



LAKTO Dairy Technologies

LAKTO - AK MILKING CLUSTER

High volume claw (490 cc) and large liner claw connection (14 mm inner diameter) for minimizing the vacuum fluctuation at teat end.

LAKTO-Ak cluster designed for high yielding cows. Main target on design is minimizing the vacuum fluctuation at teat end, thus accomplished by large claw volume "490 cc" and large liner-claw connection diameter. The inner diameter of the connection to claw 14 mm transfers the milk from liner and the teat immediately to the claw in order to eliminate physical pumping of the milk back in to teat during massage phase.

Thanks to Patent pending heterogenic design of the liner walls thus starts collapsing from teat top to teat end consecutively, just like hand milking or a suckling calf. Ergonomically designed claw fits perfectly in hand that helps milker for easy attachment or detachment of the cluster.

All these features helps for an easy, healthy milking; with the help of LAKTO-Pulsulators significant yield improvement and remarkable somatic cell count drop should be expected right after start using Lakto-Ak clusters.

LAKTO - PAK 1 JETTERS

Complete stainless steel construction, revolving body for dirt prevention
Lakto-Pak1 jettors are designed for heavy duty conditions and for industrial parlors. revolving mechanism prevents the jettor cups from dirt during milking.



LAKTO - PULS ELECTRONIC PULSATOR

Perfect pulsation, flexible connection fitting all brands, low investment cost, easy and economic maintenance

Lakto-Pulsulator has a very simple design that can fit all brands. Provides perfect milking quality, doesn't influenced by environmental temperature or vacuum level.

Due to indirect valve control by pilot valves, enables using low powered coils (only 0,11 Amps.) and design on cooling effect of the air intake on the coils prevents disorder on pulsation even on long runs due to overheating.

Lakto-Puls 2 can milk two clusters at a time for economical pulsation requirements.

Individual pulsation controlling unit enables manual stimulation function. Pulsation rate and ratio can be adjusted according animal needs.

The pulsation controller powered by external switch mode power supplier for protecting the PCB from voltage fluctuations that may happen at network.

Lakto-puls can be controlled via Milk Meter MPCs those have pulsation control function.

LAKTO PULSATOR AND CLUSTER SET FOR MOBIL MILKING UNITS

No matter what your mobile machine brand is, it can be updated into a perfect milking machine. Please contact LAKTO for application.



VACUUM MOBILE MILKING MACHINE

- Vacuum source:**
Direct coupled to electric motor, lubricated pump,
200 lt/min. vacuum pump.
- Power:**
1425 rpm, 0,55 kW, 50 Hz- 220 Volts monophasic electric motor.
* 0,75 kW motor and different voltage requirements should be indicated at order.
- Cluster assembly:**
LAKTO -AK cluster
- Milk Bucket:**
Double 30 liters or single 40 liters stainless steel with transparent lid.
*Aluminum bucket requirements should be indicated at order.
- Pulsator:**
LAKTO-PULS electronic pulsator.
- Frame:**
Steel pipe, painted.
*Hot-dip galvanization requirements should be indicated at order.



LAKTO-CIP FULL AUTOMATIC WASHING UNIT

It is suitable to be used nearly with all of the milking parlors and brands and it controls all the services in the milking parlor, service friendly

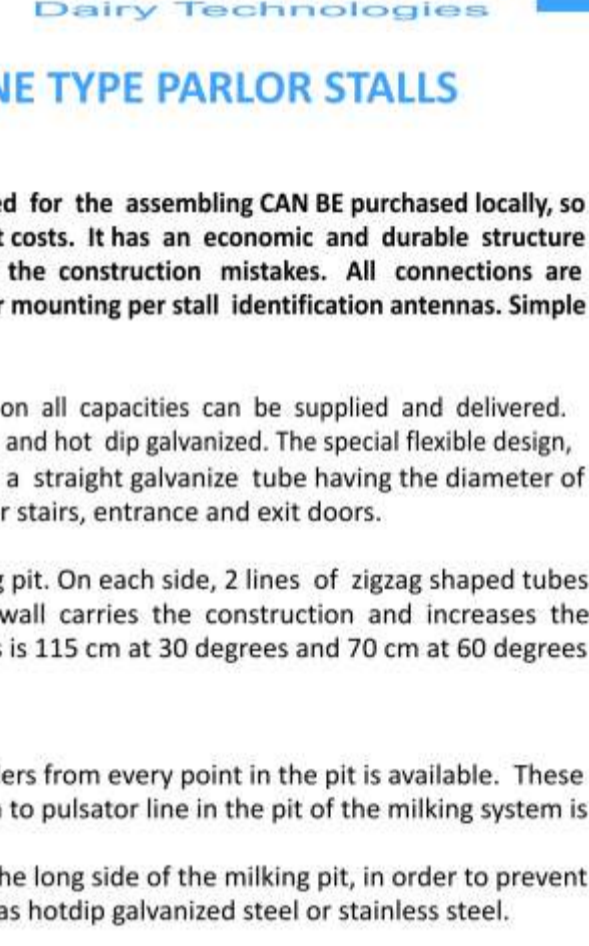
Lakto-CIP automatic washing unit controls the entire milking system via preprogramed PLC. Addition to Lakto-CIP, the user can create own washing cycles, add or remove wash steps etc. Large LCD display shows every step during operation and settings.

Starting up the system is much easy as all the time settings can be entered by alphanumeric key board. The service is very easy, all the services can be checked during milking, thus allows service man to provide maintenance to all out puts/services connected to LAKTO-CIP during milking, this allows less time for technician for maintenance.

Lakto-CIP is a controlling center for almost all the functions in a milking parlor.

These services are:

- plate cooler coolant water valve to work only during milking,
- milk transfer line drain valve,
- electronic pulsator,
- automatic remover,
- vacuum pumps,
- the operation of the air jettor,
- the automatic changeover between milking and washing regulators,
- safety milking and safety washing,
- to switch on and off the intermediate heater during alkaline circulation,
- to operate the milk pump remotely for discharging the tank water after the washing stages.



LAKTO LSP14 AND LSP11 MILK PUMPS

High efficiency and capacity, very low maintenance, fitting both side installation of the receiver.

LAKTO LSP stainless steel milk pumps are designed for elasticity which can be adapted to different installation needs at the field. The housing can be reversed to be installed perfectly at both sides of the receiver tank.

Due to precise machining and production of the parts, pump provides very high efficiency and with low power consumption very high capacities have been reached as shown below.

Milk pump model	Motor power	Sucking level	Pumping height	Capacity
LSP 14	1,5 kW	50kPa	5 meters	14,5 ton/hour
LSP 14	1,5 kW	50kPa	10 meters	11 ton/hour
LSP 14	1,5 kW	0kPa	5 meters	18 ton/hour
LSP 11	0,75 kW	50kPa	5 meters	11,5 ton/hour
LSP 11	0,75 kW	50kPa	10 meters	8,5 ton/hour
LSP 11	0,75 kW	0kPa	5 meters	13 ton/hour

*Performance test results at sea level

With the high quality and perfectly manufactured mechanical seals minimize the off time of the LSP milk pumps.

CLASSICAL HERRINGBONE TYPE PARLOR STALLS

Easy mountability. Straight tubes required for the assembling CAN BE purchased locally, so that saving is achieved over the transport costs. It has an economic and durable structure and a special design proper to tolerate the construction mistakes. All connections are provided with cast fittings. Preparation for mounting per stall identification antennas. Simple entry and exit gates with locks

Classical herringbone type milking stalls on all capacities can be supplied and delivered. All construction completely demountable and hot dip galvanized. The special flexible design, which can nearly fit to every milking parlor. The structure consists only of a straight galvanize tube having the diameter of 48 mm (1 1/2"), cast fittings, yoke holders and zig-zag iron frames, 2 operator stairs, entrance and exit doors.

The animals are being stood in the position of 30° or 60° angle to milking pit. On each side, 2 lines of zigzag spaced tubes connected to each other with cast muffs. Galvanize tube from wall to wall carries the construction and increases the durability. Galvanize back sheet at every stall. The space for the animals is 115 cm at 30 degrees and 70 cm at 60 degrees stalls. All the materials are hot dip galvanized.

Options:
Gate cylinders: exit and entrance gate controls via vacuum operated cylinders from every point in the pit is available. These vacuum operated cylinders doesn't need any extra compressor, connection to pulsator line in the pit of the milking system is enough to control the gates by directing valves.
Galvanized or stainless steel curb: Side sheet metals will be placed along the long side of the milking pit, in order to prevent the animals from sliding in the pit. The side sheet metals can be preferred as hotdip galvanized steel or stainless steel.

FETA30 RAPID EXIT HERRINGBONE STALLS

It has an economic but very durable structure and is, easily mountable, unlike competitors it doesn't require two stage concrete operation, installation can be done at once after all the construction work finished, thus eliminates the time loss.

Rapid exit herringbone stall construction. The zigzag pipes, which enable for the animals to stand in a position of 30° angle to milking pit, quick entry and exit doors for the animals. 120x120 mm main support posts connected between two sides. Support posts at each stall carrying the back plates. All connection fittings and clamps are galvanized. 2 galvanized ladders for the milker at two ends of the pit.

Fast exit doors swing up for easy and quick release of the cows. Easy adjustment of ches bar by telescopic structure on the exit doors. Per place post at the back of the cow enables easy installation space for per place identification as well as entrance identification antennas. The curb can be supplied hotdip galvanized or stainless steel at the long sides of the pit. The pressurized pneumatic system items for the control of the entrance and exit doors including hoses, fittings, control valves, conditioners (lubrication-regulator) are included in the pack. The compressor (piston or screw) and the air dryer can be supplied as option.

FETA 90 RAPID EXIT PARALLEL STALLS

Extreme strong construction to use for ages...
Just like FETA 30, parallel stalls are complete demountable and hotdip galvanized. Back sheet is made of stainless steel with slurry channel and flushing system to clean slurry channel at each side to work at each exit of the batches. Any size of fast exit parallel stalls can be supplied. With all required pneumatic components.

The construction basement is placed under the concrete to establish high durability. Large support posts carrying the construction also connected to each other for even stronger structure.

The pressurized pneumatic system items for the control of the entrance and exit doors including hoses, fittings, control valves, conditioners (lubrication-regulator) are included in the pack. The compressor (piston or screw) and the air dryer can be supplied as option.

FREE STALL CUBICLES

Its price, easy assembling, durability and high cow comfort.
Free stall cubicles, completely demountable and hot dip galvanized after manufacturing and having different dimensions and lengths: for animals above 22 months 205 cm, animals and outer diameter: 60 mm; young stock up to 12 months 160 cm, young stock up to 6 months 135 cm and outer diameter: 48 mm. Hot dip galvanized support posts are of steel tubes 76x3 mm.

FEEDER LOCKS

Easy assembling, individual locking, safety system easy to release the felt down cow in the lock.

Individual feed stations, completely demountable and hot dip galvanized after manufacturing and having the feeder dimensions of 75, 70, 55 cm per animal and delivered together with the assembling brackets, which will be fitted to the support posts embedded in the feeder's front wall.

Lock handle for mass control of the locking teeth. Individual locking equipped with a safety mechanism in case cow fell down, it can be released from the feed lock easily. As the galvanize is incesely penetrated both inside and outside of the chassis and separation pipes by the patented sloped triangle profile, the life of the feed locks improve. Slotted triangle profile also enables easy installation in the field applications.

VENTILATING and COOLING FAN

having the diameter of 190 cm

Less energy consumption, mountable up to an interval of 22 meters (counterparts allow only intervals up to 12 meters), low noise, high yielding and high efficiency

It is completely hot dip galvanized. On the application area, it can be installed to the roof trusses with chain, easily. Polluted air is removed through the air corridor created inside the barn or in the milking parlor waiting area.

High capacity can be reached by low power consumption and low rpm. This low rpm (340 rpm) also decreases fan blade noise. It is located with intervals of 18-22 meters when average air speed is 2,8 meters/Sec.

Fan performance table:

Motor power	Blade Angle	Capacity
1,1 kW	32°	77.300 m ³ /hour
1,5 kW	36°	91.500 m ³ /hour
2,2 kW	39°	98.000 m ³ /hour
3,0 kW	43°	110.000 m ³ /hour

MANURE SCRAPER

LOWER POWER CONSUMPTION, EASY AND LOW COST MAINTENANCE, DURABILITY, AND ELASTICITY

It is to scrape two different manure alleys with the LAKTO chained manure scraper set. It has two scrapers to clean the channels having a width of between 200 and 500 cm. One set of manure scraper unit having 2 scrapers in the determined dimensions, corner pulleys, driving unit with chain tightener, calibrated and hardened marine chain, lengths according to the barn requirements and a programmable electronic control box.

The controlling unit can be programmed up to 25 different cleaning times. The scraper is resistant controlled. When any of the scraper encounters with an animal laying on the corridor, it leans against the animal for a preset amount of time (and times) and then, it stops and moves back in direction of the opposite side for a settleable time and then, it re-leans against the laying animal again, attempting to stand up the animal. In case, if the animal does not leave, the device stops until the next stripping time. Accordingly, it is avoided to frighten the animals or injure them.

Driving unit provided by an electrical motor varying powers according to installation 0,37, 0,55, 0,75 or 1.1 kW 3x400 Volts/50Hz varying according to the barn length and area. Power consumption is very low especially comparing to the hydraulic scrapers. Its operation speed is 2,8-3 meters/minute.



MANURE PUMP

Low price, high capacity, self priming.
It is a portable type manure pump which can be driven by a tractor or electrical motor equipped with a special rubber rotor. It can pump manure and liquids containing high dry matters up to 5 bars.

Type	Drive type	Pressure max	Capacity approximately
G120T	Power take off- PTO	5 bars	70 m ³ /hour
G240T	Power take off- PTO	5 bars	140 m ³ /hour
G120E	7,5 kW, 3x380 Volts-50Hz electric motor	3 bars	50 m ³ /hour
G120E	11 kW, 3x380 Volts-50Hz electric motor	3 bars	68 m ³ /hour
G240E	15 kW, 3x380 Volts-50Hz electric motor	3 bars	111 m ³ /hour
G240E	22 kW, 3x380 Volts-50Hz electric motor	3 bars	140 m ³ /hour

The stone catcher supplied as standard part of the pump protects the pump body and the rotors from stone or metallic materials.

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TÜRK MALI
Dünyanın en güncel sağım teknolojisi
The state-of-the-art milking technology