of each animal are stored. Changes can be directly entered into the system and are immediately carried out at the electronic sow feeding station.

In the domain "Work Schedule", accruing animal-related tasks are displayed. The display comprises tasks that can be carried out depending on the cycle day of an animal as well as also tasks that aim at other animal characteristics. Via the columns of Report, Colour, Selection, and MDE, it is possible to choose the actions for the selected animals.



No.	Task	Cycl. Day	Day of week	Duration	Act. [%]	No. Anim.	Report	Colour	Select.	MDE
1	Not taken up	1		3	50	9	☑	0	☐	☑
2	Vaccination	100		7	0	0	☐	0	☑	☑
3	Task 1	0		3	0	11	☐	0	☐	☐
4	Pregnant. Control	20	Monday	7	0	0	☐	0	☐	☑
5	Visual control	20	Monday	0	0	8	☐	0	☐	☐
6	Task 1	106		3	0	0	☑	1	☐	☐
7		0		3	0	0	☐	0	☐	☐
8		0		3	0	0	☐	0	☐	☐
9		0		3	0	0	☐	0	☐	☐
10		0		3	0	0	☐	0	☐	☐
11		0		3	0	0	☐	0	☐	☐
12		0		3	0	0	☐	0	☐	☐
13		0		3	0	0	☐	0	☐	☐
14		0		3	0	0	☐	0	☐	☐
15		0		3	0	0	☐	0	☐	☐
16		0		3	0	0	☐	0	☐	☐
17		0		3	0	0	☐	0	☐	☐
18		0		3	0	0	☐	0	☐	☐
19		0		3	0	0	☐	0	☐	☐
20		0		3	0	0	☐	0	☐	☐

The "Feed Evaluation" provides you with information on which animal has taken up which amount of feed during the previous 10 days. Additionally, the evaluation shows the frequency of visits of individual sows at the station.



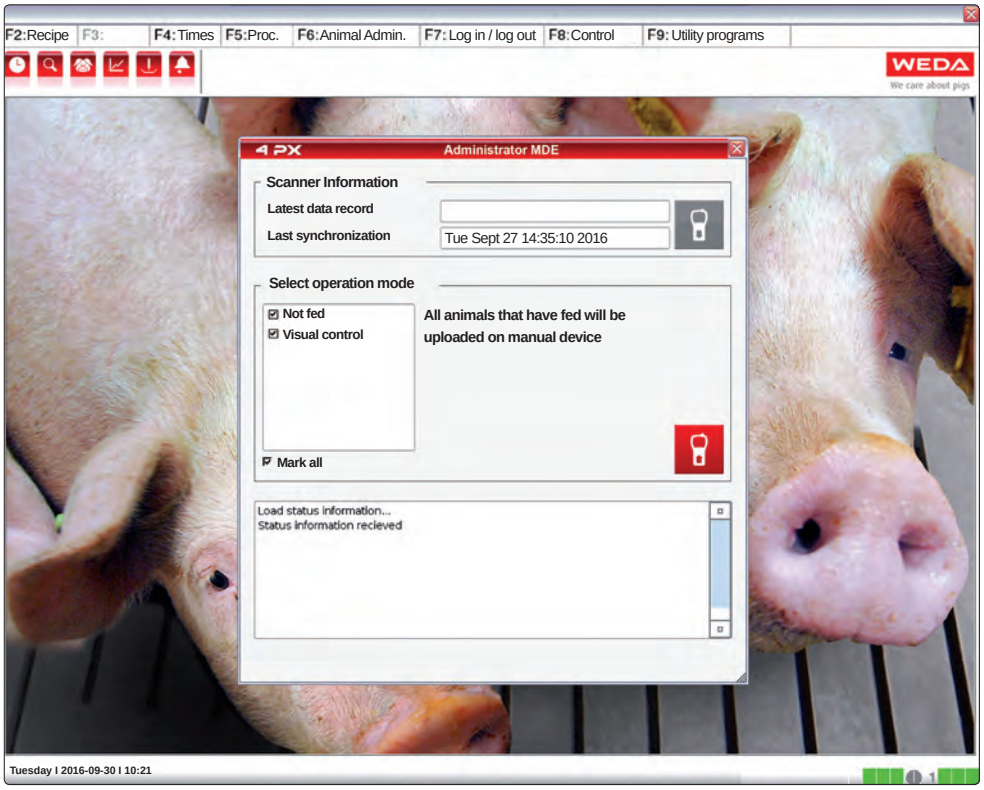
Animal	Cond.	Locat.	FE1 [%]	Vis1	FE2 [%]	Vis2	FE3 [%]	Vis3	FE4 [%]	Vis4	FE5 [%]	Vis5	FE6 [%]	Vis6	FE7 [%]
107	7	WB1	0	0	99	2	98	2	94	2	79	2	79	1	89
97	3	WB1	104	1	105	4	103	5	103	1	103	1	103	5	103
113	4	AR1	99	3	99	3	99	17	99	4	99	20	95	8	95
59	3	WB1	104	31	105	40	103	29	103	48	103	20	103	26	103
16	3	WB1	105	4	105	1	105	2	105	2	105	1	105	2	105
86	3	WB1	104	4	105	13	103	5	103	6	103	3	103	2	103
94	3	WB1	104	1	105	9	103	12	103	6	103	4	103	3	103
48	3	WB1	104	7	103	7	103	11	103	4	103	2	103	6	103
83	3	WB1	104	1	105	11	103	4	103	3	103	3	103	1	103
131	4	WB1	99	0	99	2	99	6	99	1	99	2	99	3	99
78	3	WB1	0	0	0	0	103	1	103	2	103	2	0	0	103
137	3	WB1	105	12	105	21	105	13	105	8	105	13	105	4	105
136	3	WB1	105	8	105	3	105	7	105	12	105	3	105	1	105
138	4	AR1	99	9	99	36	99	33	99	8	99	9	99	8	99
157	4	WB1	0	0	99	6	99	2	99	1	99	3	99	4	99

Weda Control System

Modifications with one mouse-click

The Weda Control System is quick and easy to operate. The visualization of the unit enables for example direct access to the individual electronic sow feeding stations.

In the domain "Feeding Curve", the amount as well as the composition of the feed are adapted to the cycle and the requirements of the animals each day. The complete feed amount is then displayed as a feed curve by the computer in dependence on the cycle day.
Depending on the respective duration of stay at the valve, the currently applicable setting is read and transferred into the valve data.



On the page for "Mobile Data Recording (MDE)", all required presets for the handheld device can be carried out; also handheld device and feeding computer can be synchronized with each other after data recording inside the house.

MDE (Mobile Data Recording)

All the important animal data at one glance

By means of the MDE, the ear tags of the sows can be read in fast and simply. After reading in, selected, animal-specific data appear on the display and can be modified as requested.

Characteristics

- Special search function: if the 4PX displays an animal that had not been fed sufficiently, these data can be simply transferred into the MDE. During the animal control, the MDE announces the animal in question by sounding an alarm when its ear tag is scanned.
- Display of important animal data, like for example day of cycle, feed consumption during the last two days, etc.
- Parameters can be individually selected at random
- Data can be modified at random
- Optionally available with external antenna which clearly makes scanning of the ear tags easier (see photo on the right)
- Easy Handling
- Very easy 4PX coupling
- Robust
- Secure
- Easy to clean
- Clearly arranged

Pen systems

Flexible, robust and low-cost

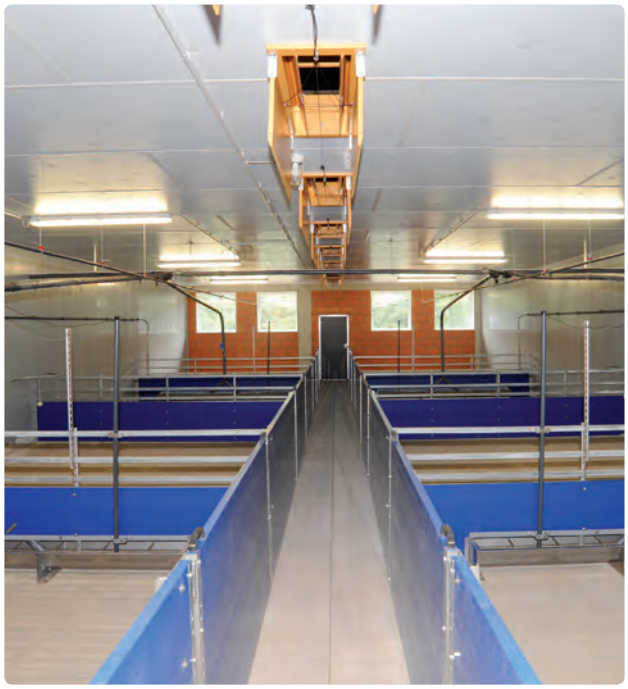
Our pen systems convince you by their great flexibility and stability. They are furthermore easily and quickly installed and prevent injuries to humans and animals due to their smooth surfaces.

The Weda fasteners are simplicity itself to operate.

In the case of our EasyUp locking device, only the device has to be raised and not the gate.

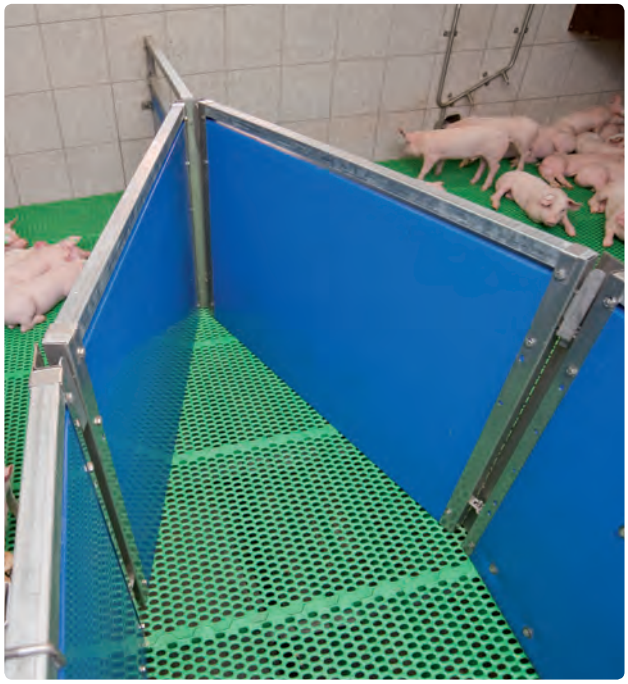
Problem-free one-handed manual opening of the pens is possible.

Our new locking device allows the opening of your pens without great effort. It is furthermore possible to swivel the gate to the inside, resp., to the outside.



Our pen walls are absolutely smooth. This way, you avoid injuries and dirt deposits are reduced, too.

Various kinds of supports, like for example the triangular plate, ensure a high degree of stability.



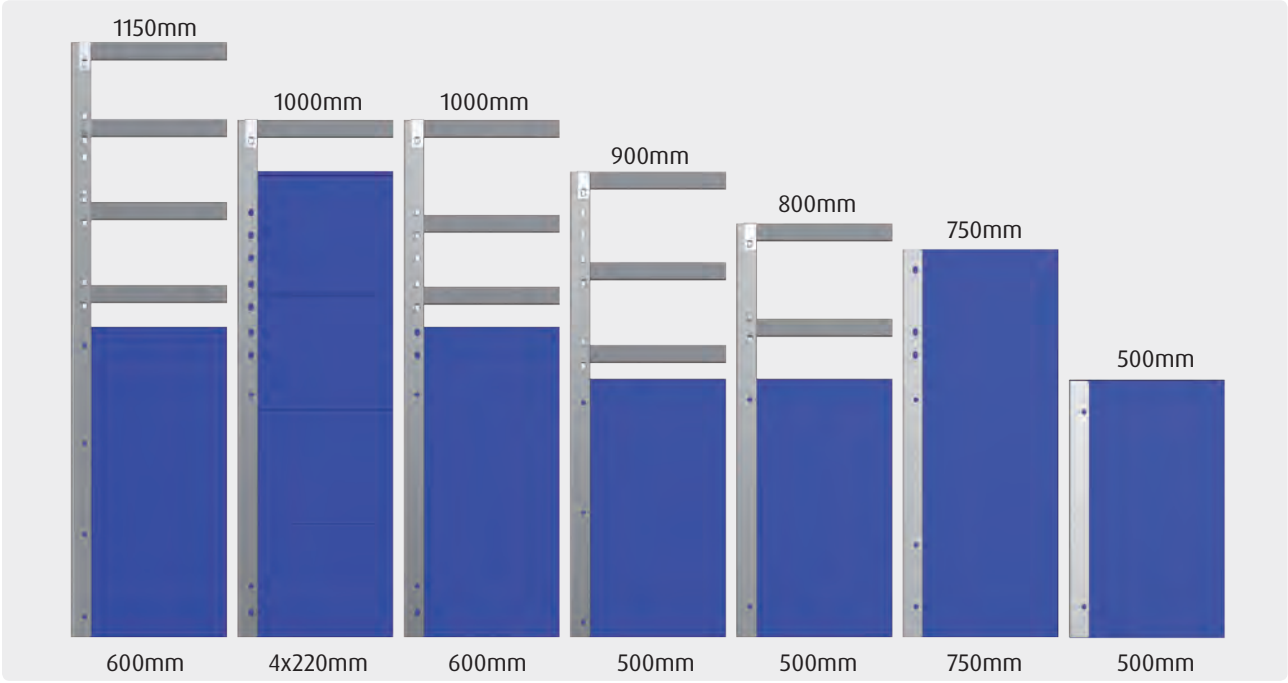
The boards are cut to length and by means of this, cut-offs are avoided on-site. An installation in the shape of a dead end is also possible.

Our pen systems are delivered together with detailed documentation and this way allow a simple installation and a fast self-assembly.

Pen systems

Flexible and cost-effective

Weda offer you pen systems for all production sections, no matter if farrowing section, weaner raising or fattening. Due to the flexible modular system, the construction parts can be combined with each other at will.



Characteristics

- Height of fattening pen: 100cm / 115cm
- Height of weaner pen: 75cm / 80cm
- Robust planking by means of hard-PVC profile boards 35mm thick, cut to fit the proper length
- Height of boards: 22, 50, 60, 75 or 100cm
- Boards with smooth surface and underside available
- Installation of high-grade steel or polymer concrete troughs possible
- Commercially available floor materials can be delivered
- One-hand door opener
- Border of the pens is in a U-post construction and fittings of high-grade steel
- Individually adaptable in size
- Stiffening boards ensure tremendous stability. A stiffening of the partitioning wall takes place at least every 4 metres: floor fastening is provided for every 2 metres.
- No protruding parts and therefore no risk of injury for human beings or animals
- Plenty of smooth surfaces, as there are very few screws
- All connections are screwed on and therefore no corrugating welding seams
- Cleanly manufactured with no ridge. Clean edgings and absolutely accurate to measurement by means of laser technology.
- Sound and detailed documentation, therefore easy assembly and fast self-installation is possible.

Possible wall combinations:

Wall combination (separating wall, gate, head piece) consisting of:	Height in mm										
	500	600		750		800		900			
		Var. 1	Var. 2	Var. 1	Var.2	Var. 1	Var.2	Var. 1	Var. 2	Var. 3	Var. 4
1x 220mm board, KS										x	x
1x 250mm board, KS											x
2x 250mm board, KS										x	
1x 500mm board, smooth	x	x				x			x		
1x 600mm board, smooth			x		x						
1x 750mm board, smooth				x			x	x			
1 Q-pipe		x			x		x				
2 Q-pipes						x		x		x	
3 Q-pipes									x		x

Wall combination (separating wall, gate, head piece), consisting of:	Height in mm									
	1,000						1,150			
	Var. 1	Var. 2	Var. 3	Var. 4	Var. 5	Var. 6	Var. 1	Var. 2	Var. 3	Var. 4
1x 220mm board, KS					x					
4x 220mm board, KS	x						x			
1x 500mm board, KS					x					
1x 500mm board, smooth		x								
1x 600mm board, smooth			x					x		
1x 750mm board, smooth				x					x	
1x 1000mm board, smooth						x				x
1 Q-pipe	x									
2 Q-pipes				x	x		x			x
3 Q-pipes		x	x						x	
4 Q-pipes								x		

Caption:
KS: key and slot
Q-pipe: square pipe

Hint:
All PVC boards are available in the colours: light grey, white and blue
All square pipes are galvanized. If required also available in V2A

Fattening Pens

Secure pig management at top level

The Weda fattening pens are manufactured of high-quality materials in which your animals can feel comfortable at all times. As there are no protruding parts in the pens there is also no risk of injuries – neither for human beings nor for animals.

The flexible modular system enables an individual combination of the construction components.

Depending on your requirements troughs of high-grade steel or polymer concrete can be installed into the pens.

Fattening Pens D

For comfortable communal coexistence of your animals

Compared to our standard version, our fattening pens D differ in height and furnishing. This way, e.g., your animals can get in contact with each other via the integrated fence.

The freely suspended gate with door handle snaps in automatically and is swivelling to both sides.

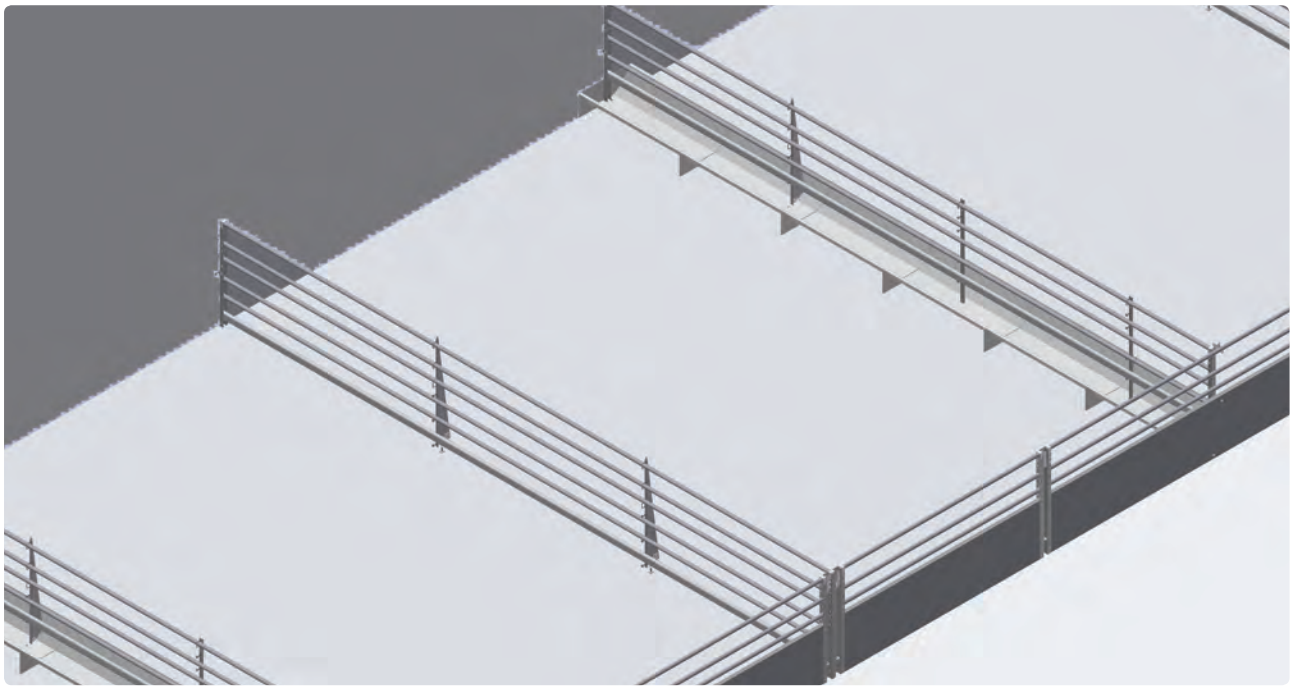
The 50-pipe is embedded into the trough separating wall. This way, dirty corners will be avoided.

Contact grid

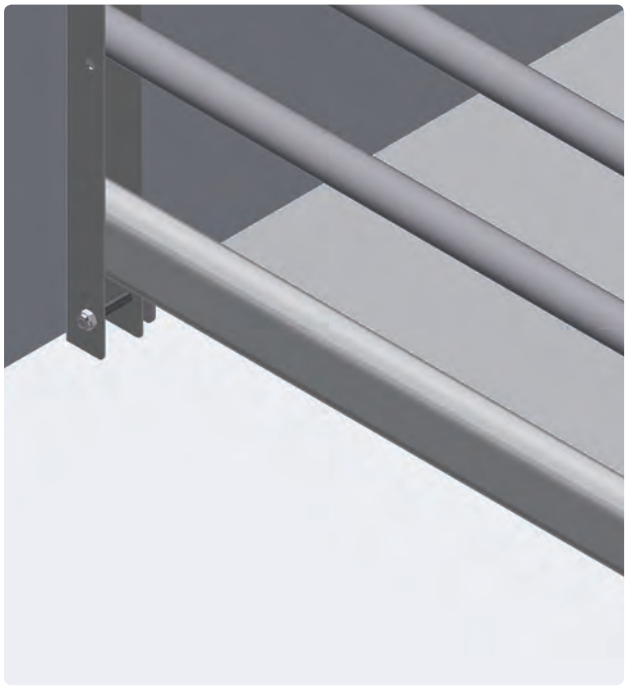
Fattening Pens AS

Ideal for warmer areas

The Fattening Pen AS was especially designed for house units with tunnel ventilation. Due to their lattice pen walls of galvanized iron, an optimal exchange of air is possible.



The Fattening Pen AS has a height of 900mm and is constructed in proven Weda quality.



The oval pipe, installed directly above the floor, consists of PVC and therefore offers optimal protection against corrosion.

In order to prevent an accumulation of dampness on the lattices, the grid tubes are rounded.

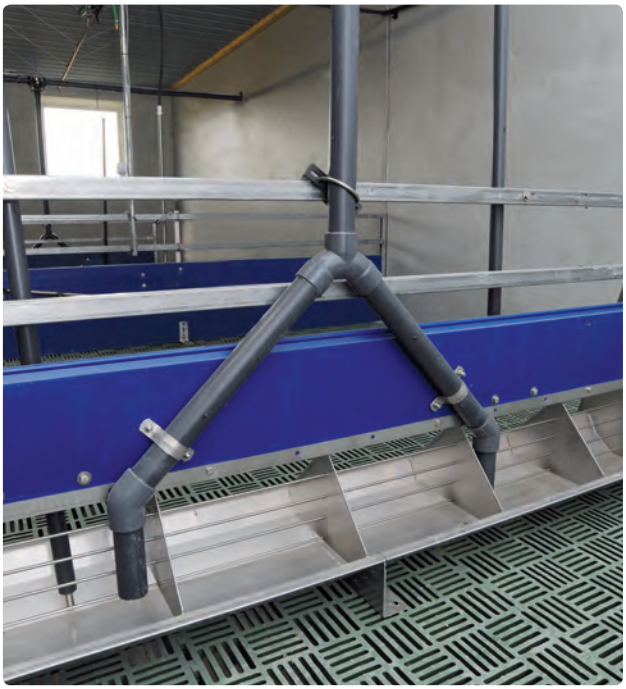
Weaner Pens

Robust and reliable

The walls of the weaner pens consist of robust planking by means of hard-PVC profile boards. These are cut suitable to length and therefore unnecessary costs of cutting losses are avoided.

Available in heights of 75 and 80cm, our weaner pens offer you all advantages of the flexible Weda pen systems.

Our weaner pens (75cm) are issued with a high-grade steel handle which enables simple opening of the pen walls.



Trough separating wall with high-grade steel trough.

Weaner Pens D

Top-level comfort early in life

The weaner pens D possess a contact fence for optimal communal coexistence. The integrated weaner covering of light and resistant material ensures comfortable warmth.

Our pens are absolutely cleanly processed. This means no risk of injury for humans or animals.

The contact grid for social contact of the animals amongst each other is manufactured of high-grade steel.

The weaner cover consists of light, hard-wearing and resistant material.

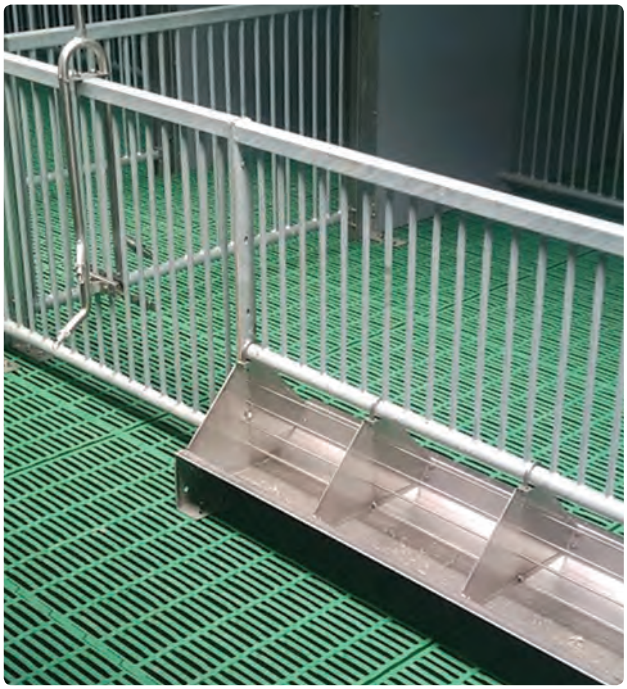
Piglet Pen AS

Wellbeing for the little ones

Due to its particular pen wall construction of galvanized iron grids, the Piglet Pen AS is perfectly suited for use in animal house units with tunnel ventilation.

Due to the galvanized iron grids, the piglets can get in touch with their conspecifics in the neighbouring pen.

The piglet nest is closed at the back and the sides and offers cozy warmth.



The piglet trough is open and bright and provides optimal condiitons for a successful uptake of feed.

Pen Systems for Sows

Wellbeing in the group

Due to their stable planking, Weda's pen systems for sows are ideal for groups of sows. With a wall thickness of 35mm or 51mm, the systems perfectly withstand the force caused by the heavy animals.

Feeding place outliner

Characteristics

- Fencing of pens with post construction of high-grade steel
- Robust planking with 51mm panels or optionally with 35mm PVC planking
- Galvanized closing pipes enable unit staff problem-free climbing over pens
- Individually adaptable in size
- Simple construction and therefore fast assembly
- Stiffing boards ensure stability
- Unproblematic opening of pens by means of a special closure
- Height: 1.15m

Sow house equipment Type AS (no photo):

- Pen wall of galvanized iron grids, thus enabling smooth tunnel ventilation
- PVC panelling in front halfway up ensures great stability
- Round pipes in oder to prevent accumulation of dampness

Farrowing Cages and Feeding / Resting Pens

Suitable range of pens of sows for all domains

In the following we give you an overview of our farrowing cages and feeding / resting pens.

Technical Details of the Farrowing Cages	AK	AKH	AKD	AKAS
Length (in m, incl. trough)	from 1.90 to 2.55	2.14	2.49	2.40
Width (in mm, gate, centre to centre)	from 670 to 790	from 840 to 1,035	from 560 to 740	608
Height (m)	1.13	1.10	0.98 (open above)	0.98 (open above)
Equipment reverse side	Western Gate	Simple Gate	Simple Gate	Simple Gate
Galvanized, solid pipe construction	x	x	x	x
Suited for diagonal installation	x	---	---	---
Suited for straight installation	x	x	x	x
Piglet rejector	x	Extra	---	x
Hoop guard for resting	Extra	Extra	---	Extra
Specially shaped supports for the reduction of piglet losses due to crushing to death	---	x	x	---
Troughs	PVC/V2A	PVC/V2A	PVC	PVC/V2A
Available with swing-out trough	Extra	Extra	---	Extra
Mother-infant drinker possible	Extra	---	---	x
Cage open at the top	---	---	x	x
Side part with horizontal pipes	x	x	x	x
Available as self-supporting version	x	---	---	---

Extras: Special Equipment

Technical Details of the Feeding / Resting Pens	T	TH	TPH	TD1 / TD2	K	KH	SF1 / SF3
Length (m)	2.30 or 2.50	2.30	2.30	2.48	2.30 or 2.50	2.23	2.30, 2.40 or 2.50
Width (mm)	between 600 & 750	between 650 & 750	between 650 & 750	between 600 & 700	between 600 & 700	from 650 to 750	between 650 & 750
Height (in m, no cross pieces) (Hint: For the levelling out of uneven surfaces of the floor, the supports of the pens can additionally be adjusted in different heights)	1.10	1.11	1.11	1.12	1.10	1.10	1.10 (without locking device)
Equipment reverse side	Western gate	Western gate high	P-shaped gate	Western gate	swivel basket	swivel basket	self-catching
Galvanized, solid pipe construction	x	x	x	x	x	x	x
Troughs	V2A raised or polymer	V2A raised	V2A raised	V2A/ polymer	V2A raised or polymer	V2A raised	V2A raised
Side part with vertical pipes	x	---	---	x	x	---	---
Side part with horizontal pipes	---	x	x	---	---	x	x

Farrowing Cage AK

The cage for the sow

The farrowing cage AK is adjustable in length (telescopic) and width and can therefore be adapted to the requirements of the sow.

The AK is suited for diagonal - (30°) as also for straight positioning and can be installed self-supporting or supported.

The western gates can be simply folded away.

If required the AK can be equipped with a swivelling high-grade steel trough.

Farrowing Cage AKH

The choice of your piglets

The farrowing cage AKH is in particular marked by its specially shaped feet which reduce crushing losses even more. A solid pipe construction also ensures utmost stability of this cage.

Installation is possible free-standing, at the wall or at single, resp. double frames.

Gate

High-grade steel trough

Farrowing Cage AKD

Well-being for sow and piglets

Robust materials make our farrowing cage AKD stable and solid. The specially shaped feet at the back offer additional protection for your piglets.

Farrowing cage AKD

Gate with specially shaped feet for greater security of your piglets

Movement Pens

More space for sow and piglets

Our movement pens clearly offer more space for the sow than customary pens. Due to the special construction of the pen, the piglets in their nests are protected against being crushed by the sow.

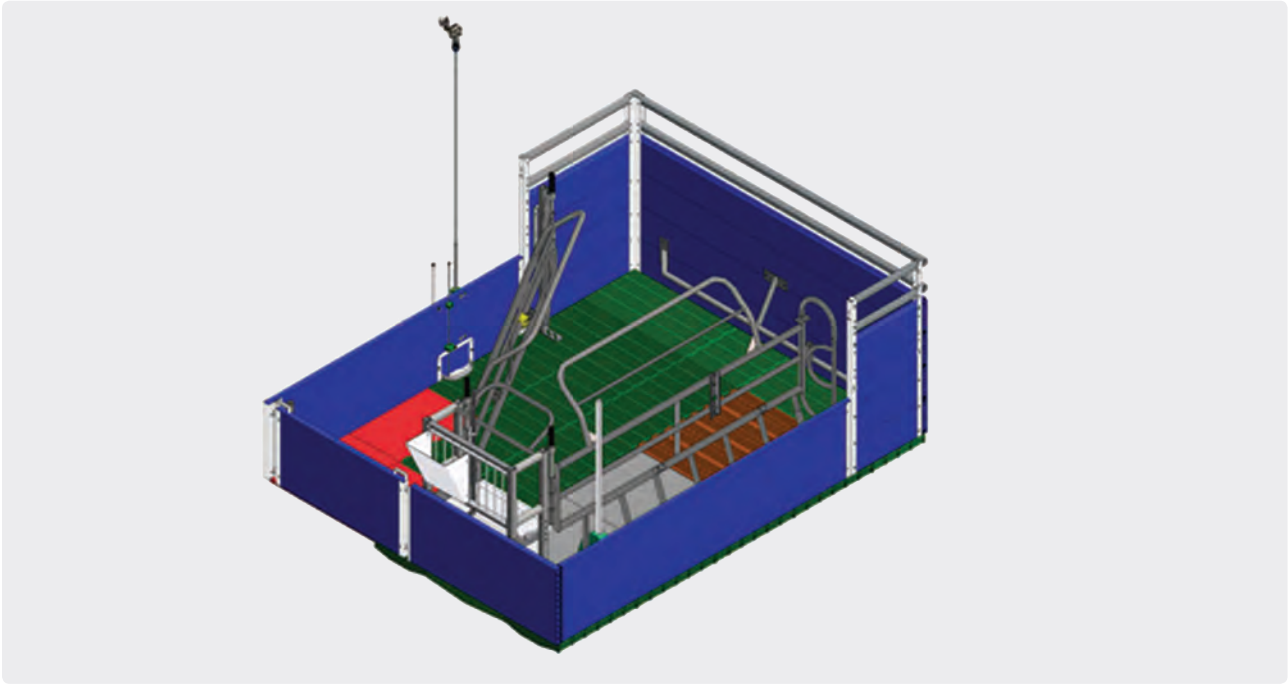
Movement pens with straight equipment

Movement pens with diagonal equipment

Movement Pens

Best technology for more animal wellbeing

Our movement pens MoreFlex and VarioFlex with their modern pen structuring ensure more animal wellbeing and support the farmer with best and most secure technology.



The lower walls of the MoreFlex and a stationary side part ensure high stability of the pen and a positive overview. Due to its structuring, it enables easy access to trough and animals.

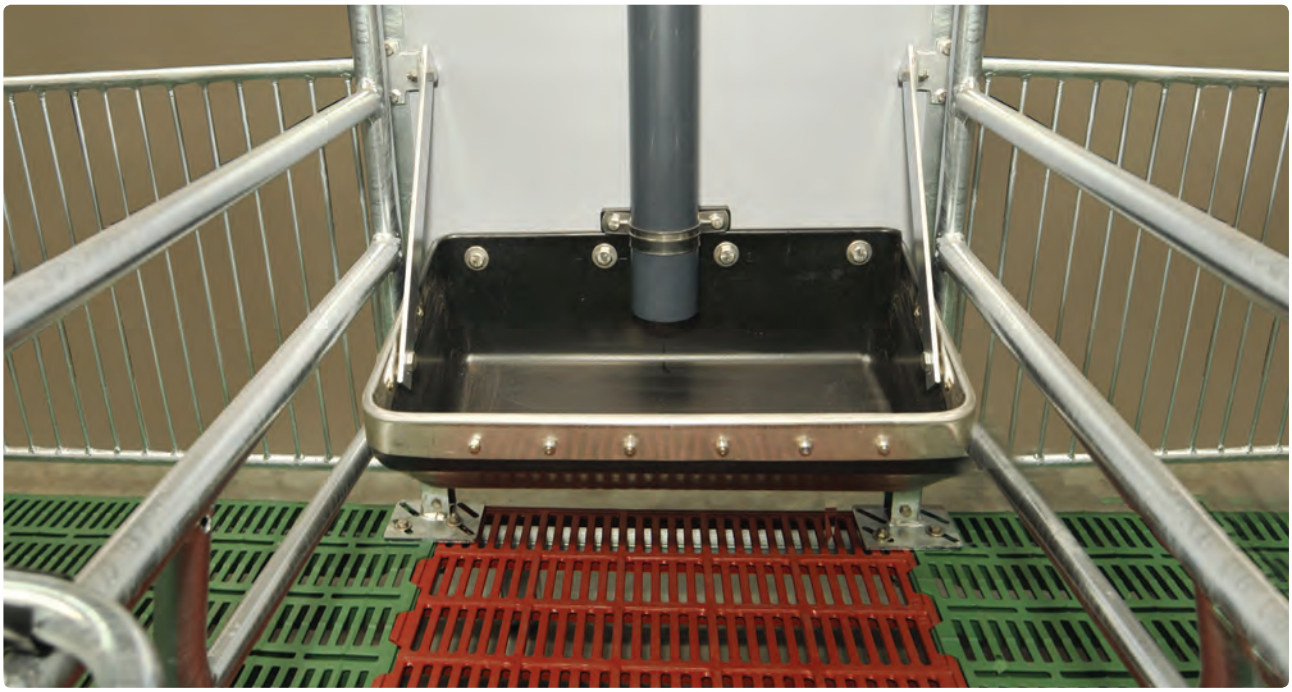
By making use of a swivelling grid, the VarioFlex offers a tremendous amount of open space for the animals with a pen size of 6.4m^2. The special pen construction and a new kind of locking system enable a high degree of security inside the house and offer easy access to the animal.

Farrowing Pen AS

Ideal for tunnel ventilation

The Farrowing Pen AS was especially developed for houses with tunnel ventilation. To a large extent, its pen walls consist of galvanized iron grids, thus ensuring a smooth exchange of air.

The Farrowing Pen AS is equipped with the cost-effective and robust Farrowing Cage AKAS.



As standard, a plastic trough is installed into the AS. Upon request, however, it can also be equipped with a high-grade steel trough or with a tilting trough. Furthermore, the Weda Suckling Piglet Feeding System Nutrix+ can be installed into the pen.

Feeding / Resting Pen SF1

The feeding / resting pen with self-catching device

The feeding / resting pen SF1 is equipped with self-locking swivelling gates and is therefore ideally suited for the group management of sows. In compliance with the legal regulations, the pen can also be used in the service station without any problems. Special service station gates enable easier access to the sow here.

The SF1 is available in lengths of 2.30m and 2.50m. The height of the feet is adjustable and the width can be freely determined between 600 and 700mm.

Pneumatic release of the SF1

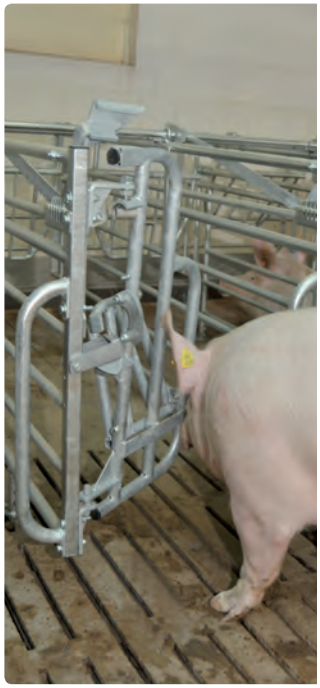
Via a springless special mechanism (pneumatic or manual) the fasteners of a row of pens can be simultaneously put into the same position. This is also possible when the gate in some pens is just being blocked by a sow which is situated in it.

Feeding / Resting Pen SF3

The Ergonomic Alternative to the Rocker-Type Pen

Based on the new lever technology, the ergonomic construction principle of the SF3 ensures easy opening of the maintenance-free and wear-free locking system by humans and by animals. Due to the new free-wheel, the opening and adjusting of the desired function is completely easy for up to 20 sows.

The SF3 System makes handling a lot easier, in particular for persons who are smaller or possess less physical strength.



When the pen is in the "open" mode, the sow can enter the pen according to her liking. A locking mechanism is situated above the trough, which has to be pushed upwards before the feed uptake of the sow in order to lock the gate for sows that have followed. After the feed uptake, the sow leaves the pen backwards. When doing this, her backside releases the unlocking mechanism for the gate. The pen is now unlocked, and the sow is able to leave the pen again.

Locking devices for group management

Simply opened

Our locking devices for group management are smooth running, robust and user-friendly. They can be individually adapted and are therefore suited for any type of house.

One-sided locking

Two-sided locking

Western gate

Characteristics

- One-sided, two-sided, or in the Western gate variation
- Smooth and user-friendly
- For work without tiring
- Stable
- Cost-effective
- Suited for every house
- Individually adaptable

Feeding / Resting Pen T

The cost-effective

Our feeding / resting pen T is the cost-effective alternative amongst our feeding / resting pens. It is available in two lengths and, like all our feeding / resting pens, completely hot-dip galvanized.

The feeding / resting pen T is fastened above – depending on your requirements – with pipes or rails.

The hinged gate can be latch-locked in 3 positions.

Raised high-grade steel trough

Feeding / Resting Pens TH / TPH

For splendid wellbeing of your animals

Both types enable easy access to the sow. Due to the convenient one-hand operation, the individual gates can be simply and easily flapped open. The high-grade steel troughs are equipped with a raised trough edge.

Both feeding / resting pens are perfectly suited for sows in mating and waiting section.

TPH: P-shaped gate for easy access to the sow

TH: The Western gates can be individually folded away

Feeding / Resting Pen TD1 / TD2

Free access all the way to the sow

These feeding / resting pens offer free access to the sow as the upper pipes are attached more to the front. In the front an equipment with front drive-out (TD1) or alternatively with pipes (TD2) is possible.

The feeding / resting pens are freely selectable in individual width between 600 and 700mm.

Type TD1 is equipped with front drive-out

Gate

Feeding / Resting Pen K

Flexible position for the sow

The feeding / resting pen K is available in lengths of 2.30m or 2.50m. Its width can be individually determined between 600 and 700 mm, and the basket can simply be flapped up. Raised troughs enable the sow to put her head underneath them.

All feeding / resting pens by Weda consist of solid steel pipes and are completely hot-dip galvanized.

The special shape of the basket allows easy entry into the pen and good insemination of the sow.

The basket can be folded up if required.

Feeding / Resting Pen KH

Profitable gain of space

The feeding / resting pens are manufactured in high-value galvanized design. The basket can be completely folded up and thus ensures profitable gain of space and more resting area for the sow.

The side parts of the KH are issued with horizontal pipes.

With a flapped-up basked, the side part only has a depth of 1.60 m. This way, more moving space behind the sow is created.

High-grade steel trough with raised edge

Locking Gates for Boar Passage

Right time – right place

The locking gates keep the boar within a fixed domain which will bring forward the estrus of the sows in the vicinity of this area.

Adjusting lever between two feeding / resting pens that are facing each other.

Characteristics

- Installation between wall and feeding / resting pen or two feeding / resting pens facing each other
- Adjusting rod of galvanized square pipe enables easy positioning of the gate from the side of the working passage
- Stable locking device keeps gate closed
- Gate consists of an 18mm non-transparent and robust plan board plates
- Height of board: 1.05m
- Width of board: individually to max. 80cm passage width

Two-sided operable variation:

This smooth variation is situated above the level of the farmer's head above the box stands and can be easily and securely operated from all work-relevant positions.

Boar Pens

The right sort of pen for strong guys

Our boar pens are perfectly designed for the requirements of the animal. Robust and stable as the pens are they will also offer the necessary resistance for any boar.

Characteristics

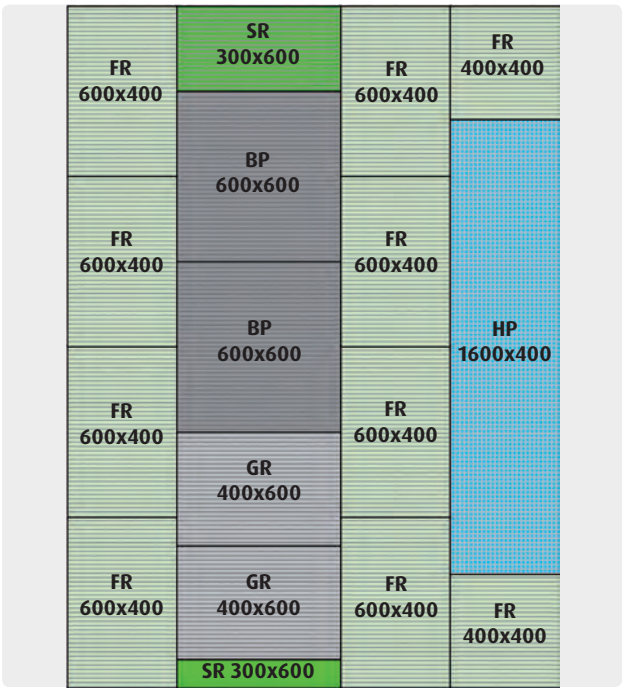
- Robust
- Fully galvanized
- Cage bars: 1/2“
- Upper pipe: 1“
- Assembly height: 1.25m (height of grids: 1.10m)
- Made to measure to any desired length
- With swivel-mounted western gate for both directions or boar’s gate

Boar trough

Flooring

Always the Right Floor under the Feet

We offer a broad portfolio of floor coverings for the farrowing section. No matter whether PVC grids, concrete floors or cast grids, we have something for every need in our program.



Possible flooring layout for farrowing section
(For details please see page 145)

Characteristics

Type M1:

- High bearing capacity
- Non-slip and stable
- Easy assembly
- Easy cleaning
- Optimal hygiene due to best feces transfer

Concrete grids:

- Cost-effective
- Good cooling of the sow
- Shoulder injuries are reduced due to even support of the sow

Technical Details	Cast Grate (GR) Type M1	Concrete Grate (BP)	Sows' Grate (SR) Type M1	Piglet Grate (FR) Type M1 (for Farrowing Pen)	Heating Plate (HP) (polymer concrete)	Heating Plate (HP) (plastic)
Length x Width (mm)	400x600 other dimensions on demand	Concrete plate for sows, height: 40mm 400x600 600x600	Available open or closed: **Open:** **Available widths:** 300 400 500 600 **Available lengths:** 100 600 800 **Closed:** 600x400	Available open or closed Suited for piglet or farrowing pen: **Open:** **Available widths:** 200 300 400 500 **Available lengths:** 100 300 600 **Closed:** 600x400	Heating possible by means of hot water or electricity 1600x400 1600x500 1400x500	Heating possible by means of hot water or electricity 600x400 1200x400 1200x500 1200x600 1600x400 1600x500
Material	cast	concrete	PP	PP	polymer concrete	PE
Slot width (mm)	11	9	10	10	---	---
Slot proportion (%)	---	---	40	40	---	---
Bridge size (mm)	10	---	11.4	11.4	---	---
Burden (kg)	---	---	350	110	---	---

Cast Grids

Only the best for your sow

The cast grid for the sow in the farrowing pen can be laid out to meet with your individual requirements. Our specialists will be pleased to work out your own individual plan for your floors.

The Schonlau grid protects the mammary glands of the sow.

Cast grid type M1

Characteristics

Type M1:

- Ductile cast iron
- Long-life
- Optional with opening for cleaning
- Great surefootedness and high resting comfort
- Optimal ventilation
- Easy cleaning
- Alternatively, concrete grid can be used
- Low priced

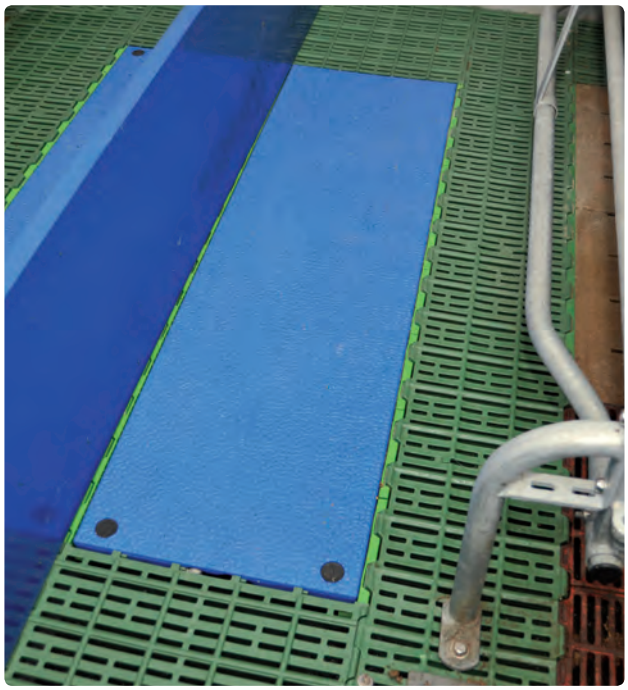
Schonlau grid:

- Special rounded profile protects the sow against injuries of the teats
- Very high stability
- Great surefootedness and very good resting comfort
- Long-life
- Easy cleaning
- Optimal ventilation

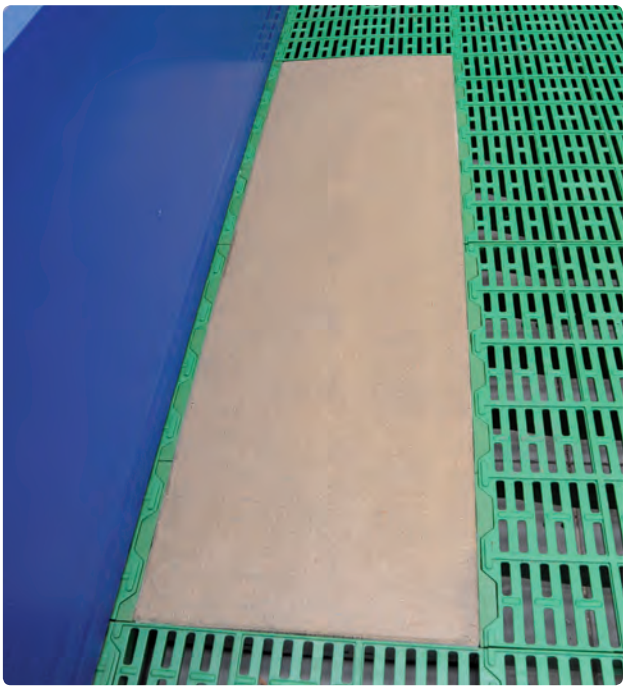
Hot Plates

Snuggly warmth for your piglets

Our hot plates offer snuggly warmth for your piglets. Depending on the type, warming up of the plate is possible by means of warm water and/or electricity.



Type PVC



Type polymer concrete

Characteristics

Type PVC:

- Available in sizes: 1200x500mm, 1600x400mm, 1600x500mm
- Made of high-quality PVC
- Heating by means of hot water or electricity
- Even heat distribution
- Up to 6 heating plates operable with one circuit
- Surface meets with animal requirements
- Low self-weight
- Low self-weight is optimal for transport
- Extremely good cleaning
- Positive resting comfort
- Diffusion-tight pipe system
- Can be equipped with bearer fixation if required
- Less abrasion than with polymer concrete heating plates
- Insulation of underside in order to reduce heat losses

Type polymer concrete:

- Available in the sizes: 1200x500mm, 1200x600mm, 1400x500mm and 1500x400mm
- Made of polymer concrete
- Heating by means of warm water or electricity
- Up to 6 heating plates with a circuit can be operated
- Surface appropriate for animals
- Easy cleaning
- Diffusion-proof pipe system
- Can on demand be equipped with bearer fixation

Piglets' nest

The place where your piglets feel comfortable

The piglets' nest offers your suckling pigs protection and warmth and at the same time reduces energy losses inside the house. An infrared lamp can be installed above the piglets' nest.

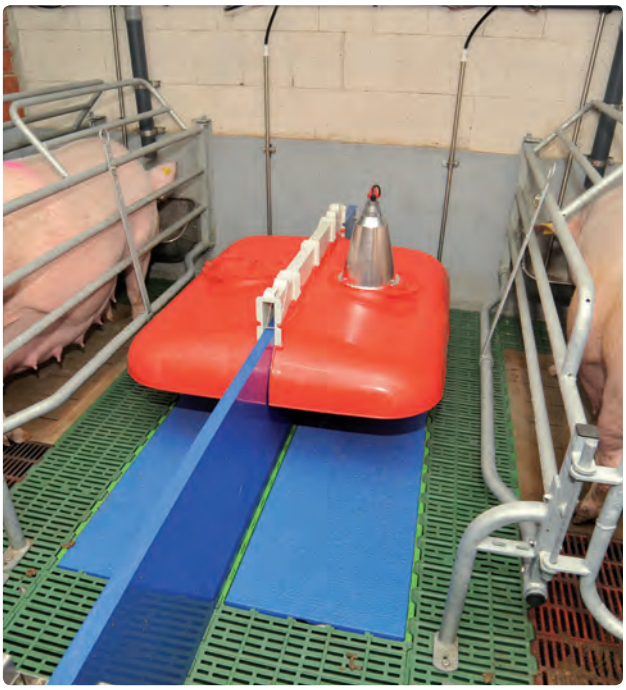
If needed, the piglets' nest can simply be flapped open.

Piglets' nest when closed.

Characteristics

- Mountable at right or left-hand side
- Simple operation
- Low dead weight
- Easy cleaning
- Installation of infrared lamps possible

Piglets' nest Type D



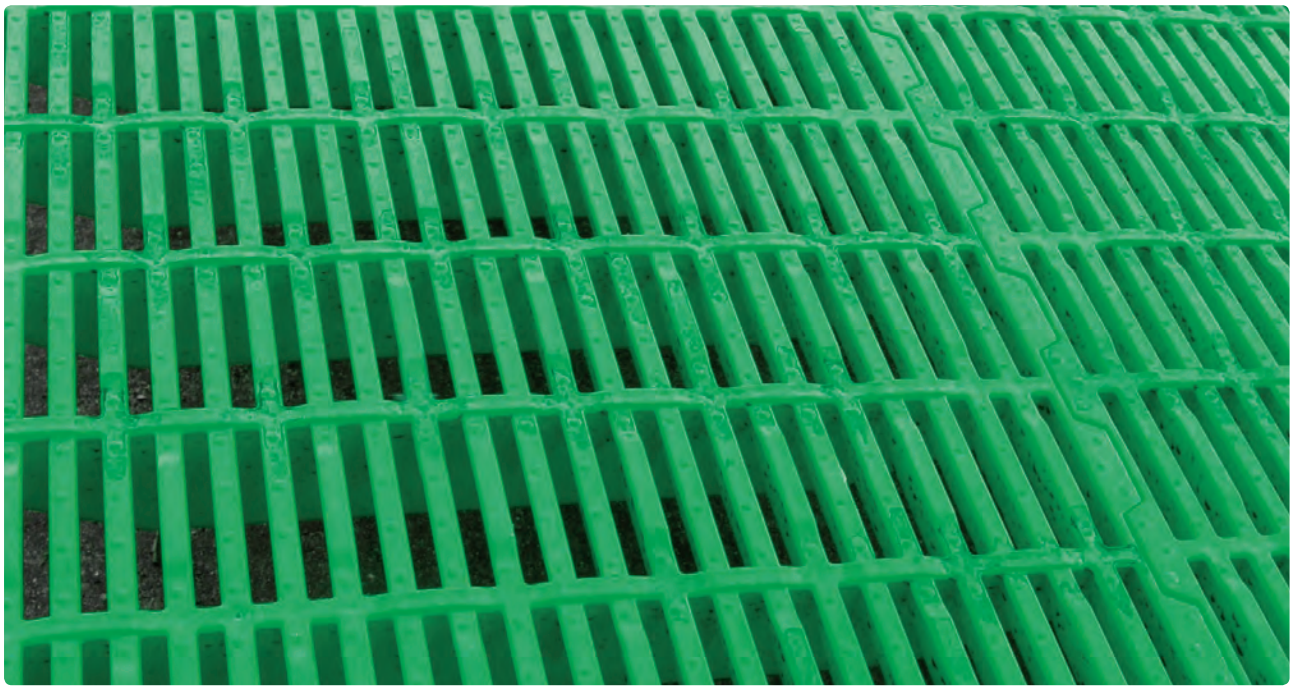
Piglets' nest Type Mobile

The Type D Piglets' nest can simply be folded away, for example during the cleaning of the house.

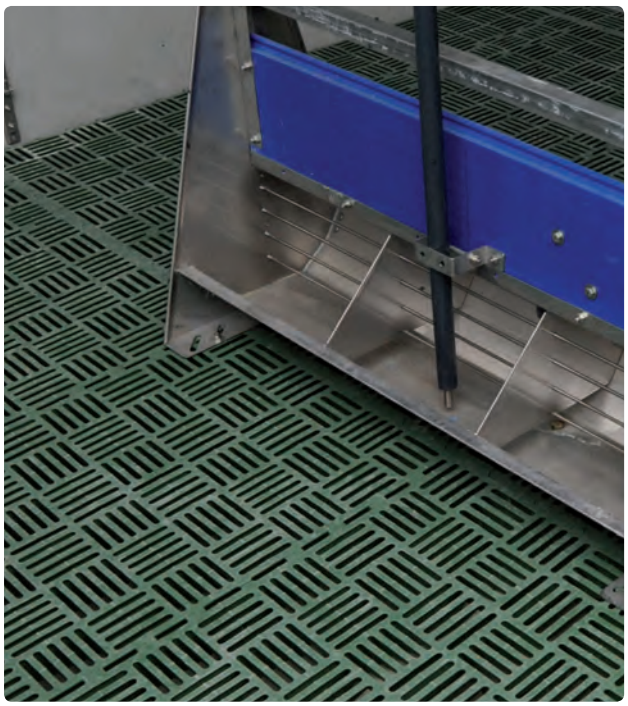
Floor Weaner Raising

Optimal grip for your weaners

Our piglet's grids for the piglet-raising domain offer your piglets positive surefootedness. They are non-slip and can be easily installed and cleaned.



Original Weda Piglets' Grid



Piglet Grid type M1

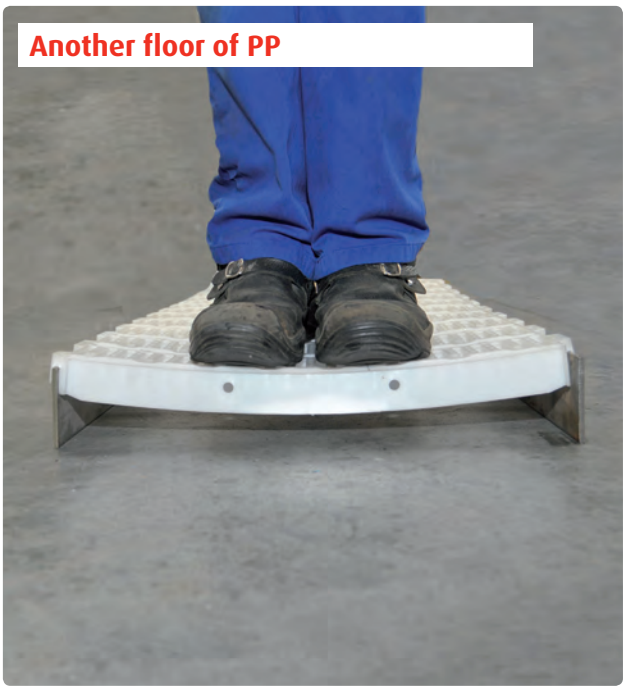
Characteristics

Type M1:

- Unique safety of movement due to surface in checker-board design
- Sophisticated slot / bar arrangement for splendid self-cleaning
- Up to 50% saving potential due to bearer space up to 800mm
- Easy and quick installation

Original Weda Piglet Grid:

- Of highly impact resistant plastic (PP) and therefore very noise-free
- Very animal-friendly as it is soft and flexible but at the same time very robust due to the larger bars
- Cost-effective
- An embossed structure offers firm hold for the animals and reduces the danger of injuries
- High stability
- Available in the colours: green, orange and white



Compared with others floors of PP that are available on the market, the original WEDA floor (picture left) is extremely robust.

Characteristics

Technical Details	Original WEDA floor	Type M1
Dimensions (mm)	500x1.000	600x800 1000x800
Bridge width (mm)	10	10
Slot width (mm)	10	10
Slot Proportion (%)	approx. 40	approx. 40
Burden (kg)	60	60

Piglet warming plates of polymer concrete (heating with warm water), available in the dimensions of:

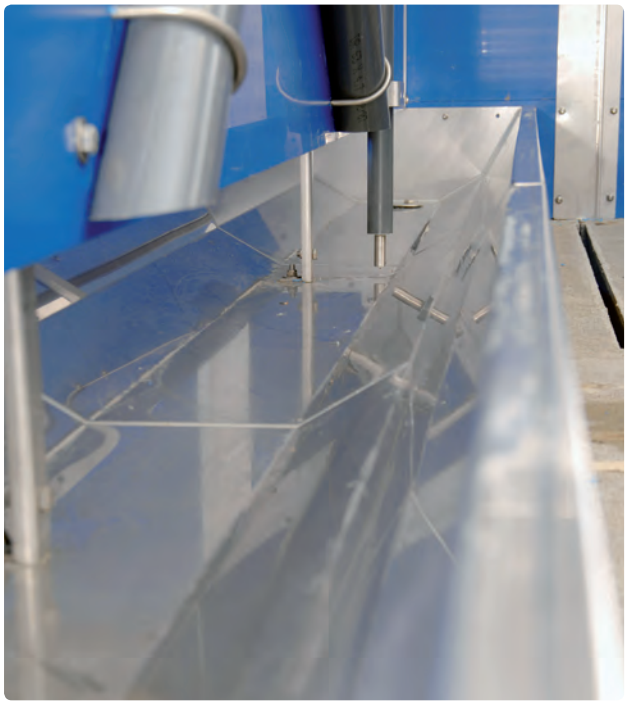
- 1,200x600mm (4-, 3- or 2-sided support)
- 1,200x800mm (4-, 3- or 2-sided support)

High-Grade Steel Troughs

Optimal feed uptake of your animals

The high-grade steel troughs are directly screwed into a U-profile together with the separating walls of the pens. This way, secure support of the troughs at the separating walls is guaranteed.

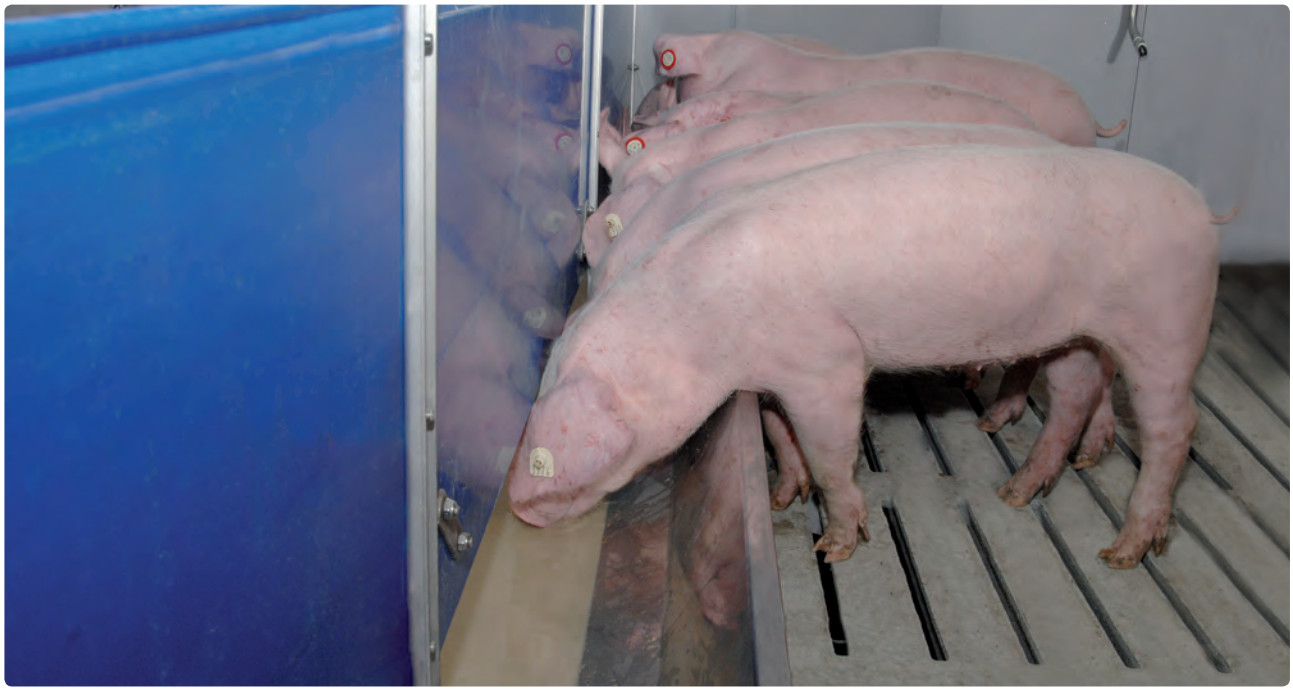
The troughs are completely manufactured and preassembled by Weda. This enables fast assembly on-site.



High-grade steel long-trough

Characteristics

- Highest degree of hygiene security
- No sharp edges in order to prevent injuries
- For an increase of life-span not welded but screwed together, resp. rivetted
- Steel thickness: 1.5mm / Sows: 2mm
- Deliverable in all lengths and with or without stepping edge
- Available as individual or double troughs
- Production project-oriented (length, amount of feeding place partitions, etc.)
- Manufactured at Weda's, troughs only have to be screwed onto floor on-site.
- Special equipment with feeding place partition or central partition possible
- On demand, e.g., in the case of sensor troughs in partition wall, furnished with short U-profiles
- Troughs can be fastened to the floor at every metre, directly or by means of trough fastening lug
- All troughs can also be delivered with trough draining
- Height adjustment possible



Weda troughs have no sharp edges in order to prevent the animals from harm.

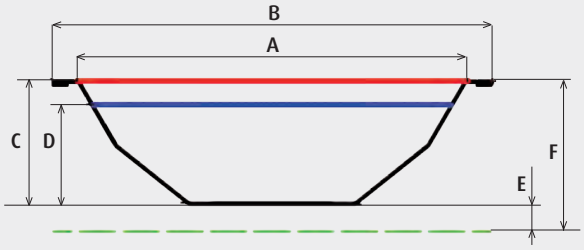
By means of trough draining the troughs can be emptied without any problems.

The screw-connection of troughs and pen-walls to the slatted floors ensures firm support.

High-Grade Steel Troughs

Something for everybody

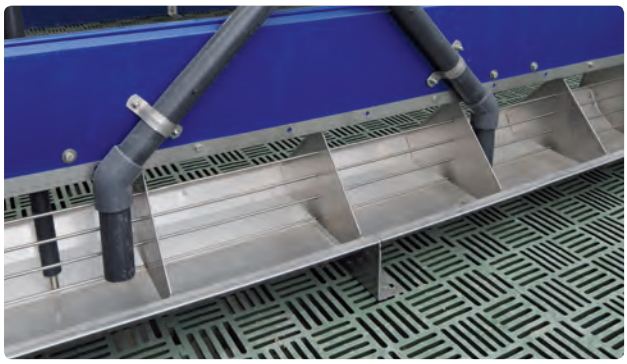
Our product portfolio comprises a variety of different troughs for any kind of demand. In the following we would like to give you a brief overview of our high-grade steel troughs.



Maximal filling level

Recommended filling level

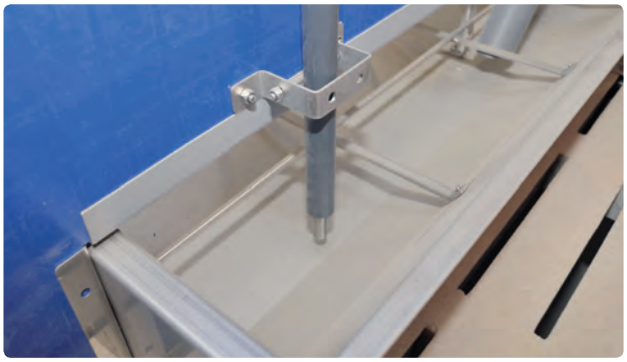
House floor



Probe trough piglets with grid

Probe trough piglets

Long trough Fattening

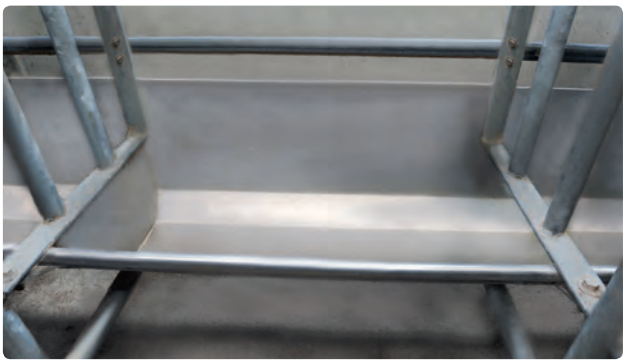


Probe trough Fattening

Individual trough Sows

Double trough Sows

Trough Feeding / Resting Pen A



Trough Feeding / Resting Pen B

Trough Farrowing Cage (swivelling)

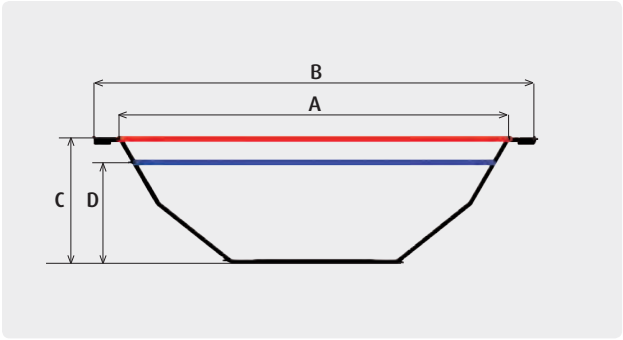
Trough Farrowing Cage

Technical Data of high-grade steel troughs	Measure A (mm)	Measure B (mm)	Measure C (mm)	Measure D (mm)	Measure E (mm)	Measure F (mm)	Maximal Filling Level	Recommended Filling Level
Piglets:								
Probe trough Piglets with grid	330	375.6	103.5	83.5	23	128	26.0 ltr./m	19.8 ltr./m
Probe trough Piglets	330	375.6	103.5	83.5	23	128	26.0 ltr./m	19.8 ltr./m
Fattening:								
Long-trough Fattening	470	522.6	173.5	153.5	34.5	209.5	61.7 ltr./m	52.2 ltr./m
Probe trough Fattening	470	522.6	173.5	153.5	209.5	209.5	61.7 ltr./m	52.2 ltr./m
Sows:								
Individual trough Sows	310	335.3	173.5	153.5	142.5	318.5	43.8 ltr./m	37.8 ltr./m
Double trough Sows	660	705.5	172.5	152.5	143	317.5	94.0 ltr./m	81.5 ltr./m
Trough Feeding / Resting Pen A	346.5	379.6	165	145	---	---	40.5 ltr./m	33.8 ltr./m
Trough Feeding / Resting Pen B	279.5	301.3	153	133	---	---	35.0 ltr./m	29.3 ltr./m
Trough farrowing cage (swivellable)	327.7	350.7	174.5	154.5	---	---	24.8 ltr.	21.2 ltr.
Trough farrowing cage	338	360	175	---	---	---	20.0 ltr.	---

Troughs

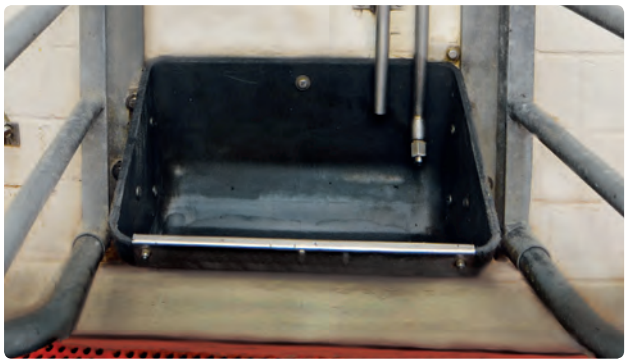
The proper trough for any demand

Our product portfolio embraces a variety of different troughs for any kind of demand. In the following we would like to give you a brief overview of our troughs of PVC and polymer concrete.

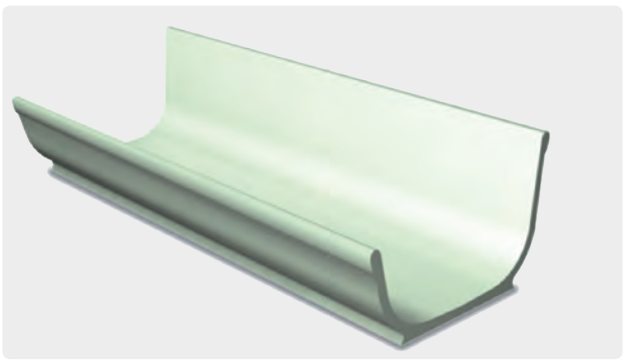


Maximal Filling Level

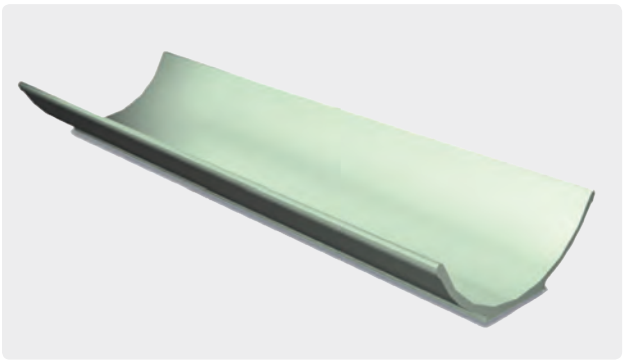
Recommended Filling Level



Trough Farrowing Cage PVC



Individual Trough Polymer Concrete

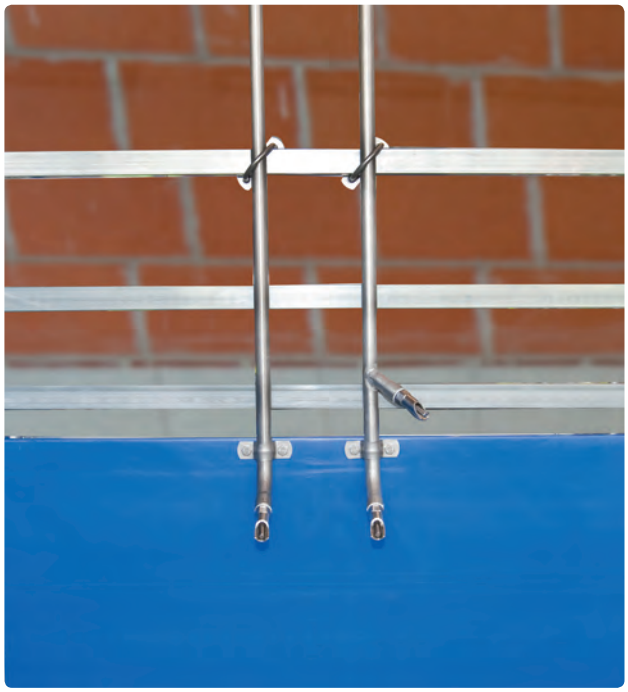


Double Trough Polymer Concrete

Technical data of troughs made of PVC and polymer concrete	Measure A (mm)	Measure B (mm)	Measure C (mm)	Measure D (mm)	Maximal filling level	Recommended filling level
PVC:						
Trough farrowing cage	338.3	358.2	162	---	20 ltr	---
Polymer concrete:						
Individual trough	350	390	170 / 250	150	45 ltr./m	40 ltr./m
Double trough	474	520	183	175	56 ltr./m	50 ltr./m

The Suitable Drinker for Every House

With the help of Weda drinkers, your animals will always be supplied with the optimal amount of water. Here, you can choose between different drinker systems and you will therefore always have the appropriate drinker for your house.



Drinker Pipe Set 4 with one outflow and Drinker Pipe Set 2 with two outflows

Drinker Pipe Set 6

Characteristics

- Systems with basins for piglets, sows, and fattening
- Nipple drinkers and biters of high-grade steel in different sizes:
  - piglets: 3/8“ - 1/2“
  - sows/fattening: 1/2“
  - sows: 3/4“
- High-grade steel pipes for drinker basins and biters in different lengths of 100 mm to 380 mm
- Pipes with and without welded lugs for wall fastening available

Circuit pipe for three drinkers

Manipulable Material

The Prescription Against Boredom

In accordance with the law, each pig has to be able to have access to occupation materials at any time. These materials have to be harmless and the animals have to be able to inspect, move and change the material.

The toy can be moved about on different levels and therefore offers a high degree of occupation.

If required, the Weda toys can be locked, e.g., in order to prevent injuries during housing in or stalling out.

Plastic rubbing post with toys

Characteristics Manipulable Material with Chain

- Can be examined, moved about and modified
- Occupation material reduces negative behaviour (e.g., idle chewing or tail-biting and ear-biting)
- Positive effect on wellbeing and animal health and therefore reduction of health-related production losses
- The toy holders can also be equipped with wood or ropes

The rooting cone can be used by the animals whilst standing up but also during lying down and sitting.

Characteristics

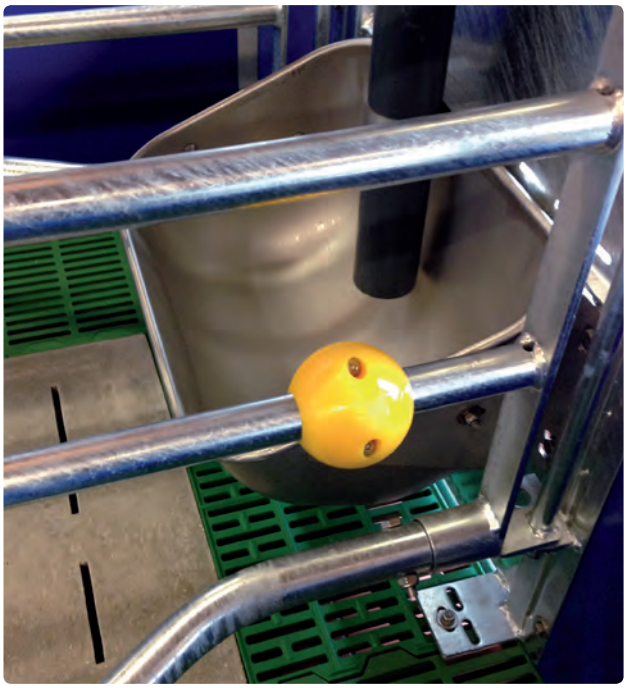
- Robust and hygienic
- Reduces tail biting
- Improves animal wellbeing
- Cost effective
- Animals can live out their natural rooting instinct
- Clearly ensures more peace inside the pig house than the classical chain and ball.
- Ball diameter for piglets: 60mm, 80mm

Manipulable Material

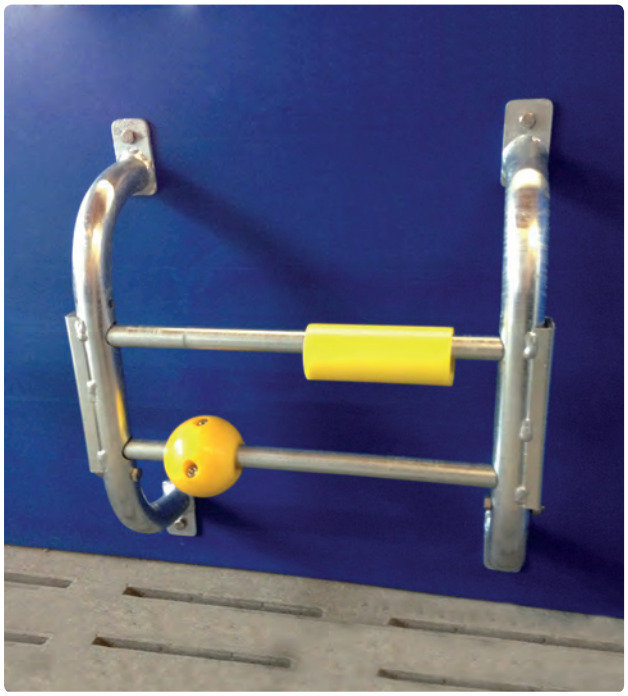
Entertainment for Sows

Our pushing balls have an outside diameter of 90mm. The inside diameter is 3/4" or 1". Due to this, the pushing balls can be mounted to the pipes of the farrowing cages and to the feeding / resting pens in an easy way, interoperable between manufacturers.

Pushing ball in the feeding / resting pen



Pushing ball in the farrowing cage



Toy bracket rooting bar mounted to pen wall

Characteristics Pushing Balls

- Made of robust polyurethane
- Simple installation
- No disassembly of house equipment required
- Improves animal wellbeing
- Manufacturer-independent use
- Cost-effective
- Of solid material and therefore especially low-noise, hygienic and robust
- Wide range of placement options
- Wood can be fixed at the toy bracket rooting bar

Notes

Examples of Air Conditioning Units

In the following, we show you some practical examples from air conditioning technology

Door Passage Ventilation

Diffuse Supply Air

Fresh Nose Ventilation

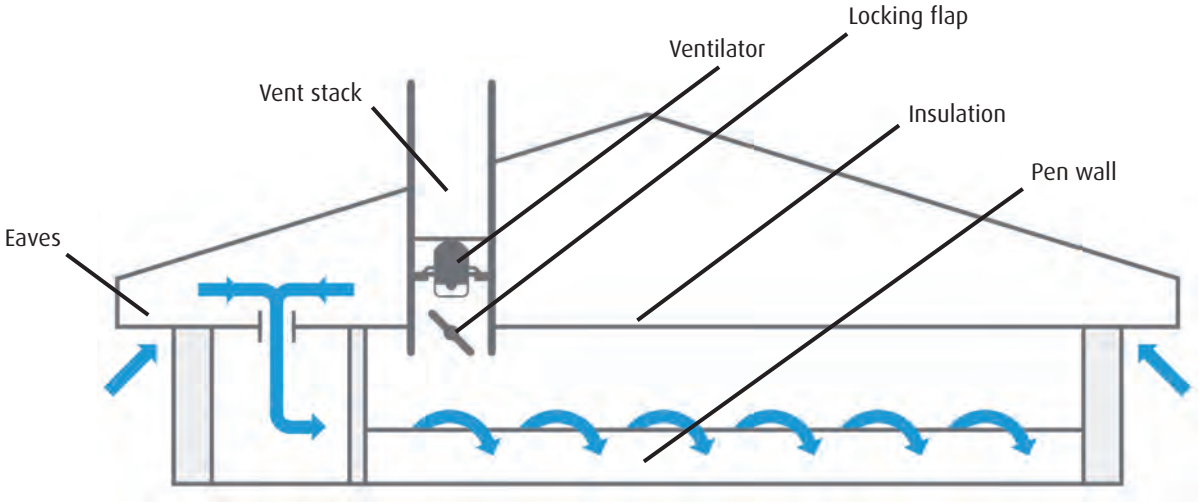
Air Distributor

Ventilation Types

The right kind of ventilation for any animal house

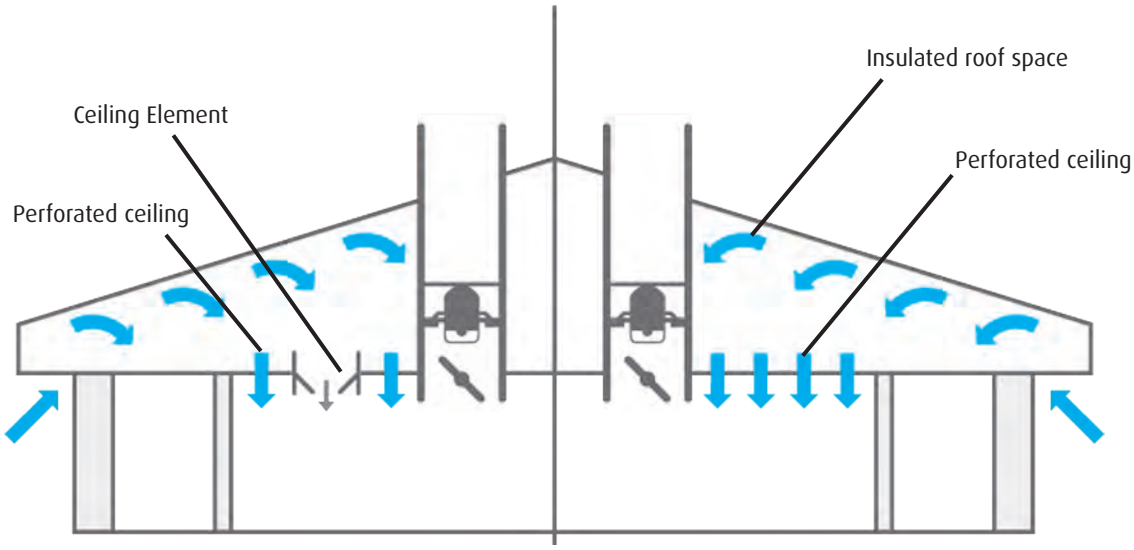
The right kind of ventilation is indispensable for any kind of animal house. In the following we introduce the 4 most essential types of ventilation to you.

Door Passage Ventilation:



Explanation of Door Passage Ventilation:
Via the eaves-side the supply air streams into the space underneath the roof and from there – via the central passage – to the division. From there it streams along the feed passage over the pen walls to the animal.
Precondition for this kind of ventilation is a 1m high, passage-side closed pen. The door passage ventilation is especially well suited for smaller divisions with a maximal division depth of approx. 15m and a pen depth of approx. 4.5m.

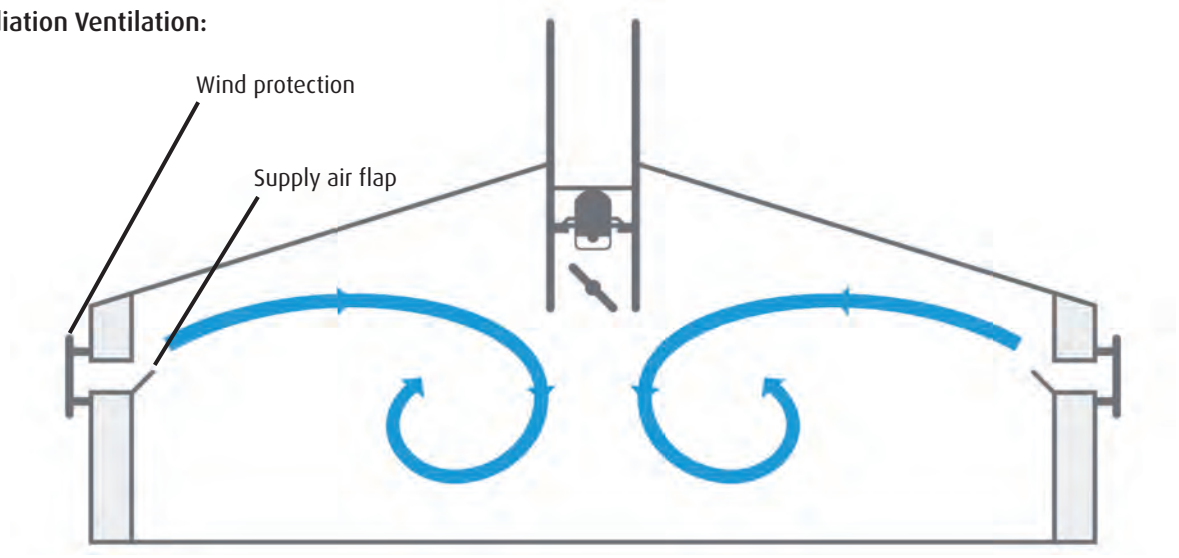
Diffuse and Combi-Diffuse



Explanation of Diffuse Supply Air and Combination of Diffuse Supply Air with Ceiling Element:
Diffuse supply air (right side of drawing): The supply air reaches via the eave side into the insulated ceiling space. Via the perforated ceiling it streams from there into the division to the animal. This kind of ventilation ensures even air distribution.

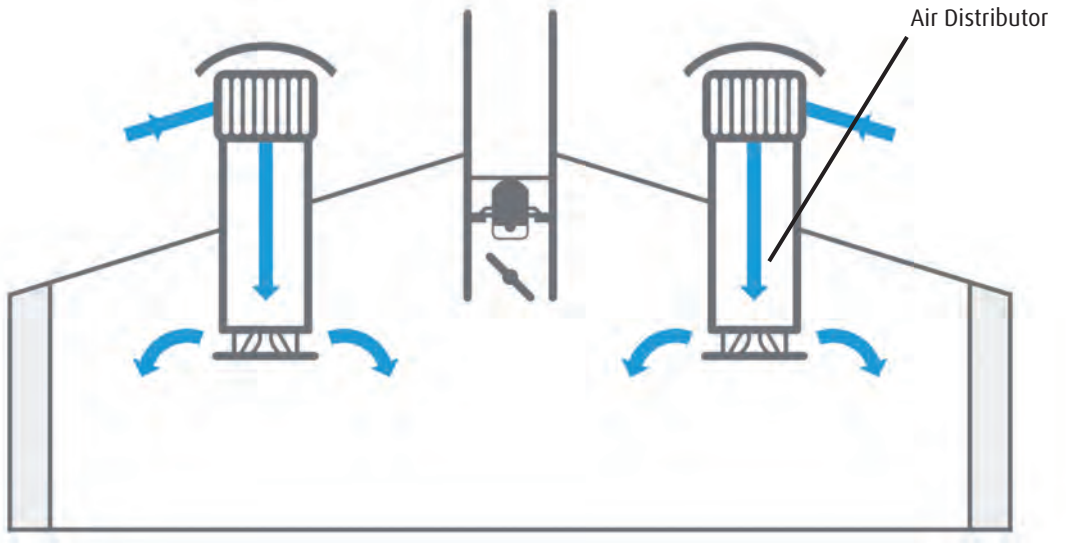
Combination Diffuse Supply Air with Ceiling Element (left page of drawing): Functions in the same way as the system of diffuse supply air. Due to the additional ceiling element, however, the air flow can be increased during the summer. Consequently, a more favourable covering of the supply air rate in summer thresholds as also in winter is possible at such times.

Radiation Ventilation:



Explanation of Radiation Ventilation with Supply Air Flaps:
The fresh air gets into the division via the supply air elements which are installed into the side walls. Here, the supply air elements are controlled by a climate control computer which adapts the position of the flaps in such a way that the necessary speed of the incoming air is reached. The maximal permeation depth of this type of ventilation ranges at about 12m (one-sided). The radiation ventilation is suitable for use in the fattening section and in the non-gestation waiting area.

Air Distributor:



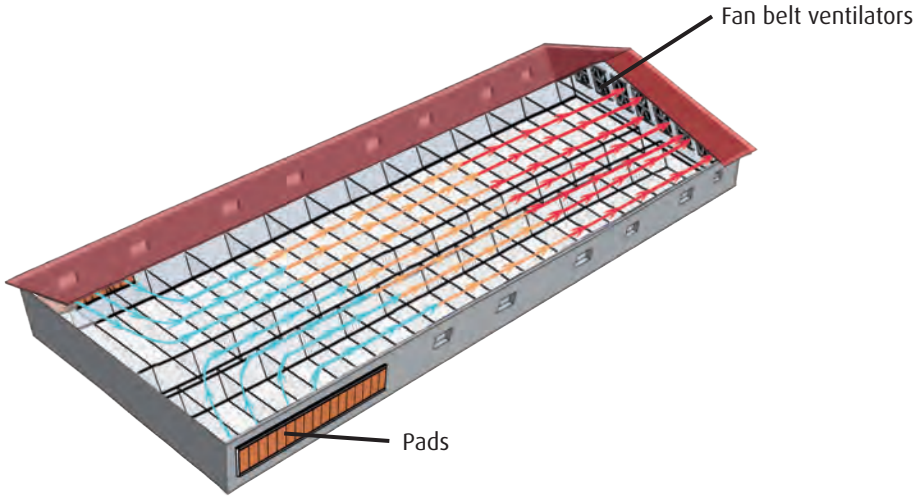
Explanation of ventilation with Air Distributor:
With this kind of ventilation the incoming air streams into the division via air distributor. Based on the specially shaped nozzles underneath the air distributor the fresh air is evenly spread within the division.
Especially suited for the employ in monoblocks.

Ventilation Types

Tunnel Ventilation

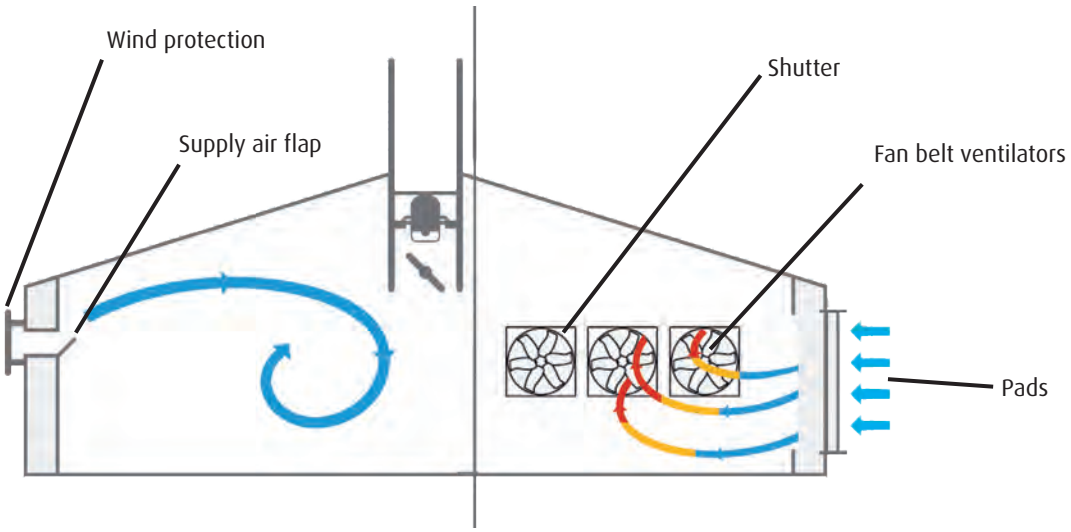
Tunnel ventilation is used in countries with very high outside temperatures. In the Combined Tunnel Ventilation, only tunnel ventilation is applied under high outside temperatures; the radiation ventilation, however, is used in conditions of low temperatures.

Tunnel Ventilation:



Explanation of Tunnel Ventilation:
Tunnel ventilation takes place by means of a Pad Climate System. Fan belt ventilators at the back of the house extract the warm air from the outside through pads, which are installed at the side of the house. The pads, saturated with water, cool the warm outside air by evaporation of the moisture.

Combined Tunnel Ventilation with Ceiling Elements or Wall Valves:



Explanation of Combined Tunnel Ventilation with Ceiling Elements or Wall Valves:
By means of this kind of ventilation, two systems are employed: tunnel ventilation (see above) and high-velocity ventilation (see page 171). In summer, the ceiling elements / wall valves are closed and the house is provided with fresh air by means of the tunnel ventilaton. In winter, when temperatures are lower, the shutters in front of the ventilators are closed, the ceiling elements / wall valves are opened, and the house is ventilated by means of the radiation ventilation.

Climate Controls

Fresh air inside your animal house

Our climate controls reliably regulate the climate inside the divisions of your animal house. The temperature inside the house as well as the ventilation degree can be read at a glance.

Characteristics of CBA and CB

- Simple handling
- Ventilation and temperature at a glance
- Temperature and ventilation graphs
- Climate graph for 4 inflexion points
- Min. & max. temperature alarm

Technical Specifications	CBA-2006	CBA-2012	CB-3000
Divisions	1	1	1
Temperature sensors	2	2	4
Sensor for outside temperature	+	+	+
Connection AQC-flaps	+	+	+
24V Voltage for AQC-flaps	+	+	+
Relay output for heating	+	+	+
Relay output for second heating or second ventilator	+	+	+
0-10V outlet for inlet flaps	+ 1 group	+ 1 group	+ 2 groups
0-10V outlet for heating	-	-	+
0-10V outlet for cooling	-	-	+
Disturbance relay 24V	+	+	+
Expansion possibilities of outlets	-	-	+
Growth curves	+	+	+
PC coupling	+	+	+
Coupling with Excellent 4PX	+	+	+

Climate Controls

Optimal ventilation

Our climate controls are equipped with a large display with easily comprehendable symbols; their handling is easy and intuitive.

Characteristics of KL

- Simple handling due to large display with comprehensible symbols
- Graphical display shows current situation inside the house
- Adjustable growth curves provide an adaptation of the climate to the age of the animals
- Central extraction by suction with frequency regulator or step regulation
- Up to 60% of energy saving with ECOVENT system
- Exact climate regulation by means of AQC-unit
- Central regulation functions for ventilation and heating
- Regulation for heat exchangers
- Module extension via ST-BUS
- Regulation for radiant heating

Technical Specifications	KL-6002	KL-6005	KL-6010
Divisions	2	5	10
Temperature sensors	10	12	12
Measuring fan inputs	4	5	10
0-10V Inputs	5	-	-
0-10V Outlets	12	12	22
Relay outlet 230 Vac, max. 2 Ampère	-	-	2
Switched outputs 24 Vac	6	10	10
24V Voltage for AQC-flaps	4	5	10
12 Vdc for measuring fan	4	5	10
ST-Bus for communication with external modules	1	1	1
Disturbance relay 24V	1	1	1
Expansion possibilities of outlets via OTI 5 - board - 5 temperature sensors - 5 outlets 0-10V - 5 inlets 0-10V	-	+	+
Growth curves	+	+	+
PC coupling	+	+	+
Coupling with Excellent 4PX	+	+	+

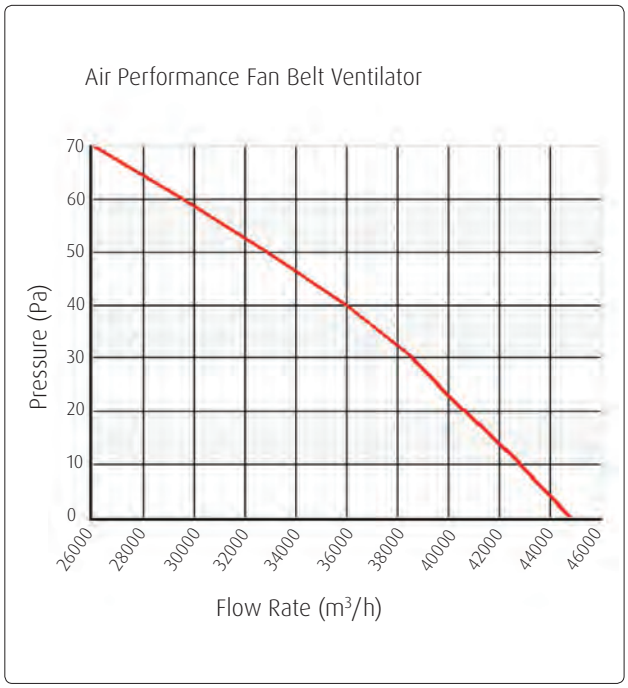
Fan Belt Ventilators

Perfect for tunnel ventilation

Our fan belt ventilators are perfectly suited for the use in houses with tunnel ventilation. They provide highest air performance with simultaneous low acquisition costs and therefore operate very economically.

Characteristics

- Of galvanized plate
- In accordance with EU directives (ErPL 2015)
- Ready assembled or available in individual parts
- Minimal ventilation losses
- High air flow with minimal expenditure (44,700m³/h at 0 Pa)
- Low energy requirements (33.6 W/1000m³/h)
- Fan blades are of a special shape, which enables a maximum of ventilation performance
- European motors
- Low-noise due to fan belt drive
- Long-life
- Robust and easy to clean
- Optional: can be furnished with a cone for increasing performance and for simultaneous lowering of energy consumption.



Version with a cone

Ventilators

Good climate for your animals

With the aid of our reliable ventilators you always ensure a positive climate inside your animal house.

Characteristics

- Very low energy consumption
- Minimal noise level
- High operational performance
- One-phase and three-phase ventilators
- Controllable via transformator, triac (phase angle control) or frequency converter
- Available in any commercial size

Ventilator	Air performance (m^3/h)
230V FC035 - FE091	3,200 - 21,500
400V FC040 - E1250	4,600 - 45,500

Air Regulation Unit AQC

Reliable ventilation regulation for your unit

The air regulation unit AQC is mounted underneath the ventilator; it measures the air flow and reports this to the climate controller inside the animal house. This way, energy-optimized ventilation becomes possible.

Characteristics

- As measuring and regulation unit applicable in central waste-air systems or underneath ventilation shafts
- Consisting of measuring ventilator, sealing flap and servo motor
- Servo motor: 2 Watt, 24V.ac (DC)
- Regulation from an air speed of 0.3m/sec onwards possible
- Very good aerodynamic properties of the measuring fan
- Two-fold regulation flap enables reliable ventilation regulation

AQC-Unit	Diameter (mm)	Minimum (cbm)	AQC-Unit	Diameter (mm)	Minimum (cbm)
AQC-30	300	95	AQC-56	560	350
AQC-35	350	134	AQC-63	630	435
AQC-40	400	175	AQC-71	710	565
AQC-45	450	220	AQC-82	820	730
AQC-50	500	280	AQC-92	920	940

Exhaust Air Pipes

We're letting the air out

Our exhaust air pipes, certified by the DLG (German Agricultural Association), ensure transportation of exhaust air via the roof to the outside and are state-of-the-art constructions. The particular design prevents condensation water at the exhaust air pipes walls and reduces sound emissions.

Characteristics

- Made of CFC free, highly insulating rigid foam with resistant external coating of fibreglass composite. Internal coating optional of fibreglass composite
- Appropriate exhaust air pipes available for any kind of customary ventilator
- Diffusor ensures almost loss-free streaming out of waste air
- Due to their shape which is bent outwards, the intake nozzles offer less resistance area and clearly reduce the energy input for the ventilator
- The optionally available sealing flaps prevent unintentional escape of the warm air from the house

Special Construction „Vario-clip®"

- Half-shells are „clipped in" without additional cable ties or pipe clamps by means of a PVC profile.
- Lower transport volume as stackable into each other, therefore space-saving of up to 50%
- Suitable module sealing flaps with integrated measuring ventilator
- Large inflow nozzles for adhering, for all diameters
- Hanging in of the complete waste air unit possible without additional time and effort

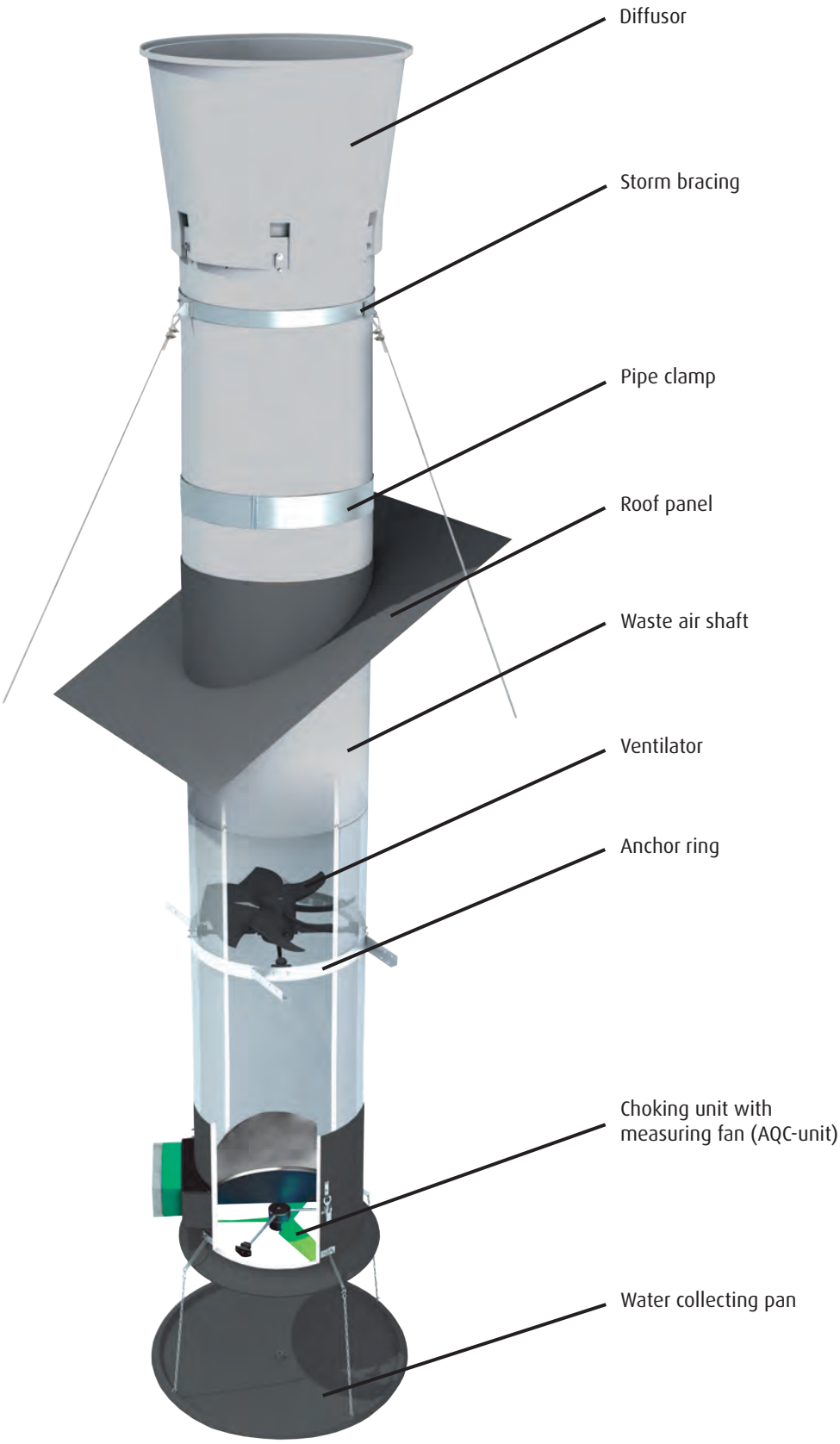
Roofings

- Ensure optimal sealing of the contact point of roof and ventilating system
- In the variation "Universal" (adhesion between pipe, roof area and roof sheeting by means of special contact adhesive).

Vario-clip®

Exhaust Air Pipes

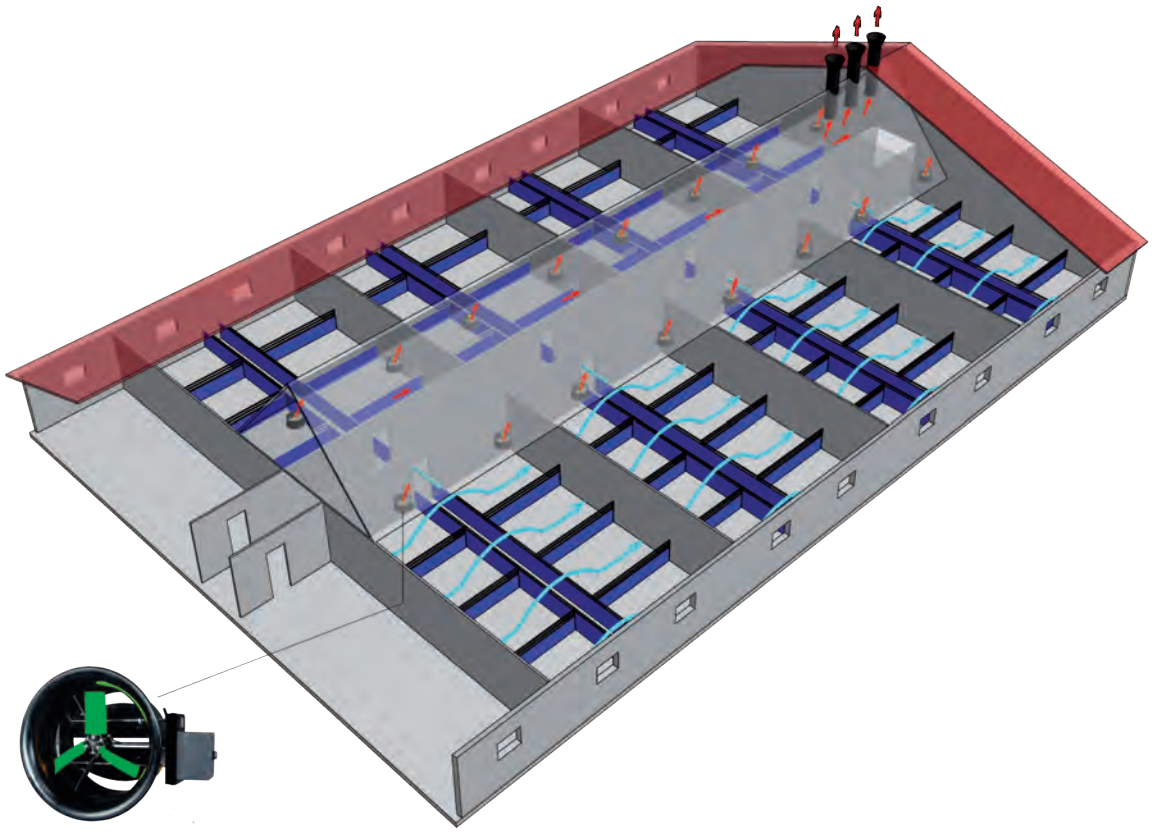
Profile of a exhaust air pipe



Central Vacuum Device

Energy optimized ventilation at any time

The waste air from the divisions is led off into the central extraction channel via suction points. The waste air collected there will then in turn be extracted again at a central point and is then transported to the outside.



Characteristics

» Energy optimized ventilation
» Saving of energy costs
» Connection to waste air cleaning unit possible
» Relocation of emission point
» House roof is not obstructed by numerous exhaust air pipes

Trickle Covers

Always fresh air inside the house

Via ventilation openings at the outside of the animal house fresh air gets into the ventilation shaft or into the central passage. There, the air is transported to the divisions via ventilation openings and is then given off into the house by means of the trickle covers.

Characteristics

- Of expanded PS rigid foam, coated or uncoated
- Smooth, easy to clean surface, milled with conic, flow-optimized holes
- Air capacity at standard perforation: 250m³/m²/h (at 10 Pa differential pressure)
- Partly perforated over the entire width of the elements as well as air capacities of 100m³/m²/h to 350m³/m²/h.
- Max. free span: 1.25m
- Avoidance of draught and cold air in the area of the animals
- Even distribution of the incoming air
- Available in material thicknesses of 24, 25, and 30mm

Trapeze Trickle Covers

The ideal ceiling and wall covering for your animal house

Trapeze trickle covers are slotted, profiled, fibreglass reinforced polyester plates. Backed with mineral wool, they enable optimal ventilation inside the house.

Characteristics

- Perforated with approx. 3mm wide slots
- Free area: approx. 5%
- Even and very favourable distribution of air even in non-subdivided divisions
- Max. free span length (size: 0.9mm): 1.25m
- Max. free span length (size: 1.5mm): 2.50m
- Due to the hard and smooth surfaces problem-free cleaning with high-pressure devices

Aluminium Ceilings

The proven solution for units with increased fire protection requirements

The aluminium ceiling is perfectly suited for units with increased fire protection requirements because it is non-flammable. At the same time, the aluminium ceiling has a brightening effect on the rooms.

Characteristics

- Non-flammable and easy to clean
- Slot width 3mm
- Opened area: approx. 5%
- Max. free span: 1.25m
- Illuminates house
- Consistent distribution of air
- Suitable for non-subdivided compartments
- Dimensions: 1,040 x 5,100mm

Insulated Ceilings

Insulation all the way

By means of our insulated ceilings, the ceilings inside the pig-house are easily and safely insulated so that the warm air remains inside the house as long as possible.

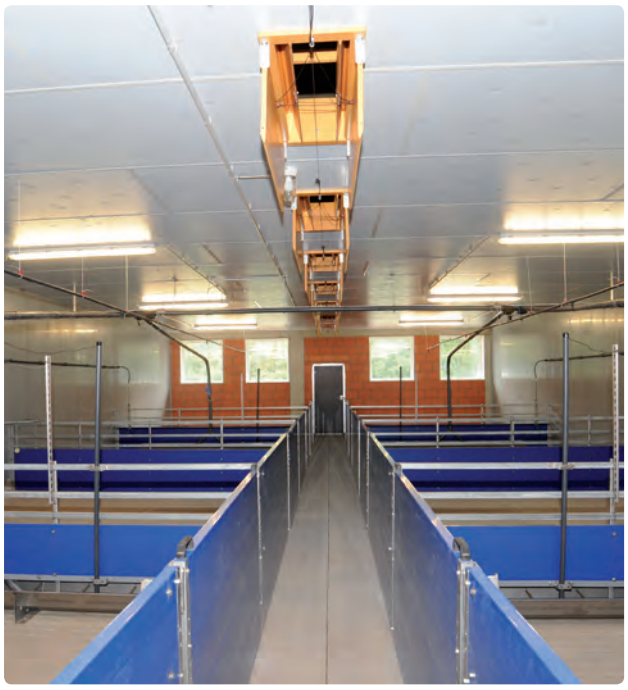
Characteristics

- On the outside PVC or Aluminium coated on both sides
- Styrofoam kernel
- Unperforated
- Smooth surface and therefore easy to clean
- Available in thicknesses of 40, 60 and 80mm
- Dimensions: 1,200x1,500mm, 1,200x2,000mm, 1,200x2,500mm, 1,200x3,000mm

Ceiling Air Inlet Elements ZED 1000 / ZED 1500 / ZED 5000

Fresh air at any time

The ceiling air inlet elements ZED 1000, ZED 1500 and ZED 5000 can be problem-free installed into the house ceiling and ensure fresh air inside any animal house.



ZED 1500 double

Characteristics

- Of high-value resistant polyurethane
- Smooth and hard surfaces enable problem-free cleaning
- By means of a regulating set, elements connected via ropes can be opened and closed with a time lag
- Bearing of flap takes place at the sides and is low wear and functionally reliable
- Almost loss-free inflow of fresh air
- Broad frame makes installation easier

Type	Width* (mm)	Height* (mm)
ZED 1000	535	240
ZED 1500	780	210
ZED 1500 (double)	790	590
ZED 5000	1,170	310

* Internal dimension

Details Regarding Flow Rate (FR)

Type	FR at 10 Pa (cbm/h)	FR at 20 Pa (cbm/h)	FR at 30 Pa (cbm/h)	FR at 40 Pa (cbm/h)
ZED 1000	900	1,300	1,600	1,900
ZED 1500	1,200	1,800	2,200	2,600
ZED 1500 (double)	2,600	3,800	4,500	5,300
ZED 5000	3,800	5,500	6,800	7,900

Wall Air Inlet Elements

Precise and easy

The wall elements for incoming air enable precise inlet air passage. Further, the valves are suited for any kind of animal and installation type.

Characteristics

- Made of CFC-free, robust, PU-reinforced integral foam
- Various issues and dimensions
- Higher insulation value and therefore reduction of condensation water
- Design low in pressure losses
- Simple assembly
- Surfaces easy to clean

Type	Width* (mm)	Height* (mm)
ZEW 1500	505	300
ZEW 2500	814	300
ZEW 5000	1,184	295

* Internal dimension

Details Regarding Flow Rate (FR)

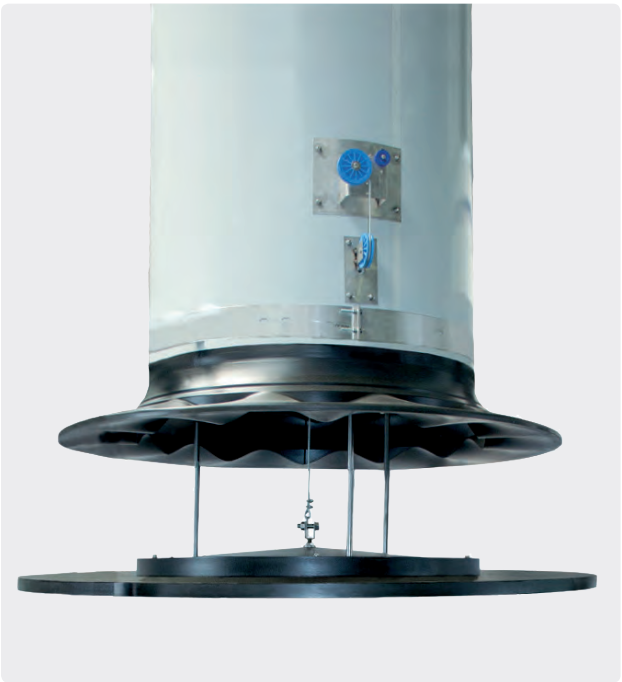
Type	FR at 10 Pa (cbm/h)	FR at 20 Pa (cbm/h)	FR at 30 Pa (cbm/h)	FR at 40 Pa (cbm/h)
ZEW 1500	1,500	2,200	2,800	3,200
ZEW 2500	2,500	3,500	4,300	4,900
ZEW 5000	3,900	5,400	6,600	7,600

Air Distributor

Fresh air inside your animal house

The air distributor is installed underneath the house ceiling and this way, fresh air is transported over the roof area into the animal house. The system is very well suited for units with large roof areas and with no possibility of collecting fresh air from the side walls.

ZLV including air circulation distributor



ZLV without air circulation distributor

Characteristics

- Flexible system for any kind of house and animal stock in the dimensions of Ø 650, 730, 820 and 920mm
- Depending on temperature difference and diameter, throwing ranges between 12 and 18m house area possible
- Finest fresh air distribution over a wide distribution radius, also at minimal air-rate
- High system security
- Minimal speed of air in the area of the animals
- Special aerodynamic shape prevents freezing of ventilation openings
- Affixing of a small ventilator at the lower surface of the distributor possible for greater distribution radius
- Protection against penetrating rain by roof cover of ultra-violet stabilized, glass fibre reinforced polyester; including three-piece fastening set of high-grade steel

Details Regarding Flow Rate (FR)*

Type	FR at 10 Pa (cbm/h)	FR at 20 Pa (cbm/h)	FR at 30 Pa (cbm/h)	FR at 40 Pa (cbm/h)
ZLV 650	4,900	6,900	8,500	1,000
ZLV 730	6,100	8,800	10,900	12,700
ZLV 820	7,500	10,900	13,500	15,600
ZLV 920	9,200	13,500	16,900	19,500

*Flow Rate with and without air circulation distributor

Delta Pipe / Twin Pipe

Maximal heat yield inside animal house

The Delta and Twin Pipe allow for a maximum of heat yield inside the house building. The Delta Pipe is installed directly underneath the air inlet channel and thus the incoming fresh air is warmed. The Twin Pipe, installed directly in the resting area, is ideal for supply air via slot ventilation.

Characteristics

- Made of eloxadized aluminium – a very light and splendid heat conductor
- Lowering of energy consumption
- Large surfaces of the pipes enable high heat output: 300 Watt/m (at VL 90°C / RL 70°C)
- No production of CO_2 like e.g. with open warm air blower
- No additional air humidity and better control of room climate
- Reduction of minimal ventilation possible
- Hook-up 3/4"
- Simple assembly

Further characteristics Twin Pipe:

- Direct installation at house wall or as suspension
- Installation in raising section underneath weaner covering possible

Delta Pipe

Fin-Tube Heat Exchanger

Optimal temperature inside the house

Hot water is piped through the build-in aluminium Fin-Tube Heat Exchanger in the barn. The heat is given off to the air in the house and thus the temperature in the barn is increased accordingly.

Characteristics

- Of epoxy-coated aluminium
- Cost saving with growing animal stock
- Waste warmth can be used (e.g. in cogeneration units)
- Pleasant radiation warmth
- No open fireplace and therefore no CO_2 inside the division
- No air movement inside division
- Saving of energy costs
- Approx. 550 Watt/m at ΔT: 60°C
- Lighter and more efficient in comparison to conventional galvanized fin-tubes

Regulator Groups

Optimal regulation of warm temperatures

The regulator groups guarantee even distribution and dosification of the warm water in the individual piglets' nest heatings. Here, the temperature of the heating can be adapted to the requirements of the animals without any problems.

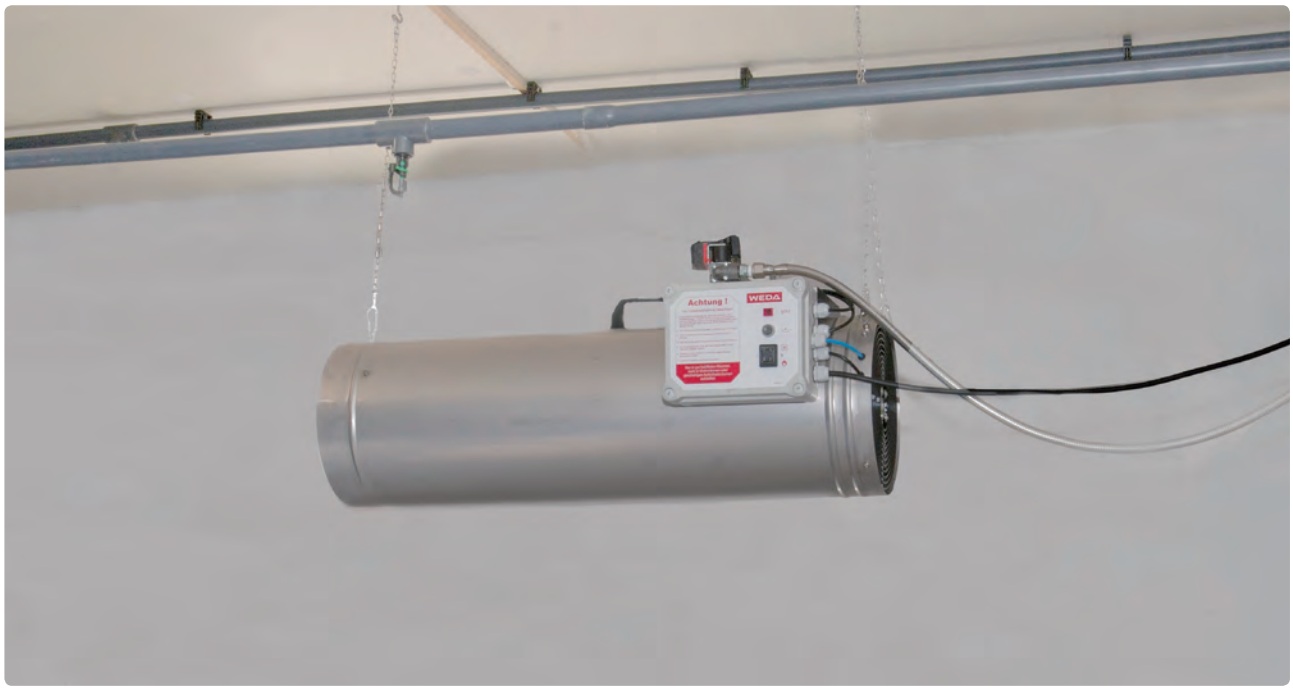
Characteristics

- Integrated thermostat in backflow regulates surface temperature. The temperature can therefore be adapted to the requirements of the animals.
- Housing of the pump of high-quality plastic material, therefore great resistance against sedimentations
- Integrated security switch-off
- Plug-in mounted to plastic plate
- Equipment: ventilation, pressure gauge, thermometer and security thermostat
- Up to 4 circuits with 15mm outlet for max. 6 piglets' nest heatings per circuit

Gas Canons

Full-blast heat

The gas canons placed inside the divisions burn natural gas or liquid gas and by this, generate heat.



Characteristics

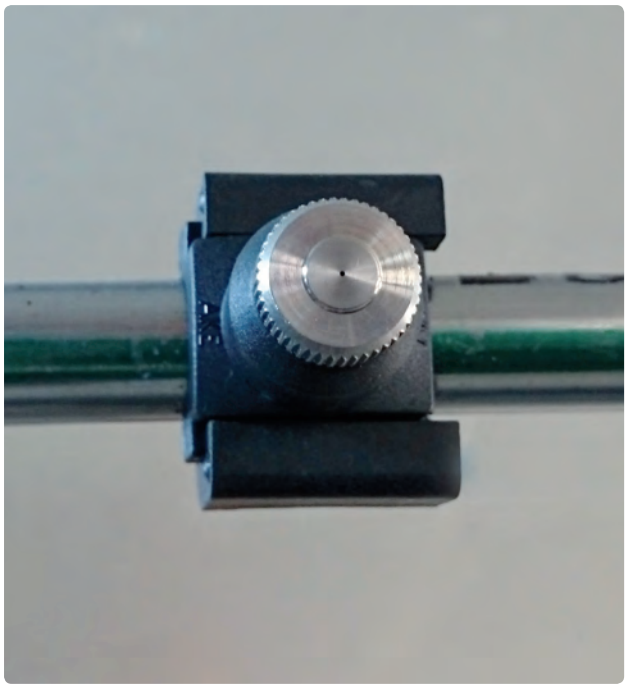
- Operation with natural gas or liquid gas
- Made of high-quality high-grade steel
- Electric ignition and combustion monitoring
- Suspended design
- Connection pressure natural gas: 20mbar, liquid gas: 50mbar
- Simple installation
- Network connection conduct 2.5m
- Problem-free transportation with carrying handle

Technical Details	AGH 20	AGH 40	AGH 80
Heating Capacity (kW)	20	40	80
Gas Consumption Natural Gas (m^3/h)	2	4	8
Gas Consumption Liquid Gas (kg/h)	1.5	3.1	6.3
Air Capacity (m^3/h)	1,000	1,700	4,300
Trajectory Length (m)	12	30	50
Gas Connection (thread nipple in “)	1/2	1/2	1

High Pressure Cooling System

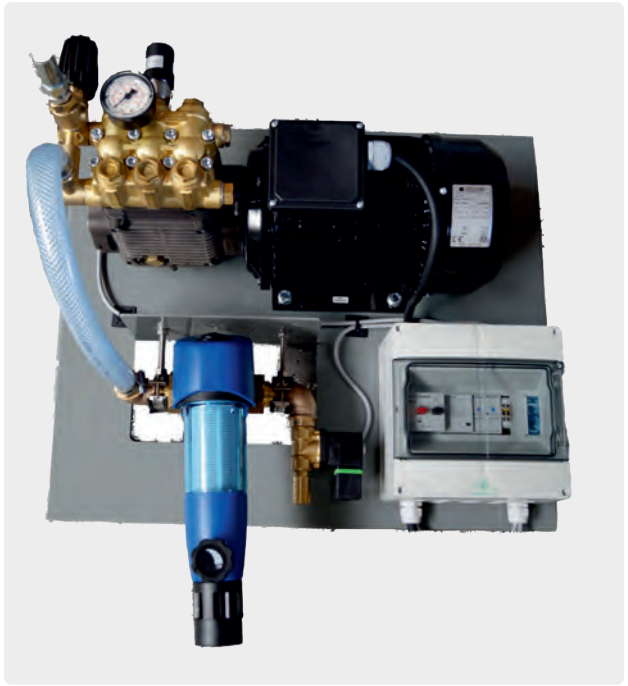
Cooling and soaking at topmost level

Cooling, regulation of air humidity as well as odour reduction and the soaking of the house floor range among the most important tasks of our high-pressure cooling system. Equipped with pump, filter and control unit, the system fulfils highest demands.



Jet nozzle

Control



Compressor

Characteristics

- Cooling down of house temperature by up to 7°C.
- Regulation of relative air humidity (in winter)
- Fly control and house disinfection during fattening phase
- Soaking of the house with only little water
- Odour reduction and degradation of ammonia inside the house
- Depending on house type, nozzles of VA or ceramics available for varying water flow rates
- Each nozzle point freely selectable
- All pumping units equipped with pressure controller, pressure monitoring, pressure gauge, pump frame and hood
- Depending on number of nozzles, pumps are available ranging from 60-2,520ltr./h
- Each control unit can be furnished with several functions (e.g. zero, manual, computer, etc.)
- Central filter unit prevents blockages

Cooling and Soaking Unit

Always Well Soaked

The soaking unit sprays water into the house. The water reliably soaks encrustination and dirt so that both will be easy to remove later within the framework of the manual cleaning process.

Characteristics

- Animal faeces are soaked before cleaning of the house
- Due to soaking the excrements come loose and cleaning is much faster and simpler
- By means of the control, the soaking unit can be operated in intervals
- Control is centrally positioned at the beginning of the animal house

Air Cooler

Simple installation and improved climate

By means of the air cooler, the air temperature inside the house can be cooled down and this way, the house climate can be clearly improved.

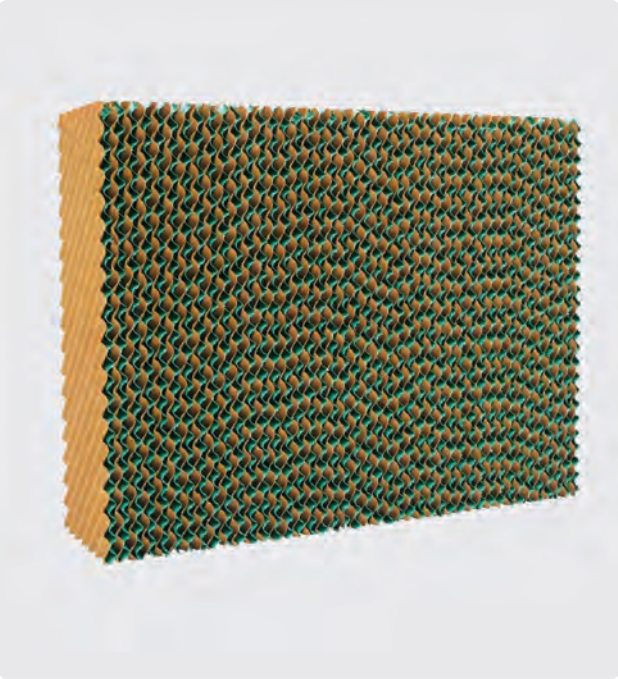
Characteristics

- Longer operation times and lower dimensions compared with customary cellulose pad systems
- Pads of TPE can be taken out; therefore simple cleaning and maintenance
- Insensitive with regard to low quality of water
- Easy to install as already assembled ready-for-installation
- Low flow resistance
- High degree of effectivity
- Water supply by means of customary low pressure circular pumps
- Even atomization also in the case of low water quality by excentric hollow cone nozzles
- Air capacity up to approx. 20,000m³/h

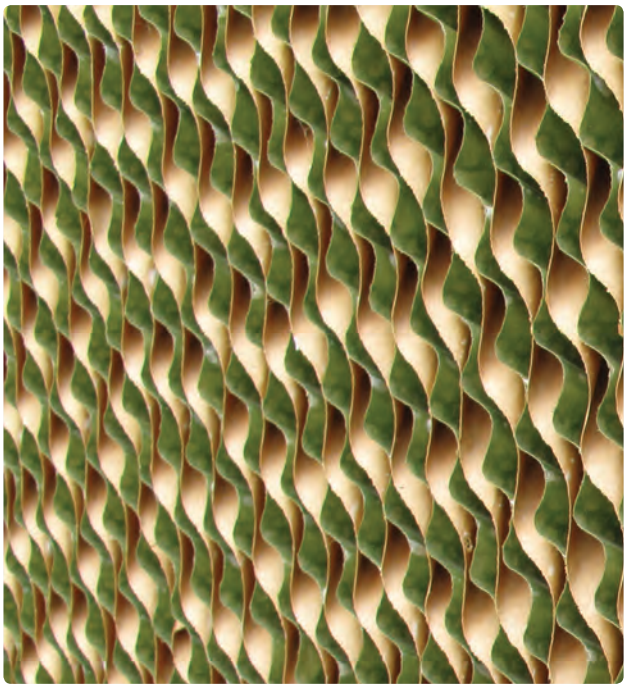
Cellulose Pads for Pad Climate Systems

Effective and kind to the environment

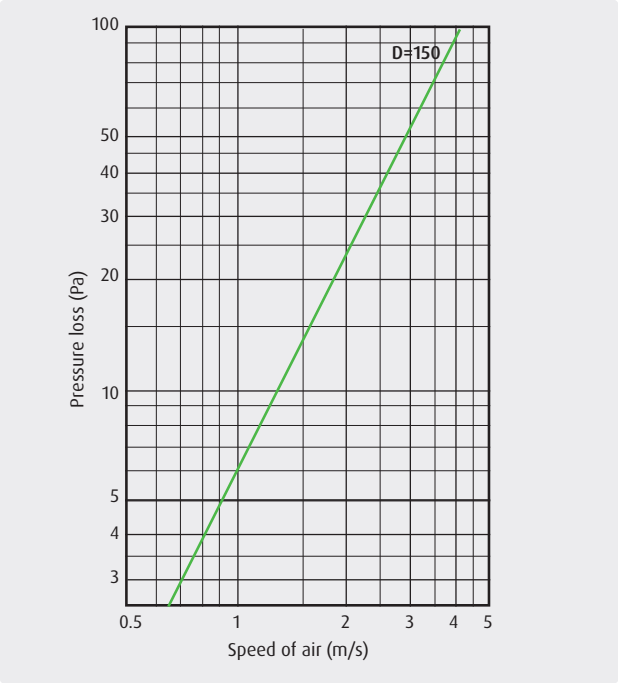
Cellulose pads are used within the framework of tunnel ventilation (cooling by evaporation). In interaction with water, which is conducted to its corrugated surface, they cool the inflowing air by means of evaporation and moisturize it.



Cellulose Pad



Structure of Cellulose Pads



Pressure Loss Cellulose Pad

Characteristics Cellulose Pads

- Made of environmentally friendly cellulose
- Width: 600mm
- Available in thickness of 150mm
- Available in heights of 1000, 1500, 1800, and 2000mm
- Design at 1.5 m/s
- High evaporation performance
- Splendid moisturizing properties
- Lower pressure loss when moist, and thus lower operating costs
- Low encrustation
- Self-cleaning
- Robust and long-lasting
- Low operating costs

Pad climate systems for evaporation cooling

Efficient cooling

In evaporation cooling, pad climate systems are employed in connection with cellulose pads. The pads are fastened inside a rail system and moisturized by a pump.

Pad Climate System

Moisturizing of the pads

Characteristics Pad Climate System

- No additional external energy supply for evaporation required
- Special deflector with integrated water tank in the water channel ensures optimal water distribution on the pads
- High stability
- Easy mounting of pads due to clip profiles
- No external water tank necessary
- No corrosion as all parts are of PVC or high-grade steel
- Water connection possible at the side or centrally

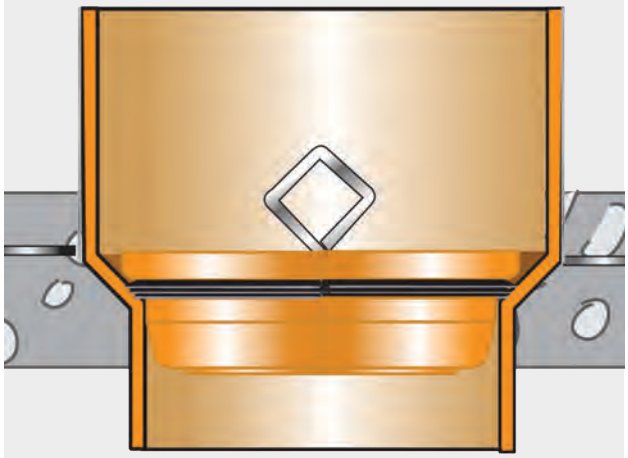
Length of Pad System	Pumps available
12m	1x 230V, 50Hz 1x 230V, 60Hz 3x 400V, 50/60Hz
18m	
24m	

The cellulose pads are fastened inside the rail system

Liquid Manure Pipe Systems

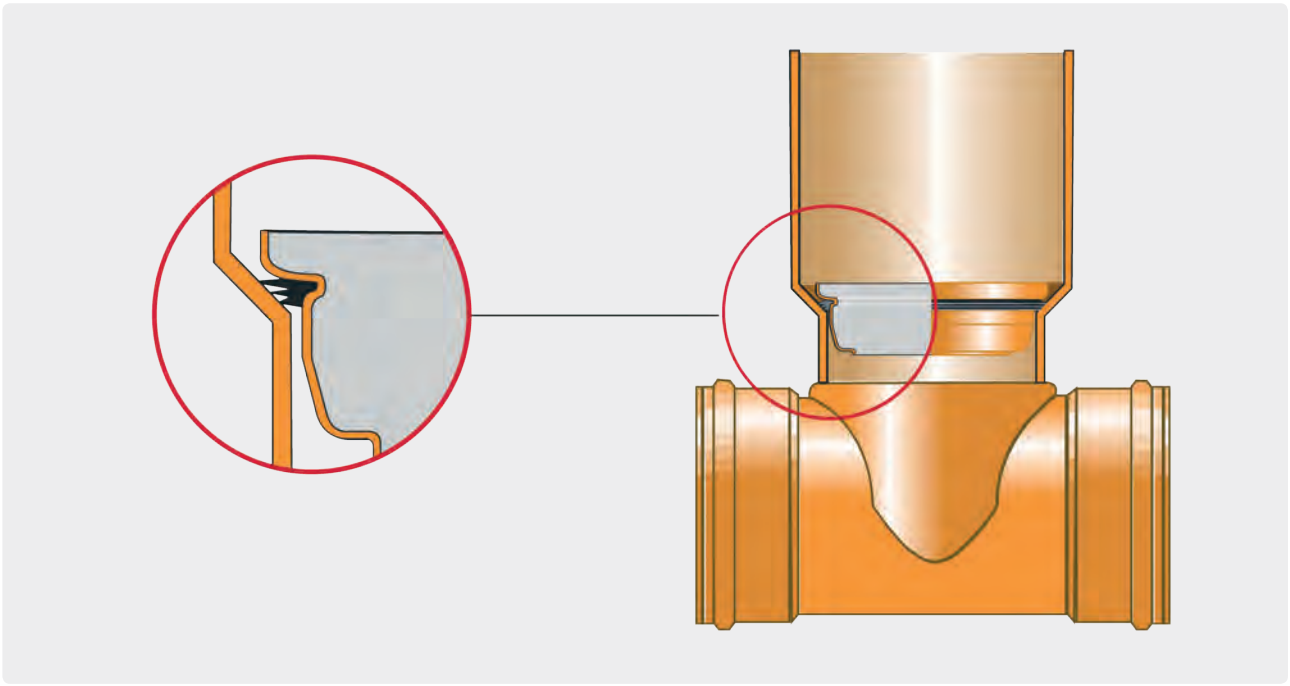
Modern Liquid Manure Pipe Systems with High-Class Technology

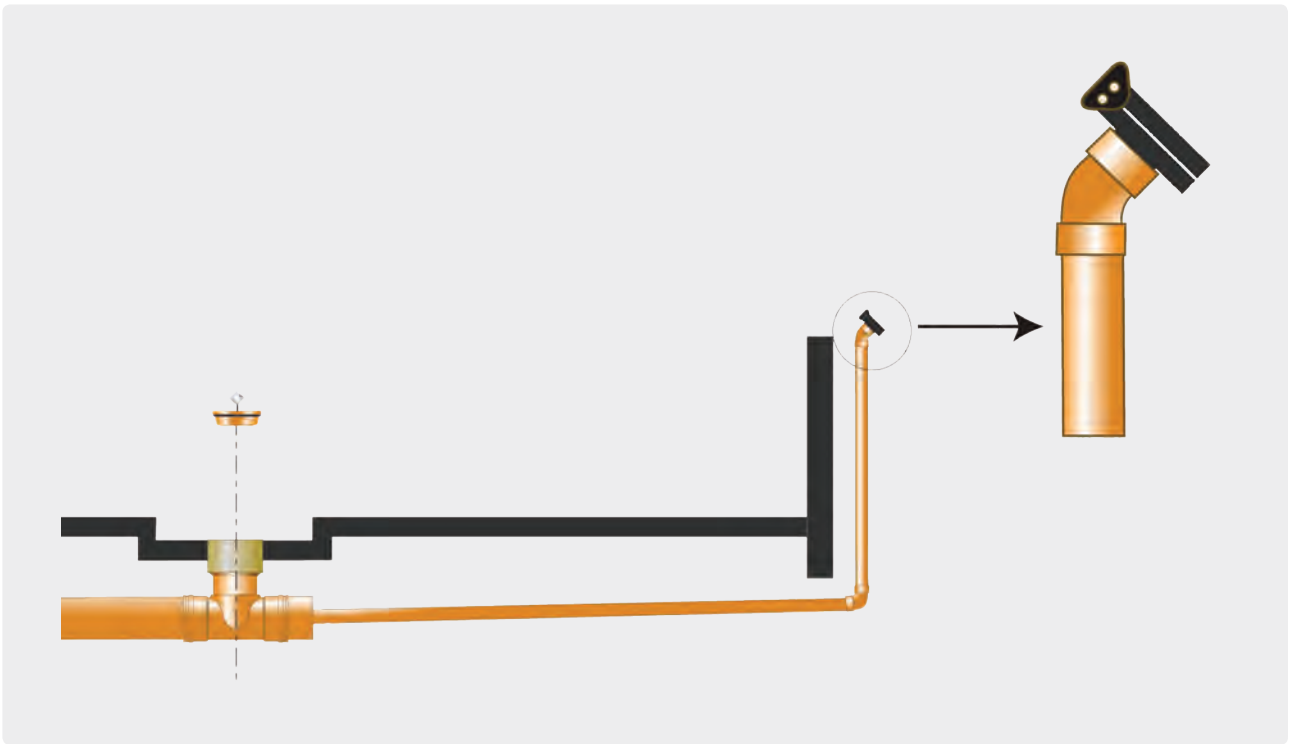
Weda's intelligent liquid manure systems offer tremendous advantages for your animal house regarding climate and hygiene and therefore make a considerable contribution towards the improvement of your animals' health.



Characteristics

- Made of PVC
- 45° and 90° elbows available
- Additional connector for the supply of inflowing air and for the prevention of an undesired suction effect
- Manufactured according to NEN-EN-ISO 9001: 2000 Standardization
- Easy and fast installation
- Maintenance-free
- No adherence of stopper due to rubber blade
- High impact strength and stability due to "Thermo Moulding" procedure
- Sanding of lug for an optimal connection with concrete
- Promotion of animal house hygiene due to a permanent outlet of the liquid manure
- Less energy input for the ventilation as the ammonia contents of the air decrease
- Suited in equal measures for newly constructed units and for rebuilding.

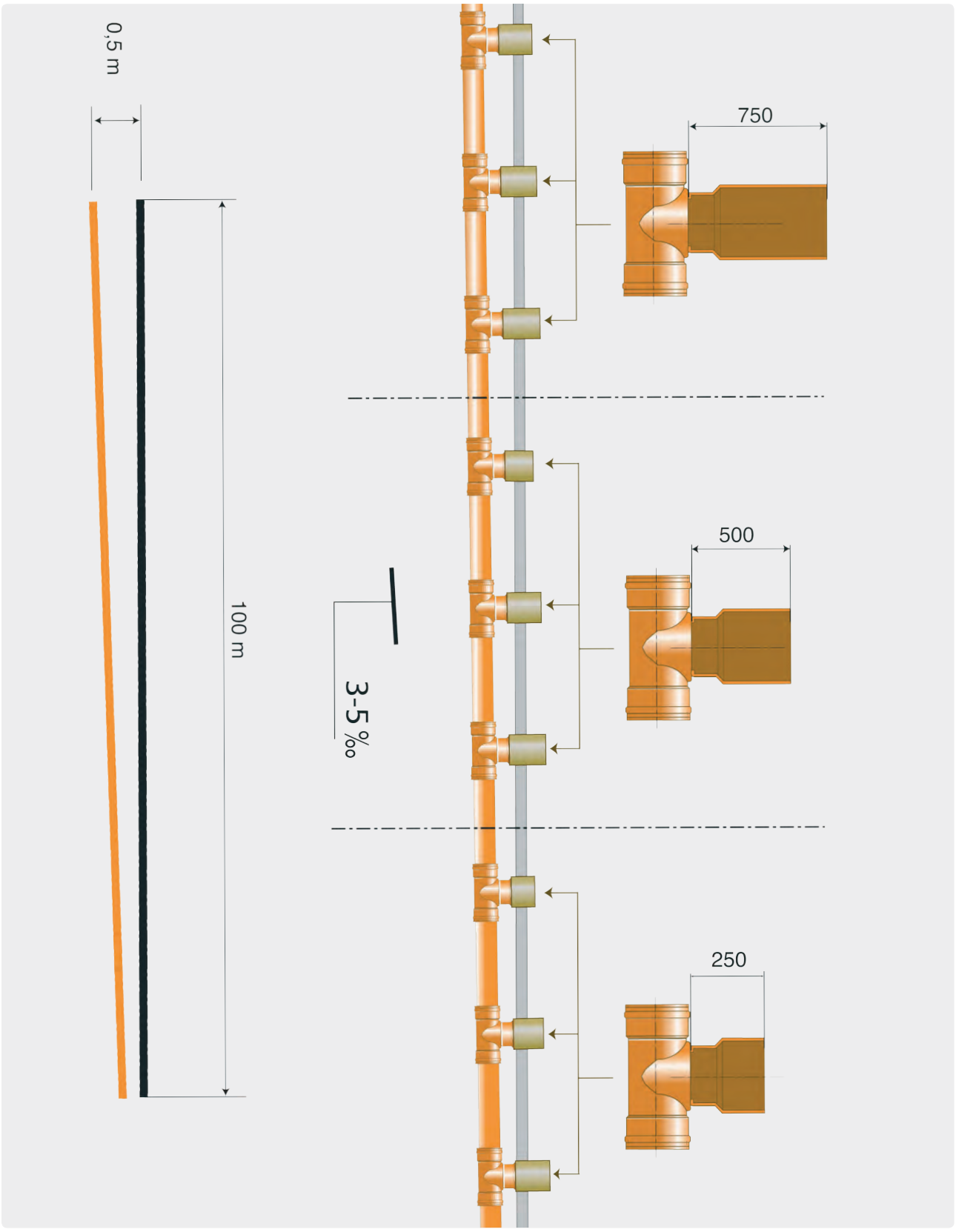




Liquid Manure Pipe Systems

Quick and easy laying

Our liquid manure pipe systems of high-grade PVC are maintenance free and can be easily installed. The sanded T-pieces ensure a more favourable connection between concrete and pipe.



Sequences of laying out liquid manure pipes:

Excavation of the liquid manure channel and alignment of the pipes

Manual infilling and soil compaction

Preparation for pouring of concrete

Fundament in rawness

High-Grade Steel Liquid Manure Container Systems

Liquid manure storage at top-level

The high-grade steel container systems are manufactured by means of state-of-the-art technology of elaborately processed high-grade steels, accurately fitted and individually crafted. Due to the special vertical frame construction our systems are particularly robust.

Corrugated high-grade steel container with foil covering

Characteristics

- Produced from elaborately processed high-grade steels (vertical frame construction), also corrugated
- Accurately fitted manufacturing, option of 160 standard container sizes
- Cost-effective
- Light-weight and simultaneously very robust
- Long life cycle
- Due to thin-walled and chemical-resistant passive coating high corrosion resistance and resistance against considerable gliding and friction movements
- Chemical and biological neutrality
- Complete recyclability
- Segment construction enables problem-free stocking up, extension, disassembly and relocation
- Easy and problem-free cleaning
- Low maintenance costs as no annual inspection according to DIN 11622 is required
- Problem-free installation of ventilation, agitation and mixing equipment
- Installation of roof materials, resp. of manholes is possible if required by customer

Coverings:

Foil:

- Air-tight
- Of heaviest duty-grade
- Fastening at silo wall by means of welding tapes and pawls
- Serially furnished with a manhole and ventilation opening

GRP Covering:

- For circular tanks as self-supporting ribbed dome, smooth dome or flat roof
- Covering segments radially arranged around pivot ring of dome
- Individual segments much domed in themselves in order to reach great buckling strength
- Faces, seams and joints made of permanent sealing, of material which is resistant to rotting
- Circumferential drainage area on inside of covering segments keeps wall crown free from condensation water
- Integrated maintenance opening

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Caption:
A: Ampere
C°: 1°C = 33.8°F (Formula for Conversion: TC° x 1.8 + 32)
cbm/h: cubic meters per hour
EPP: expanded polypropylene
Hz: Hertz
IP: International Protection Class, describing the suitability of electrical Equipment (International Protection)
kg/h: kilograms per hour
kW: kilowatts
mbar: millibar
min^{-1}: rotations per minute
PE: polyethylene
PP: polypropylene
PVC: polyvinyl chloride
to./h: tons per hour
TPE: thermoplastic elastomers
V: Volt
V2A: high-grade steel
Vac: alternating voltage
Vdc: direct voltage
W: Watt
Inch (“): 1 Inch = 2.54 cm

We care about pigs

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