

GENERAL CATALOGUE **2023/24**



LA BUVETTE®, SPECIALIST IN LIVESTOCK **DRINKING SOLUTIONS SINCE 1907**

NITH AN EYE ON THE FUTURE

Jean-Philippe BOUSQUET, CEO of La Buvette

With more than 115 years of experience, LA BUVETTE's know how and highquality products are widely recognised throughout the world. Still, our never-ending commitment to innovate and improve our products and services both for the breeders and our dealer network remains stronger than ever.

"One has to be absolutely modern" quotes the French poet Arthur Rimbaud. Drawing lessons from the past to build a better future is a certain idea of modernity, a philosophy that suits us very well and drives our teams on a daily basis.

The new JUMBO and JUMBO+ high-flow valves and their LACABAC 80 float version (see p. 57) with their patented anti-oscillation system are a new example of this vision. They not only allow watering large herds more efficiently, they also offer a unique and reliable solution to problems with bouncing float valves in certain installations. A new mounting accessory for drinkers on a tube A324 (see p. 107) from now on allows breeders to easily optimise their watering installation without having to change the layout of their buildings. To complete LA BUVETTE's product range for young calves, we offer from now on CALF-BUDDY™ (see p. 74) teats and connectors that combine the MILK BAR™ technology of controlled milk flow with the 1-click system to connect them to our usual feeding buckets with teats. We will also have the pleasure of revealing other novelties during the year.

Practical and innovating, this is how LA BUVETTE and the SOFILAB group of which we are a part (see p. 112), conceive the present in order to support tomorrow the breeders from France, Europe and elsewhere.

1 Arthur RIMBAUD. "Farewell" - A Season in Hell





1907



1930



1969



1987

FORGES DE MILOURD

Fonderie GUSTIN & Fils

1907 LA SOURCE 1942 H2 1948 LABCO 1937 LE PUITS 1950 S1 1940 LE FLOT

1941 LE FLUX

1968 LAC 4

1970 PIGGY 1966 ANTIGEL-BB 1975 LAC 5

1969 MINI-LAC

1980 F9S 1986 DUOBAC

1988 BALPOR

1986 FRIBAC 70 1989 SHEEPY 1987 PREBAC 1988 AQUAMAT

1947 LA BUVETTE merges with GUSTIN

1987 Establishment of the moulding plant ROTOPLUS



FRENCH EXPERTISE AND **KNOW HOW**

LA BUVETTE has been manufacturing barn equipment for over more than 115 years. Based on our extensive experience and French know how, this French SME has earned a good reputation among the livestock breeders. For all breeders and the entire barn equipment business, LA BUVETTE® is synonymous with reliability, innovation and animal welfare.

LA BUVETTE® runs an efficient and modern factory located at Charleville-Mézières in the north-east of France. It directly employs 50 workers and creates jobs for an extra group of 190 employees.

LA BUVETTE® works with several thousands of dealers in France and more than 50 other countries. which assures a good geographical coverage of the market. Of its turnover, 35 % is realised by export and each day, our brand is becoming more and more international by increasing its market share in the countries with high growth potential.

INNOVATION AND SERVICE

LA BUVETTE offers its customers a full range of solutions that are perfectly adapted to address the issues of the cattle, horse, pig, sheep and goat breeders.

To meet the expectations of the breeders, improve the performance of the animal farms and the welfare of the animals, LA BUVETTE has always reacted dynamically with innovations alongside the professionals.

We, at LA BUVETTE, are convinced that a product without service has no future. This is why our teams are so eager to offer help, trainings and advice. LA BUVETTE's after-sales service makes sure that its millions of spare parts are delivered within the shortest time possible. We also maintain a contentrich website with technical and commercial resources. The LA BUVETTE videos, technical tutorials, users' testimonials, installation guides and other presentations are also very much appreciated.









QUALITY MADE IN FRANCE









1993 ISOBAC

2008 PROFLOW 2 2013 BAÏKAL 230

2017 SUPERSTAR

TALCHO 1992 CLEANFOOT 989 CALDOLAC 5

1998 BIGCHO 2000 F30 1993 FORSTAL

2001 BROUETTE BASCULANTE 1998 PORCINOX

2003 MINISTAR 2009 MULTI-TWIN 2007 MULTI 220

2019 LAC 50 2011 SPFFD-FLOW

1990 BIGLAC

1995 STALL 3000

1998 PROFLOW

1998

SATENE joins the group SOFILAB

2005

MAZERON joins the group SOFILAB

2018

CK and BAYLE Industries join the group SOFILAB

2021



CONTENTS



















MEANING OF THE SYMBOLS



























Multi-way connection

Galvanised













Electric heating

Circulation system

Isothermal

Geothermal



PRODUCTS

FOR PIGS

100

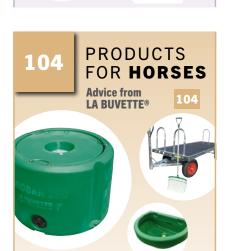


Footbaths

BREEDING

EQUIPMENT

81



UNITS CONVERSION TABLE

| Thread | $1/2" = 15 \times 21 \text{ mm}$ |
|---------|----------------------------------|
| | 3/4" = 20 x 27 mm |
| | 1"= 26 x 34 mm |
| | 1 1/4"= 33 x 42 mm |
| | 1 1/2"= 40 x 49 mm |
| 1 bar | = 14 psi = 1000 hPa |
| 1 litre | = 0,26 USG |
| 1" | = 25,4 mm |



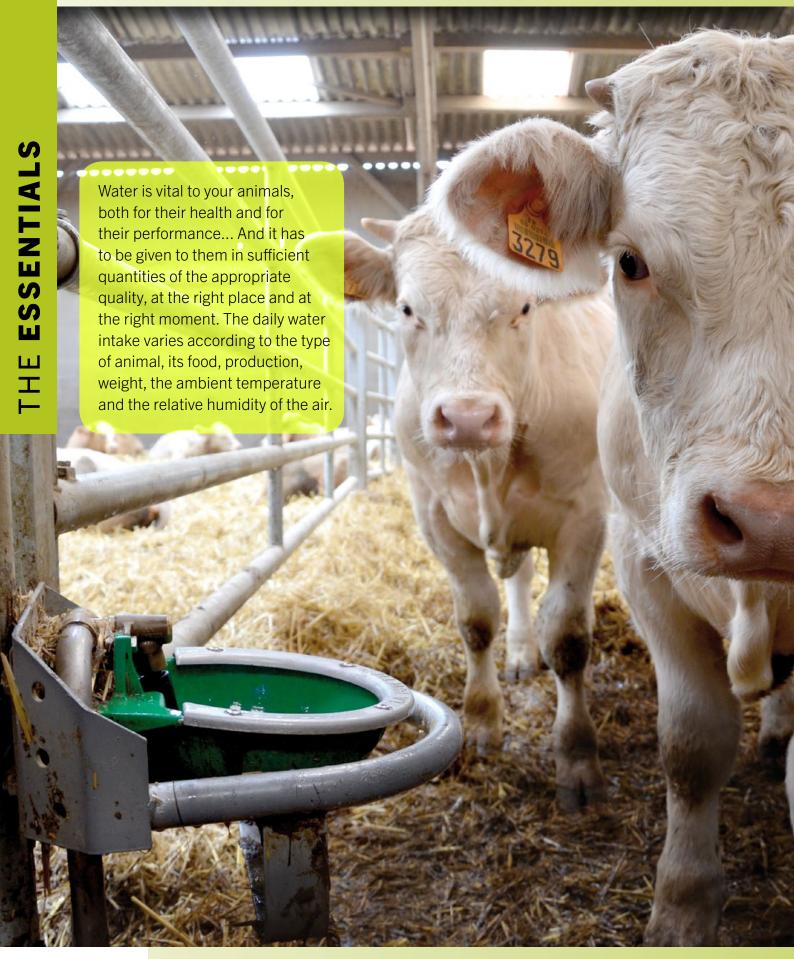
In this catalogue you will find some QR codes like this one. Scan them with a smartphone or tablet that is equipped with a QR code

reader to have direct access to supplementary content such as instructions in pdf, videos or our web pages.

Not contractual document.

In a concern of constant improvement of our products, we may modify their characteristics without advance notice.

ADVICE FROM LA BUVETTE® ON INDOOR DRINKING SOLUTIONS

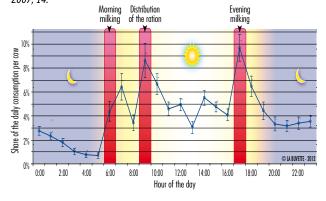


ZOOM ON THE HABITS OF CATTLE IN STABLE

- Dairy cows need 3 to 5 litres of water per kilo of dry matter intake and for each litre of milk produced, they drink 2 to 3 litres of water (this rule is not cumulative).
- A dairy cow can drink up to 135 litres of water per day in 6 or 7 visits
 to the drinker, very often after the distribution of the feed ration or
 after milking (which explains the importance of locating the drinking
 points near the feeding table and the exit of the milking parlour, see
 following pages).
- Every day, 10 to 12 minutes are spent drinking. One bovine cattle can absorb up to 18 litres per minute, which is why it is so important to choose a drinker supplying the right flow rate.
- A drinker with constant water level allows faster ingestion than a tube
 or paddle drinker and is preferable for dairy cows with a high need for
 water. If the flow rate is insufficient, the bovine animal will drink more
 often (up to 15 times a day).

BREAKDOWN OF DAILY WATER CONSUMPTION BY A DAIRY COW

Study involving 82 lactating Prim'Holstein cows, fed a complete ration and kept in loose housing. Source: "The factors responsible for variation in drinking behaviour of dairy cows", Cardot V., Le Roux Y., Jurjanz S. Journées 3R, 2007, 14.



NUMBER OF DRINKERS AND INSTALLATION HEIGHTS

| PRODUCTION | NUMBER OF ANIMALS/ Drinking Point | HEIGHT TO THE EDGE OF THE DRINKER |
|------------------|--------------------------------------|--------------------------------------|
| Dairy cows | 10 | 0,70 < h < 0,80 m |
| Nursing cows | 15 | 0,65 < h < 0,75 m |
| Young cattle | 15 | 0,50 < h < 0,75 m |
| Calves | 10 | 0,40 < h < 0,50 m |
| Weaner pigs | 15 | Step + 0,15 m |
| Fattening pigs | 15 | Step + 0,30 m |
| Sheep | 15 | Step + 0,5 m |
| Dairy goats/ewes | 10 | Step + 0,6 m |
| Horse herds | 15 | 1,10 to 1,20 m |

TECHNICAL ADVICE ON THE INSTALLATION TYPE OF SEALANT ACCORDING TO THE MATERIAL

| FITTING | TYPE OF SEAL |
|-----------------------|--|
| Synthetic / Synthetic | Teflon (or paste or cord sealant) |
| Synthetic / Metal | Teflon (or paste or cord sealant) |
| Metal / Metal | Hemp (chaff) + paste (or sealant cord) |
| Swivel fittings | Flat paper or rubber gasket (supplied) |

Make sure to install the fittings according to the rules and, for example, do not forget to scratch the threads. Please call on a professional plumber in case of doubts.



RULES FOR INDOOR INSTALLATION OF DRINKERS

- Provide for a sufficient number of drinking points to reduce competition at the drinker (cf. table above).
 At least two distant drinkers should be provided to allow the subordinate animals to drink freely.
- Install the drinkers at a sufficient distance from each other. The ideal trough length is 60 cm (2 ft) per cow and the maximum distance in the stable to the drinker is 20 m (2.2 yd).
- Choose the location of the drinkers favouring a good circulation of the animals (especially in the passageways between the cubicles) and keep the space around the drinkers clear to allow avoidance between dominant and subordinate animals. See all details on the following page.
- Install the drinkers at the right height (cf. table above). When they are installed too high, the animals are prone to lapping (resulting in spilling) and when they are installed too low, the drinkers risk to be spoilt by dung and to be used as steps.
- The straw bedded areas are to be considered as a special case. Finally, to avoid soiling the litter, it is recommended to place the drinkers along the central passageway, taking care to prevent access from the straw area.
- Keep an eye on the water quality. It is recommended to clean the drinkers once a week.
- Control the water temperature. In general, the animals rather prefer warm water to cold water. In winter, the distribution of warm water can result in a higher production and in summer, cool water (10-15 °C) helps improve the ingestion and the production. See our solutions in the FROST-FREE section.
- The installation of a 100µ filter at the beginning of the water line (page 102) is necessary to guarantee the optimal operation of the drinkers. Overpressure should also be avoided as this may affect the proper operation of the valves and prematurely damage the wear parts. The installation of a professional pressure reducing valve (A406, p. 102) is mandatory when the pressure exceeds 5 bar (72.5 psi). The ideal operating pressure is 3 bar (43.5 psi).



HOW TO DETERMINE THE BEST LOCATION FOR INDOOR DRINKERS

COWS KEPT INDOOR

Your cows need the best possible access to water when they are kept indoor. An unsuitable location of the drinking points can have a negative impact on the milk production or the growth of the animals. Therefore, it is important to consider the drinking behaviour within the layout of the buildings, starting in the earliest phase of the construction project of the building.

The diagrams on this page show the ideal locations of the drinking points depending on the building layout.

OUR ADVICES

- The access above the drinking point must be at least 60 cm wide, otherwise the animals can drink less easily and less quickly, and they are prone to lapping.
- For calves, we recommend the use of drinkers with constant water level or types that are specially adapted to their morphology (e.g. BABYLAB).
- Location of the drinkers near the service aisle makes maintenance and inspection of their good working order easier.

REMEMBER

DAIRY COWS:

- 1 water access point for 10 lactating cows.
- Large troughs:
 - 1 water access point = 60 cm
 Flow rate: 15 litres/min per water access
 - Flow rate: 15 litres/min per water access point
- Height to the edge of the drinker: 70 to 85 cm
- Favour drinkers with constant level and high flow rate.

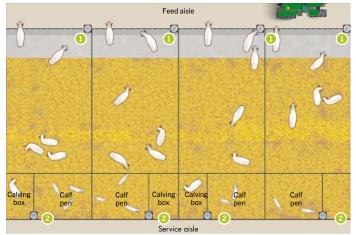
CATTLE

- 1 water access point for 15 heads of cattle.
 - Flow rate:
 10 litres/min per water access point
- Height to the edge of the drinker: 65 to 75 cm (adults) and 40 to 50 cm (calves).
- Adapt the drinkers to the age of the cattle.

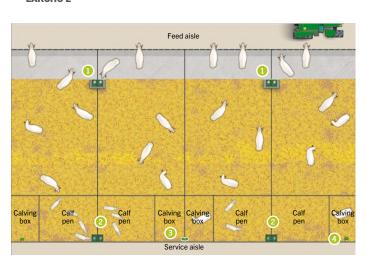
NURSING COW BUILDING

STRAW AREA AND SCRAPER

Electric frost-free drinkers

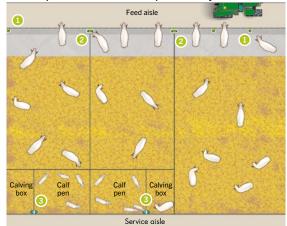


- Frost-free drinker on stand: BIGCHO 2, BIGSTAL 2 (non-spill), LAKCHO 2 or STALCHO 2 Set up like this, the drinkers are well protected and visible from the feeding table. They only take up one place at the feed rack.
- 2 Frost-free drinker on stand with constant level: BIGCHO 2 or NORMANDY or LAKCHO 2



STRAW AREA AND SCRAPER

Non-frost-proof drinkers or drinkers kept frost-free by circulation



- 1 F30A or F25 (non-spill)
- Pface one drinker between two pens to guarantee access to the water from at least one side in case of crowding of animals or failure of a drinker.
- (3) LAC 55 (constant level)

STRAW AREA AND SCRAPER

Isothermal frost-free drinkers or drinkers kept frost-free by circulation

- 1 THERMOLAC 75 GV (ball model) or MICHIGAN DUO
 NOTE: to protect the litter, you should surround the drinkers with a wall blocking access from the
 straw area and channel the drained water towards the scraped area.
- 2 THERMOLAC 75 B (bowl model) for young calves.
- 8 Bowl of the F60, F40 or BIGCHO 2, BIGSTAL 2, LAKCHO 2, STALCHO 2 type with or without frost protection (by circulation or electricity) depending on the needs.
- 4 Individual bowl of the F30, or F11, LAC 5, F130 EL, NORMANDY type with or without frost protection (by circulation or electricity) depending on the needs.

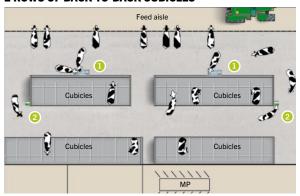


Tips on other building layouts are proposed in our La Buvette News No 24 of June 2014 that can be downloaded from www.labuvette-waterers.co.uk.



DAIRY COWS BUILDING

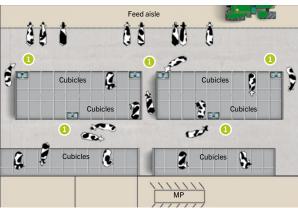
2 ROWS OF BACK-TO-BACK CUBICLES



- 1 LB150 or GV150

 The installation of drinkers to the wall facing the feeding table keeps the passageway between the cubicles entirely free. NOTE: to allow free passage of the scraper, it is necessary to choose wall-mounted drinkers. However, it is still possible to have drinkers on the floor, such as CLEANO-BAC, ISOBAC or even PREBAC 70 by placing them in a recess in the wall specially provided for this purpose.
- POLYSTALL PREMIUM with 90° mounting bracket (A372)
 When installed parallel to the wall, this drinker is suited for rather narrow passageways between cubicles
 (2,5 to 3,75 m). It allows cows to drink without hindering the free movement of the other cows. This
 location also has the advantage of limiting the presence of dung in the passageways.

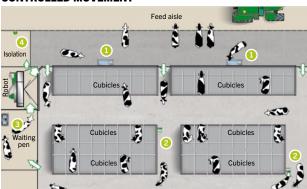
3 ROWS OF CUBICLES WITH NARROW PASSAGEWAYS



 MICHIGAN DUO or THERMOLAC 75 or PREBAC 70 or ISOBAC or CLEANOBAC

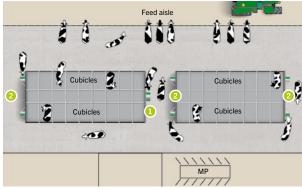
When the passageways between the cubicles are too narrow, it is necessary to give up cubicles and to install the drinkers in their place. NOTE: It is necessary to surround the sides of the drinker with a wall to avoid soiling of the adjacent cubicles.

3 ROWS OF CUBICLES — MILKING ROBOT — CONTROLLED MOVEMENT



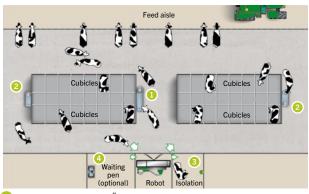
- 1 LB150 or GV150
 - The installation of drinkers to the wall facing the feeding table keeps the passageway between the cubicles
- POLYSTALL PREMIUM with 90° mounting bracket (A372) Offering access parallel to the wall, this drinker is suited for narrow passageways between cubicles. NOTE: even when the movement is controlled, it is recommended to install drinking points at the cubicles.
- MICHIGAN DUO or another double access drinker It is important to install a drinker in the waiting pen as the cows might stay there for several hours.
- 4 F30 or other individual drinking bowl

2 ROWS OF HEAD-TO-HEAD CUBICLES



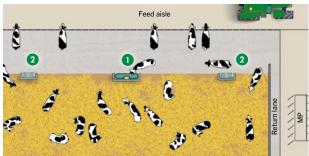
- POLYSTALL TWIN PREMIUM (double access)
 This drinker is suited for rather narrow passageways between cubicles. It allows cows to drink standing
 parallel to the wall without hindering the free movement of the other cows. Another advantage is that there
 will be less cow dung in the passageways between the cubicles.
- POLYSTALL PREMIUM with 90° mounting bracket (A372) When installed parallel to the wall, this drinker is suited for rather narrow passageways between cubicles (2,5 to 3,75 m). It allows cows to drink without hindering the free movement of the other cattle. This location also has the advantage of limiting the presence of dung in the passageways.

$\begin{array}{ll} \textbf{HEAD-TO-HEAD CUBICLES} - \textbf{MILKING ROBOT} \\ \textbf{LOOSE-HOUSING} \end{array}$



- GV 230 or LB 230 or BAÏKAL 230 or MULTI 220 The passageway must be sufficiently wide (3,75 m) allowing the cows to drink without hindering the free movement of the other cows, especially at the exit of the milking parlour (4,5 m).
- QV 150 or ISOBAC or CLEANOBAC or MICHIGAN Additional drinkers must be installed at each end of the building as they are less frequently visited than the ones in the centre of the building. Double or triple access drinkers are particularly suitable.
- F30 or other individual drinking bowl It is important to consider providing the isolation pens with a drinker as the animals might stay there several hours.
- 4 MICHIGAN DUO or another double access drinker

STRAW AREA AND SCRAPER



MULTI 220 or other large drinkers such as LB 230, GV 230 or BAÏKAL 230

NOTE: to protect the litter, you should surround the drinkers with a wall blocking access from the straw area and channel the drained water towards the scraped area.

2 ISOBAC or CLEANOBAC

These drinkers can be mounted on a tipping frame (A371) for easier maintenance. You can also install double access drinkers: MICHIGAN DUO, THERMOLAC 75, PREBAC 70, CALORIX.



CAST IRON DRINKING BOWLS WITH CONSTANT WATER LEVEL

LAC 5

Universal cast iron drinking bowl with constant water level.



- Large capacity: 5 litres
- 2 Stainless steel valve cover
- 3 Drain plug without tool
- 4 Horizontal or vertical water supply from below.

L. 30 x W. 26 x H. 24.5 cm (11.8" x 10.2" x 9.4")

Centres: 148 mm (5.5") - Ø15 mm (0.6")

Connection on horizontal 3/4" tube.

Can be connected on vertical ½" tube from bottom with accessory A829 (see ACCESSORIES)

| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 1627 | Cast iron bowl with Polycoat. Constant water level. | Plastic bag |
| 1622 | Same as 1627 | Carton apiece |

LAC 55

Double cast iron bowl with constant water level.



- 1 Float valve protected by a stainless steel cover.
- 2 Drain plug without tool
- 3 Horizontal or vertical water supply from below.

L. $45 \times W$. $27 \times H$. $24 \text{ cm} (17.7" \times 10.6" \times 9.4")$ Centres: $130 \text{ mm} (5.1") - \emptyset 15 \text{ mm} (0.6")$

Connection on horizontal 3/4" tube.

Can be connected on vertical ½" tube from bottom with accessory A829 (see ACCESSORIES).

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 1628 | Cast iron double bowl with Polycoat. Constant water level. | Plastic bag |
| 1620 | Same as 1628 | Carton apiece |



DID YOU KNOW?

Two possibilities to connect the LAC5, LAC5A and LAC55 drinkers to the water:



- 1. Horizontal (tapping): drilling a Ø6 mm hole in a tube of Ø25 mm under the bowl (picture).
- 2. **Vertical** (**threaded**): screwing of brass male-male ½" fitting (15x21 mm) ref. A829.

LAC 5A

Universal cast iron drinking bowl with constant water level and non-spill edge.



- Metall edge avoids water spillage
- Stainless steel valve cover
- 3 5 litres bowl, same as LAC 5

The non-spill system on F60 and F30A has been a success for more than 15 years. Horizontal $\frac{3}{4}$ " (tapping) or vertical $\frac{1}{2}$ " (threaded) fitting and mounting distance identical to LAC 5.

| REF. | DESIGNATION | PACKAGING |
|------|---|-------------|
| 1615 | Cast iron bowl with Polycoat. Constant water level. | Plastic bag |

BABYLAC

Small cast-iron bowl with constant level, ideal for 10 to 15 goats or sheep from a very early age on.

As it is impossible to nibble on it, BABYLAC is also very convenient for dogs.



- 1 Very sturdy 2,5 litres bowl of grey cast iron
- Stainless steel valve cover
- Orain system without tools
- 4 NEW: 3/4" or 1/2" M water supply from right or left.

L. 26 x W. 25 x H. 17 cm (10.2" x 9.8" x 6.7"); Centres: 110 mm - Ø14 mm.

| 2015 | Cast iron with Polycoat drinking bowl with float valve | Plastic bag |
|------|--|-------------|
| REF. | DESIGNATION | PACKAGING |



| REF. | DESIGNATION |
|------|---|
| A308 | Mounting rail to adjust drinking bowl height (see page 107) |
| A309 | Complete connection set for LAC5/55 or BABYLAC mounted on A308 |
| A324 | Mounting brackets for drinker(s) on fence (see page 107) |
| A349 | Metal protection frame in galvanised steel for drinking bowl LAC 55 |
| A352 | Metal protection frame in galvanised steel for drinking bowl LAC 5, LAC 5A and LAC 10. Wall or corner mounting. |
| A829 | Brass 55 mm extension $1/2$ " MM for LAC 5, LAC 5A and LAC 55 |

DRINKING TROUGHS IN POLYETHYLENE WITH CONSTANT WATER LEVEL

LAC 10 (SYNTHETIC BOWL)

Synthetic drinking bowl with float valve. Especially designed for calves, sheep and horses. Not suitable for goats.



- New stainless steel valve cover.
- 2 Synthetic material, strong and rigid.
- Orain plug without tool.

Large Capacity: 5.5 litres. Adjustable water level. Connection ½" (15x21) from bottom. 4 oblong fixing points.

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 3259 | Synthetic bowl with constant water level | 6 per carton |
| 3279 | Same as 3259 | Carton apiece |



BIGLAC 25 & 25R

Drinker with constant water level for stables of 15-20 animals. Made of 100% pure high density polyethylene.

R-version features a galvanised protection frame for a longer service life. Capacity 25 litres.

Dimensions: 54 x 47 x 30 cm (21.3 x 18.5 x 11.8")

High flow-rate float-valve.

Galvanised frame for wall or fence mounting.





- Water connection possible on both sides.
- NEW: Brass fitting ¾" (20x27 mm).
- 3 Deep HDPE drinking bowl with broad edge reducing water spills by lapping
- Galvanised protection frame.
- Drain plug without tool.





| REF. | DESIGNATION |
|------|--|
| 1658 | Waterer on polyethylene with constant level valve for standard pressure without protection frame |
| 1659 | Waterer on polyethylene with constant level valve for standard pressure with galvanised protection frame |

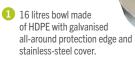


LAC 50

Large non-spill bowl with constant level. Large access to the water:

Ideal between two pens. L. 42 x W. 40 x H. 30 cm (16.5" x 15.7" x 11.8")







Protected water supply from the left or the right.

Orain system without tools and inside design without nooks for easy cleaning.

Adjustable water level. Maximum capacity of 16 litres, minimum 8,5 litres. Fitting 3/4" M (20x27), right/left reversible. 4 fixing points. Centres: 270 mm - Ø14 mm.

REF. DESIGNATION

Wall-mounted drinker with constant level and built-in protection.

ACCESSORIES



| REF. | DESIGNATION |
|------|--|
| A308 | Mounting rail to adjust drinking bowl height (see page 107) |
| A352 | Metal protection frame in galvanised steel for drinking bowl LAC 10. |
| A331 | Mounting bracket for LAC 50 on pole Ø 102 mm (4") and «Trèfle» |
| A337 | Mounting bracket for LAC 50 on pole Ø 140 mm (5"½) and «Trèfle» |
| A336 | Mounting bracket for LAC 50 on H-shaped post (without drilling ; $100\text{-}200\text{mm}$ wide) |
| A617 | Low pressure valve for LAC50 for water supply by gravity (<1 bar or $14.5\ psi$). |
| | |















SYNTHETIC DRINKING BOWL WITH **CONSTANT LEVEL FOR STABLE**



BIGLAC 55M

Double access deep waterer in H.D.P.E. with constant level valve. With broad edge reducing water spills by lapping.

For 30 heads of big cattle. Capacity 55 litres. Dimensions: 86 x 38 x 30 cm (33.9 x 15 x 11.8") 32 L/min at 3 bar







2 Two drain plugs without tool.

Galvanised frame for wall or fence mounting.

REF. DESIGNATION

Double waterer on polyethylene with constant level valve 1652 for standard pressure

+ ACCESSORIES







REF.

A614 Low pressure valve (blue) for water supply by gravity (<1 bar or 14.5 psi).

A317 Mounting set for BIGLAC 55 on tubes or fences

Mounting set for BIGLAC 25 and BIGLAC 25R on tubes or fences A318

A355 Protection frame for BIGLAC 55

BIGLAC 90

Multiple access deep waterer in H.D.P.E. with constant level valve.

With broad edge reducing water spills by lapping.

Suitable for 40 heads of big cattle.

Capacity 90 litres.









- 1 NEW: brass fitting 3/4" (20x27 mm) from top or bottom.
- @ Galvanised frame for wall or fence mounting.
- Rectangular quick and efficient drain plug (VIDE-VITE).

DESIGNATION

Large double waterer on polyethylene with constant level valve for standard pressure and quick draining 1655

PREBAC 70L

Double drinker with constant water level of 70 litres, made of HDPE Polychoc™ for watering 40 to 50 sheep outdoors and indoors





- Float-valve with high flow rate or low pressure included.
- Large rectangular quick discharge "VIDE-VITE".
- 3 2 anchor points for floor mouting or on concrete base.

| REF. | DESIGN | ATION |
|------|--------|-------|
| | | |

2219 Polychoc 70 I. trough - Standard pressure - Connection 3/4" (20x27)

2217 Same as 2219 but for low pressure (<1bar-14.5psi)(blue) for supply by gravity



CAST IRON BOWLS FOR LITTLE SNOUTS

BABYLAB™

Educational cast iron bowl designed for the «little snouts» (sheep, goats, young animals...).

A small amount of remaining water below the valve stimulates the animals to push the tube.

A pressure of 300 g on the push tube is enough to open the valve.

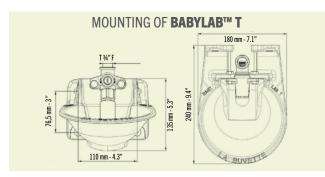


1 Connection to loop possible with T ¾" (20 x 27 mm)

2 4 fixing points

purposes

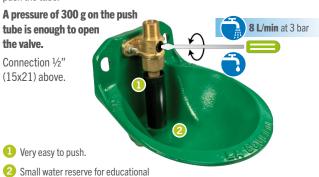
| REF. | DESIGNATION | PACKAGING |
|------|---|-------------|
| 2019 | Cast iron with Polycoat - Brass ¾" valve with T | Plastic bag |



BABYLABTM

Educational cast iron bowl designed for the «little snouts» (sheep, goats, young animals...).

A small amount of remaining water below the valve stimulates the animals to push the tube.



| REF. | DESIGNATION | PACKAGING |
|------|--|--------------|
| 2014 | Cast iron with Polycoat - Brass ½" valve | 2 per carton |
| 2012 | Enamelled cast iron - Brass ½" valve | 2 per carton |

BABYLAC

Small cast-iron bowl with constant level, ideal for 10 to 15 goats or sheep from a very early age on.

As it is impossible to nibble on it, BABYLAC is also very convenient for dogs.



Stainless steel valve cover

Orain system without tools 4 NEW: ¾" or ½" M water supply from right or left.

Dimensions: L. 26 x W. 25 x H. 17 cm 10.2" x 9.8" x 6.7"

REF.

2015

Capacity: 2,5 litres. Centres: 110 mm - Ø14 mm.



+ ACCESSORIES



| REF. | DESIGNATION |
|------|---|
| A308 | Mounting rail to adjust drinking bowl height (see page 107) |
| A309 | Complete connection set for LAC5/55 or BABYLAC mounted on A308 |
| A315 | Set of 2 galvanised steel brackets for mounting on tubes up to \emptyset 50 mm (2") |
| A316 | Set of 2 galvanised steel brackets for mounting on tubes Ø 50 to 75 mm (2" to 3") |
| A324 | Mounting bracket for drinker(s) on fence (see page 107) |
| A331 | Mounting bracket for drinkers on pole Ø 102 mm (4") and «Trèfle» |
| A361 | Corner plate for BABYLAB™ T and BABYLAC |
| A362 | Corner plate for BABYLAB™ |
| A367 | Connection set for water circuit: 2 stainless steel tubes 3/4" male |
| A373 | Connection set for water circuit - for small spaces: 2 st.st. tubes 3/4" M |
| A452 | Braided hose 600 mm (23.6"), with 2 swivels $15 \times 21 (1/2") + M-M$ fitting |

SYNTHETIC DRINKING BOWLS WITH PADDLE OR TUBE VALVE



FORSTAL

Shock resistant synthetic bowl.

Perfect for cattle or horses. 4 fixing points.

Connection 3/4" (20x27) from top or bottom.



Same brass 3/4" valve as F11 model.

Wide paddle, easy to push.



| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 3021 | Synthetic drinking bowl with horizontal paddle - Brass ¾" valve | 10 per carton |
| 3023 | Same as 3021 | Carton apiece |
| | | _ |

The synthetic bowl is made of sturdy material that has been tried and tested for over 15 years.





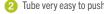
Vertical paddle for easier maintenance

| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 3022 | Synthetic drinking bowl with vertical paddle - Brass $\mbox{\em 34}\mbox{\em "}$ valve | 10 per carton |
| 3024 | Same as 3022 | Carton apiece |
| 3025 | Synthetic drinking bowl with vertical paddle - Brass 3/4" valve with T connection for a water circuit | 10 per carton |
| 3026 | Same as 3025 | Carton apiece |









| | | | 1 | | 13 L/min at 3 bar |
|---|--------------------------------|---|---------|----------|--------------------------|
| | 3 | Ĭ | | 3 | |
| 1 | Adjustable flow rate. | 2 | | | |
| 2 | Tube very easy to push | | LA 1001 | | |
| 3 | Also available with T fitting. | | | | |

| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 3027 | Synthetic drinking bowl with tube - Brass 3/4" valve | 10 per carton |
| 3029 | Same as 3027 | Carton apiece |
| 3028 | Synthetic drinking bowl with tube - Brass $\$4"$ valve - with T-fitting for connection to a water circuit | 10 per carton |
| 3030 | Same as 3028 | Carton apiece |

DID YOU KNOW?

In areas where freezing is likely, install the geothermal probe or heating wire (p.22) or connect your drinking bowls to a circulation system with a SPEED-FLOW pump and if needed one or more THERMOFLOWs (p. 20-21).

+ ACCESSORIES



| REF. | DESIGNATION |
|------|---|
| A359 | Connection set for water circuit: 2 stainless steel 3/4" tubes + rotary union |
| A352 | Metal protection frame in galvanised steel for drinking bowl |

+ GEOTHERMAL PROBE

Anti-frost protection without electricity for FORSTAL with

Copper water supply tube equipped with geothermal probe to keep the valve of the waterer frost-free.

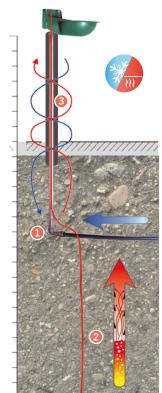
Efficient down to -15 °C (5°F) without electricity.

The geothermal probe contains a heat transfer gas. The probe is inserted into a copper tube and transfers the heat from the soil to the drinking bowl fittings to keep them frost-free.

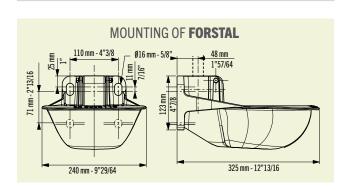


2 The probe transfers the geothermal heat from deep into the earth to the

Insulating jacket (supplied separately).



| REF. | DESIGNATION |
|------|--|
| A590 | Geothermal probe to keep frost-free a Forstal with paddle. Connection 34" |





HE ESSENTIALS

CAST IRON DRINKING BOWLS WITH PADDLE VALVE

S4

Ageless cast iron bowl with vertical or horizontal paddle.



1 Vertical paddle for easier maintenance

Connection without thread to horizontal 3/4" tube (20x27).



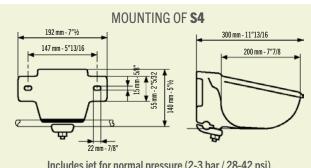
| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 1221 | Cast iron with Polycoat and vertical paddle | Plastic bag |
| 1222 | Same as 1221 | Carton apiece |



Horizontal paddle for easier learning



| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 1227 | Cast iron with Polycoat and horizontal paddle | Plastic bag |
| 1228 | Same as 1227 | Carton apiece |



Includes jet for normal pressure (2-3 bar / 28-42 psi).

Jets for higher or lower pressures are also available from our Spare Parts Catalogue.

DID YOU KNOW?

The brass valve of the F11 drinker has been demonstrating its quality for nearly 40 years.

It is easy to remove from the front and is equipped with a red jet for pressures up to 4 bar (13 l/min).

For supply by gravity, choose the spare part with ref. 1090715.

Find our complete spare parts catalogue on www.labuvette-waterers.co.uk



F11

Cast iron bowl with brass 3/4" valve. Reliability tried and tested for nearly 40 years.



 Horizontal, synthetic or stainless steel paddle.

4 fixing points. Connection 3/4" (20x27).



| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 3001 | Cast iron with Polycoat - Synthetic horizontal paddle - Brass 3/4" valve | Plastic bag |
| 3005 | Same as 3001 | Carton apiece |
| 3003 | Cast iron with Polycoat - Stainless steel horizontal paddle - Brass 3/4" valve | Plastic bag |
| 3007 | Same as 3003 | Carton apiece |



1 Synthetic vertical paddle.

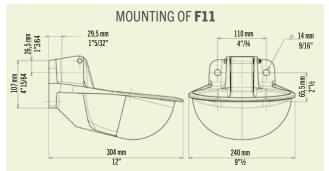








| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 3002 | Cast iron with Polycoat - Vertical paddle - Brass 3/4" valve | Plastic bag |
| 3006 | Same as 3002 | Carton apiece |
| 3008 | Cast iron with Polycoat - Vertical paddle - Brass 3/4" valve with T-fitting | Plastic bag |
| 3009 | Same as 3008 | Carton apiece |





| REF. | DESIGNATION | | | | |
|------|---|--|--|--|--|
| A315 | Set of 2 galvanised steel brackets for mounting on tubes up to \emptyset 50 mm (2") | | | | |
| A316 | Set of 2 galvanised steel brackets for mounting on tubes Ø 50 to 75 mm (2" to 3") | | | | |
| A352 | Metal protection frame in galvanised steel for F11 drinking bowl | | | | |

CAST IRON DRINKING BOWLS WITH MULTIPLE CONNECTION POINTS

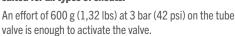
PATENTED



F30



Cast iron drinking bowl, deep and wide, suited for all types of snouts.





or vertical tube with optionnal brackets A315 or A316.

valve.



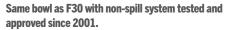
King-sized bowl: L. 319 x W. 260 x H. 178 mm. Connection 3/4" (20x27).

| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 3051 | Cast iron with Polycoat - Brass 3/4" valve with T fitting | Plastic bag |
| 3053 | Same as 3051 | Carton apiece |
| 3296 | Cast iron with Polycoat - Stainless steel 3/4" valve with T | Plastic bag |



F30 A





Limits water spilling and dirty litter.

King-sized bowl:

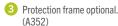
L. 319 x W. 260 x H. 178 mm.

Connection 3/4" (20x27)..



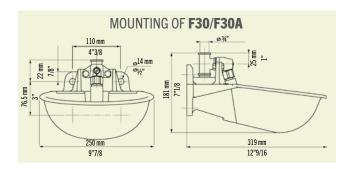








| REF. | DESIGNATION | PACKAGING |
|------|--|-------------|
| 3071 | Cast iron with Polycoat - Non-spill edge - Brass ¾" valve + T fitting | Plastic bag |
| 3297 | Cast iron with Polycoat - Non-spill edge - Stainless steel ¾" valve + T fitting | Plastic bag |



F60

Oversized cast iron bowl with non-spill metal edge.

Oversized bowl: L. 431 x W. 327 x H. 202 mm.

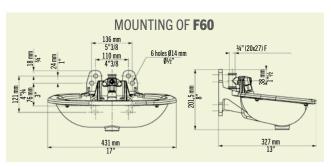
Connection 3/4" (20x27).





- 2 Jet breaker in the push tube.
- Orain plug without tool.

| REF. | DESIGNATION | PACKAGING |
|------|--|-------------|
| 3060 | Cast iron with Polycoat - Non-spill edge - Brass $\ensuremath{3\!/\!4}$ " valve with T | Plastic bag |
| 3214 | Cast iron with Polycoat - Non-spill edge - Stainless steel ¾" valve with T | Plastic bag |





| REF. | DESIGNATION |
|------|---|
| A315 | Set of 2 galvanised steel brackets for mounting on tubes up to \emptyset 50 mm (2") |
| A316 | Set of 2 galvanised steel brackets for mounting on tubes Ø 50 to 75 mm (2" to 3") |
| A331 | Mounting bracket for drinkers on pole Ø 102 mm (4") and «Trèfle» |
| A336 | Mounting bracket on H-shaped post (without drilling; 100-200 mm wide) |
| A337 | Mounting bracket for drinkers on pole Ø 140 mm (5"½) and «Trèfle» |
| A341 | Valve protection for F60 |
| A342 | Valve protection for F30 / F30 A |
| A352 | Metal protection frame in galvanised steel for drinking bowl F30, F30A |
| A353 | Metal protection frame in galvanised steel for drinking bowl F60 |
| A367 | Connection set for water circuit: 2 stainless steel tubes 3/4" male |
| A373 | Connection set for water circuit - for small spaces: 2 st.st. tubes 3/4" M |

HE ESSENTIALS

NON-SPILL HDPE DRINKING BOWLS WITH MULTIPLE CONNECTION POINTS

PATENTED



F40

Connection 3/4" (20x27 mm).



Large non-spill rotomoulded HDPE bowl with all-around galvanised protection edge.

HDPE bowl dimensions: L. 404 x W. 262 x H. 120 mm.





- Hot-dipped galvanised all-around protection edge: stronger and avoids nibbling.
- 2 Brass or stainless steel valve.
- 3 Jet breaker in the push tube.
- 4 Drain plug without tool.



REF. DESIGNATION

3065 HDPE drinking bowl with galvanised protection frame - Brass ¾" valve with T connection

3066 HDPE drinking bowl with galvanised protection frame - S.S. ¾" valve with T connection

MOUNTING OF **F40**343 mm - 13.5" 343 mm - 13.5" 343 mm - 13.5" 35,5 mm - 1.4" 375 mm - 3" 110 mm - 4.3" 416 mm - 16.4"

+ ACCESSORIES A315/A316 A331 A336 A337 A367

| REF. | DESIGNATION |
|------|---|
| A315 | Set of 2 galvanised steel brackets for mounting on tubes up to \emptyset 50 mm (2") |
| A316 | Set of 2 galvanised steel brackets for mounting on tubes Ø 50 to 75 mm (2" to 3") |
| A331 | Mounting bracket for drinkers on pole Ø 102 mm (4") and «Trèfle» |
| A336 | Mounting bracket on H-shaped post (without drilling; 100-200 mm wide) |
| A337 | Mounting bracket for drinkers on pole Ø 140 mm (5"½) and «Trèfle» |
| A367 | Connection set for water circuit: 2 stainless steel tubes 3/4" male |



F25



Non-spill rotomoulded HDPE bowl with all-around galvanised protection edge

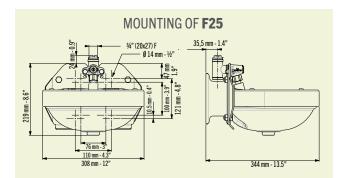
HDPE bowl dimensions: L. 295 x W. 262 x H. 120 mm.

Connection 3/4" (20x27 mm).



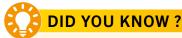
- Hot-dipped galvanised all-around protection edge: stronger and avoids nibbling.
- 2 Brass or stainless steel valve.
- 3 Drain plug without tool.

| REF. | DESIGNATION |
|------|---|
| 3063 | HDPE drinking bowl with galvanised protection frame - Brass $3\!4"$ valve with T connection |
| 3064 | HDPE drinking bowl with galvanised protection frame - S.S. 3/4" valve with T connection |



OUR ADVICE

In regions where freezing is likely, connect your drinkers to a circulation system with a SPEED-FLOW pump and one or two extra THERMOFLOWs if necessary (see pages 20-21).

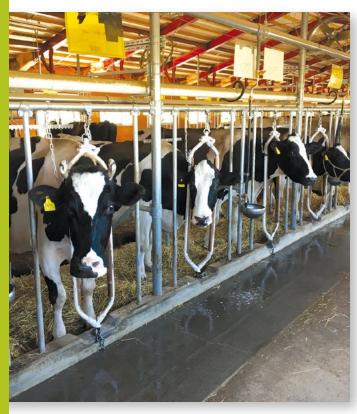


The new LAC 50 is the equivalent of F40 with constant level (see p. 9).





STAINLESS STEEL DRINKING BOWLS WITH CONNECTION FROM THE TOP





B19



Stainless steel valve. Shuts off the water supply automatically if the valve is removed. ½" (15x21) male connection.



Installation height: 60 - 70 cm *See accessories on page 106.*



REF. DESIGNATION

1458 Stainless steel drinking bowl with stainless steel ½" Male valve



F110 INOX

Seamless stainless steel drinker, sturdy and durable

Bowl with rounded edge to avoid water spilling. Stainless steel valve with high flow rate resist to the most acidic water.

Connection 3/4" from the top.

4 oblong mounting holes.



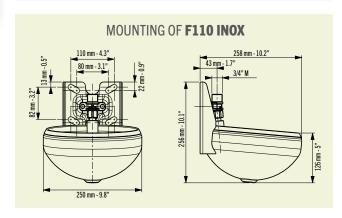
Smooth push tube valve, easy to activate

2 Large bowl inclined slightly forward for more comfort.



REF. DESIGNATION

3209 Stainless steel drinking bowl - Stainless steel 3/4" valve



+ ACCESSORIES









A361

A337

A334

A331 / A337

A336

| REF. | DESIGNATION |
|------|---|
| A361 | Corner plate |
| A331 | Mounting bracket for drinkers on pole Ø 102 mm (4") and «Trèfle» |
| A334 | Mounting bracket for drinkers on pole Ø 50 to 75 mm |
| A336 | Mounting bracket on H-shaped post (without drilling; 100-200 mm wide) |

Mounting bracket for drinkers on pole Ø 140 mm (5"1/2) and «Trèfle»



OUR ADVICE

If the water is acidic, choose the stainless steel F110 INOX. The stainless steel valve ensures a longer service life.



THE ESSENTIALS

STAINLESS STEEL DRINKING BOWL WITH MULTIPLE CONNECTION POINTS

PATENT

F130 INOX



Seamless stainless steel drinker, sturdy and durable

Bowl with rounded edge to avoid water spilling.

Stainless steel valve with adjustable and high flow rate. Resist to the most acidic water.

Connection 3/4" with T-fitting for multiple possibilities.

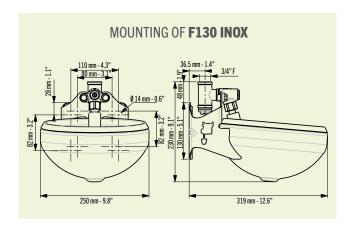
4 oblong mounting holes.



- 1 Smooth push tube valve, easy to activate
- 2 Large bowl inclined slightly forward for more comfort.
- 3 Stainless steel mounting plate designed to prevent dirt deposits.

REF. DESIGNATION

3217 Stainless steel drinking bowl - Stainless steel ¾" valve with T-fitting



DID YOU KNOW?

An all stainless steel waterer is recommended in case of acid water. A stainless steel valve provides the best guarantee for a long service life.



ACCESSORIES



| REF. | DESIGNATION | | | | |
|------|---|--|--|--|--|
| A315 | Set of 2 galvanised steel brackets for mounting on tubes up to \emptyset 50 mm (2") | | | | |
| A316 | Set of 2 galvanised steel brackets for mounting on tubes Ø 50 to 75 mm (2" to 3") | | | | |
| A331 | Mounting bracket for drinkers on pole Ø 102 mm (4") and «Trèfle» | | | | |
| A336 | Mounting bracket on H-shaped post (without drilling ; 100-200 mm wide) | | | | |
| A337 | Mounting bracket for drinkers on pole Ø 140 mm (5"½) and «Trèfle» | | | | |
| A352 | Metal protection frame in galvanised steel for drinking bowl F130 INOX | | | | |
| A367 | Connection set for water circuit: 2 stainless steel tubes 3/4" male | | | | |

OUR ADVICE

If the water is acidic and you want to connect your drinking bowls in a circulation system, we recommend the F130 INOX.

In regions where freezing is likely, connect your drinkers to a circulation system with a SPEED-FLOW pump and one or two extra THERMOFLOWs if necessary (see pages 20-21).

ADVICE FROM LA BUVETTE® ON FROST-FREE SOLUTIONS



PROTECTION OF NEW OR EXISTING WATER LINES AND VALVES

| | | PRINCIPLE | POWER CONSUMPTION | VOLTAGE | POWER | TYPE OF USE | EFFICIENCY |
|----|-------------------------|---|------------------------|---------|---|--|--------------------------------|
| 20 | SPEED-FLOW | High-power pump for circulation system with high flow rate for line of drinkers. | Average | 230 V | 550 W (continuously, or set in option) | For underground water supply to the entire line of drinkers. | Down to -15 °C (5 °F). |
| 21 | THERMOFLOW | Extra 1500 W programmable and autonomous heater for water lines that are already equipped with a circulation pump (SPEED-FLOW or other). | Variable | 230 V | 1500 W (set) | For all types of underground or surface lines. Installation of several THERMOFLOWs in series possible. | Down to -30 °C (-22 °F). |
| 22 | Heating strip and cable | The self-regulating strip heats the cold parts of the installation. The full length of the cable is heated as soon as the built-in thermostat is triggered. | Economical consumption | 230 V | Tape: Up to 10 W/m (regulated) Cable 230 V: 16 W/m from 6 °C | For surface lines in already existing installations. | Down to -45 °C (-49 °F). |

DRINKERS WITH ELECTRICAL HEATING Automatic start and stop possible with the optional A532 thermostat.

| | Automate start and stop possible with the optional roots are mostati. | | | | | | | |
|----|---|---|--|---------|--|---|-------------------------------|--|
| | | PRINCIPLE | LIVESTOCK | VOLTAGE | POWER | TYPE OF USE | EFFICIENCY | |
| 24 | F130 EL | Single access drinker with heating element surrounding the bowl and valve. | Cattle and horses | 24 V | 30 W or 80 W (continuously) | For all installations. | Down to -20 °C | |
| 25 | NORMANDY | Single access polyethylene wall-mounted drinkers with constant level or paddle, equipped with heating element under the bowl (optional). | Cattle, horses and sheep | 24 V | 80W (continuously) | For underground or overhead water supply lines. | Down to -20 °C (-4 °F). | |
| 26 | LAKCHO 2 STALCHO 2 | Single access polyethylene drinkers with constant level or paddle to be mounted on a stand. Equipped with an electrical heating element under the bowl. | LAKCHO 2: cattle, sheep, goats and horses STALCHO 2: Cattle and horses | 24 V | 50 W, 80 W or 180 W depending on type (continuously) | For underground water supply lines. | Down to -20 °C (-4 °F). | |
| 27 | BIGCHO 2 BIGSTAL 2 | Single access stainless steel drinkers with constant level or paddle to be mounted on a stand. Feature an electrical heating element under the bowl. | BIGCHO II: AII BIGSTAL II: Cattle and horses | 24 V | 50 W or 80 W (continuously) | For underground water supply lines. | Down to -20 °C (-4 °F). | |
| 28 | POLYSTALL | Drinkers with constant water level, single or double access, with one or two electrical heating elements under the trough (optional) | Cattle | 24 V | 80 W or 160 W depending on type (continuously) | For all installations. | Down to -20 °C (-4 °F). | |
| 30 | EASY-STALL | Stainless steel water troughs with constant level, easy access of 45 or 100 cm wide to the water, with or without electrical resistance under the bottom (option). | Cattle | 24 V | 80 W (continuously) | For all installations. | Down to -20 °C (-4 °F). | |
| 32 | LB & GV | Large stainless steel drinkers for wall-mounting or installation on feet, with constant water level and electrical heating element under the trough and/or in the valve (optional). | Cattle | 24 V | 20 W or 350 W or 370 W depending on anti-freeze optionsl (continuously) | For underground or lower wall mounted water supply lines. | Down to -20 °C (-4 °F). | |
| 40 | MICHIGAN DUO BAÏKAL 230 | Large stainless steel drinkers with double-walled polyethylene base, constant water level and electrical heating element under the trough and/or in the valve (optional) | Cattle | 24 V | 20 W or 350 W or 370 W depending on anti-freeze optionsl (continuously) | For underground water supply lines. | Down to -20 °C (-4 °F). | |
| 42 | ISOBAC MULTI 220 EL MULTI-TWIN EL | Polyethylene double-walled constant level drinkers for more than one animal with heating element under the trough. | Cattle | 24 V | from 100 W to 400 W depending on type (continuously) | For underground water supply lines. | Down to -20 °C (-4 °F). | |

FROST-FREE SOLUTIONS WITHOUT ELECTRICITY

| | | PRINCIPLE | LIVESTOCK | TYPE OF USE | EFFICIENCY |
|-----|-----------------------|---|---|--|-----------------------------|
| 12 | Geothermal probe | The probe holding a heat transfer gas transfers the heat of the earth to the valve of the drinker with paddle FORSTAL. | Horses and young cattle | Underground water supply lines, FORSTAL paddle. | Down to -15 °C (5 °F). |
| 39 | DAIRY-BAC DAIRYNOX | Large volume trough with overflow receiving lukewarm warm from the milk precooler. | Dairy cows | Milk precooler | Down to -30 °C (-22 °F). |
| 46 | THERMOLAC | While the animals are drinking, the drinker is filled with fresh water and the double polyurethane wall filled with polyurethane foam keeps it at a constant temperature. | GV types (with balls): Cattle and horses B types (with bowls): Sheep and goats | Underground water supply lines | Down to -30 °C (-22 °F). |
| 105 | ISOBAR 250 | A water reserve that is maintained at a controlled temperature by the double-walled trough and floating cover filled with high density polyurethane foam | Horses in small numbers | Manual filling (no water connection) | Down to -15 °C (5 °F). |

See detailed descriptions on the following pages.



FROST-FREE CIRCULATION PUMP

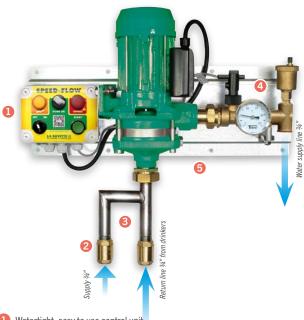
SPEED-FLOW



Powerful pump (230 V / 550 W) that keeps a drinking bowl circuit frostfree by circulating the water at high speed.

Suitable for a circuit of drinkers up to 125 m to and 125 m back with underground lines. Beyond this distance, an extra A556 pump is recommended.

A visual and audible alarm can be added and the operation of the SPEED-FLOW can be made fully automatic (see Accessories).



- Watertight, easy to use control unit
- Supply from the water mains (≥2 bar). A446 filter obligatory, to order separately.
- Stainless steel water lines with 3/4" non-return valves
- Safety features: Flow switch, temperature gauge and automatic bleed valve
- Complete assembly comes on galvanised frame.

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 1669 | Frost-free powerful pump with high flow rate - 230 V / 550 W | Carton apiece |

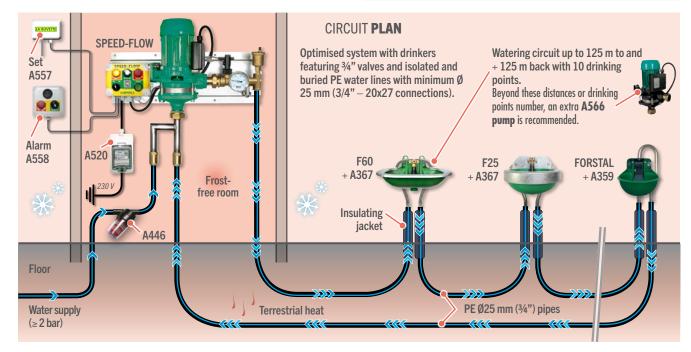
OUR ADVICE

To ensure optimum efficiency without wasting energy, you have to use Ø 25 mm PE pipes (3/4") and bury them in the ground as much as possible to absorb the heat from the soil. Insulate the lines above ground with a 13 mm foam jacket and protect them against the animals with the galvanised protection frame A358. If there is a risk of heavy frost, add one or more THERMOFLOWs to your installation. They will only switch on when necessary.

Install the SPEED-FLOW in a frost-free room or use heating wire (see page 22) to protect the water supply against frost.



| REF. | DESIGNATION |
|------|--|
| A556 | Additional 230 V / 550 W pump, Connection $34\ensuremath{^{\prime\prime}}$ (20 x 27), automatic bleed valve included |
| A557 | Automation set for SPEED-FLOW manufactured after 12/2014 |
| A558 | Alarm set for SPEED-FLOW manufactured after 12/2014 |
| A446 | Visi-Filter VF6, 100 microns - 6m³/h - mandatory |
| A552 | Additional automatic bleed valve to be installed at each high point of the installation |
| A520 | Differential circuit breaker, 30 mA for 230 V single-phase with watertight cabinet |



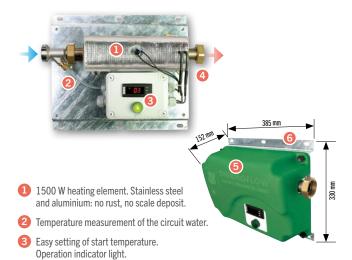
AUTONOMOUS HEATER

THERMOFLOW



Additional programmable 1500 W heater pfor SPEED-FLOW or another circulation system.

Automatic on/off function depending on the programmed water temperature for consumption management.



- 4 1"½ male and female fittings with swivel nuts.
- 6 HDPE cover.
- 6 Compact device comes fully installed on its galvanised frame. Installation made easier by means of 6 slotted mounting holes.

THERMOFLOW is suitable for circuits with surface lines.

Installation of several THERMOFLOWs in series possible for extreme conditions (see OUR ADVICE). Independent 230 V power supply.

| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| A301 | Additional programmable 1500 W heater 230 V singlephase - Connection 1"1/2 Mandatory 30 mA differential breaker, separately available (see below) | Carton apiece |



THERMOFLOW suits all drinking circuits equipped with a circulation pump. It improves the latter's anti-freeze performance only when it is required by the climatic conditions. THERMOFLOW is independent, it can be installed wherever you want.

Depending on the required anti-freeze performance, LA BUVETTE recommends the use of one or more THERMOFLOWs.

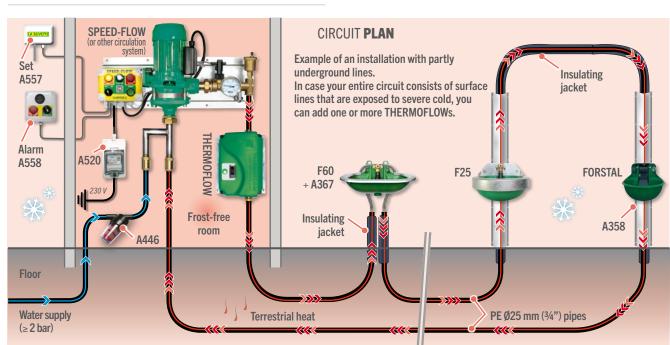
+ ACCESSORIES



| N330 | 71000 | 71000 | 11007 11000 | 71070 | NOLU | 71001 |
|------|-------------------------------------|--------------|---------------------------------------|---------------|-----------------|--------|
| REF. | DESIGNATION | | | | | |
| A358 | Water pipe prot Useful dim. L. 7 | | | | | |
| A359 | Connection set tubes + rotary | | circuit (FORSTAI | _, p.12): 2 s | tainless steel | 3/4" |
| A363 | | | circuit (POLYSTA s + T ½" + rotary | | | |
| A367 | Connection set 2 stainless ste | | circuit suitable f | or waterer v | vith ¾" T: | |
| A365 | Same as A367 v | with T for v | alve with ½" conn | ection | | |
| A368 | Connection set | for water c | ircuit suitable for I | MULTI 220 (p | .44) | |
| A373 | Connection set | for water ci | rcuit - for small sp | aces: 2 stain | less steel tube | s ¾" M |

A520 Differential circuit breaker, 30 mA for 230 V single-phase with watertight cabinet

A551 Safety valve of 7 bar – recommended for any circuit with heating system



GENERAL CATALOGUE LA BUVETTE 2023/24

HEATING WIRES AND CABLES

HEATING STRIP SELF-REGULATING 230 V



Self-regulating 230 V heating strip consisting of two electric wires encased in a polymer coat with conductive graphite particles for variable heating. The heating intensity is adjusted in each point of the line according to the temperature.







| 0166 | THE CHARLET AND A STATE OF THE |
|------|---|
| REF. | DESIGNATION |
| | |

C151 Self-regulating heating wire 230 V (10 W/metre) per metre (39.4")

+ ACCESSORIES



| REF. | DESIGNATION |
|------|--|
| C170 | DomoClick® electric connection set / terminal |
| C175 | Aluminium tape on 50 metres (54 yd) roll |
| C180 | Warning labels for wire sold per metre, obligatory (1 every 5 metres (16')) |
| A532 | Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (max. 120 m (131 yd) of heating wire) |
| A358 | Water pipe protection in galvanised steel - useful dim. L. 750 x W. 60 x D. 75 mm |
| A520 | Differential circuit breaker, 30 mA for 230 V single-phase with watertight cabinet |
| | |

HEATING CABLE FOR WATER SUPPLY 24V/22W



Heating wire of 24 V / 22 W with a length of 3 m, especially designed for drinking bowl water supply. Aluminium tape included.

Connected in a loop to a transformer 230/24 V (not included, see page p. 24).



REF. DESIGNATION

C162 Heating cable 24 V / 22 W - Length: 3 m, to protect water supply

INSTALLATION SELF-REGULATING HEATING WIRE (REF. C151) The wire consists of two Heating wire power cables surrounded C151 with polymer (insulating plastic) Domoclick charged with conductive graphite C170 particles. Insulated Aluminium A532 jacket • When it is cold: Polymer shrinks. Tape C175 (ootion) Graphite particles make contact, thus heating the wire. Cable • When it is warm: Polymer expands. A358 strap Graphite particles do not make contact, thus heating less the wire. Aluminium tape (to pose in first on **Terminal** synthetic pipes) **Domoclick** Floor Water supply The self-regulating heating strip is energy-efficient. It only heats the sections of the water line that need it. Cut at the required length (max. 200 m).

HEATING CABLES READY TO CONNECT

HEATING CABLE READY TO PLUG 230V

230 V ready to connect heating cable with built-in thermostat activated at 6 $^{\circ}$ C.

Ideal to protect surface lines in existing installations (9 lengths from 2 to 48 m; Cannot be cut).



Differential circuit breaker 30 mA obligatory, delivered separately (A520).

- Efficient heating down to -45 °C.
- 2 230 V plug and 2 m long power cable.
- 3 Thermostat to be placed against the water line.
- 4 In blister pack with installation instructions.



| REF. | DESIGNATION | PACKAGING |
|------|-----------------------------------|-----------|
| C140 | Heating cable 230 V - Length 2 m | Blister |
| C141 | Heating cable 230 V - Length 4 m | Blister |
| C142 | Heating cable 230 V - Length 8 m | Blister |
| C143 | Heating cable 230 V - Length 12 m | Blister |
| C144 | Heating cable 230 V - Length 14 m | Blister |
| C145 | Heating cable 230 V - Length 18 m | Blister |
| C146 | Heating cable 230 V - Length 24 m | Blister |
| C147 | Heating cable 230 V - Length 36 m | Blister |
| C148 | Heating cable 230 V - Length 48 m | Blister |

OUR ADVICE

The LA BUVETTE anti-freeze heating wire must not be shortened or extended. The unused ends can be coiled on the water line (with a distance between the turns of the spiral of at least 15 mm).

IMPORTANT:

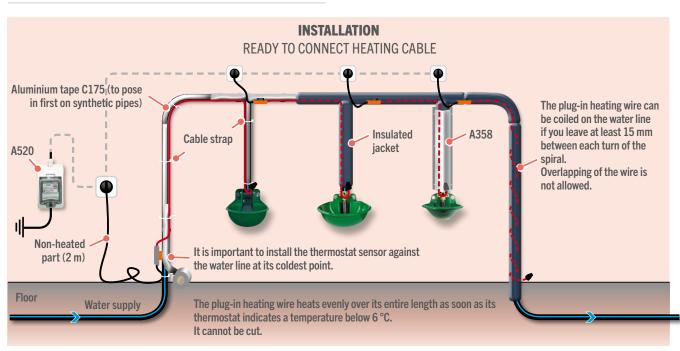
Synthetic tubes must be covered with aluminium adhesive tape (ref. C175) before installing the LA BUVETTE heating wire. It protects the tube and distributes the heat.

DID YOU KNOW ?

The built-in thermostat of the heating wire starts heating as soon as the temperature of the water line drops below +6 °C and stops automatically when the temperature reaches more than +11 °C.

The anti-freezing efficiency of the plug-in heating wires varies according to the diameter and the insulation quality of the surface lines:

| WITHOUT Insulation | INSULATED With 13 mm thick foam |
|-----------------------|---|
| -20°C (-4°F) | -45°C (-49°F) |
| -13°C (8.6°F) | -45°C (-49°F) |
| -10°C (14°F) | -40°C (-40°F) |
| -7°C (19.4°F) | -40°C (-40°F) |
| -5°C (23°F) | -35°C (-31°F) |
| -4°C (25°F) | -30°C (-22°F) |
| -3°C (26.5°F) | -25°C (-13°F) |
| -2°C (28.4°F) | -20°C (-4°F) |
| | -20°C (-4°F) -13°C (8.6°F) -10°C (14°F) -7°C (19.4°F) -5°C (23°F) -4°C (25°F) -3°C (26.5°F) |



ELECTRIC ACCESSORIES AND WALL-MOUNTED FROST-FREE DRINKER

TRANSFORMERS

Transformers (230/24 V) shell-type. European norm EN 60.742.



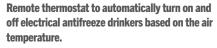
Maximum power of 50 to 400 W depending on the type.

A transformer may be used with several drinkers

Please mind the maximum power and cable diameters (see diagram).

| REF. | DESIGNATION |
|------|---|
| A505 | Transformer 50 VA for 1 LAKCHO 50 W or of equal value |
| A504 | Transformer 100 VA for 2 LAKCHO 50 W or 1 ISOBAC 100 W or of equal to100 W |
| A503 | Transformer 200 VA for 4 LAKCHO 50 W or 2 ISOBAC 100 W or of equal to 200 W |
| A501 | Transformer 300 VA for 6 LAKCHO 50 W or 3 ISOBAC 100 W or of equal to 300 W |
| A502 | Transformer 400 VA for 8 LAKCHO 50 W or 4 ISOBAC 100 W or of equal to 400 W |

+ REMOTE THERMOSTAT



Automatic activation at 2 °C and switch off by means of outdoor sensor.

Waterproof box to be placed on a wall that is exposed to wind and cold.

A thermostat can be sufficient for several drinkers: **Maximum capacity 1200 W.**

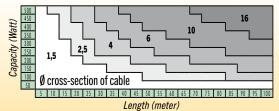


REF. DESIGNATION

A532 Remote thermostat for frost-free electric drinkers: Max capacity: 1200 W

0

OUR ADVICE



Use an electric cable with a suitable diameter for the installation's output. Consult the chart above.

The installation of a fuse on the primary (230 V) and the auxiliary power line of the transformer (24 V) is mandatory.

F130 EL 24V/30W or 80W



Stainless steel drinking bowl with outer shell in enamelled cast iron and pre-installed 30 or 80 W / 24 V heating element for frost protection.

Sturdy, deep, non-spill and compact.

Connection 1/2" (15x21) female from top / bottom.

4 fixing points Ø14 mm.



- Stainless steel bowl and valve.
- The push tube with jet breaker supplies water without splashing.
- 3 Drain plug.
- The heating element for the F130 EL surrounds both bowl and valve.





Transformer 230/24 V required, delivered separately.

REF. DESIGNATION

3246 Drinking bowl with heating element 30 W - 24 V

3247 Drinking bowl with heating element 80 W - 24 V for the northern countries

ACCESSORIES



| REF. | DESIGNATION |
|------|---|
| A532 | Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W) |
| A354 | Metal protection frame in galvanised steel for F130 EL |
| A319 | Set of 2 galvanised steel brackets for mounting F130 EL on tube |
| C162 | Heating cable 24 V / 22 W - Length: 3 m. to protect water supply |



WALL-MOUNTED DRINKER

NORMANDY

Compact HDPE drinker with push tube or constant level. 4 wall fixing points.



- Adjustable constant level or very easily operated push tube.
- Stainless steel valve cover and anti-nibbling edge.
- Large access door for water connection and installation of anti-freeze power set.
- Oraining without tools.

Very sturdy rotomoulded seamless HDPE construction, food-safe and UV resistant. Top or bottom connection to the water supply line: Connection made easy by means of pre-installed 3/4" (20x27) stainless steel braided hose. Large bowl, quick and easy to clean.

| REF. | DESIGNATION | PACKAGING |
|------|-------------------------------|---------------|
| 1716 | NORMANDY with push tube valve | Carton apiece |
| 1717 | NORMANDY with float valve | Carton apiece |

+ ACCESSORIES

Metal protection to protect water supply lines. Fit for tubes with insulating foam jacket.



Insulated PU-foam-filled double-walled **HDPE stand** to protect water supply lines from below. Very high shock resistance. Wall-mounted to save space

Can be cut into 2. You can install 2 NORMANDY drinkers using one A576 advice).



| 6 stand (see our | |
|------------------|--|
| | |
| A576 | |

| | MAN A STATE OF THE |
|------|--|
| REF. | DESIGNATION |
| A358 | Metal protection profile in galvanised steel - useful dim. L. $750x$ W. $60x$ D. $75mm$. |
| A576 | PU-foam-filled HDPE stand — Height 560 mm |

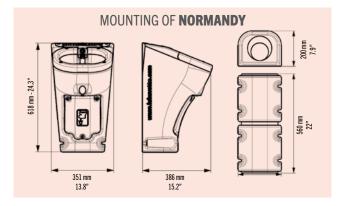
FROST PROTECTION



Anti-freeze power set 24V/80W to be installed under the bowl of a NORMANDY. Protects both the valve and the bowl from freezing down to -20°C (-4°F).



| REF. | DESIGNATION |
|------|---|
| A396 | Anti-freeze power set of $80\text{W}/24\text{V}$ to protect the bowl and valve. |
| A504 | 100 VA transformer for 1 NORMANDY with A396 and C162 |
| C162 | Heating wire of 22 W/24 V -3m long for water supply line |
| A532 | Remote thermostat for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W) |



DID YOU KNOW?

LA BUVETTE developed the first connected watering system to monitor and control the water intake of race and other sport horses: the BLUE INTELLIGENCE™ solution.

More information on www.blueintelligence-labuvette.com.

OUR ADVICE Adapt the height to the size of the animals for more comfort and less dirt in the drinker. Without stand A576: 49 cm for yeals and sheep. 2 With ½ stand A576: 77 cm for cattle. 3 With 1 stand A576: 105 cm for horses. (3)

ELECTRIC FROST-FREE DRINKERS ON STAND





STALCHO 2

24V/50W or 80W

EXTRA-large anti-frost drinker in HDPE with large horizontal paddle to be mounted on a stand.

Identical specifications as LAKCHO 2 with stainless steel paddle valve.





Electric frost protection system, (same as LAKCHO 2) efficient down to -20 °C (-4°F): Heating element 24 V/50 or 80 W. Also available without frost protection.

Transformer 230/24 V required, delivered separately.

| REF. | DESIGNATION |
|------|---|
| 1641 | Bowl with stainless steel paddle and heating element 24 V - 50 W $$ |
| 1841 | Same as 1641 with heating element 24 V - 80 W (northern countries) |
| 1731 | Same as 1641 without heating element |

+ ACCESSORIES



Transformers 230/24 V mandatory, see page 24.



| | • |
|------|--|
| REF. | DESIGNATION |
| A505 | Transformer 50 VA for 1 LAKCHO 50 W or of equal value |
| A504 | Transformer 100 VA for 2 LAKCHO 50 W or 1 ISOBAC 100 W or of equal to 100 W $$ |
| A503 | Transformer 200 VA for 4 LAKCHO 50 W or 2 ISOBAC 100 W or of equal to 200 W |
| A532 | Remote thermostat for frost-free electric waterers: Automatic on/off according to the temperature (3°C / 37 4°F). Watertight cabinet. May capacity: 1200 W |

LAKCHO 2 24V/50W or 80W

EXTRA-large frost-free HDPE bowl with constant water level, to be mounted on a PE or concrete stand (int. ø 300 mm)



Water access 320 x 200 mm, maximum reserve of 5,5 litres

Seamless HDPE design

Simplified mounting system

4 Stainless steel edge and cover

Drain system without tools / Operation indicator light



Electric frost protection system, efficient down to -20 °C (-4°F).

½" female fitting complete with 1 m stainless steel braided hose.

Transformer 230/24 V required, delivered separately.

| REF. | DESIGNATION |
|------|--|
| 1640 | Bowl with constant water level and heating element 24 V - 50 W $$ |
| 1840 | Same as 1640 with heating element 24 V - 80 W (northern countries) |
| 1730 | Same as 1640 without heating element |

LAKCHO 2 **24V/180W "WARM WATER"**

Version with 180W heating element to distribute lukewarm water.

Replaces CALDOLAC 5. Ideal for 15 dairy ewes.



Internal thermostat Water at +10 to +15°C.



REF. DESIGNATION

Bowl with constant water level and heating element 24 V - 180 W 1642 with internal thermostat (to supply warm water)

DID YOU KNOW?

- . Dairy cows prefer to drink heated water. Giving them lukewarm water helps limit a decrease in milk production, especially in the wintertime.
- ARM WATE • Polyethylene reduces the heat exchange with the external atmosphere and maintains the lukewarm temperature of the water longer than a metal trough.
- It is a good idea to distribute the lukewarm water of the milk precooler to the big DAIRYNOX 600 trough, see page 39.

ROST-FREE PRODUCTS

ELECTRIC FROST-FREE STAINLESS STEEL DRINKING BOWL ON STAND

BIGCHO 2 24V/50W or 80W

**

Frost-free non-spill drinker with constant water level to be mounted on a stand. Easy installation: 6 mounting positions. Largely proportioned bowl for installation between 2 pens.

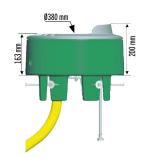


- Stainless steel bowl and cover.
- 2 Stainless steel bowl and cover.
- 3 Double skin H.D.P.E. base, insulated by polyurethane foam.



Electric frost protection system, efficient down to -20 °C (-4°F): Heating element 24 V/50 or 80 W. Also available without frost protection.

- Bowl depth: 100 mm
- Bowl capacity: 5.5 litres
- To be mounted on polyethylene or concrete stand (int-Ø 300 mm 11,8").
- Drinking height: 560 mm (22") on 400 mm (15,7") PE stand, 760 mm (30") on 600 mm (23,6") PE stand, 900 mm(35,5") on 740 mm (29,1") PE stand.
- S. s. threaded drain plug, s. s. ½" braided hose and drain hose are included.



3

Transformer 230/24 V required, delivered separately.

| ··············· | | |
|-----------------|--|--|
| REF. | DESIGNATION | |
| 1639 | Stainless steel non-spill bowl, constant water level, with heating element 24 V - 50 W | |
| 1839 | Same as 1639 with heating element 24 V - 80 W (northern countries) | |
| 1712 | Same as 1639 without heating element | |

BIGSTAL 2 24V/50W or 80W

Frost-free non-spill drinkers with wide horizontal paddle to be mounted on a stand.

Same specifications as BIGCHO 2 with stainless steel paddle.



Stand sold separately.

Transformer 230/24 V required, delivered separately.

| Transformer 230/24 v required, delivered separately. | | |
|--|--|--|
| REF. | DESIGNATION | |
| 1643 | Stainless steel non-spill bowl, stainless steel paddle, with heating element 24 V - 50 W | |
| 1843 | Same as 1643 with heating element 24 V - 80 W (northern countries) | |
| 1713 | Same as 1643 without heating element | |



+ HDPE-STAND

*

Foam-insulated PE Stand with a hole for drain hose. (Plug included).



H 400 mm: For calves, sheeps, goats, ponies...



H 600 mm: Ideal for cattle in the existing buildings.



H 740 mm: Especially designed for horses.



H 1000 mm: Perfect for first installation.



 $\textbf{A574} \qquad \text{Height 1000 mm to be embedded in 400 mm concrete}$

A573 Height 740 mm to be fixed to the floor; Especially designed for horses.

 $\textbf{A572} \qquad \text{Height 600 mm to be fixed to the floor} \\$

A570 Height 400 mmto be fixed to the floor; Especially designed for little animals: calves, sheeps, goats, ponies...



DID YOU KNOW?

The LA BUVETTE® stands are sturdier and easier to install than concrete stands. The double-walled polyethylene is filled with insulating polyurethane foam to ensure perfect thermal insulation.

They are equipped with a drain hole for drinkers with a drain plug.









SINGLE-ACCESS STAINLESS STEEL WATERER



+ ACCESSORIES



In cold climates, the POLYSTALL can be equipped with 1 to 2 anti-freeze elements A333, effective down to -20 °C.



| | | Transforme |
|------|-----|------------|
| REF. | DES | IGNATION |

| | Transformer 230/24 V is required (delivered separately, see page 24). |
|------|---|
| REF. | DESIGNATION |
| A372 | Side mounting support |
| A317 | Mounting bracket for fence |

A333 24 V - 80 W frost protection set. Transformers to order separately

A332 Single door set for POLYSTALL in double-walled polyethylene A363 Connection set for water circuit: Stainless steel tube 3/4" + 1/2" T + Rotary union

Remote thermostat for frost-free electric drinkers: for automatic on/off

A532 switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W)

C162 Heating cable 24 V / 22 W - Length: 3 m, to protect water supply

DID YOU KNOW?

The optional bracket A372 allows you to install a single-access POLYSTALL at the end of corridors between cubicles. This means the animal drinks in the mechanically scraped area and does not soil the passageway.



POLYSTALL PREMIUM

Single-access wall-mounted stainless steel drinker with constant water level and double-walled polyethylene door.

High flow rate valve.









- Double-walled polyethylene door (only on PREMIUM version):
 - Protection from impurities (litter, birds, dung...)
 - Insulating capacity to protect against the first cold.
 - Easier cleaning and maintenance
- **2** Valve32 I./min. (flow rate measured at 3 bar) with shutoff pin. On single access drinkers the water supply can be connected from the left or the right.
- Oouble inward folded non-spill edge. No salient parts.
- 4 Bulkhead screw-in drain plug.

DESIGNATION REF.

1609 Single-access s.s. drinker with float valve and one double-walled polyethylene door.

1607 Same as 1609 with no door

MOUNTING OF POLYSTALL 394 mm - 15.5 92.5 mm - 3.6 354 mm - 13.9 PV BOARWE POLYSTALL 220 mm -460 mm - 18.1"

DOUBLE-ACCESS STAINLESS STEEL WATERER

POLYSTALL TWIN PREMIUM

Double-access wall-mounted stainless steel drinker with constant water level and **double-walled polyethylene doors.**

High flow rate valve.



Accessories on page 28.



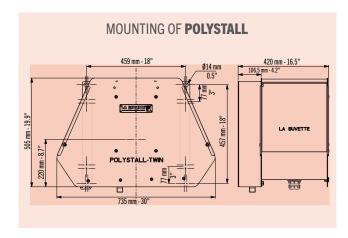


Standard version, without door,

| DEE | DECICUATION |
|------|-------------|
| REF. | DESIGNATION |

1610 Double-access s.s. drinker with float valve and two double-walled polyethylene doors.

1608 Same as 1610 with no door





USER'S OPINION

With the POLYSTALL TWIN
PREMIUM, both the
water and the floor stay
perfectly clean

WITH THE POLYSTALL TWIN PREMIUM, BOTH THE WATER AND THE FLOOR STAY PERFECTLY CLEAN

I installed a POLYSTALL TWIN PREMIUM at

the end of a passageway, between two cubicles. The cows got easily accustomed to drinking from either side of the barrier two at the same time. The polyethylene doors keep the water clean, the animals do not spill water and the floor underneath the drinker stays dry. It is also easy to install: I mounted it on two bar in less than an hour.







OUR ADVICE

The POLYSTALLs are perfects for rather narrow passageways between cubicles.

It allows cows to drink standing parallel to the wall without hindering the free movement of the other cows. Another advantage is that there will be less cow dung in the passageways between the cubicles.







SINGLE-ACCESS STAINLESS STEEL WATERER



+ ACCESSORIES



Transformer 230/24 V is required delivered separately.

| REF. | DESIGNATION |
|------|---|
| A317 | Mounting bracket for fence |
| A324 | Back-to-back mounting brackets (on fence) (2 x A324 for 1 to 2 drinker) |
| A333 | 24 V - 80 W frost protection set. Transformers sold separately |
| A345 | Metal protection frame in galvanised steel for EASY-STALL 45 |
| A617 | Float valve for low pressure (blue color) (< 1 bar) ; 15 L/min. at 0,2 bar) |
| C162 | Heating cable 24 V / 22 W - Length: 3 m, to protect water supply |
| A532 | Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W) |
| A504 | Transformator 100 VA for 1 EASY-STALL with A333 and C162 |

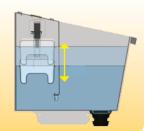
OUR ADVICE

Change the water reserve by adapting the height of the float valve without tools.

Min. level: 9 litres

Max level: 27 litres

Recommended level: 23 litres (at 30 mm from the edge).



EASY-STALL 45

Wall-mounted stainless steel drinking trough for all cattle. Forward-inclined trough with large water access 35 x 22 cm (13.8" x 8.7").

Reserve of 25 litres (6.60 USG).

High flow valve. Brass fitting 3/4" (20 x 27 mm) M.

Suitable for 10 dairy cows or 15 nursing cows.





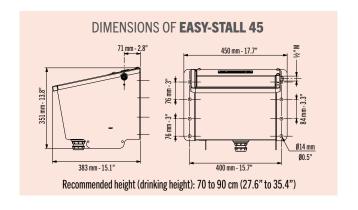




- 1 25 litre content with forward-inclined access for greater comfort.
- 2 Sturdy design made of stainless steel with rounded edges for animal security.
- 3 Float valve 32 I/min (at 3 bar) protected by stainless steel cover. Easily adjustable water level. Water inlet 3/4" (20x27 mm) male from the right.
- 4 Drain without tools Ø1" 1/4 screw plug
- 5 Suitable for installation of electrical anti-freeze element 80W/24V ref. A333 effective down to -20 °C (see ACCESSORIES).
- 6 Wall mounting 4 points. 8 anchorage points. Suitable for mounting on a fence (see ACCESSORIES).

REF. DESIGNATION

2425 EASY-STALL 45 Stainless steel drinker with float valve



DOUBLE-ACCESS STAINLESS STEEL WATERER

EASY-STALL 100

Wall-mounted stainless steel drinking trough for all cattle. Forward-inclined trough with large water access 90 x 36 cm (35.4" x 14.2")

Reserve of 60 litres (15.85 USG).

High flow valve. Brass fitting 3/4" (20 x 27 mm) M.

Suitable for 20 dairy cows or 30 nursing cows.











Sturdy design made of stainless steel with rounded edges for animal security.

3 Float valve 32 I/min (at 3 bar) protected by stainless steel cover. Easily adjustable water level. Water inlet 3/4" (20x27 mm) male from the right.

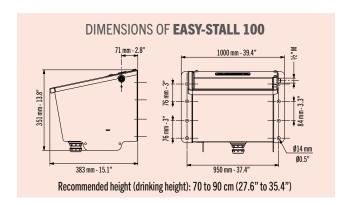
4 Drain without tools Ø1" ¼ screw plug.

5 Suitable for installation of electrical anti-freeze element 80W/24V ref. A333 effective down to -20 °C (see ACCESSORIES).

6 Wall mounting 4 points. 8 anchorage points. Suitable for mounting on a fence (see ACCESSORIES).

REF. DESIGNATION

2426 EASY-STALL 100 Stainless steel drinker with float valve





ACCESSORIES



Transformer 230/24 V is required delivered separately.

| REF. | DESIGNATION |
|------|---|
| A317 | Mounting bracket for fence |
| A333 | 24 V - 80 W frost protection set. Transformers sold separately |
| A346 | Metal protection frame in galvanised steel for EASY-STALL 100 |
| A617 | Float valve for low pressure (blue color) (< 1 bar) ; 15 L/min. at 0,2 bar) |
| C162 | Heating cable 24 V / 22 W - Length: 3 m, to protect water supply |
| A532 | Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W) |
| A504 | Transformator 100 VA for 1 EASY-STALL with A333 and C162 |



DID YOU KNOW?

The forward-inclined trough of the EASY-STALL 100 allows two adult bovine animals to drink simultaneously with high drinking comfort.

Its high flow rate and water reserve of 60 litres are adapted to the needs of the highest-yielding animals.

We recommend to empty and brush the trough at least every week.



















STAINLESS STEEL TIPPING **TROUGHS**



+ FROST PROTECTION



Anti-freeze power set for the trough:

2 heating elements of 24 V -175 W glued under the stainless steel trough. The polyethylene cover optimizes the heat transfer to the trough. Set recommended for regions with risk of high frost.



Anti-freeze power set for the valve:

24 V - 20 W heating element to insert into the valve: recommended for risk of low (alone) or high frost (combined with trough anti-freeze set).





Anti-freeze power set for the water supply

24 V - 22 W heating wire to protect up to 1,50 m of pipe (loop connection).

C162

Transformer 230/24 V is required (delivered separately, see Accessories)...

| REF. | DESIGNATION |
|------|---|
| A393 | Power set for LB 150: 24 V / 350 W (2 x 175 W) |
| A395 | Heating element: 24 V / 20 W |
| C162 | Heating cable 24 V / 22 W - Length: 3 m, to protect water supply. |

frost. SPEED-FLOW circulation pump and THERMOFLOW heater, p. 20-21.



| REF. | DESIGNATION |
|------|---|
| A398 | Circulation set for LB 150 (stainless steel pipe immersed inside the trough + fittings) |
| A338 | Extra PE side cover with screws |

LB150



Stainless steel tipping trough for dairy cows kept inside Suitable for up to 3 cows drinking at the same time.









- Stainless steel trough of 53 litres linking sturdiness and food safety. Specially folded non-spill edge to minimize water loss and avoid splashing. Galvanised steel reinforcement with anti-torsion bar under the trough.
- 2 The valve is protected against the animals by an insulating double-walled HD-Polyethylen cover also serving as a first protection from frost.
- 3 80 L/mn. valve (measured flow rate at 3 bar) with water shut off pin
- 4 3/4" swivel fitting with 2 entries: can be connected to a SPEED-FLOW circulation pump (p. 20) without extra accessories.
- 5 A second HDPE side plate avoids all contact between the animals and the water supply. Its insulating capacity protecting it from frost.
- 6 Big lever foldaway with blocking anti-fall.
- Finger safety.

REF. DESIGNATION

2092 Tipping trough LB150 - 53 L - 72 I/min (3 bar)



| REF. | DESIGNATION |
|------|---|
| D201 | Set of galvanised feet |
| A502 | Transformator 230/24 V - 400 VA for LB with power set |
| A532 | Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W) |



ROSI-FREE PRODUCIS

STAINLESS STEEL TIPPING TROUGHS

LB230

Stainless steel tipping trough for dairy cows kept inside Suitable for up to 5 cows drinking at the same time.

Same specifications as LB 150. Capacity 85 litres.





REF. DESIGNATION

2093 Tipping trough LB230 - 85 L - 80 I/min (3 bar)

+ FROST PROTECTION



Anti-freeze power set for the trough:

2 heating elements of 24 V -175 W glued under the stainless steel trough. The polyethylene cover optimizes the heat transfer to the trough. Set





Anti-freeze power set for the valve:

24 V - 20 W heating element to insert into the valve: recommended for risk of **low** (alone) or **high frost** (combined with trough anti-freeze set).

Anti-freeze power set for the water supply

 $24\,\mbox{V}$ - $22\,\mbox{W}$ heating wire to protect up to 1,50 m of pipe (loop connection).



Transformer 230/24 V is required (delivered separately, see Accessories)...

| REF. | DESIGNATION |
|------|---|
| A394 | Power set for LB230: 24 V / 350 W (2 x 175 W) |
| A395 | Heating element: 24 V / 20 W |
| C162 | Heating cable 24 V / 22 W - Length: 3 m, to protect water supply. |

Anti-freeze circulation set for the trough. Recommended for risk of **low frost**. SPEED-FLOW cirulation pump and THERMOFLOW heater, p. 20-21.



| REF. | DESIGNATION |
|------|--|
| A399 | Circulation set for LB230 (stainless steel pipe immersed inside the trough + fittings) |
| A338 | Extra PE side cover with screws |



DIMENSIONS: **LB150** & **LB230**1510 (LB150) 2285 (LB230) 1408 (LB150)

+ ACCESSORIES



| RFF. | DESIGNATION | |
|------|-------------|--|

D201 Set of galvanised feet

A502 Transformer 230/24 V - 400 VA for LB230 with power set

Remote thermostat for frost-free electric drinkers: for automatic on/off **A532** switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W)

DID YOU KNOW?

The cleanliness of the drinking water is an aspect that cannot be neglected if you want to keep up the productivity of your dairy cows. In fact, cattle can detect a content of 0.05 g dung per litre of water (Willms, 2002).

When the concentration reaches 2.5 g/l, the water consumption is affected and as soon as it is over 5 g/l the ingestion of dry matter is also reduced.

OUR ADVICE

Mount your drinkers at 70-80 cm from the ground to reduce soiling.

Clean the drinkers with a brush at least once a week.
This maintenance is made easy by the shut off pin on the
LA BUVETTE drinkers allowing to close the valve.

INDOOR DRINKING SYSTEMS: "GV" LARGE DRAIN STAINLESS STEEL TROUGHS



SATISFYING THE IMPORTANT WATER NEEDS OF DAIRY COWS

Your cows must have the best possible access to water. The large GV drinkers made of stainless steel and their valves with high flow rate offer a natural way of drinking that is much appreciated by your cattle.

- For these large troughs you have to provide 60 linear cm per water point.
- A cow kept inside should never have to walk more than 20 m to find a water point.





The GV 150, 230, 300 and 460 are equipped with a new JUMBO 80 L/min valve (at 3 bar). Performance adapted to the needs of cows leaving the milking parlour or after the distribution of their feed ration. This valve is equipped with a patented anti-oscillation system preventing the float valve from bouncing. It can be connected to a circulation system without additional accessories.

The seamless GV drinkers can be mounted on the wall or on feet.

There are several possibilities to protect the valve from frost (see following pages).

PERIODIC EMPTYING TO ALWAYS SUPPLY CLEAN WATER

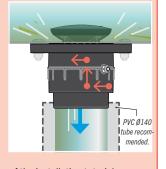
Cattle can detect a content of 0.05 g dung per litre of water (Willms, 2002). When the concentration reaches 2.5 g/l, the water consumption is affected and as soon as it is over 5 g/l the ingestion of dry matter is also reduced. Therefore, it is recommended to drain and clean the drinking troughs at least once a week. The GV drinking troughs make this job easier.

EASY AND EFFICIENT Ø100 MM "DRY-HANDS" DRAIN

The drain plug of the GV trough is operated from below the trough in 3 movements:

- 1: Turn the ring to unlock,
- 2: Lift the ring,
- **3**: Turn to lock it in top position.



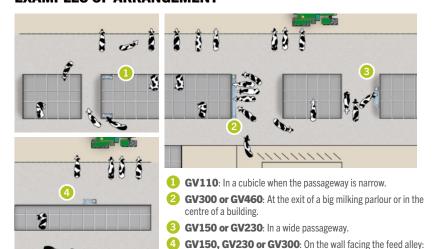


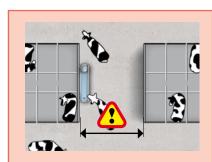
Watch footage of the installation tutorial on facebook/labuvette.bovin





EXAMPLES OF ARRANGEMENT





The passageway must be sufficiently wide (3,75 m) allowing the cows to drink without hindering the free movement of the other cows, especially at the exit of the milking parlour and in the busy passageways (4,5 m).



clears the passageway between the cubicles.

STAINLESS STEEL RAPID-DRAIN TROUGHS



GV110



Compact stainless steel trough with large drain.

Suitable for up to 2 cows drinking at the same time.

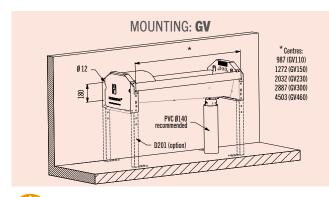
For wall mounting, but can be installed on floor with feet (see accessories).



- Stainless steel trough of 57 litres linking sturdiness and food safety. With slanted bottom for easier cleaning and specially folded non-spill edge to minimize water loss and avoid splashing. Only 105 cm long: can easily be installed instead of a cubicle or between two rows of cubicles
- Compact valve protected by a stainless steel cover that can be removed without tools (brass fitting, ¾" M supplied. Stainless steel braided hose sold separately ref. A480)
- "Hands dry" Ø100 mm drain plug.

REF. DESIGNATION

2412 Rapid-drain trough GV110 - 57 L - 32 I/min (3 bar)



DID YOU KNOW?



"Hands dry" Ø100 mm drain plug:

LA BUVETTE's GV range is equipped with an exclusive quick drain system. The plug is opened and closed in only one movement from below the trough without getting your hands wet. Simple system that can be locked without the use of tools. Can still be used when it is freezing.

A Ø 140 mm PVC tube can easily be connected to the drain hole to channel the water.

Also on MICHIGAN DUO and BAÏKAL 230.

GV150

Stainless steel trough with large draining.

Suitable for up to 3 cows drinking at the same time.

For wall mounting, but can be installed on floor with feet (see accessories). Several frost protection set are available (see Frost protection page 37).











- Stainless steel trough of 66 litres linking sturdiness and food safety. With slanted bottom for easier cleaning and specially folded non-spill edge to minimize water loss and avoid splashing.
- 2 The valve is protected against the animals by an insulating double-walled HD-Polyethylen cover also serving as a first protection from frost.
- 3 80 I./mn. valve (measured flow rate at 3 bar) with water shut off pin
- 4 34" swivel fitting with 2 entries: can be connected to a SPEED-FLOW circulation pump (p. 20) without extra accessories.
- 5 A second HDPE side plate avoids all contact between the animals and the water supply. Its insulating capacity protecting it from frost. It also houses the electrical connection of the antifreeze sets.
- 6 Draining system Ø 100 mm accessible from below: Hands are kept dry.

REF. DESIGNATION

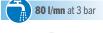
2409 Rapid-drain trough GV150 - 66 L - 80 L/min (3 bar)

GV230

Stainless steel trough with large draining.
Suitable for up to 4 cows drinking at the same time.

Same specifications as GV150. Capacity 112 litres.







REF. DESIGNATION

2410 Rapid-drain trough GV230 - 112 L - 80 L/min (3 bar)



STAINLESS STEEL RAPID-DRAIN **TROUGHS**





GV300

Stainless steel trough with large draining.

Suitable for up to 5 cows drinking at the same time.

Same specifications as GV150. Capacity 144 litres.



GV460

80 I/mn at 3 bar

L. 4615 x W. 548 x H. 443 mm

Stainless steel trough with large draining.

Suitable for up to 8 cows drinking at the same time.

Same specifications as GV150. Capacity 200 litres.

Ideal in the passageways between the cubicles and at the exit of big milking parlours.





REF. DESIGNATION

2411



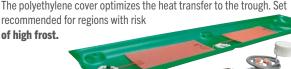
Rapid-drain trough GV300 - 144 L - 80 L/min (3 bar)

FROST PROTECTION



2 heating elements of 24 V -175 W glued under the stainless steel trough. The polyethylene cover optimizes the heat transfer to the trough. Set







Anti-freeze power set for the valve:

24 V - 20 W heating element to insert into the valve: recommended for risk of low (alone) or high frost (combined with trough anti-freeze set).

Anti-freeze power set for the water supply

24 V - 22 W heating wire to protect up to 1,50 m of pipe (loop connection).

Transformer 230/24 V is required (delivered separately, see Accessories).



A393 / A394

| REF. | DESIGNATION |
|------|---|
| A393 | Power set for GV150: 24 V / 350 W (2 x 175 W) |
| A394 | Power set for GV230, GV300 and GV460: 24 V / 350 W (2 x 175 W) |
| A395 | Heating element: 24 V / 20 W |
| C162 | Heating cable 24 V / 22 W - Length: 3 m, to protect water supply. |
| | ~ ~ |

Anti-freeze circulation set for the trough.

Recommended for risk of low frost. SPEED-FLOW cirulation pump and THERMOFLOW heater, p. 20-21.



| REF. | DESIGNATION |
|------|--|
| A397 | Circulation set for GV150, GV230, GV300 and BAÏKAL 230 |



The GV460 can be connected to the lukewarm water of the milk pre-cooler by means of a supplementary A615 (see "DID YOU KNOW").

REF. DESIGNATION

2413 Rapid-drain trough GV460 - 200 L - 80 L/min (3 bar)

+ ACCESSORIES

DESIGNATION



| D201 | Set of galvanised feet |
|------|---|
| A615 | Extra low pressure float valve for drinker GV150/230/300/460 |
| A502 | Transformer 230/24 V - 400 VA for GV with power set |
| A532 | Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. canacity supported 1200 W) |

DID YOU KNOW?

The A615 extra low pressure valve allows you to use the GV150, GV230, GV300, GV300 XL and GV460 drinker to supply heated water from the milk pre-cooler. The water must first be kept in an elevated tank. The heated water shall first be supplied to the drinker. The high flow valve remains functional and takes over as soon as the storage tank is empty.

STAINLESS STEEL RAPID-DRAIN **TROUGHS**



GV300 XL

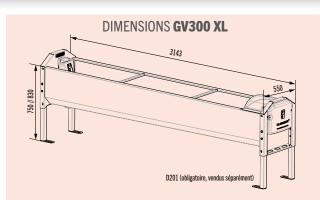


Stainless steel, large-volume drinking trough with large drain. Suitable for 8 cows simultaneously.

Available maximum water volume: 572 litres

Ideal for high demand and installations with weak flow rate. Compulsory mounting on 4 feet (D201 set, see accessories). Different frost protection sets available (see accessories).







+ ACCESSOIRES

Extra valve set for precooler

To give priority to the distribution of the lukewarm water from the precooler which, before, used to be stored in a higher-placed buffer tank. The original high-flow valve remains operational and is activated as soon as the buffer tank is empty. A615



A394





Very rigid, seamless, stainless-steel trough with inward-folded edge to prevent spilling and injuries. Left/right reversible

2 Very large access for 5 cows simultaneously: 300 x 43 cm (118" x 17") (even 8 cows if access from both sides)

Dim.: L. 3143 x W. 550 x H. 579 mm (123.7"x 21.7" x 22.8")

Valve cover made of double-walled PE. Valve of 80 I/min (at 3 bar) with locking pin. Swivel fitting of 3/4" (20x27), 2-ways: connection to circulation system possible without using additional accessories.

PE side-cover to protect water supply and electrical connections if present.

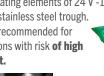
5 Large drain of Ø100 mm securely fastened and easy to channel. Cleaning made easy by the design of the inclined trough.

REF. DESIGNATION

2414 Rapid-drain trough GV300 XL - 572 L - 80 I/min (3 bar)

Anti-freeze power set for the trough:

2 heating elements of 24 V -175 W glued under the stainless steel trough. Set recommended for regions with risk of high frost.



Anti-freeze power set for the valve:

24 V - 20 W heating element to insert into the valve: recommended for risk of low (alone) or high frost (combined with trough anti-freeze set).





| REF. | DESIGNATION |
|------|--|
| A615 | Extra low pressure float valve for drinker GV150/230/300/460 |
| A394 | Power set for GV300 XL: 24 V / 350 W (2 x 175 W) |
| A395 | Heating element: 24 V / 20 W |
| A502 | Transformer 230/24 V - 400 VA for GV with power set |
| D201 | Set of 4 galvanised feet - MANDATORY |



OUR ADVICE

A large water volume is necessary when the flow rate of the installation is weak due to low pressure or other defects. This helps to satisfy the high water needs of the herd after feeding and milking.

ш FROS

LARGE TROUGHS FOR THE EXIT WATER FROM THE MILK PRECOOLER

DAIRYNOX 600

Large, seamless, stainless-steel trough to distribute the lukewarm water from the milk precooler immediately after milking.

Useful capacity: 572 litres

Compulsory mounting on 4 feet (D201 set, see accessories). Reuses the water from the milk precooler. (1)Same dimensions as GV300 XL.

- 1 Very rigid, seamless, stainless-steel, 572-litre trough with inward-folded edge to prevent spilling and injuries. Left/right reversible
- Very large access for 5 cows simultaneously: 300 x 43 cm (even 8 cows if access from both sides)
- 3 Large drain of Ø100 mm with overflow, securely fastened and easy to channel. Cleaning made easy by the design of the inclined trough
- Bulkhead plug Ø1"¼ to easily connect a second trough.

REF. DESIGNATION

D201

2498 Stainless steel trough of 310 cm for milk precooler - 572 litres

+ ACCESSORIES

Valve set with constant level to turn the DAIRYNOX 600 into a permanent water point. When the water from the precooler diminishes, water will be taken from the network. Adjustable constant level: 320 litres, 260 litres or 200 litres. Max. pressure: 4 bar.



| REF. | DESIGNATION |
|------|---|
| A631 | Valve set with constant level for DAIRYNOX 600 |
| A394 | Power set for DAIRYNOX 600 trough: 24 V / 350 W (2 x 175 W) |
| A502 | Transformer 230/24 V - 400 VA for power set A394 |

Set of 4 galvanised feet - MANDATORY

DAIRY-BAC 400

Large polyethylene trough to offer the lukewarm water from the milk precooler to the cows immediately after milking.

Galvanised steel frame for wall mounting.



Dimensions: 240 x 66 x 63 cm - 94.5" x 26" x 24.8"

- Trough of 400 litres in HDPE, a material that keeps the water lukewarm for longer.
- Reversible one-piece frame. Water supply possible from the left or the right.
- Drain / overflow Ø100 mm
- Stainless steel ¾" elbow fitting for continuous water supply from the precooler. Connection to the water mains possible with optional A624 set.
- 5 Several DAIRY-BAC 400 can be connected using the A419 set.

REF. DESIGNATION

400 l. polyethylene trough for milk pre-cooler exit - Galvanised frame 2499

ACCESSORIES

The A624 valve takes the water from the mains as soon as the lukewarm water from the precooler is finished.

There will always be water available in the DAIRY-BAC 400.



- Stainless steel cover and protection.
- Adjustable water level (140/220/280 litres)





Two DAIRY-BAC 400 troughs can be easily paired using the A419 set to achieve a total capacity of 800 litres.



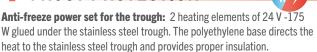


| REF. | DESIGNATION |
|------|--|
| A624 | Valve sets from 1,5 to 3,5 bar for DAIRY-BAC 400 |
| A419 | Pairing set for DAIRY-BAC 400 |

LARGE WATERER WITH STAINLESS STEEL TROUGH AND HDPE BASE



+ FROST PROTECTION



Set recommended for regions with risk **of high frost.** A4





Anti-freeze power set for the valve:

 $24\,\text{V}$ - $20\,\text{W}$ heating element to insert into the valve: recommended for risk of low (alone) or high frost (combined with trough anti-freeze set).

Anti-freeze power set for the water supply

 $24\ V$ - $22\ W$ heating wire to protect up to 1,50 m of pipe (loop connection).



Transformer 230/24 V is required (delivered separately, see Accessories)...

| DEE | DESIGNATION |
|------|-------------|
| REF. | DESIGNATION |

A402 Power set for BAÏKAL230 - 24 V / 350 W (2 x 175 W)

A395 Heating element: 24 V / 20 W

C162 Heating cable 24 V / 22 W - Length: 3 m, to protect water supply.

Anti-freeze circulation set for the trough. Recommended for risk of **low frost.** SPEED-FLOW circulation pump and THERMOFLOW heater, p. 20-21.

REF. DESIGNATION

A397 Circulation set for BAÏKAL 230 (stainless steel pipe immersed inside the trough)



REF. DESIGNATION

A502 Transformer 230/24 V - 400 VA for BAÏKAL230 with power set

A532 Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W)

BAÏKAL 230



Large waterer with stainless steel trough and HD polyethylene base. Valve and trough design for large herds. Up to 5 animals can drink at the same time.

The concept of STAINLESS STEEL + PE optimizes the resistance to the cold (different sets to keep your drinkers frost-free, see FROST PROTECTION).







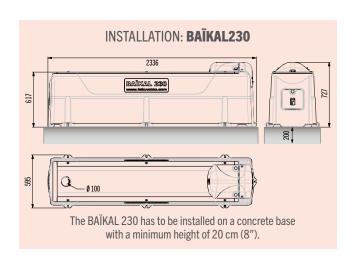


- Stainless steel trough of 112 litres linking sturdiness and food safety. With slanted bottom for easier cleaning and specially folded non-spill edge to minimize water loss and avoid splashing.
- 2 The valve is protected against the animals by an insulating double-walled HD-Polyethylen cover also serving as a first protection from frost.
- 3 80 I./mn. valve (measured flow rate at 3 bar) with water shut off pin
- 43/" swivel fitting with 2 entries: can be connected to a SPEED-FLOW circulation pump (p. 20) without extra accessories. A mechanical compartment allows easy access to the different connections.
- "Dry hands" quick draining system: The PE cover allows access without having to wet your hands. The Ø 100 mm plug is not affected by frost.

7 fixing points on concrete base with a minimum height of 20 cm.

REF. DESIGNATION

2432 Drinking trough BAÏKAL 230 - 112 L - 80 L/min (3 bar)



ROST-FREE PRODUCTS

DOUBLE WATERER WITH STAINLESS STEEL TROUGH AND HDPE BASE

MICHIGAN DUO



Double waterer with stainless steel trough and HD polyethylene base. Valve and trough design for all herds.

The concept of STAINLESS STEEL + PE optimizes the resistance to the cold (different sets to keep your drinkers frost-free, see FROST PROTECTION)









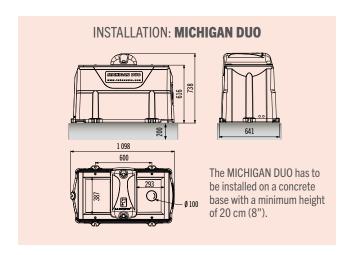


- 2 The valve is protected against the animals by an insulating double-walled HD-Polyethylen cover also serving as a first protection from frost.
- 3 80 l./mn. valve (measured flow rate at 3 bar) with water shut off pin. Adjustable water level without tool.
- 43 %" swivel fitting with 2 entries: can be connected to a SPEED-FLOW circulation pump (p. 20) without extra accessories.
- (5) "Dry hands" quick draining system: The PE cover allows access without having to wet your hands. The Ø 100 mm plug is not affected by frost.

5 fixing points on concrete base with a minimum height of 20 cm.

REF. DESIGNATION

2430 Drinking trough MICHIGAN DUO - 52 L - 80 L/min (3 bar)





+ FROST PROTECTION



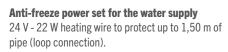
Anti-freeze power set for the trough:

1 heating element 24 V / 175 W glued under the trough. The polyethylene base directs the heat to the stainless steel trough and provides proper insulation. Set recommended for regions with risk of high frost.



Anti-freeze power set for the valve:

24 V - 20 W heating element to insert into the valve: recommended for risk of **low** (alone) or **high frost** (combined with trough anti-freeze set).



A401



Transformer 230/24 V is required (delivered separately).

| REF. | DESIGNATION |
|------|---|
| A401 | Power set for MICHIGAN DUO - 24 V / 175 W |
| A395 | Heating element: 24 V / 20 W |
| C162 | Heating cable 24 V / 22 W - Length: 3 m, to protect water supply. |





| KLI. | DE. | JIUNA | 000/041/ | |
|------|-----|-------|----------|--|
| REF. | nes | SIGNA | TION | |

A501 Transformer 230/24 V - 300 VA for MICHIGAN DUO with power set and heating cable

Remote thermostat for frost-free electric drinkers: for automatic on/off **A532** switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W)

LARGE MODULAR DRINKING TROUGHS

PATENTED

MULTI-TWIN™

Large trough in double-walled HD polyethylene with mechanical compartment and double valve for high flow-rate.

Stainless steel $\mbox{\em 34}\mbox{\em "}$ braided hose included.

Optional third valve available, ref. A384.

10 mounting points on a solid concrete base of at least 20 cm (8") (required).



MULTI-TWIN™ 400

Two large paired troughs (1 MULTI-TWIN $^{\rm TM}$ + 1 additionnal trough) with double valve and mechanical compartment.

High flow-rate. Stainless steel 34" braided hose included. Optional third valve available, ref. A384.

18 mounting points on a solid concrete base of at least 20 cm (8") (required).











- Trough in double-walled HDPE. Length 2,16 m; Capacity: 200 litres. The Multi-Twin™ allows 6 to 7 cows per trough to drink at the same time
- 2 Modular system: additional troughs can be connected to increase the length.
- 3 The double valve is protected against the animals by an insulating double-walled HD-Polyethylen cover also serving as a first protection from frost. No tools are required to acces to the valve.
- Combined with the optional A384, the valves, installed safely beneath the protective cover, supply 96 l/min up from 3 bar (25¹/₄ USG, 43¹/₂ psi). A mechanical compartment allows easy access to the different connections.
- Draining Ø 100 mm (4").
- 6 Available with or without frost-protection system. The frost-free model (EL) features three 24 V - 80 W heating elements mounted underneath the trough and inside the mechanical compartment.

REF. DESIGNATION

2470 Standard trough - mechanical compartment - Double valve (without heating element)

2480 EL trough - mechanical compartment - Double valve with heating elements 24 V - 240 W (see page 43)



OUR ADVICE

Add a third float valve for more flow rate (A384) or to distribute lukewarm water from the milk pre-cooler (A615).

Choose the right version, standard or electrical, right from the start.



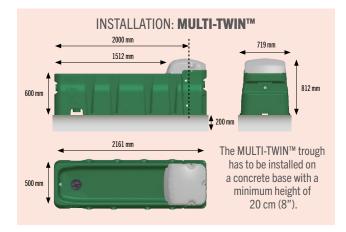
- 1 2 troughs in double-walled HDPE. Length 4,00 m; Capacity: 400 litres.
- 2 Double valve preinstalled: 64 l/mn at 3 bar (3/4" connection).
- 3 Troughs connection system Bellow joint: hermetically sealed, flexible, easily installed (ring clamps included). A third trough can be added.
- 4 Available with or without frost-protection system. The frost-free model (EL) features five 24 V - 80 W heating elements mounted underneath the troughs and inside the mechanical compartment.

REF. DESIGNATION

2 standard troughs - mechanical compartment - Double valve (without heating element)

2481 2 EL troughs - mechanical compartment - Double valve with heating elements 24 V - 400 W (see on right page)







LARGE MODULAR DRINKING TROUGHS

PATENTED

TROUGH MULTI-TWIN™

Large standard or frost-free additional trough without valves. 2 bellow joints included.

8 mounting points on a solid concrete base of at least 20 cm (8") (required).



- Trough in double-walled HDPE. Length 2,16 m; Capacity: 200 litres.
- 2 Draining Ø 100 mm (4").
- 3 Available with or without frost-protection system. The frost-free model (EL) features two 24 V - 80 W heating elements mounted underneath the trough.

| REF. | DESIGNATION | |
|------|-------------|--|
| | | |

2472 Standard separate trough (without heating element)

2482 EL separate trough with heating elements 24 V - 160 W (see on right side)



ACCESSORIES

• For connection to a circulation system.





• To increase the flow rate





• To distribute water from the milk pre-cooler.



Water tanks, see page 58.

• For the electrical versions



DESIGNATION REF.

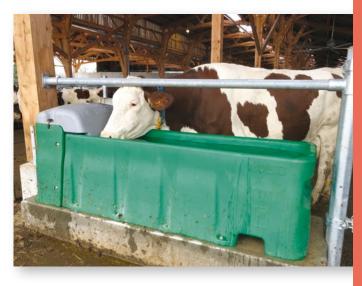
A382 Connection set for water circuit: 34" stainless steel hose + insulation jackets

Connection set for water circuit: A383

Stainless steel loop + 3/4" braided hoses + insulation jackets. A384 32 I/min (8½ USG) 3rd valve (at 3 bar, $43\frac{1}{2}$ psi) + ½" s.s. braided hose.

A617 Low pressure 3rd valve (blue) for water supply by gravity (<1 bar or 14.5 psi)

Remote thermostat for automatic on/off switching with outside sensor - in A532 watertight cabinet (Max. capacity supported 1200 W)



DID YOU KNOW?

FROST PROTECTION WITH ELECTRIC HEATING **ELEMENTS**



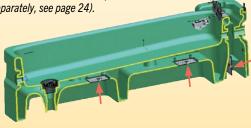
On the frost-free models (EL), the heating plates are installed directly underneath the trough and in the valve area:

- Capacity 3 x 80 W for 1 trough

- Capacity 5 x 80 W for 2 troughs

Recommended for regions with risk of high frost.

Transformer 230/24 V is required (delivered separately, see page 24).



FROST PROTECTION WITH WATER CIRCULATING SYSTEM

Connected to a SPEED-FLOW circulation pump with or without heating element THERMOFLOW (p. 20-21), the A383-set for connection to a circulation system and its stainless steel loop keep both the valve and the water in the trough frost-free.

Recommended for risk of low frost.





OUR ADVICE

In large animal farms, the MULTI-TWIN can be connected to as many troughs as you wish to increase the access length.

LARGE INDOOR DRINKING TROUGH IN POLYETHYLENE

PATENTED



MULTI 220 EL



Ensures the distribution of **comfortably heated water in harsh weather conditions** (down to -20 °C, -4 °F).

Same other specifications as MULTI 220S.

Bottom view



- 1 4 heating plates ensure frost protection.
- 2 Heating cable included (24 V, 22 W) to protect the water supply line (loop connection on the transformer).

der 2

Transformer 230/24 V is required (delivered separately, see Accessories).

REF. DESIGNATION

2451 Large polyethylene drinking trough with heating elements (24 V, 342 W)

+ ACCESSORIES A502 A532

REF. DESIGNATION

A502 Transformer 230V/24V, European norm - 400 VA (for MULTI 220EL)

Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W)

MULTI 220 S

Large indoor drinking trough in high density polyethylene to quickly satisfy the animals' water needs after being milked.

Version without heating, non frost protected.

10 mounting points on a solid concrete base of at least 20 cm (8") (required).



- Capacity: 145 litres
- Weight: 50 kg
- Dimensions: L. 2272 x W. 622 x H. 760 mm
- Drinking height: 600 mm









- 1 Trough in double-walled HDPE. Length: 2,27 m
- 2 The valve is protected against the animals by an insulating double-walled HD-Polyethylen cover also serving as a first protection from frost.
- 3 34 l/mn. valve. Connection ½". Stainless steel braided hose included.
- 4 Easy cleaning: no nooks and crannies.
- **5** Draining Ø 100 mm (4").



REF. DESIGNATION

2450 Large polyethylene drinking trough (without frost-protection)



OUR ADVICE

The MULTI 220 trough has to be installed on a concrete base with a minimum height of 20 cm (8").

Choose the right version, standard or electrical, right from the start.

DOUBLE DRINKING TROUGH IN POLYETHYLENE

ISOBACTM 24V/100W or 160W

**

Electric frost-free high-density polyethylene (HDPE) double drinking trough with constant low water level.

High flow rate: The water is replaced 100 times/day.

Your animals always have pure water.

Connection ½" (15x21). Stainless steel braided hose included.

To mount on a concrete base or on dumping frame A371.



Dimensions: L. 960 x W. 450 x H. 420 mm







2 34 l/mn. valve. ½" stainless steel braided hose included.

3 Easy cleaning: no nooks and

4 2 heating elements 50W or 80W.



1649 Double drinking trough with heating elements 24 V - 100 W (2 x 50 W)

1603 Same as 1649 with heating elements 24 V - 160 W (2 x 80 W) (northern countries)



Same specifications as ISOBAC™ without heating base.

Dimensions: L. 955 x W. 450 x H. 315 mm.

Can be transformed into ISOBAC (heated), see Spare Parts Catalogue.



| RFF. | DESIGNATION | |
|------|-------------|--|

1690 Double drinking trough without heating element



ACCESSORIES



REF. DESIGNATION

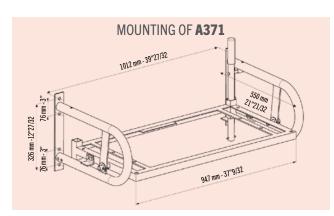
A371 Dumping frame for ISOBAC™ and CLEANO-BAC -wall mounting - Removable handle, left or right. Galvanised steel.

A503 Transformer 230V/24V, European norm - 200 VA for ISOBAC™ with heating cable C162

A532 Remote thermostat for frost-free electric drinkers: for automatic on/off switching with outside sensor - in watertight cabinet (Max. capacity supported 1200 W)

A613 Low pressure valve (blue) for water supply by gravity (<1 bar or 14.5 psi)

C162 Heating cable 24 V / 22 W - Length: 3 m, to protect water supply.



DID YOU KNOW ?

ISOBAC™ and CLEANO-BAC, always pure drinking water guaranteed by:

- Little remaining water (15-40 I. subject to the setting of the
- Good water replacement with high flow rate (34 l/mn valve)
- Easy to clean, smooth walls without nooks and crannies.



FROST-FREE WATERERS WITHOUT **ELECTRICITY**

PATENTED



Why choose THERMOLAC™?

LA BUVETTE's best seller has 4 major advantages:









French quality product

Patented innovation

5 years guarantee against all manufacturing defects

LA BUVETTE advice and service



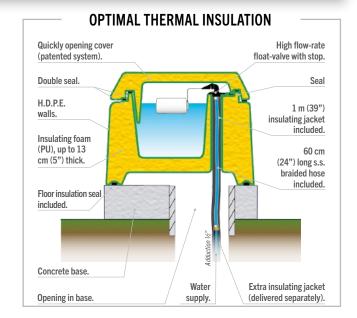












DID YOU KNOW?

The large drain hole Ø 100 mm (4") with insulated screwed plug have a cleaning effect:

- Drain time of THERMOLAC™ 40: only 17 secondes!
- reduces to 15 secondes with the two holes of the THERMOLAC™ 75.

Providing cool water when it's hot reduces heat stress and increases milk production and growth rate. (Sources: Wilks, 1990 and Lofgreen, 1975).

More than 25 years of success: already more than 2.3 million animals drink from a THERMOLAC™.

INSTALLATION: THERMOLAC™ 990 mm THERMOLAC™ 180: L. 110 x W. 99 x H. 53 cm The height of the concrete base depends on the type of animal: 20 cm (8") for cattle, 35 cm (14") for horses. Optional for sheep and goats. ø 300 mm - 12" Thermolac™ 40 GV & B Thermolac™ 75 GV & B ø 300 mm - 12' Thermolac™ 180 GV ø 300 mm - 12' Make sure that the water supply line is frost-free as shown on this diagram: Threaded end 1/2" or 800 mm - 31"1/2 of the base Not supplied extra jacket, to place around the whole pipe (A456). Mandatory half-stiff polyethylene hose

FROST-FREE WATERERS WITHOUT ELECTRICITY

PATENTED



THERMOLAC™ 40GV & 75GV



Non-electric frost-free drinkers, perfect for both outdoor and indoor use. They work according to the Thermos flask principle: a double food-safe HDPE wall is insulated with polyurethane foam. The water is kept at 3-5 °C in winter and 10-12 °C in summer.



Single version (40) for 15 animals or double (75) for 30 animals.









- Frost free down to -30 °C thank to high-quality insulation material.
 Fresh water during summer.
- ② Balls of THERMOLAC™ are also filled with insulating polyurethane foam. They are very easy to push by cows or by horses.
 Water is protected against mosquitos and wild animals.
- 3 34 I./min (at 3 bar) float valve. djustable water level without tool.
- 4 Pre-installed ½" stainless steel braided hose, insulating jacket and ground insulation supplied with the drinker (bottom view).
- Their large insulated drain plugs Ø100 mm (4") allow cleaning without the need to remove the cover.
- @ Quickly and complete opening patented system.

REF. DESIGNATION

1671 Frost-free non-electric 75 L waterer with 2 balls, float valve for standard pressure

1672 Frost-free non-electric 40 L waterer with 1 ball, float valve for standard pressure

THERMOLAC™ 40B & 75B



"B" model with 1 or 2 bowls for 15 or 30 cattles, 25 or 50 goats or sheeps.

Frost-free down to -15°C (5°F) depending the number of the animals.



The dish can be removed with a quarter turn.

Same specifications as GV-model.

| REF. | DESIGNATION |
|------|---|
| 1677 | Frost-free non-electric 40 L waterer with 1 dish, float valve for standard pressure |
| 1676 | Frost-free non-electric 75 L waterer with 2 dishes, float valve for standard pressure |

THERMOLAC™ 180GV

Model with 4 insulated balls for 60 heads of big cattle.



REF. DESIGNATION

water level without tool.

rate at 3 bar) with water shut off pin. Adjustable

1680 Frost-free non-electric 180 I waterer with 4 balls, float valve for standard pressure



5 YEARS GUARANTEE

The THERMOLAC drinkers invoiced after 01 September 2017 come with a 5-year guarantee against manufacturing defects.

- The screws, dish, seals and pieces of valve are only 1 year guarantee
- The THERMOLAC drinkers have to be correctly filled with water to prevent the animals from damaging the troughs (this damage is excluded from the guarantee).
- The THERMOLAC drinkers are not guaranteed against damage caused by improper handling, incorrect installation (on not levelled or uneven terrain) or inappropriate use other than for watering livestock.



Warranty claims for a THERMOLAC shall be sent to your LA BUVETTE dealer accompanied with your purchase invoice and photos of the damaged trough and in particular of its date stamp (see picture).

Should your claim be accepted, your dealer will give you a voucher for its original cost minus depreciation (-20% per year).

ACCESSORIES





| REF. | DESIGNATION |
|------|---|
| A613 | Float valve for low pressure (blue color) for water supply by gravity (<1 bar (14.5 psi)) |

Extra insulating jacket of 1 m (39,4").

ADVICE FROM LA BUVETTE® ON PASTURE DRINKING SOLUTIONS



OPTIMISING AND SECURING THE DRINKING SYSTEMS ON PASTURE

A guaranteed supply of high-quality water in sufficient quantities during the entire grazing season is vitally important for the well-being and productivity of farm animals.

Although the consumption of grass that is rich in water content partly satisfies their water needs, an animal might still need very high quantities of water especially during intense heat.

A lack of water directly affects their growth performance or milk production. When the water intake decreases, the consumption of food does so too. The animals also start behaving aggressively as soon as the available amount of water covers less than 90% of their needs.

Moreover, direct access of the herd to natural pools and watercourses is a source of sanitary and environmental problems. Transporting water in tanks the whole season long also becomes more and more expensive.

As a specialist in watering solutions, LA BUVETTE® offers you numerous solutions based on more than 75 years of research and practical experience in the field of watering systems, troughs, pasture pumps, off-grid solar-powered pumping solutions... You will find a brief overview of these solutions on the next page.

DRINKING HABITS OF FARM ANIMALS

Cattle on pasture generally goes drinking 2 to 5 times a day, but this can increase up to more than 10 times a day. Dairy cows have the tendency to go drinking more often than nursing cows and the drinking frequency increases with the rise of the temperature and the proximity of the water access point.

When it is hot (more than $28\,^{\circ}$ C), the animals move around less. The prefer to stay in the shade and will not go drinking if the watering point is not close to the shaded area.

However, placing the water points directly in the shade and especially when there is not much of it, is to the disadvantage of the herd. These areas will quickly be taken up by animals lying in the way, which causes pushing, trampling and dominant behaviour.

AVERAGE DAILY WATER CONSUMPTION OF ANIMALS ON PASTURE

| LIVESTOCK | AVERAGE | SUMMER PEAK |
|-------------------------|---------|-------------|
| Dairy cow | 55 l/d | 125 l/d |
| Nursing cow | 35 I/d | 75 l/d |
| Grass-fed calf (200 kg) | 15 l/d | 20 l/d |
| Dry, in-calf cow, ox | 35 I/d | 70 l/d |
| Heifer 350-450 kg | 30 l/d | 50 l/d |
| Dairy sheep | 7 l/d | 15 l/d |
| Nursing ewe + lamb | 6 l/d | 12 l/d |
| Dry ewe | 3 l/d | 6 I/d |
| Dairy goat | 5 l/d | 12 l/d |
| Dry goat | 3 l/d | 6 I/d |
| Adult horse | 20 l/d | 45 I/d |
| Lactating mare | 30 l/d | 55 I/d |

(Considering a diet consisting exclusively of grass.)

MILKING ROBOT: ALLOW DRINKING ON PASTURE

Several experiments carried out in this field show that allowing cows exclusively access to water indoors or both outdoors and indoors gives the same production performance. On the other hand, when cows have a drinker in their pasture, they spend more time grazing and less time moving to the building and back.

For these different reasons and for the well-being of the dairy cows, LA BUVETTE recommends to always give them access to drinking points on pasture even when they have to go to a milking robot.



REGULATIONS FOR DRINKING POINTS ON PASTURE

Every drinking solution has its advantages and limitations. To determine the system most suitable for your needs and the environment, you should take several criteria into account:

- the characteristics of the pasture (dimensions, topography and remoteness)
- the herd's water needs (depending on the type of livestock, the number of animals and their physiological state)
- the technical specifications of each solution
- the desirable investment level
- the working habits of the breeder
- the technical skills of the breeder (installation and maintenance).

In general, it is preferable to slightly overdimension the drinking system in order to guarantee the water supply, to avoid too long waiting times and crowding, even in extreme conditions. We recommend:

- placing the troughs at a distance of some ten metres from each other to reduce competition among the animals
- bringing in the material before the winter in flood risk areas
- choosing the right hose diameter and providing a drain system for in winter
- fastening the troughs to the ground so the animals cannot move them when empty

You can find more tips in our Pasture Watering Guide Book available on demand.

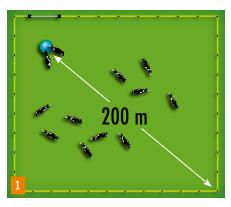


PLACE AND SIZE OF WATER TROUGHS ON PASTURE

The location of the water points makes sure the pasture is grazed evenly. Therefore, you have to take into account the surface to be grazed and the behaviour of the animals on pasture.

THE 200-METRE RULE FOR SMALL AND MEDIUM-SIZED PARCELS

Ideally, the maximum distance between the watering place and the farthest end of the pasture should not exceed 200 m. When the distance is exceeded, the farthest corners of the pasture are less frequently visited as the animals prefer to stay close to the drinker.



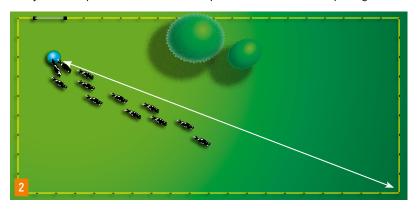
When the drinker is located at less than 200 m from the farthest end of the parcel, the animals regularly go drinking alone or in small groups of two or three. A high water volume/flow is thus no longer essential (figure 1).



CONSIDERING HERD INSTINCT ON LARGE PARCELS

However, when the distance is considerable (> 200 m), the animals tend to go to drink less frequently and in large groups. Therefore, it is recommended to install a watering system that is sufficiently dimensioned allowing a large number of animals to drink quickly and simultaneously.

In this case, it might be worthwhile to install more drinkers rather than to increase the volume of only one and to place them some 10 metres apart from each other to avoid pushing.



When the distance is longer, the animals prefer to go drinking in a herd (figure 2). So, the size of the watering systems will differ substantially.

PROVIDING WATER IN ROTATIONAL GRAZING SYSTEM

A well-organised water provision in a rotational grazing system allows to optimise the access to the water while limiting the investment costs. It would be a mistake to use only one water point placed in a narrow corridor linking several parcels. This lay-out favours competition and increases the distance the animals have to walk to go drinking.

- For small herds (up to 20 heads of cattle):
 - A good solution would be to move a small trough together with the animals. A model with double access and high flow rate (30 l/min) such as the PREBAC 70 (p. 48) is perfectly suited. It should preferably be placed at mid-length of the pasture. In this case, one water supply line with shut-off valve is necessary for each pasture.
- For larger herds: (figure 3)
 One big circular drinking trough could be placed in the centre of a drinking area (sufficiently spacious to avoid pushing) situated at the junction between 4 parcels. This solution requires only one water supply.



SIZING OF THE WATERING SYSTEM: 10-MINUTE RULE

- For water points situated at less than 200 m from the farthest end of the parcel:

 The watering system must be able to supply a quarter of the daily water consumption of the herd in 10 minutes.
- When the water point is installed at more than 200 m from the end of the pasture:
 The watering system must be able to supply half of the daily water consumption of the herd in 10 minutes.

The feasibility of this requirement depends on the water volume immediately available when the animals arrive (trough volume) and on the ability of the system to replenish the trough (FLOW).

In general, the flow is the limiting factor. It is possible to compensate for this by increasing the available water volume.



DRINKERS CONNECTED TO THE WATER MAINS, FILLED BY A TANK OR BY HAND

| | | PRINCIPLE | LIVESTOCK | ANIMALS PER TROUGH | FILLING | VOLUME | ASSET(S) |
|-----|---------------------------|---|---|--|--|---|--|
| 52 | PREBAC | Trough made of pure, high-density, food-safe, UV-resistant and recyclable POLYCHOC™ polyethylene. Non-deforming, sturdy and light. 15 types: Oval, round or rectangular; with (optional) float valve. Quick drain. | All. Certain low models are suitable for small animals. | 400 l. trough = 5 places* 600 l. trough = 6 places* 800 l. trough = 7 places* 1000 l. trough = 8 places* 1200 l. trough = 9 places* 1500 l. trough = 10 places* | Water bowser or water mains. Standard valve or low pressure valve included or optional. | Oval: from 400 to 950 l Round: from 400 to 1500 l. Rectangular: from 70 to 400 l | 10-year guarantee against all manufacturing defects. |
| 55 | INTERBAC | Trough made of high-density, UV-resistant and recyclable polyethylene. 5 types: Oval or round. Optional float valve. | Cattle and horses | 400 l. trough = 6 places* 1000 l. trough = 8 places* 1500 l. trough = 10 places* | Water bowser or water mains. Standard pressure valve optional | Oval: 600 and 900 I. Round: 600, 1000, 1500 I. | 3-year guarantee against all manufacturing defects. |
| 56 | Galvanised troughs | Troughs made of steel hot-dip galvanised after manufacture. 8 types: Round or rectangular. Optional float valve. | Cattle and horses | 400 l. trough = 5 places* 600 l. trough = 6 places* 1000 l. trough = 7 places* 1250 l. trough = 8 places* | Water bowser or water mains. Adjustable valve optional | Round: from 400 to 1250 l. Rectangular: from 1350 to 4050 l | Steel with a thickness of 1,5, 2 and 2,5 mm |
| 58 | BIGLAC 55T & GALVALAC 65T | Troughs with constant water level for direct installation on a water bowser. Troughs made of high-density polyethylene or galvanised steel. | All | 20 cows / horses or 40 sheep / goats | Water bowser (gravity) | 55 and 65 l. | Mobile |
| 46 | THERMOLAC | Isothermal drinkers with constant level: double-walled trough insulated by high-density polyurethane foam. The water does not freeze in winter and stays cool in summer. | All (depending on type) | 15 cows / horses or 25 sheep / goats per water access point | Standard or low (gravity) pressure | 40, 75 or 180 L | Frost free down to -30°C without electricity |
| 105 | ISOBAR 250 | Isothermal trough with floating cover. Double-walled trough insulated by high-density polyurethane foam. The water does not freeze in winter and stays cool in summer | Horses | 1 to 3 horses | Manual | 180 litres | Frost free down to -15°C without electricity |

 $[\]ensuremath{^{\star}}$ For troughs accessible from all sides.

OFF-GRID PUMPING SYSTEM IN WELLS, PONDS AND WATER COURSES

| | | PRINCIPE | LIVESTOCK | ANIMALS PER Trough | PERFORMANCE Of the PUMP | ASSET(S) |
|----|----------------------------|--|----------------------|--|--|--|
| 60 | AQUAMAT II | While pushing, the animal activates a diaphragm drawing the water through the tube into the small bowl under the lever. The residual water in the back of the trough stimulates the animal to push the very smooth mechanism. | Cattle and horses | 10 | 0.5 l/push. 7 m (23 ft.) in depth or 70 m (76 yds) in length | Cost efficient. Easy installation. |
| 64 | SOLAR-BASIC | Solar-powered pumping station with battery. The submersible pump is powered by a battery which is charged by a solar panel. A water level sensor activates the pump. | All | 10 adult cows | Up to 1200 I/day. Vertical pushing: 10 m. | Economic, reliable and easy to move. |
| 65 | SOLAR-FLOW "SOLAR POWERED" | Solar-powered pumping station without batteries. The immersion pump is activated as soon as there is enough light. | All | 30 adult cows | Up to 3500 l/day. Vertical pushing: 50 m. | Performances. Reliability. |
| 66 | SOLAR-FLOW "STORAGE" | Off-grid solar-powered pumping stations with batteries. The immersion pump is powered by the batteries, which are recharged by the solar panels. Level sensors activate the pump to fill a tank or several troughs (separately available). | All | 12V Model: 15 adults cows 24V Model: 30 adults cows | 12 V: up to 2200 l/day. Vertical pushing: 20 m. 24 V: up to 3500 l/day. Vertical pushing: 50 m. | To supply several parcels. Performances. Reliability. Autonomy without sun |
| 67 | SOLAR-FLOW "ALL-IN-1" | Off-grid solar-powered drinkers with batteries. The immersion pump is powered by the batteries, which are recharged by the solar panels. Level sensors activate the pump to fill the HDPE troughs | Cattle and horses | 12V Model: 15 adults 24V Model: 30 adults | 12 V: up to 2200 l/day. Vertical pushing: 20 m. 24 V: up to 3500 l/day. Vertical pushing: 50 m. | Complete sets. Performances. Reliability. Autonomy without sun. |

PERIPHERAL EQUIPMENT

| | | PRINCIPLE | CAPACITY | ASSET(S) |
|----|---------------------|---|---|---|
| 57 | LACABAC | Float valve protected by a stainless-steel cover. Keeps a constant level in all types of bowls. Operates with standard pressure or low pressure (gravity) depending on the type. | LACABAC 72: 72 / min at 3 bar LACABAC: 26 / min at 3 bar LACABAC BP: 15 /min at 0,2 bar | Adjustable float valves for all types of troughs. High flow rates. Do not rust. |
| 58 | TANKS | Food-safe, UV-resistant, pure polyethylene seamless tanks. To be installed on a concrete support or trailer. Anti-sway shape. Supplied with a PVC quarter-turn drain valve. | 1401-2701-4501-6501 12001-18001-29001-40001 56001 (reinforced) | Float valve can be mounted (except on 450 l model). |
| 59 | BLUE LEVEL | A small sensor installed on your tank indicates its level and warns you by text message or e-mail as soon as it drops under a certain threshold. | All tank sizes and models. Several measurements per day. | Calculates the remaining days of water autonomy. |
| 61 | STABILISATION GRIDS | Polypropylene tiles that stabilise and reinforce the natural quality of the soil. Each tile allows deep rooting of the vegetation and distributes the weight of the animals. | 4 tiles for 1 m ² | Withstands the weight of a tractor. |

VERY STURDY OVAL POLYCHOC™ **POLYETHYLENE TROUGHS**



Why chose a PREBAC?

Benefit from the advantages of the reference on the market:









French quality product

10 years guarantee against all manufacturing defects

Reliable and food-safe

LA BUVETTE advice and service

















32 I/mn at 3 bar REF. DESIGNATION

32 I/mn (at 3 bar) float valve for PREBAC. A603 (max. pressure: 6 bar) - 3/4" male brass fitting included.

A617 Same as A603, but low pressure (<1bar-14.5psi)(blue) for supply by gravity

B121 Anchoring set for PREBAC trough

A622 Saving set: Anti-drowning escape ramp for PREBAC to preserve wild animals



10 YEARS GUARANTEE

The PREBAC troughs that are invoiced after 1 September 2017 have a 10-year guarantee (instead of 8 previously).

- The PREBAC drinking troughs have to be correctly filled with water to prevent the animals from damaging the troughs (these damages are excluded from the guarantee). We also recommend the use with an A603 or A617 set.
- The PREBAC drinking troughs are not guaranteed against damage caused by improper handling, incorrect installation (on not levelled or uneven terrain) or inappropriate use, other than for watering livestock.

Warranty claims for a PREBAC shall be sent to your LA BUVETTE dealer accompanied with your purchase invoice and photos of the damaged trough and in particular of its date stamp (see 6). Should your claim be accepted, your dealer will give you a voucher for its original cost minus depreciation (-10% per year).

OVAL PREBAC

The PREBAC troughs are non- deforming, sturdy, practical as well as light thanks to the special material of which they are made: POLYCHOC™ polyethylene. This pure high-density polyethylene is food-safe, UV-resistant and recyclable.



Oval models of 950, 550 and now 400 litres. Valve sold separately (Ref. A603 or A617).











- These sturdy troughs keep their shape when filled.
- Compartment provided for optional valve (A603 or A617) with side protection of water supply line.
- Easily loaded and transported on board of a vehicle.
- 4 Large rectangular quick discharge "VIDE-VITE". Quick and easy to clean.
- Ground anchoring possible (with set B121, sold separately).
- 6 Production date.

| REF. | DESIGNATION |
|------|--|
| 2269 | Polychoc 400 I. trough - L. 147 x I. 105 x H. 40 cm (L. 57.9" x W. 41.3" x H. 15.7") |
| 2275 | Polychoc 550 I. trough - L. 147 x I. 105 x H. 60 cm (L. 57.9" x W. 41.3" x H. 23.6") |
| 2278 | Polychoc 950 I. trough - L. 203 x I. 115 x H. 60 cm (L. 79.9" x W. 45.3" x H. 23.6") |

FOR **PASTURE**

VERY STURDY CIRCULAR POLYCHOC™ POLYETHYLENE TROUGHS

JARRAN

PREBAC 400>1500L

Circular troughs in Polychoc™ HDPE to water herds of cattle or horses on pasture (Not suitable for indoor use).

Renowned quality for more than 25 years. 10 years guarantee against all manufacturing defects.

Valve sold separately (Ref. A603 or A617).









- Very sturdy inside edge.
- 2 Compartment provided for optional valve (A603 or A617) with side protection of water supply line.
- 3 Large rectangular quick discharge "VIDE-VITE". Quick and easy to clean.
- 4 Ground anchoring possible (with set B121, sold separately).



| REF. | DESIGNATION |
|------|---|
| 2221 | Polychoc BS 400 L trough - Ø 108 x H. 60 cm (Ø 42.5" x H. 23.6") |
| 2223 | Polychoc BS 600 L trough - Ø 130 x H. 60 cm (Ø 51.2" x H. 23.6") |
| 2225 | Polychoc BS 800 L trough - Ø 150 x H. 60 cm (Ø 59.1" x H. 23.6") |
| 2227 | Polychoc BS 1000 L trough - Ø 160 x H. 60 cm (Ø 63" x H. 23.6") |
| 2261 | Polychoc BS 1200 L trough - Ø 180 x H. 60 cm (Ø 70.9" x H. 23.6") |
| 2263 | Polychoc BS 1500 L trough - Ø 200 x H. 60 cm (Ø 78.7" x H. 23.6") |



2000 - 2020

The Colour Has Changed, the Quality Hasn't!





Tests performed with new PREBAC troughs. Footage on labuvette.com

- ACCESSORIES









Anti-drowning ramp A622 saving set: Preserves both the animal wildlife and the water hygiene. Designed in cooperation with naturalist J-F. NOBLET. *Patent Fr.1052046*.

REF. DESIGNATION

| A603 | (max. pressure: 6 bar) - 3/4" male brass fitting included. |
|------|--|
|------|--|

A617 Same as A603, but low pressure (<1bar-14.5psi)(blue) for supply by gravity

B121 Anchoring set for PREBAC trough

A622 Saving set: Anti-drowning escape ramp for PREBAC to preserve wild animals

DID YOU KNOW?

A dairy cow exclusively feeding on grass in the pasture drinks an average of **55 litres** of water per day. On hot summer days, the daily water intake can increase up to **125 litres**. Therefore, the troughs should be sufficiently proportioned to not impair the production.

Ask the LA BUVETTE dealer or representative in your region for advice.

4

VERY STURDY RECTANGULAR POLYCHOC™ POLYETHYLENE TROUGHS

PREBAC 70L

Double drinker with constant water level of 70 litres, made of HDPE Polychoc™ for watering herds of cattle, sheep or horses both outdoors and indoors. 10 years guarantee against all manufacturing defects.







- 1 Very sturdy inside edge.
- 2 Float-valve with high flow rate or low pressure included.
- 3 Large rectangular quick discharge "VIDE-VITE".
- 4 2 anchor points for floor mouting or on concrete base.

| REF. | DESIGNATION |
|------|---|
| 2219 | Polychoc 70 I. trough - L. 106 x W. 37 x H. 31 cm - Float-valve included - Connection ¾" (20x27 mm) |
| 2217 | Same as 2219 but for low pressure (<1bar-14.5psi)(blue) for supply by gravity |



Special type for sheep, capacity 90 litres.

Low water level. Antiskid bottom. Included float-valve with cover. **Suitable for 50 sheep.**

For floor mounting: 4 anchor points.

10 years guarantee against all manufacturing defects.





REF. DESIGNATION

2253 Polychoc 90 I. trough - L. 160 x W. 48 x H. 46 cm - Float-valve included - Connection ½" (15x21)



It is necessary to anchor the rectangular PREBAC troughs firmly to the floor. Each model has several mounting points.

PREBAC R

Rectangular floor-mounted troughs made of HDPE Polychoc™ for watering cattle, sheep or horses both outdoors and indoors.

10 years guarantee against all manufacturing defects.

Valve sold separately (Ref. A603 or A617).





- Compartment provided for optional valve (A603 or A617) with side protection of water supply line.
- 2 Large rectangular quick discharge "VIDE-VITE".
- Multiple anchor points.
- 4 200 I. R model, special for sheep: height 44 cm

| REF. | DESIGNATION |
|------|--|
| 2237 | Polychoc BS 190 L R trough - L. 90 x W. 64 x H. 66 cm - L. 35.4" x W. 25.2" x H. 26" |
| 2231 | Polychoc BS 200 I. R trough - L. 160 x W. 46 x H. 44 cm - L. 63" x W. 18.1" x H. 17.3" |
| 2235 | Polychoc BS 400 I, R trough - L, 165 x W, 66 x H, 66 cm - L, 65" x W, 26" x H, 26" |

Accessories A603 Anti-drowning ramp A622 saving set: Preserves both the animal wildlife and the water hygiene. Designed in cooperation with naturalist J-F. NOBLET.

| REF. | DESIGNATION |
|------|---|
| A603 | 32 l/mn (at 3 bar) float valve for PREBAC. (max. pressure: 6 bar) - 3/4" male brass fitting included. |
| A617 | Same as A603, but low pressure (<1bar-14.5psi)(blue) for supply by gravity |
| A622 | Saving set: Anti-drowning escape ramp for PREBAC to preserve wild animals |

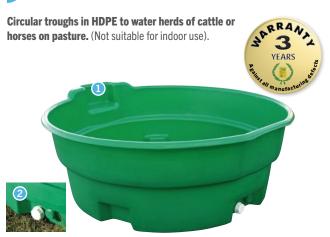
Patent Fr.1052046.

OR PASTURE

J,

OVAL AND CIRCULAR TROUGHS MADE OF POLYETHYLENE

INTERBAC 600>1500L



- Place provided for an optional constant level valve (A623).
- 2 Threaded Ø50 mm drain plug with storage position.

| REF. | DESIGNATION | PACKAGING |
|------|---|-----------|
| 2697 | INTERBAC 600 L - Ø 140 x H. 60 cm (Ø 55.1" x H. 23.6") | Pile of 5 |
| 2698 | INTERBAC 1000 L - Ø 170 x H. 60 cm (Ø 66.9" x H. 23.6") | Pile of 5 |
| 2699 | INTERBAC 1500 L - Ø 210 x H. 60 cm (Ø 82.7" x H. 23.6") | Pile of 5 |

+ ACCESSORIES



A623 Float set for INTERBAC. Delivered with stainless steel cover. 3/4" male connection.

A622 Saving set: Anti-drowning escape ramp for pasture trough to preserve wild animals

3 YEARS GUARANTEE

- The INTERBAC drinking troughs have to be correctly filled with water to prevent the animals from damaging the troughs (this damages are excluded from the guarantee). We also recommend the use with an A623 or A633 set.
- The INTERBAC drinking troughs are not guaranteed against damage caused by improper handling, incorrect installation (on not levelled or uneven terrain) or inappropriate use, other than for watering livestock.

Warranty claims for a INTERBAC shall be sent to your LA BUVETTE dealer accompanied with your purchase invoice and photos of the damaged trough and in particular of its date stamp.

Should your claim be accepted, your dealer will give you a voucher for its original cost minus depreciation (-33% per year).

OVAL INTERBAC

Easily loaded and transported on board of a vehicle. Characteristics and 3 years guarantee identical to round INTERBAC.





- 1 Special design for better stability.
- 2 Inward-folded edge.



| REF. | DESIGNATION | PACKAGING |
|------|--|-----------|
| 2695 | INTERBAC OVAL 600 L - L. 170 x l. 104 x h. 63 cm (67" x 41" x 25") | Pile of 7 |
| 2696 | INTERBAC OVAL 900 L - L. 209 x I. 114 x h. 63 cm (82" x 45" x 25") | Pile of 7 |

ACCESSORIES





| REF. | DESIGNATION |
|------|---|
| A633 | Float set for INTERBAC OVAL. 3/4" male brass fitting. |
| A622 | Saving set: Anti-drowning escape ramp for pasture trough to preserve wild animals |

SIMPLE TROUGHS 430>1600L

Partially recycled, round troughs for watering cattle, sheep or horses outdoors. (Not suitable for indoor use).

Sold in a pile of 10.

Inward-folded edge.







| REF. | DESIGNATION | PACKAGING |
|------|---|------------|
| E101 | TROUGH 430 L - Ø 130 x H. 40 cm (for sheep and goats) | Pile of 10 |
| E102 | TROUGH 650 L - Ø 140 x H. 60 cm | Pile of 10 |
| E103 | TROUGH 1050 L - Ø 170 x H. 60 cm | Pile of 10 |
| E104 | TROUGH 1600 L - Ø 210 x H. 60 cm | Pile of 10 |





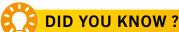


CYLINDRICAL TROUGHS MADE OF **GALVANISED STEEL**

PATENTED







- The galvanised LA BUVETTE troughs are entirely manufactured in France by our partner SATENE, a manufacturer of livestock-breeding equipment based in the Indre (36) department.
- . They come in piles of 10 units that can be mixed.



CONICAL TROUGHS



Conical troughs in galvanised steel to supply water for herds on pasture. (Not suitable for indoor use). Sold in a pile of 10.









- Strong and secure edge made of welded tube.
- 2 Three lifting eyes per trough.
- 3 Brass bulkhead drain with larger flange for increased tightness.

New models with a capacity of 380 I for sheep and 1350 I for cattle:



| REF. | DESIGNATION | PACKAGING |
|------|---|------------|
| G101 | 380 L Galvanised Trough - Ø 113 x H. 39 cm (44.5" x 15.4 ") | Pile of 10 |
| G103 | 600 L Galvanised Trough - Ø 138 x H. 53 cm (54" x 21") | Pile of 10 |
| G105 | 1000 L Galvanised Trough - Ø 162 x H. 62 cm (64" x 24") | Pile of 10 |
| G106 | 1350 L Galvanised Trough - Ø 174 x H. 64 cm (68.5" x 25.2") | Pile of 10 |



OUR ADVICE

Use an adjustable LACABAC float valve to maintain a constant water level.

If you want to connect your troughs to a higher-placed water reserve or water tank, opt for a low-pressure LACABAC.

See right page.





5/





FLOAT VALVES









- 1 High flow channelled downwards, splash free.
- 2 Patented adjustable anti-oscillation system to prevent the float valve from bouncing regardless of the situation (video on labuvette.fr).
- 3 Reliable setting of the water level, without tools and locking pin (for cleaning)
- 4 The 3/4" brass fitting can be removed to use the 1/2" synthetic fitting.

Dimensions: 227 x 145 x 180 mm (JUMBO) / 317 x 145 x 180 mm (JUMBO+).

| REF. | DESIGNATION | PACKAGING |
|------|--|-----------|
| A634 | JUMBO 80 L/min at 3 bar. 3/4" or 1/2" M fitting. | Blister |
| A635 | JUMBO+ 103 L/min at 3 bar. 3/4" or 1/2" M fitting. | Blister |

FLOAT VALVES



| REF. | DESIGNATION |
|------|--|
| A603 | 32 l/mn (at 3 bar) float valve for PREBAC. (max. pressure: 6 bar) - 3/4" male brass fitting included. |
| A617 | Same as A603, but low pressure (<1bar-14.5psi)(blue) for supply by gravity |
| A623 | Float set for INTERBAC. Delivered with stainless steel cover. 3/4" Male connection. |
| A633 | Float set for BLACK INTERBAC. 3/4" Male connection. |
| A613 | Float valve for low pressure (blue color) for water supply by gravity (<1 bar (14.5 psi)). For THERMOLAC (p.46), CLEANOBAC and ISOBAC (p.45) |
| A615 | Extra float valve to connect GV150, GV230, GV300 and GV460 drinkers (p.38) and milkcooler in low pressure. |
| A384 | Extra float valve for MULTI-TWIN (p.42) |



LACABAC 80

Adjustable high-flow float valve fits all types of troughs.

JUMBO 80 I/min valve (at 3 bars) protected by 10/10 stainless steel cover. Mounting secured by two big galvanised plates.

80 L/min. at 3 bar

All the advantages of the JUMBO valve.

Ideal for large herds.

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| A680 | 80 litres/minute LACABAC (at 3 bar) - Stainless steel cover. Big mouting brackets. 34" M connection. | Carton apiece |

LACABAC

Float valve unit with 10/10 stainless steel cover for all types of troughs. Mounting secured by two big galvanised plates.

Synthetic valve, does not rust. Easily adjustable water level, without tools. Shut off separately to clean the trough.

A601: Model for standard pressure **1 to 6 bar A608**: Model for low pressure **0 to 1 bar** (gravity).



| | | 6 |
|------|--|---------------|
| REF. | DÉSIGNATION | PACKAGING |
| A601 | Model with high flow rate 26 litres/minute at 3 bar (7 USG/mn at 40 psi) Large stainless steel brackets - Connection $\%$ ". | Carton apiece |
| A608 | $\label{eq:model} \begin{tabular}{ll} Model for low pressure (< 1 bar) for supply by gravity - 15 l./mn at 0,5 bar (4 USG/mn at 7 psi). Large s.s. brackets - Connection 34". \end{tabular}$ | Carton apiece |

DRINKING TROUGH FOR TANKS AND SELF-SUPPORTING TANKS

BIGLAC 55T

Double deep drinking trough for water bowser, in H.D.P.E. with constant water level.

Low pressure float-valve (works from 0 to 1 bar (14 psi)).

Suitable for 20 heads of cattle.



- With broad edge reducing spills by lapping.
- Two drain plugs without tool.
- Galvanised mounting frame

Dimensions: 86 x 38 x 30 cm (33.9 x 15 x 11.8")

Directly connected to the metal outlet of the tank by means of a bolt or 3/4" (20x27 mm) from behind.

Can also be mounted on a slurry tank with the adapter (B201).

DESIGNATION REF.

1650 Double trough in H.D.P.E. with low pressure valve for water bowser

GALVALAC 65T

Double trough in galvanised steel with constant level for water bowser. Low pressure float-valve (works from 0 to 1 bar (14 psi)).





The valve can be secured with a chain during transport. Rounded shape, easy maintenance. 5 attachment points to the tank. Seal supplied. Drain system without tools. Spare plug: Ref. 1190417.

REF. DESIGNATION

G100 Double GALVALAC 65T drinker for water bowser



OUR ADVICE

Installation:

- On a concrete floor or vehicle platform fit for any kind of supporting surface.
- Our tanks are not suitable to be buried.

WATER TANKS

Tanks made of one-piece 100% pure polyethylene appropriate for food

and treated against ultraviolet light.

Standard models for water storage (density 1). Reinforced models for liquids up to density 1,5.









- 1 Screw cap with external thread, Ø400 mm (15"3/4) (Ø 130 mm (5"1/8) on 140 l, 270 I and 450 I), for easy cleFoaning and removing impurities.
- 2 Filler cap Ø 130 mm (5"1/8) on tanks of 1800 I, 2900 I, 4000 I and 5600 I.
- 3 PVC quarter turn valve at the bottom: DN 20 mm (34") for 140 l, 270 l and 450 l. DN 40 mm (1"1/2) for 650 I and 1200 I. DN 50 mm (2") for 1800 I, 2900 I, 4000 I, 5600 I. 3/4" plug for complete emptying or for connection of accessories (waterer, etc).
- 4 Anti-rocking design.
- It is possible to mount an high flow-rate float-valve, A634 or A635. See page 57. (except for 450, 270 and 140 l. models).



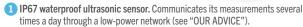
| | | | _ | | |
|------|------------------------|--------|--------|--------|--------|
| REF. | DESIGNATION | WEIGHT | L (mm) | W (mm) | H (mm) |
| B220 | Tank 140 I | 11 | 800 | 520 | 630 |
| B227 | Tank 270 I | 15 | 1000 | 610 | 800 |
| B221 | Tank 450 I | 23 | 1100 | 650 | 800 |
| B222 | Tank 650 I | 34 | 1520 | 760 | 840 |
| B223 | Tank 1200 I | 57 | 1700 | 900 | 1050 |
| B224 | Tank 1800 I | 80 | 2200 | 1170 | 1250 |
| B225 | Tank 2900 I | 130 | 2550 | 1300 | 1350 |
| B228 | Tank 4000 I | 190 | 2400 | 1680 | 1665 |
| B226 | Tank 5600 I | 230 | 3225 | 1640 | 1620 |
| B210 | Reinforced tank 140 I | 13 | 800 | 520 | 630 |
| B217 | Reinforced tank 270 I | 17 | 1000 | 610 | 800 |
| B211 | Reinforced tank 450 I | 26 | 1100 | 650 | 800 |
| B212 | Reinforced tank 650 I | 38 | 1520 | 760 | 840 |
| B213 | Reinforced tank 1200 I | 65 | 1700 | 900 | 1050 |
| B214 | Reinforced tank 1800 I | 88 | 2200 | 1170 | 1250 |
| B215 | Reinforced tank 2900 I | 140 | 2550 | 1300 | 1350 |
| B218 | Reinforced tank 4000 I | 210 | 2400 | 1680 | 1665 |
| B216 | Reinforced tank 5600 I | 255 | 3225 | 1640 | 1620 |
| | | | | | |

CONNECTED LEVEL GAUGE FOR TANK

BLUE LEVEL

Connected level gauge for tank on pasture sending alarms by e-mail and text message. Easy-to-install ultrasonic sensor for all types of cylindrical, rectangular or cubic, metal or polyethylene tanks on wheels or stationary tanks.





2 Easily installed at the top of the tank, in a vent or specially drilled hole. 3 thread sizes: Ø2" - Ø1"½ - Ø1"¼.

2 pre-installed and easily replaceable LR03 batteries (3 to 5 years' service life).

Installation and implementation in only a few minutes.

Accurately measures the water volume as well as the ambient temperature. Entirely designed and manufactured in France.





- 4 Compatible with all computers, smartphones and tablets.
- 5 At a glance: Current water level, remaining days before filling, average consumption, follow-up of the consumptions...
- 6 Alarms by text message / e-mail triggered according to your instructions (5 texted alarms per month are included, unlimited number of warnings by e-mail).

For more certainty and peace of mind, you can monitor the water consumption by means of curves and graphs allowing you to plan ahead when to refill your tank.

| REF. | DESIGNATION |
|------|--|
| | 11 48 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

AE30 Connected level gauge with 1 year of communication LORA®

AE31 Connected level gauge with 1 year of communication SIGFOX®



OUR ADVICE

Choosing the communication system LoRa® / Sigfox®

Depending on the geographic location(s) of your gauge, choose the network with the best coverage:



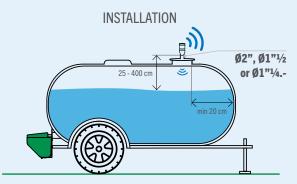
► Check out the LoRa coverage https://couverture-mobile.orange.fr/mapV3/lora/

Check out the Sigfox coverage:

https://www.sigfox.com/en/coverage







Self-regulation of verticality and distance.

Easy and quick configuration of your tank (shape and size) with your BLUE LEVEL dashboard.





DID YOU KNOW?

It is possible to manage several Blue Level gauges with only one dashboard.

Each tank is shown on a map.

The BLUE LEVEL gauge works with water, but also with other liquids such as fuel, lubricant, Adblue, additives...



PASTURE PUMPS





AQUAMAT™ II NC

Identical to the AQUAMAT™ II with integrated bowl for baby snouts, specially designed for cows followed by their young.



- 1 Integrated educational bowl for calves of up to 10 months.
- 2 Design preventing the calf to put its muffle between the push rod and the trough.

| REF. | DESIGNATION |
|------|---|
| 2215 | Pump alone for Nursing Cows |
| 2216 | Pump for nursing cows with strainer + 2 screwed fittings |
| 2207 | Pump for nursing cows with strainer + 2 screwed fittings + suction hose 7 m |

+ ACCESSORIES



| REF. | DESIGNATION |
|------|--|
| B105 | Brass and stainless steel strainer with non return valve |
| B106 | Threaded fitting M26x34 (1") for flexible hose (with inner Ø of 32 mm (1.25")) |
| B107 | Threaded fitting MM 26X34 (1") |
| B110 | Suction set, complete (7 m (23') hose + strainer + fittings) |

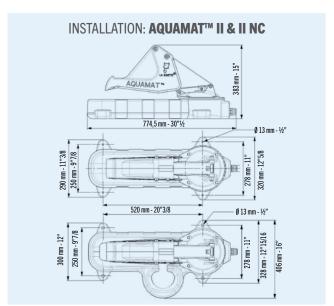
AQUAMAT™ II

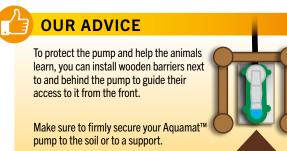
Pasture pump with very easily operated mechanism that has been tried and tested for over more than 20 years, for cattle and horses.



- 1 Trough in polyethylene: Rust-resistant, UV-resistant and unbreakable, whereas the cast trough.
- 2 Learning process facilitated by small water reserve visible on the bottom of the bowl.
- 3 The push rod surrounds the mechanism to avoid accidents.
- 4 Reliable and sturdy: Ø 12 mm (0.5") axe.

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 2209 | Pump alone with fitting 1" MM (26x34 mm) | |
| 2213 | Pump with strainer + 2 fluted fittings | Carton apiece |
| 2214 | Pump with strainer + 2 screwed fittings + suction hose 7 m | Carton apiece |





One Aquamat™ suits for 10 animals maximum.



SOIL REINFORCEMENT



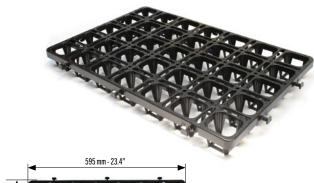
STABILISATION GRIDS

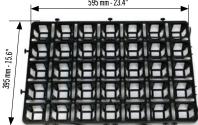
System to stabilise and reinforce the soil structure and improve its natural qualities.

- Bearing capacity: the weight of the animal is distributed over all tiles under the hooves:1 m² (10 sq.ft) instead of 1.80 m² (28 sq.")(4 hooves x 45 cm² (7 sq.")).
- Permeability: the soil is not compressed by the hooves, but remains permeable, both for precipitation water and for urine and faeces.
- **Filtration:** the filtering capacity of the soil and the herbaceous layer is preserved thanks to the total or partial recovery around the drink and feed places.

For the most heavily trampled areas.

The tiles are easily clipped together.

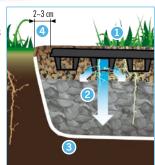




New design with higher drainage capability. Height: 55 mm (2.2").

The grid structure evenly distributes the weight of the animals and protects the bottom layer.

- 1 The stabilising grids are overgrown with grass.
- The stabilising grids are overgrown with grass.
- Geomembrane (optional).
- 4 Expansion joint.



REF.

DESIGNATION

4 stabilisation grids (1 sq.m)



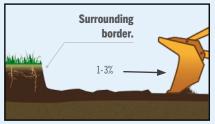
D250

OUR ADVICE

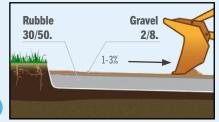
- Install stabilising grids in heavily trampled areas: in front of the building, around drinkers and feed racks and on access roads.
- The surface area to be covered depends on the length of the animals. For cattle and horses, it is recommended to install at least 3 m of tiles around the gathering points (drinker, feed rack...) For sheep and goats, approximately 2 m will do.
- On clayish soils or if you want to restrict revegetation on the stabilised area, first place a geomembrane on the bottom before filling it up with rubble. Note that this prevents deep rooting.



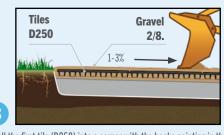
INSTALLATION



Before installing the LA BUVETTE® ground covering and before starting the works, the surface has to be sufficiently dry and have an inclination of $1\ \text{to}\ 3\ \%$ according to the composition of the soil. It may be necessary to drain heavy clay soils.



Install a permeable layer of rubble size 30/50, then level the surface with an appropriate machine. Install a 1 to 2 cm thick final layer of gravel size 2/8.



Install the first tile (D250) into a corner with the hooks pointing in the direction of the surface to be covered and proceed diagonally.

Leave an expansion joint of 2 to 3 cm between the border and the outer tiles. Fill the tiles (D250) immediately after installation with a permeable material (gravel 2/8).

Provide some extra filler material to compensate for soil compaction during the first weeks after installation (1 to 2 cm).

IMPORTANT: Surround the stabilised area with a border to make sure that the outer tiles cannot move. If the borders are subject to intensive use, the outer tiles can be anchored with foundation bolts.















ADVICE FROM LA BUVETTE® ON SOLAR DRINKERS AND SOLAR PUMPS



SOLAR-POWERED WATERING SYSTEMS

CHOOSE THE BEST COMBINATION:

Maximum performances and optimum conditions:

| | | | 4 | Ē | | | \$ 30 | | \longleftrightarrow | QQ Q |
|----|---|--------|------|--------|--------------------------------|------------------------------|--|--------------------------------|--------------------------|----------------------------------|
| 62 | SOLAR-BASIC Ref. 2200 | 55 Wp | 12 V | 85 Ah* | 1200 l/day (125 l/h) | 5 days at 1200 l/day | 3 10 - 15 3 10 - 15 3 80 - 100 25 | Waterup pushing 10 m | Distance 25 m | Unique Drinking site |
| 63 | SOLAR-FLOW "Solar-Powered" Ref. 2203 | 160 Wp | 24 V | - | 3500 l/day (360 l/h) | - | 30 - 40 30 250 75 | Waterup pushing 50 m | Distance 500 m | Several Drinking sites |
| 65 | SOLAR-FLOW "All-in-one" 900 L Ref. 2201 SOLAR-FLOW "All-in-one" 1500 L Ref. 2202 | 80 Wp | 12 V | 110 Ah | 2200 l/day (250 l/h) | 10 days at 1200 l/day | 3 15 - 20 3 15 3 175 5 50 | Waterup pushing 20 m | Distance 25 m | Unique Drinking site |
| | | 160 Wp | 24 V | 110 Ah | 3500 l/day (360 l/h) | 10 days at 2500 l/day | 30 - 40 30 250 75 | Waterup pushing 50 m | Distance 50 m | Unique Drinking site |
| 64 | SOLAR-FLOW "Storage" 12V Ref. 2285 SOLAR-FLOW "Storage" 24V Ref. 2287 | 80 Wp | 12 V | 110 Ah | 2200 l/day (250 l/h) | 10 days at 1200 l/day | 3 15 - 20 3 15 3 175 3 50 | Waterup pushing 20 m | Distance 200 m | Several Drinking sites |
| | | 160 Wp | 24 V | 110 Ah | 3500 l/day (360 l/h) | 10 days at 2500 I/day | 30 - 40 30 30 250 75 | Waterup pushing 50 m | Distance 500 m | Several Drinking sites |

Battery not supplied with this product.

THE MORE THE SUN SHINES, THE MORE THE ANIMALS DRINK AND THE MORE WATER THE PUMP SUPPLIES.

Since 2003, numerous users have been convinced by the performance and reliability of SOLAR-FLOWTM. No need to worry anymore about the water supply when there is already a work overload in summer. No risk of water shortage and the animals no longer come rushing when the tractor arrives! Taking into account the fuel and time saved, a SOLAR-FLOWTM system pays off within a few seasons.

The LA BUVETTE® consultant technicians are available at **0033 324 523 723** to help you choose and start up the best installation for your animals.

ALL OUR TIPS AND TRICKS TO CHOOSE YOUR SOLAR-POWERED WATERING SOLUTION WISELY:





bit.ly/Solar-watering



ADVANTAGES OF SOLAR-FLOW™ SYSTEMS

- Unparalleled performance (flow rates, pumping depth, battery life).
- Reliability: Pioneer in the field of solar watering solutions, LA BUVETTE draws on more than 15 years' experience.
- "All-in-one" or modular solutions.
- Advice from specialists and the LA BUVETTE After Sales Department.
- Reduced maintenance: maintenance of the immersion pump every 2 5 years depending on the quality of the water in the borehole.
- Anti-theft systems: self-breaking nuts + padlock supplied
- Subsidies possible from agencies for the protection of rivers and water courses.
- Rapid return on investment.





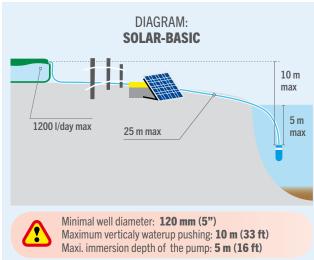






AUTONOMOUS PUMPING STATION











SOLAR-BASIC

Solar-powered, off-grid pumping combination able to cover water consumption peaks in summer for 10 adult cattles or 25 heifers or 80 to 100 sheep/goats or 25 horses.

Reliable, powerful and easy to install.













- Submersible pump, 12 V; Flow rate: 125 I/h depending on the suction depth
- Solar panel 12 V / 55 Wc with mounting frame
- Pre-wired controller: protects the battery from becoming completely drained
- Storage box for the battery* and the controller
- 6 The pump is stopped by a water-level sensor in the trough
- All necessary accessories for hydraulic and electrical connections are supplied. 25 m cable and 25 m hose are also included.

Autonomy: Solar-Basic can pump 1200 I/day for 5 days without sun*.

Easy-to-move combination, to be installed near a pumping point (maximum 25 m).

Compatible with all types of troughs and tanks.



*Battery not supplied. We recommend the use of a gel battery with a capacity of 85 Ah, maximum dimensions: 280 x 175 x 190 mm (11"x 6.9"x 7.5").

REF. DESIGNATION

2200 SOLAR-BASIC: 12V Solar-Powered Pumping Set



OUR ADVICE

MANDATORY: Attach the immersion pump of the SOLAR-BASIC to a fixed point by means of a stainless steel or nylon wire. This avoids harmful forces on the power cable and its watertight connection.

Protect the level sensor against the animals by means of the stainless-steel cover (ref. 4140180).

SOLAR-POWERED PUMP SET

EXAMPLE OF INSTALLATION **SOLAR-FLOW™ SOLAR-POWERED** Mr H. CHAUVIN, breeder of dairy cows in Guemené-Penfao (44, France) Installation date: 01/2014 Farm - pasture distance: 6 km (3.7 Miles) Pasture season: Approximately 180 days Return on investment: 2 seasons 6 troughs Up to 40 of 1000 litres heifers Holstein **SOLAR-FLOW™ Solar-Powered**

USER'S OPINION

The Solar-Flow™ is really effective

700 m - 765.5 yds

HERVÉ CHAUVIN, BREEDER OF DAIRY COWS IN GUEMENÉ PENFAO (LOIRE-ATLANTIQUE, FRANCE)

I have been using a 24 V SOLAR-FLOW™ SOLAR-POWERED pump without batteries since

January 2014. It takes water from a pond to serve several groups of Holstein Friesian heifers (up to 40 animals). As soon as there is enough light, the pump fills up 6 troughs of 1000 litres. The farthest one is situated at a distance of 700 metres and 20 m higher and it all works perfectly. The animals stay outside from March till November and before, I had to haul water with my tractor two times a week and it costs me 1h30 each time. I am very happy with my investment. The Solar-Flow[™] pump is really effective. My installer adapted the cross-section of the tubes to the distance and he even added a valve system allowing the water to return to the pond when the troughs are full.



OUR ADVICE

A SOLAR-FLOW™ "Solar-Powered" pumping station does not store the energy. Therefore, you should provide for a water reserve of sufficient capacity in order to cover several very cloudy days in a

A storage tank is better than troughs as a means of storage. It shields the water from light and you will not find any drowning animals in it. This prevents algae growth and water contamination. Depending on the immersion depth, a SOLAR-FLOW™ "Solar-Powered" can pump up 160 to 360 litres per hour. Equip the tank with an overflow system to direct the excess water back to its



SOLAR-FLOWTM SOLAR-POWERED

Complete solar pump sets without battery.

The pump is activated as soon as the luminosity is sufficient.

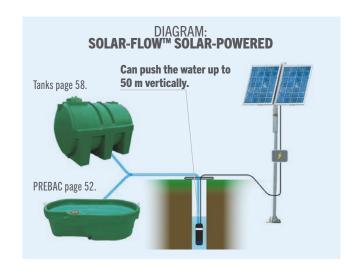




REF. DESIGNATION

Solar pump set 24 V «SOLAR-POWERED» 2203

with two 80 Wp panels, submerged pump, pole and supports, 1 24 V booster, 50 m (164 ft) hose, fittings and electric cables



SOLAR-FLOW™ MODULAR

Customised solar watering system: Please contact us.

























AUTONOMOUS HEAVY DUTY PUMPING STATION



SOLAR-FLOW™ STORAGE

Complete autonomous solar pump set.

The batteries accumulate energy as soon as the luminosity is sufficient.

Water level sensors activate and stop the pump to avoid overflow.

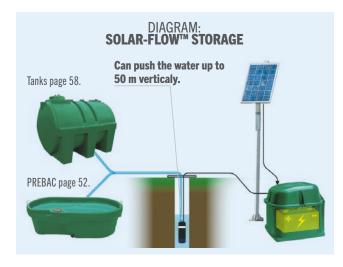
Available in 12 volt and 24 volt models.



REF. DESIGNATION

Solar pump set 12 V «Storage»: With one 80 Wp panel, submerged pump, pole, 2285 support, cabinet, 12 V battery, electric cables and 25 m (82 ft) stainless steel cable, 25 m (82 ft) hose and water level sensors

Solar pump set 24 V «Storage»: With two 80 Wp panels, submerged pump, pole, 2287 support, cabinet, two 12 V batteries, electric cables and 50 m (164 ft) stainless steel cable, 50 m hose and water level sensors

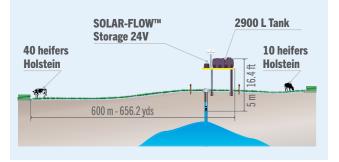


DID YOU KNOW?

Read the interactive SOLAR-FLOW™ guide on www. labuvette-waterers.co.uk

EXAMPLE OF INSTALLATION **SOLAR-FLOW™ STORAGE**

Mr J-L. GAVARD, breeder of dairy cows in Saint-Etienne-en-Coglès (35, France) Installation date: 07/2014 Farm – pastures distance: 3 km (1.9 Miles) Pasture season: Approximately 160 days Return on investment: 2 seasons



USER'S OPINION

My SOLAR-FLOW™ station paid itself back in only two seasons

> JEAN-LOUIS GAVARD, BREEDER OF DAIRY COWS IN SAINT-ETIENNE-EN-COGLÈS (ILLE-ET-VILAINE. FRANCE)

My 24 V SOLAR-FLOW™ Stockage with batteries has been operational since July 2014. The water is drawn from a shallow borehole and is first stored in a higher-placed 2900-litre tank before supplying two troughs placed at a distance of up to 600 m. From April to November, the system provides water to a group of 1 to 2-year old heifers and a group of some ten +2 year old heifers on pasture at 3 km from the farm. My SOLAR-FLOW™ Stockage station saves me 1h30 of water hauling duty 2 to 3 times a week, it paid itself back in only two seasons.



THERMOSOLAR



All-season solar-powered watering system:

Please contact us.



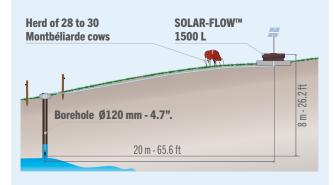




DRINKING TROUGHS WITH SOLAR PUMPS AND BATTERIES

EXAMPLE OF INSTALLATION **SOLAR-FLOW™ 1500 L**

Mr B. SAINT-DIZIER, breeder of Montbéliarde cattle in They-Sous-Montfort (Vosges, France) Installation date: 04/2006 Farm – pasture distance: 12 km (7.5 Miles) Pasture season: Approximately 50 days Return on investment: 4 seasons



USER'S OPINION

I was astounded by its output and reliability

BERNARD SAINT-DIZIER, BREEDER OF MONTBÉLIARDE CATTLE IN THEY-SOUS-MONTFORT (VOSGES, FRANCE)

I have been using a Solar-Flow 1500 L since April 2006. As time passed, I was astounded by its output and reliability, which made it earn my confidence. In May 2010, I chose a Solar-Flow 900 L for a group of 18 young cows. I gained a lot of time and no longer had to worry about the water supply. It is a big relief. The pumps are plunged to a depth of 6-8 m in wells at a distance of some twenty metres from the troughs. No need to worry about the Solar-Flow™ drinkers. Even if the sky is overcast, the troughs are full. The animals are calmer, no longer stand around waiting for the tractor to come and there is no more crowding to get water.

Even when I only take into account the fuel savings, tractor wear and gain in time (1 hour a day), my Solar-Flow 900 L will be paid off in 3 seasons.





OUR ADVICE

Have your pump overhauled regularly (every 2 to 5 years depending on the quality of the borehole). LA BUVETTE offers you a fixed rate for pump maintenance. Take advantage of the low season to have your pump overhauled and have it operational by the next high season... Contact your dealer for advice.

SOLAR-FLOW™ 1500 L



Autonomous solar-powered drinker with two batteries. The pump is powered by the batteries, which are recharged by the solar panels.

The Solar-Flow™ 1500 L model pumps up to 3500 litres/day during the

high season. It covers the consumption of a herd of 30 dairy cows or 30 nursing cows with their calves.

Dimensions: Ø200 x h. 300 cm (Ø79" x H. 10 ft.)

- 1500 I. trough (2 x 750) in Polychoc™ HDPE (as PREBAC) Ø 2,00 m. 10 years warranty. Quick draining "Vide-Vite".
- Water level sensors inside the trough initiate the start and stop function of the pump.
- 3 Very powerful immersion pump: Pushes the waterup to 50 m vertically (more than 500 m horizontally) and supplies 160 to 360 l/h (depends on the suction depth).





- The central compartment locked by a key protects the 2 batteries and their charge controller. Autonomy: 10 days without sun, iwth a daily consumption of 2500 I/ day.
- 5 Solar panels 80 Wp, pole and bracket, with anti-theft nuts.



Minimal well diameter: 120 mm (5") Maximum vertically waterup pushing: 50 m (164 ft) Maximum immersion depth of the pump: 20 m (65 ft)

REF. DESIGNATION

2202

Complete pack - Solar pump - Two 750 litres (1500 litres) drinking troughs. Two 12 V batteries and two solar panels 80 Wp



SOLAR-FLOW™ 900 L



Autonomous solar-powered drinker with one battery. The pump is powered by the battery, which is recharged by the solar panel.

The Solar-Flow™ 900 L model pumps up to 2200 litres/day during the high season. It covers the consumption of a herd of 15 dairy cows or 15 nursing cows with their calves.

- 1 900 I. trough (2 x 450) in HDPE (same as 2202). Diameter 1,60 m. (63")
- Pushes the water up to 20 m vertically (more than 200 m horizontally)
- Autonomy: 10 days without sun, with a daily consumption of 1200 I/ day.
- Solar panel 80 Wp, pole and bracket



Complete pack - Solar pump - Two 450 litres (900 litres) drinking troughs -2201 One 12 V battery and one solar panel 80 Wp















TO HELP YOUR CALVES **MAKE A GOOD START IN LIFE**



LA BUVETTE offers the breeders hutches that are adapted to young calves from their birth until they are weaned in order to ensure their safety and good health.

MINISTAR

up to 4 weeks

Individual starting hutch for calves up to 4 weeks old. This hutch offers all comfort to very young calves, keeping them safe and protecting them from microbes.



SEE P.77

MIDDLESTAR

from 1 to 2 months

INDIVIDUAL





FULL RANGE OF BREEDING MATERIAL FOR CALVES

LA BUVETTE offers the breeders comprehensive solutions for breeding calves, including housing, watering as well as maintenance solutions.

Waterers adapted to calves

With its LAKCHO 2, BABYLAB, LAC 5A and B19, LA BUVETTE offers the breeders a range of waterers that are especially designed for young calves.





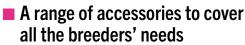






Troughs for small animals

The troughs (ref. D235, D236) are ideal for the distribution of milk and solid food for both indoor and outdoor use.



To complete LA BUVETTE's product range for young calves, we offer from now on CALF-BUDDY™ teats and connectors that combine the MILK BAR™ technology of controlled milk flow with the 1-click system to connect them to our usual feeding buckets with teats. The breeders can also find accessories such as a polyethylene pail protection (D138) and to clean the nursery, there are also light but sturdy and easy to use rectangular and round brushes, shovels and planes (Ref. A701 to A705).



Page 74.







The essential carts and wheelbarrows

LA BUVETTE offers a wide range of rolling material to transport buckets, fodder and even new-born animals.



DISCOVER ALL OUR FENCES AND GATES ON PAGE 79

LOGISTAR up to 2 months

Logistar is an oversized individual hutch for calves aged up to 2 months.

INDIVIDUAL



SUPERSTAR

from 2 to 6 months

The new SUPERSTAR calf hutch with its rolling fence for 5 animals is specially designed for calves aged from 2 to 6 months. It offers housing comfort to the young calves and easier working conditions for the breeders.







5 TIPS FOR A WELL-HOUSED CALF IN GOOD HEALTH

During the first weeks of its life and even beyond the period of 0 to 4 weeks, when the calf needs special attention and specific care, healthy and comfortable housing conditions are essential. For maximum comfort, 5 criteria must be considered: temperature, ventilation, humidity, location and surface area allocated to each animal.

1. TEMPERATURE ADAPTED TO THE AGE OF THE YOUNG CALF AND WITHOUT SUDDEN VARIATIONS

To each age of the calf corresponds a certain temperature range that is well-supported (without draught or high humidity):

- 0 to 25 °C for newborns (younger than 24 hours)
- -10 to 30 °C for calves younger than 3 months
- -15 to 35 °C for calves older than 6 months

Besides low temperatures, it is even more important to avoid sudden variations in temperature and the variation between the day and night time temperature should not exceed 15 %. Significant temperature variations can lead to a weakening of the defence system and affect the digestive process.

2. AIR RENEWAL WITHOUT DRAUGHT

The air inside the hutch of the young calf must be replaced to evacuate the foul air that is often the cause of respiratory diseases. The air speed around the calves should not exceed 0,25 m/s. The air speed can be increased to 1 m/s to lower high temperatures (above 25 °C) during the summer. Draughts however with sudden waves of cold air must be avoided for the comfort of the calves.

3. HUMIDITY UNDER CONTROL

Draughts, cold and humid walls are the worst enemies of a young calf. Therefore, the ambient humidity must be monitored by looking for any traces of water on the inside walls of the pens or hutches and the metal parts. The coat of the calf and the litter may not by humid to the touch. Neither allow the milk to be prepared inside the nursery as this can strongly increase the ambient humidity.

4. NURSERY CLOSE TO THE MILK PARLOUR BUT ISOLATED AND FACING SOUTH-EAST

The location of the nursery in the stable is a decisive factor. Installing the nursery close to the milking parlour and the calving boxes will simplify your work, but you must make sure to provide sufficient isolation from the housing of the adult animals to minimise the risks of transmitting infectious agents. In case of half-open buildings or hutches placed outdoor, south-east orientation is recommended.





- Incline of 3 % for the evacuation of urine.
- Orientation: back to the prevailing wind and front to the morning sun.
- Vents adjusted to the weather conditions.



5. A HUTCH FOR EVERY AGE

During the first weeks of their lives, calves need to be housed in individual hutches. The length of the individual calf hutch needs at least to be equal to the length of the calf increased by $10\,\%$ (length measured from the tip of the nose to the back of the buttocks). The width shall at least be equal to the size of the shoulder of the calf (in a standing position).

Past the age of 8 weeks, the calves move to group housing. The dimensions of the group hutches must be adapted to the size of the animals. Until they are weaned, it is preferable to avoid large groups and to compose homogenous groups of 5 to 6 calves to keep everything well under control.





CALVES AND MORTALITY

Young calves are fragile until they are weaned and the mortality of young calves is a major problem for dairy farms.

Most pre-weaning deaths (except deaths during calving) are caused by respiratory and diarrhoeal diseases. A study conducted in France shows that the mortality risk of calves aged less than one month is $10,2\,\%$ of which almost 7 deaths out of 10 occur within the first 48 hours.

Between 1 and 2 months, the mortality risk is 1,3 % while in calves of 2 to 6 months old it raises to 2,3 %. New-born calves have in fact a limited resistance to diseases due to the fact that they have almost no circulating antibodies that are able to destroy pathogens.

During the first hours of their lives, the calves drink the colostrum which contains the antibodies needed to acquire their immunity. Since the pathogens causing diseases are mostly transmitted by contamination between animals, it is desirable to house the young calves in individual hutches during the first weeks of their lives.

RECOMMENDATIONS FOR A HEALTHY AND BALANCED DIET FOR YOUNG CALVES

For a healthy and balanced diet favouring the growth of the calves, a few rules have to be followed:

1. PERFECT HYGIENE

Hygiene such as cleaning of the milk distribution equipment is essential because buckets that are not or badly washed favour the growth of bacteria. It is thus essential to clean all tools used to prepare and distribute the milk after each use.

2. CAREFUL MILK PREPARATION

When the calves are fed with milk replacer, the major problems have to do with a bad preparation of the milk powder. The milk must be perfectly homogeneous and distributed at a temperature of 40 °C.

3. EASY MILK DISTRIBUTION

It is better to feed milk to young calves from a higher-placed pail with nipple to stimulate the reflex closure of the oesophageal gutter and salivation.

4. INTRODUCE SOLID FOOD AS SOON AS POSSIBLE

The administration of solid food (concentrate and fodder) should be started as soon as possible. The calves must be able to freely dispose of concentrate and rough fodder of good quality (but in small quantities in the beginning to avoid waste). Even though the rumen only starts to become operative after the first month, the administration of solid food from the first days on will help the early development of the rumen.

The feed rack is preferably placed in the back of the individual hutch or astride on the separation between two hutches. When the calves move to group housing, it is important to adapt the height of the feed rack to the size of the smallest animals.

5. WATER ACCESS FROM AN EARLY AGE ON

When they have the opportunity, calves start drinking water from the second day of their lives (although water access is only obligatory as of 2 weeks).

The availability of water stimulates the early ingestion of solid food and helps an early development of the rumen. Therefore, it is recommended to always provide a bucket of clean and fresh water besides the bucket with solid food.

It is however advised to avoid giving water within half an hour following the intake of milk since the entering of water in the abomasum (oesophageal gutter still closed) might cause reflux.

At last, to make sure that the provided water does not contaminate the concentrate and makes it repulsive, you must avoid that the water distribution is too close to the concentrate. A good solution to solve this problem is the installation of a partition between both bucket rings.

Water needs of calves aged from 0 to 6 months

| AGE | WATER NEEDS (IN LITRES PER DAY) |
|-----------------|---------------------------------|
| 1st to 3rd week | 1 to 1,5 |
| 4th week | 2,5 to 3,5 |
| 2nd month | 4 to 7 |
| 3rd month | 5 to 8 |
| 4th month | 6 to 10 |
| 5th month | 11 to 13 |
| 6th month | 14 to 17 |



THE IMPORTANCE OF MILK INGESTION SPEED

Calves are very important and have many future roles from the basis of your future herd to providing high quality beef. When it all goes right, raising calves can be very rewarding. Often it's not what you feed that's the problem, but how you feed it.

ALLOW A NATURAL SUCKLING FOR THE HEALTH OF THE DIGESTIVE SYSTEM

When a calf suckles from a cow she applies both positive and negative pressure (squeezing and suckling). The squeezing stimulates the cows teat so oxytocin is released. Oxytocin causes cells in the udder to contract and eject milk from the alveolus into the cisterns above the teats. The suckling overcomes the sphincter barrier, allowing the calf to remove milk from the teat. Oxytocin does NOT cause milk to flow from the teat. The teat canal must be physically opened to remove milk.

Calf drinks slowly, up to 4 or 5 minutes per litre of milk and produces a lot of saliva. The saliva that is produced by suckling slowly has natural antimicrobial properties to boost immunity. Saliva balances the pH in the abomasum so the milk can turn into a thick curd. The slow delivery of milk combined with saliva gives rennin and other enzymes time to curd the milk, lipase digests fats, lactose is digested and absorbed into the bloostream.

The natural suckling action of using positive and negative pressure activates the oesophageal groove to close and form a tube so milk bypasses the rumen and enters tha abomasum.

Put simply, calf drinks with her neck long and low, and the cow lets the milk down slowly. With the speed of milk controlled, the rumen is bypassed and enters the abomasum. Curd is created to start the digestion process. Enzymes digest fats and lactose for weight gain. Happy, healthy calves!

Oesophageal groove:

The oesophageal groove is a curved muscle that lies at the base of the oesophagus. It ensures that everything that enters the calf's mouth ends up in the right place.



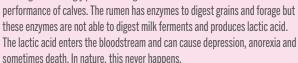
 When a calf drinks water from a trough or eats meal and grains, the oesophageal groove stays relaxed and these food groups drop straight into the rumen for digestion.



 When a calf suckles, the oesophageal groove closes and forms a small tube to direct the milk past the rumen and into the abomasum for digestion.

To much milk can cause it to overflow allowing milk to drop into the rumen.

The overflow of milk into the rumen (rumen drinking) can strongly penalize the growth



LACTOSE ABSORPTION & NUTRITIONAL SCOURS

While not as serious as viral scouring which can devastate your calving season, nutritional scours still takes time to treat and does have long term consequences. Nutritional scours can be linked to two major causes, poor digestion and stress. Stress can result from a variety of causes. It could be due to irregular feeding, sudden changes in the concentration of milk replacers, or a poor quality milk powder. Environmental stress can also play a part, sudden changes in the weather or cold, damp, draughty or humid calf sheds.

Digestive stress is a key factor. If the pH in the abomasum is not balanced and the acid secretion is reduced then the abylity of the milk to clot is compromised as is the digestion of milk protein. Inadequate cloting allows excess sugar (lactose) to enter the intestines and produce a nutrient source for pathogen such as E.Coli who's numbers multiply rapidly when in contact with raw milk or lactose. This is a leading cause of nutritional scours in young calves.

Aside from cost and added workload, studies have shown that calves who suffer from nutritional scours pre weaning have a reduced average daily gain which can impact conception. Further studies have shown that nutritional scours has a negative impact on first lactation milk production.

Addressing the cause:

Alongside reducing environmental stress, improving digestibility and lactose absorption is key in reducing nutrinional scours. We know from studies that a controlled flow of milk into the calf has a positive effect on digestion by promoting good clotting and improving lactose absorption. Saliva production helps to balance pH to further ease stress on the digestive system. Feeding the calf at a slow, natural speed will maximise saliva production and ultimately reduce work load.

WEIGHT PERFORMANCE

Good ADG hav positive outcomes such as better conception rates and increased first lactation milk production to name just a few. Alongside, controlled milk flow and lactose absorption, nutrition is key.

Improving lactose absorption is key for calves to fully benefit from good nutrition programmes. Lactose is released from the milk curd in the abomasum. It is broken down to glucose and galactose and these are absorbed into the bloodstream to form the major energy sources for young calves.

The use of a rapid absorption feeding system (rapid teats or bucket) reduces the absorption of lactose, the calves then do not benefit fully from their ration.

By controlling the flow of milk, the digestive system can function perfectly for maximum utilization of distributed feed and optimal growth.







REDUCING CROSS SUCKLING

Cross suckling is when calves suckle on each other or their surroundings after feeding. It can be missed when feeders are filled and calves are left to feed, however it is worth taking the time to check for cross suckling as it can cause short term infections and long term damage. If you watch your calves after feeding you will see that the length of time spent cross suckling is directly linked to the speed they drink.

For example: A calf fed 4 L at 'nature speed' should take around 12 - 15 minutes to drink. After drinking she will be quiet and settled. Her suckling urge is satisfied and she is happy.

If she drinks 4 L in 8 minutes or less then she will spend the next 4 - 5 minutes cross suckling to satisfy the natural suckling urge.

What's wrong with that:

Short terms problems like navel infections are a nuisance and take time and cost to treat. We are most interested in the long-term damage because cross suckling removes the keratin plug and leaves the developing teat canal open to infections. Cross suckling is strongly linked to mastitis and blind quarters in first lactation heifers. (Sources: Schalm, Jensen & Budde)

How to fix it:

Allowing calves to drink at the 'nature speed' resolves cross suckling almost immediately. It really is that simple! (See text box opposite).



Our scientific sources:

«During the trial, it was observed that group-housed calves fed the faster flow teats had a much greater incidence of hyperactivity immediately post feeding and were more likely to engage in non-nutritive sucking of each other's body parts (including muzzle, navel and udder).

These calves were fed from the faster teat fitted with a valve.



They cross suckled after feeding and there was extensive damage to the developing teats. Most concerning was the removal of the keratin plug which leaves these calves open to infection.



These calves were fed from the controlled Milk Bar™ Teat. They were very happy and contented after feeding. They did not cross suckle and their developing teats and udders remain intact and in perfect condition.»

« Using slow flow rate teats to feed calves from day old to weaning appears to have an important impact on digestive processes in the immature gut. Such improvements in digestion and rumen development in young calves may assist in the digestion of milk and other feeds, leading to improved growth performance. »

Sources: research published in Journal of Applied Animal Nutrition.





REMEMBER

- Controlling milk flow protects the rumen
- Reduced feeding rate reduces nutritional diarrhea problems
- . Milk flow control increases ADG
- The slower the calves drink, the less they suckle in them



CALF-BUDDY™ FEEDERS



NZ PAT APPLN 787055 PCT PATENT APPLICATION PCT/NZ2020/050110 EU DESIGN 001449680-0001 INTERNATIONAL DESIGNS APPLY. INTERNATIONAL PATENTS PENDING OR APPLY.





OUR ADVICE

Follow the rule: 1 calf, 1 teat.

It is important to calf health that milk is delivered at the correct rate to optimize digestive performance and improve health. As the teat ages, the rubber becomes softer and milk flow increases. As weaning approaches, the developed digestive system can handle this slightly increased flow, but for young calves, a faster flow has a negative impact and can lead to crosssucking issues and nutritional scours.



9 litres semi transparent bucket with stainless steel handle. Comes with 1 CALF-BUDDY™ teat and 1 connector.

Hangs on hutch bucket bracket.

Graded from 1 to 8 litres.



| REF. | DESIGNATION |
|------|------------------------|
| D373 | CALF-BUDDY™ #1 feeder |
| D374 | CALF-BUDDY™ #1 lid |
| D132 | CALF-BUDDY™ #1 bracket |



CALF-BUDDY™ TEATS

Controlled flow rate teat and connector for Ø38 mm hole. No valves or threads, just the ultra-hygienic 1-Click system.



- 1 Easy and fast "1-CLICK" connection.
- 2 Lateral wings to visually check the alignment of the teats.
- Softer yellow teat recommended for learning during the first 2 to 3 days of life maximum or in the event of a weak calf.



The CALF-BUDDY™ teat is easy to install: Simply click the teat and connector together and pull through the Ø38 mm hole in your bucket.

| DEE | DECIONATION | DAGVING |
|------|------------------------------------|-----------|
| REF. | DESIGNATION | PACKING |
| D370 | CALF-BUDDY™ black teat (alone) | Box of 10 |
| D371 | CALF-BUDDY™ black teat + connector | Box of 10 |
| D372 | CALF-BUDDY™ learning vellow teat | Box of 10 |

TEST THE DIFFERENCE CALF-BUDDY™

To see the difference, use the Calf Buddy™ Teat with one calf





What you will see:

She will take longer to drink. That is good/ the longer the better!

The first few feeds, calves may be unsettled while they re-learn to suckle properly. Don't worry, they will soon adapt. Don't worry about milk getting cold, when the digestive system is healthy, milk temperature is not so vital.

You will see a lot of saliva is produced.

Saliva balances the pH in the abomasum for curding, improved digestion and boosted immunity.

You will notice that she puts on more weight.

As more nutrition is absorbed, calves have higher daily gains.

She will be more settled after feeding.

The controlled flow satisfies the suckling instinct to reduce hyperactive, cross sucking behaviour after feeding.

After a few days/ nutritional diarrhoea will be less.

The controlled flow helps prevent raw milk entering the intestines so nutritional diarrhoea is reduced.

CALF-BUDDY™ FEEDERS



NZ PAT APPLN 787055 PCT PATENT APPLICATION PCT/NZ2020/050110 EU DESIGN 001449680-0001 INTERNATIONAL DESIGNS APPLY. INTERNATIONAL PATENTS PENDING OR APPLY. NZ DESIGN APPLICATION 431163 EUROPEAN REG DES 015015394-0001

CALF-BUDDYTM #2

20 litres feeder with adjustable fixing hooks.
Comes with 2 CALF-BUDDY™ teats and 2 connectors.

The teats are facing forward, so that the calves are comfortable

Clean lines, easy to clean.

in their hutches.

An optional lid is available to stop flies and reduce milk heat loss.





Dim.: 42 x 39 x 31,5 cm 16.5 x 15.3 x 12.4"

| DEE | DESIGNATION |
|-----|-------------|

D375 CALF-BUDDY™ #2 feeder

D376 CALF-BUDDY™ #2 lid

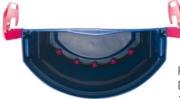


50 litres feeder with adjustable fixing hooks.

Comes with 5 CALF-BUDDY™ teats and 5 connectors.

Clean lines, easy to clean.





Perfect for SUPERSTAR hutch. Dim.: 76,5 x 40 x 37 cm 30.1 x 15.7 x 14.6"

| KET. DESIGNALIUN | REF. | DESIGNATION |
|------------------|------|-------------|
|------------------|------|-------------|

D377 CALF-BUDDY™ #5 feeder

D378 CALF-BUDDY™ #5 lid



FOR THE **MOUNTING OF CALF-BUDDY™ FEEDERS**

adjustable hooks system

Designed to fit wire pens, 25mm steel bars, 50mm tubes and headlocks, the hook is height adjustable to ensure calves suckle at the perfect height (60-65 cm), no matter what barriers you use.

The twist-lock handle is easy to use and locks the feeders in place.

Adjust the lock handle:





Adjust the height:



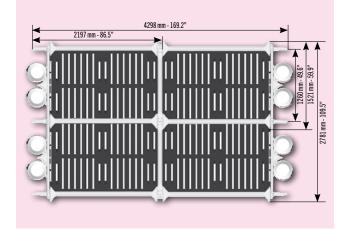
Standing on the calf side of your pen, measure the height of the rail. Bolt the hook to the feeder using the marked holes. The teats will now be about 60 - 65 cm from the floor, perfect!

MODULAR INDIVIDUAL CALF BOX



EXAMPLES OF MOUNTING: BABY-STAR™

Adjoining boxes all require one less fence.



PE SLAT-FLOOR

Non-slip and sturdy slat floor in HDPE.

Easily clean and transport (28 kg (61.7 lbs)).



REF. DESIGNATION

PE slat floor for BABY-STAR™ or MINISTAR™



Shock-resistant calf pens that are easily assembled side by side or back to back.

Placed under a shelter or inside a building, the Baby-Star™ provides calves of 0 to 8 weeks with sanitary safety and comfort.





- Made of double-walled PEHD.
 This rot-resistant material
 allows easy maintenance
 and enhances hygiene. The
 rounded shapes and soft
 material avoid wounds.
- 2 18
- 2 The 2 included adjustable headlocks allow you to immobilize the calf. One Ø280 mm pail and its support is included with the gate. An another pail, sold separately, can be set.
- 3 Quick and easy gate opening/closing system.
- 4 The protruding side walls separate the pens at the feed barrier and limit direct contact between calves.
- The openwork walls allow easy inspection of the calf and visual contact between calves.

Interior length: 1840 mm (72.4") - Interior width: 1220 mm (48") Height without PE slat floor: 1150 mm (45.3") - with: 1350 mm (53.1")

The BABY-STAR™ meets all European standards for animal well-being.



| REF. | DESIGNATION |
|------|--|
| D244 | BABY-STAR™ rear wall |
| D246 | BABY-STAR™ side wall |
| D248 | $\begin{array}{l} BABY\text{-STAR^{\text{TM}}} \ front \ wall + 2 \ headlocks + 1 \ pail + 1 \ holder \ for \ pail \\ + 3 \ connecting \ pins + 1 \ quick \ gate \ opening/closing \ system \end{array}$ |
| D249 | Set of brackets to mount two BABY-STAR™ elements to the wall |



D253

INDIVIDUAL CALF HUTCH IN POLYETHYLENE **FOR A CALF UP TO 4 WEEKS OLD**

MINISTAR™

Starter hutch for calves of up to 4 weeks old providing all the comfort they need.

Outside dimensions: L. 140 x W. 116 x H. 125 cm. (L. 55 x W. 45.5 x H. 49")









- Individual UV resistant calf hutches in white pure high density polyethylene. Good thermal insulation. Its shock resistance ensures a longer service life. Quick and easy cleaning: the hutches are light and easy to handle. The polyethylene is resistant to high-pressure cleaning.
- 2 The ventilation opening at the rear ensures better ventilation and always clean air.
- Carge gate allows direct supervision of your calf and entry of fresh air.
- Sticker to record all important information about the calf (identification,
- 5 This part can be cut out easily to create an opening. Hatch and feed rack sold separately, see page 79.
- 6 Urine draining.
- Using an optional tipping fence helps maintain a dry and hygienic sleeping area as the excrements are dropped mainly outside in the courtyard (see page 79).

REF. DESIGNATION

D112

Hutch for 1 calf up to 4 weeks old - In white HD polyethylene without accessories - Outside dim.: L. 1,40 x W. 1,16 x H. 1,25 m



5 YEARS GUARANTEE

Since January 2013, the LA BUVETTE hutches come with a guarantee of 5 years against all manufacturing defects. They are not guaranteed against damage caused by improper handling, incorrect installation (on not levelled or uneven terrain) or inappropriate use, other than for sheltering young dairy calves. The accessories come with a one year guarantee.

Warranty claims for a hutch shall be sent to your LA BUVETTE dealer accompanied with your purchase invoice and photos of the damaged hutch and in particular of its date stamp (see prebac, p. 52).

Should your claim be accepted, your dealer will give you a voucher for its original cost minus depreciation (-20 % per year).



Why choose the LA BUVETTE® hutches?

Offer your future dairy cows the best opportunities:



French quality

product



HDPE



Adjustable ventilation for maximum comfort



5 years guarantee against all manufacturing defects



ACCESSORIES

Tipping fence, gate, pails, feed rack...

Numerous accessories are available: See page 79.





USER'S OPINION

The calves are sound and full of life!

> MR CYRIL GOSSET, DAIRY FARMER AT RUMIGNY (08-FRANCE). WATCH THE VIDEO on www.labuvette.com

The calves were housed in concrete individual boxes in an old building and we

experienced various health and mortality issues due to the ventilation and evacuations. On the advice of our veterinarian, we now start off our calves in MINISTAR hutches for 2 weeks. We notice many changes! The calves are now sound and full of life when they arrive in the group pen in the building. Provided that each hutch is properly disinfected after each calf, panting and diarrhoea are ancient history.





INDIVIDUAL CALF HUTCH IN POLYETHYLENE FOR A CALF UP TO 8 WEEKS OLD





USER'S OPINION

I am very satisfied with the working conditions

DAMIEN JONET, BREEDER OF PRIM HOLSTEIN IN CLAVY-WARBY (FRANCE).

The hutches are perfect to get the calves going. I use them from the moment of calving until the calves are 7 days old. The hutches provide a healthy environment, there are no temperature problems and the litter is always dry. During this period, I teach them to drink on their own, and I am very pleased with the working conditions. When the calves are in separate hutches, it is easy to catch them. You can easily notice when there is a problem, in order to intervene immediately. I wouldn't change to another system now, because I have to optimize my working hours.





MIDDLESTAR Intermediary hutch for 1 calf up to 2 months old. Outside dimensions: L. 203 x W. 135 x H. 140 cm. (L. 80 x W. 53 x H. 55")

Hoisting eye.

Ventilation grilles for better evacuation of ammonia.

REF. DESIGNATION

Hutch for 1 calf up to 8 weeks old - In white HD polyethylene -D117 without accessories - Outside dim.: L. 2,03 x W. 1,35 x H. 1,40 m

LOGISTAR™

Big calf hutch for 1 calf of 0 to 2 months old.

Perfect ventilation.

Outside dimensions: L. 220 x W. 145 x H. 140 cm.

(L. 86.6 x W. 57 x H. 55")



- Hoisting eyes for easier cleaning
- Ventilation system complete with adjustable disc in the back and grids on the roof for better evacuation of ammonia.
- 3 4 parts can be cut out easily to create openings. Hatch and feed rack sold separately, see page 79.
- 4 Large variety of optional accessories (see page 79).

DESIGNATION

Hutch for 1 calf up to 8 weeks old - In white HD polyethylene -D111 without accessories - Outside dim.: L. 2,20 x W. 1,45 x H. 1,40 m



ACCESSORIES FOR NURSERY

PE SLAT-FLOOR

Non-slip and sturdy slat floor in HDPE, perfect for BABY-STAR $^{\!\top\!\!}$ or calf hutch MINISTAR $^{\!\top\!\!}$.



| REF. | DESIGNATION |
|-------|-----------------|
| 10.00 | THE STIGMALLIUM |
| | |

D253 PE slat floor for BABY-STAR™ or MINISTAR™

+ ACCESSORIES

For MINISTAR™, MIDDLESTAR and LOGISTAR™.



| REF. | DESIGNATION |
|------|---|
| D122 | Side hatch (For LOGISTAR, MINISTAR and SUPERSTAR) |
| D123 | Hay rack (For LOGISTAR, MINISTAR and SUPERSTAR) |
| D128 | Holder for pail Ø 340 mm (13") |
| D129 | Holder for pail Ø 280 mm (11") |
| D130 | Mounting plate for pail holder, necessary for Middlestar fence in polyethylene. |
| D132 | Support for pail with nipple |
| D138 | Pail cover in polyethylene |
| D139 | 16 litres (4.2 USG) pail - Ø 340 mm (13") |
| D149 | 12 litres (3.2 USG) LA BUVETTE pail, translucent and graded - Ø 280 mm (11") |

TIPPING FENCE

Galvanised fence and gate compatible with MINISTAR $^{\text{TM}}$, MIDDLESTAR and LOGISTAR $^{\text{TM}}$ hutches.

The gate and fence are sold separately. It is also possible to only use the gate with the MINISTAR $^{\text{TM}}$, MIDDLESTAR and LOGISTAR $^{\text{TM}}$ hutches.

Sturdy and durable, large diameter tubes and hot dip galvanised after assembly.









- 1 2,12 sq. m courtyard. 80x40 mm mesh, Ø 4 mm wire.
- 2 No sill bar to rule out the risk of falling.
- 3 Wheels supplied with fence for easy moving when installed.
- Removable gate: To clean the courtyard, the gate swings on the hutch in one move.
- 5 The lock is out of reach of the animal.
- 6 Support for pail with nipple.
- place for two pail holders (separately delivered).
- 8 Anti-wear plate.







- 1 The hutch tips inside the fence.
- 2 The fence tips onto the hutch.
- 3 Wheels for easy moving.

| REF. | DESIGNATION |
|------|--|
| D119 | Fence for calf hutch - Int. dim. L. $1522x$ W. $1481x$ H. $904mm$ Without gate (to order separately) |
| D120 | Gate for calf hutch - Dim. W. 750 x H. 650 mm |



POLYETHYLENE GROUP HUTCH FOR CALVES FROM 2 TO 6 MONTHS



+ SLIDING FENCE

Fence in galvanised steel with feed stanchion for 5 animals for SUPERSTAR hutch. Fence on wheels, rolls in and is locked to the hutch in no time to clean the courtyard and lift the entire structure.

L. 235.5 x W. 231 x H. 145 cm. (92.5" x 90.9" x 57.1")

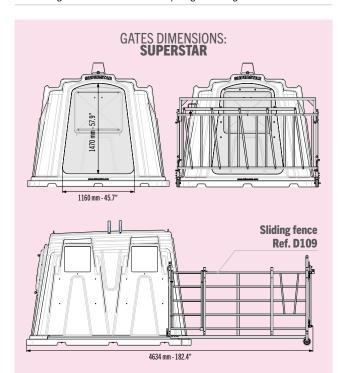


3 Head opening for drinking.

4 Left/right-reversible side panels.

REF. DESIGNATION

D109 Fence on wheels for SUPERSTAR, with stanchion for 5 animals, 1 access gate for the farmer and 1 head opening for drinking.



SUPERSTAR

Group hutch for 5 calves aged from 2 to 6 months.

Made of white HD polyethylene IN ONE PIECE.

Very strong and unbreakable.

Outside dimensions: L 265 x W 231 x H 201 cm. (104.3" x 90.9" x 79.1")











- 100% pure high-density polyethylene treated against UV rays.
- 2 Welded, double-walled base for excellent rigidity.
- 3 Very large, adjustable, back ventilation hatch with straw feeding position.
- 4 Large opening for sufficient air renewal.
- 5 Lifted from the front by means of forks (possible with rolled-in park). 2 hoisting eyes.
- 6 4 parts can be cut out easily to create openings. Hatches and feed rack sold separately, see page 79.

Inside height: **185 cm** (6.1 ft). Hutch surface: **6,10 m²** (64.6 ft²).

REF. DESIGNATION

D108

SUPERSTAR calf hutch in pure polyethylene with ventilation/hay feed hatch and hoisting eye. Suitable for maximum 5 calves aged from 2 to 6 months.

OU

OUR ADVICE



During the weaning period, it is important that the calves have access to water.

A waterer with constant level of the type LAC 5 or LAC 5A (page 8) can be installed on the head opening in the side fence by means of bracket A361.

An anti-frost drinker on a stand of the type LAKCHO 2 (page 26) can also be mounted between two SUPERSTAR fences.



SYNTHETIC FEED TROUGHS AND LICKSTONE HOLDER

TROUGHS FOR SMALLSTOCK

Feed troughs for calves and sheep kept indoor or outdoor.

Suitable to administer solid and liquid feed in pails
that fit into specially shaped holders (pails sold

that fit into specially shaped holders (pails sold separately).





- High density polyethylene trough, treated against UV rays, with 5-year guarantee for all manufacturing defects. Acid resistant and easy to maintain.
- 2 Galvanised steel frame with adjustable bolted feet and reinforcement under the total length of the trough.
- 3 Running clearance between trough and frame for the thermal expansion.
- 4 Shaped to hold Ø280 mm milk buckets (ref. D149 sold separately).
- Ø30 mm draining without tool. No nooks and crannies.

| D235 1 | Trough 1,73 m long for small animals - 4 places for buckets |
|---------------|---|
| D236 1 | Trough 2,78 m long for small animals - 5 places for buckets |
| D237 1 | Trough 2,63 m long for small animals - 6 places for buckets |



25 KG LICKSTONE HOLDER

Stainless steel holder for cylindric or cubic lickstone up to 25 kg (55 lbs). Just the sturdy and durable holder you were looking for.

W. $256 \times D$. $265 \times H$. 200 mm (W. $10 \times D$. $10.4 \times H$. 7.9")

8 fixing points of which 4 oblong.





| REF. | DESIGNATION | |
|------|-------------|--|
| | | |

D173 Stainless steel holder for mineral lick up to 25 kg (55 lbs)

HDPE FEED TROUGHS

Feed troughs of food safe HDPE to be installed on the floor.

High quality product made of high density polyethylene for food (HDPE), a non-deforming and light material.

Very sturdy and strong for a long service life, whatever the conditions of use are.



Holds good on the floor for higher stability.

Flat bottom placed on the floor.

| REF. | DESIGNATION |
|------|--------------------------------|
| D238 | 1 m HDPE feed trough - 16.6 L |
| D239 | 2 m HDPE feed trough - 36,7 l. |



Hay feeder with or without bottom for round bales Ø160 cm.

Made of HDPE, resistant to rot and UV light.

Perfectly fits around the bale for **optimum protection of the hay and less spilling.**

Lightweight and convenient, this hay feeder can easily be moved by hand.

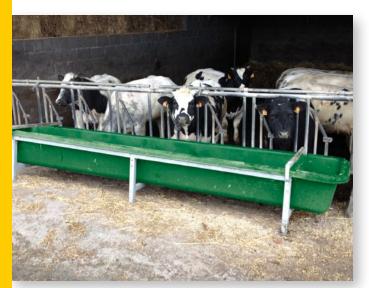


- Seamless HDPE, UV rays proof, lightweight, sturdy and maintenance-free
- 2 4 openings of 80x34 cm, protected against run-off by means of gutters
- 3 Bottom edge of 40 cm high to reduce spilling
- 4 anchor points
- 5 Hoisting eye

Dimensions: Ø180 x 150 cm. Bottom end sold separately.

| REF. DESI | | DESIGNATION |
|-----------|------|--|
| | D230 | Haybell made of HDPE for round bales $\emptyset 160$ cm (5.1/4 ft) |
| | D229 | Bottom for haybell |

MONOBLOC POLYCHOC™ POLYETHYLENE **TROUGHS**



MONOBLOC PREMIUM TROUGHS

Feed troughs for cattle kept indoor and outdoor.

Monobloc tub made of 100 % pure polyethylene resistant to the pH-acid value of the silage.

Our HDPE tubs come with a guarantee of 8 years against all manufacturing defects.











WARRANTY FOR TROUGHS

The LA BUVETTE height-adjustable troughs made of resistant and durable seamless high-density polyethylene come with a warranty of 5 or 8 years depending on the model.

- The seamless feed troughs are not guaranteed against damage caused by improper handling, incorrect installation (on not levelled or uneven terrain) or inappropriate use, other than for feeding livestock. A PREMIUM seamless feed trough that is used for watering must be equipped with the D227 fill set (see OUR ADVICE). Damage caused by licking or nibbling is excluded from
- The galvanised steel elements come with a standard one year guarantee.

Warranty claims for a tub shall be sent to your LA BUVETTE dealer accompanied with your purchase invoice and photos of the damaged tub and in particular of its date stamp (idem PREBAC, p. 52).

Should your claim be accepted, your dealer will give you a voucher for its original cost minus depreciation (-12,5% per year).

- 🚺 High density polyethylene trough, treated against UV rays, with 8-year guarantee for all manufacturing defects. Acid resistant and easy to maintain.
- Galvanised frame (50x50 mm tube) with 3 supporting profiles per 1.5 m. Easily and quickly mounted.
- Anti-fall bar with hoisting eyes.
- Running clearance between trough and frame for the thermal expansion.
- Supporting profil under the tub.
- Bolted adjustable feet included.
- Ø30 mm draining without tool. No nooks and crannies.

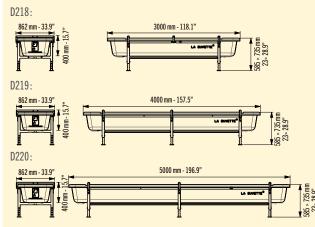
| REF. | DESIGNATION | |
|------|-----------------------------------|--|
| D218 | Length 3 m - Capacity 620 litres | |
| D219 | Length 4 m - Capacity 845 litres | |
| D220 | Length 5 m - Capacity 1070 litres | |







DIMENSIONS



+ ACCESSORIES

REF. DESIGNATION

D227 Set for conversion to drinking trough



OUR ADVICE



It is then imperative to use a set for conversion to drinking trough ref. D227.

SKEEDING **EQUIPMENT**

MODULAR POLYCHOC™ POLYETHYLENE TROUGHS



MODULAR TROUGHS

Modular feed troughs for cattle kept indoor or outdoor.

 $\label{eq:monobloc} \begin{tabular}{ll} \textbf{Monobloc tub made of 100 \% pure polyethylene} \\ \textbf{resistant to the pH-acid value of the silage}. \\ \end{tabular}$

Our HDPE tubs come with a guarantee of 8 years against all manufacturing defects.

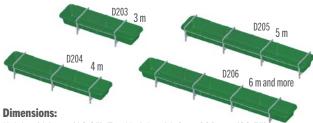
Hot dip galvanised steel structures for bolting troughs of 3, 4, 5, 6, 7, 8 m...





- 2 Hot dip galvanised steel structures:
 - Support frame made of 50x50 mm tubes with anti-fall bar,
 - Lower and side profiles (1,50 m long),
 - Bolted feet with adjustable height.

Running clearance between trough and frame for the thermal expansion.



Height: 414 mm (16.3"). Total height with feet: 600 mm (23.5") Totale width including anti-fall bar: 880 mm (34.5") Capacity: 360 l/m (23.75 USG/ft).

| REF. | DESIGNATION | |
|------|---|--|
| D203 | Complete 3 m trough with 2 anti-fall bar and 4 feet | |
| D204 | Complete 4 m trough with 3 anti-fall bar and 6 feet | |
| D205 | Complete 5 m trough with 4 anti-fall bar and 8 feet | |
| D206 | Complete 6 m trough with 4 anti-fall bar and 8 feet | |
| | | |



8 YEARS GUARANTEE

- The LA BUVETTE modular troughs come with a guarantee of 8
 years against all manufacturing defects. They are not guaranteed
 against damage caused by improper handling, incorrect
 installation (on not levelled or uneven terrain) or inappropriate
 use, other than for feeding livestock.
- The galvanised steel elements come with a standard one year guarantee.

Warranty claims for a tub shall be sent to your LA BUVETTE dealer accompanied with your purchase invoice and photos of the damaged item and in particular of its date stamp (idem PREBAC, p. 52)

Should your claim be accepted, your dealer will give you a voucher for its original cost minus depreciation (-12,5% per year).



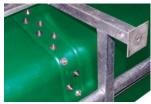
TUBS

HDPE pieces of tub without metal frame: Troughs to be embedded in concrete.



| REF. | DESIGNATION | |
|------|---|--|
| D210 | Male end piece 1,5 m (59") + bolts for PE + 2 drain plugs | |
| D211 | Female end piece 1,50 m (59") | |
| D212 | D212 Extension of 1 m (39.4") | |
| D213 | 213 Extension of 2 m (79") | |
| | | |

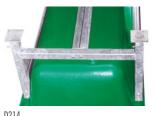
METAL FRAME



Bolts for PE.



D202



| 9 | |
|------|--|
| | |
| D216 | |
| | |

| DZ14 | DZIO |
|------|--|
| REF. | DESIGNATION |
| D202 | 3 Supporting profiles of 1,5 m (59") + bolts for PE |
| D214 | Transverse support + 2 feet + 1 Anti-fall bar + bolts |
| D215 | 3 Supporting profiles of 1 m (39.4") + bolts for PE |
| D216 | Additional anti-fall bar + bolts (easy mounting on transverse support) |

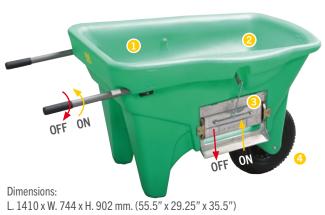
FEED CARTS AND FEEDER WHEELBARROW



FEEDER WHEELBARROW

Wheelbarrow 100 litres for feed distribution with adjustable flow rate. Suitable for pellets, flour, oil cake...

The simple design of the wheelbarrow makes cleaning and maintenance easy.









- Sturdy double-walled wheelbarrow with tub and frame madeof one piece high density polyethylene.
- 2 Capacity 100 litres (26,5 USG). The scale is indicated on the tub wall in front of the operator. The slope angle of the tub in forward moving position is never less than 30° ensuring smooth feed discharge (pellets, flour, oil cake...). No remains in the tub after use.
- 3 The large opening (300 mm (11.75") wide and 88 mm (3.5") high in the bottom of the tub is locked by a distribution slide operated with the right handle of the wheelbarrow. The operator can choose between 3 distribution speeds. Distribution height: 34 cm (13.25").

 Distance slide/wheel = 28 cm (11").
- 4 Wheel on pneumatic tyre Ø 400 mm (15.75") and bearing.

| REF. | DESIGNATION |
|------|-----------------------------------|
| D185 | Wheelbarrow for feed distribution |

FEED BARROWS

Ergonomic 140 and 340 litres carts with integrated handles

These carts are most convenient for indoor as well as outdoor use.

These carts pass through 60 cm wide doors (80 cm for the big one) and small steps can be bridged easily. Even in 80 cm wide passageways, they can easily be turned around on their own axle. They pass under a feed chute of 1 m.



- Sturdy and durable: high density polyethylene tub with seamed double-walled edge on a metal frame.
- Well-balanced and easy to handle: Ø 400 mm wheels with pneumatic tyres and ball bearings for comfortable handling.
- 3 Two caster wheels for smooth handling.
- 4 Heightened version (+15 cm) to reach the bottom of the tub more easily, with pneumatic tyres on pivoting wheels for more comfort and stability on rough terrain

Optional HDPE partition and cover (see accessories).

| REF. | DESIGNATION |
|------|--|
| D181 | 140 litres barrow - L. 768 x W. 560 x H. 912 mm (L. 30" x W. 22" x H. 36") |
| D180 | 140 litres elevated barrow with pivoting wheels on pneumatic tyres L. $768x$ W. $560x$ H. 1062 mm (L. $30"x$ W. $22"x$ H. $42")$ |
| D182 | 340 litres barrow - L. 1200 x W. 750 x H. 912 mm (L. 47" x W. 29.5" x H. 36") |

ACCESSORIES







D171 D176 - D178 D177 - D179

| REF. | DESIGNATION | |
|------|---|--|
| D171 | Feed scoop in plastic. Calibration per 1/2 litre (0,13 USG) Max. capacity: 3 litres (0,79 USG) - L 265 x W 175 mm (L 10.5" x W 7") | |
| D176 | HDPE cover for 140 cart | |
| D177 | HDPE partition for 140 I cart with attaching angles | |
| D178 | HDPE cover for 340 I cart | |
| D179 | HDPE partition for 340 I cart with attaching angles | |



BREEDING

DUMPING WHEELBARROWS

330 L. WHEELBARROW

Tipping wheelbarrow of 330 litres designed to reduce fatigue.

When the wheelbarrow is being handled, the axle carries the entire load.

The HDPE tub is easily tipped all the way. Its pure lines guarantee easy filling and cleaning.









- High-density polyethylene tub with welded double-walled edge for sturdiness in all circumstances. Specific shape designed for easy filling.
- Sturdy galvanised steel tube frame. Very resistant and well balanced to reduce the load applied on the arms.
- 3 Can be tipped more than 90° (from the ground) for easy and complete emptying.
- 4 Stainless steel wear protection.
- 6 Bolted frame with handles.
- 6 Anti-wear strips.
- Safety lock to avoid accidental tipping.
- 8 Reinforced Ø400 mm pneumatic tyres, rims mounted on ball bearings.

Dimensions: L. 1746 x W. 830 x H. 857 mm (L. 68" x W. 32" x H. 34")

DESIGNATION

D186 330 litres (87 USG) dumping wheelbarrow









600 L. WHEELBARROW

Tipping wheelbarrow of 600 litres designed to reduce fatigue.

Larger volume for less trips!

Same specifications as the 330 I model.



DESIGNATION REF.

600 litres(158 USG) dumping wheelbarrow D187

DID YOU KNOW?

Advantages of our reinforced plastic rims:

- Very sturdy and durable: Our synthetic rims are rustproof and can be washed with a highpressure jet.
- . No puncture caused by wear and tear: Over time, metal rims can rust. The sharp rust particles appearing between the rim and the tyre can cause punctures.
- The rims match reinforced tyres of Ø 400 mm with inner tube and run on ball bearings for maximum handling comfort.











BALE TROLLEY AND 4-WHEELED CART





Perfect to transport voluminous loads.

Sturdy construction for a long service life. Very functional for daily use.









- 1 Hot dip galvanised steel frame. Large diameter main tubes: (Ø 34 mm). Very resistant and well balanced to reduce the load applied on the arms.
- Anti-wear strips.
- "Grip" handles.
- Reinforced Ø400 mm pneumatic tyres, rims mounted on ball bearings.

Dimensions:

Overall: L 1,68 x I 0,86 x H 0,86 m (66.14" x 33.86" x 33.86")

Bottom: L 0,82 x I 0,86 m (32.28" x 33.86") Back: L 0,48 x I 0,86 m (18.90" x 33.86")

| REE | DESIGNATION |
|-----|-------------|

D188 Bale trolley delivered fully assembled

4-WHEELED CART

Sturdy cart with hot-dip galvanised steel frame and non-slip bakelitecovered plywood floor.









- 1 Designed to support the weight of a high density bale.
- 2 Sprung drawbar, 1,25 m from the ground.
- 3 Directional axle without stop.
- 4 reinforced Ø400 mm pneumatic tyres, rims mounted on ball bearings.
- Side pieces of thick tube, to be installed at the centre or side by side in horizontal or vertical position (optional).

Dimensions:

- Floor: L. 240 x W. 98 x H. 49,5 cm (94.5" x 38.6" x 19.5")
- Cart: L. 275 x W. 98 x H. 125 cm (108.3" x 38.6" x 49.2").

REF. DESIGNATION

D183 4-Wheeled Cart, naked (without side piece)

+ ACCESSORIES

The A793 side pieces can be installed horizontally to increase the length of the platform.

One or two side pieces can be placed at the front or the back.









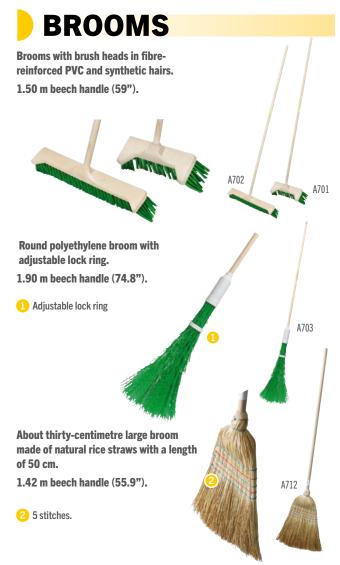
REF. DESIGNATION

A793 Set of 2 U-shaped side pieces

A794 Drawbar coupling for compact tractor. Max speed: 4 km/h



STABLE TOOLS



| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| A701 | Broom with brush head, 32 cm (12.6") | Per box of 6 |
| A702 | Broom with brush head, 55 cm (21.7") | Per box of 6 |
| A703 | Round broom $-$ 1,90 m long (74.8") | Per box of 6 |
| A712 | Rice Straw Broom – 1,42 m long (55.9") | Per box of 10 |



Grain shovel -1,70 m long (67")

A704





| REF. | DESIGNATION | PACKAGING |
|------|------------------------------|--------------|
| A705 | Clearing shovel, 53 cm (21") | Per box of 6 |
| A706 | Clearing shovel, 66 cm (26") | Per box of 6 |



Combination set of droppings shovel & rake - 0,90 m long (43.3")

Per bag of 5

A709

Per box of 6

FOOTBATHS IN POLYETHYLENE

MANURE-FREE FOOTBATH

Sturdy and deep seamless HDPE tray to optimize the prevention and treatment of hoof problems.

The length of 1.60 m is specially adapted to the gait of cattle to assure optimal dipping of the 4 hooves.

With a width of only 85 cm, it can be installed in all return aisles. This footbath is suitable for treatments with liquids and powder.



- Large openings in the middle for good evacuation of the manure while preventing the legs from crossing
- Rounded top edge to systematically send the feet back into the tray.
- 3 The separation in the middle forces the cow to put its foot down from the first tray. The tray also breaks the waves to prevent spilling.
- 4 Anti-slip bottom opening the hooves.



- -80 litres (21 USG) with a filling height of 13 cm (5.1").
- 100 litres (26.4 USG) with a filling height of 15 cm (5.9").

REF. **DESIGNATION**

Manure-free footbath 160 for cattle. Max. capacity: 120 L (31.7 USG)



PAIRING SET

Sturdy and effective system to attach a manure-free footbath for cattle to a footbath for cattle, a manure-free footbath or CLEANFOOT in order to rinse the hooves before treatment or to double the number of dippings.

Made of stainless steel.





REF. DESIGNATION

Pairing set for D107 footbath A207



OUR ADVICE

Place two manure-free footbaths in a row to wash the hooves with clear water,



followed by dipping in product or to obtain two dippings of each hoof in product.

FOOTBATH

Footbath for disinfection of boots.

Antiskid bottom.



REF.

D105 Footbath for disinfection of boots.



LA BUVETTE® footbaths in high density polyethylene.

Antiskid bottom. The large ribs on the base open the hooves enough to penetrate them well with the treatment product.



| REF. | DESIGNATION |
|------|---|
| D101 | For cattle - L. 200 x W. 85 x H. 16 cm (78.7 x 33.5 x 6.3") |
| D102 | For cattle - L. 300 x W. 100 x H. 18 cm (118 x 39.4 x 7") |

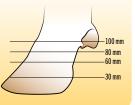
For sheep and goats - L. 300 x W. 47 x H. 18 cm (118 x 19×7 ")



D106

DID YOU KNOW?

For optimal treatment, a cow hoof must be dipped in at least 12 cm (even during the last passages). Depending on the product, it is recommended to prepare between 0.80 and 1.00 litre of solution per cow and per passage.



TREATMENT THROUGH DRINKING WATER

QUAMIX

AQUAMIX

Accurate and reliable dosing pump to complement the drinking water in the livestock buildings for cattle.

With its new engine, AQUAMIX is ideal for medication and supplements that require a high flow rate: minerals, trace elements, vitamins, liver protectors...

It can handle treatment products, but it is not suitable for corrosive disinfectants (in particular chlorine and hydrogen peroxide).

Safety: The product dose is always based on the flow rate of the water supply.

No electricity required

(fluid driven).

- Patented mixing system for the water and medication: the product never comes into contact with the motor.
- New engine for higher flow rate and maximum increased working pressure.
- The dose is adjusted in a simple and easy manner.

Flow: from 0,06 m³/h to 4,5 m³/h Working pressure: from 0,3 to 6,9 bar

Fitting 1" (26x34) MM.

REF. DESIGNATION

1502 AQUAMIX Dosing pump - doses of 0,3 to 2,5%



ACCESSORIES





REF. **DESIGNATION**

A160 BY-PASS set for Aquamix. Check valve included.

VisiFilter VF6 - 100 micron, 6m3/h - OBLIGATORY ahead of the dosing A446 pump - 1" (26x34) connection

AQUABLEND

Accurate and reliable dosing pump to complement the drinking water, especially at a low flow rate.

AQUABLEND is designed for non-aggressive medicinal treatments, liquid minerals, trace elements, vitamins, ...

It is ideal for dosing diluted powders and liquid products in the pigsty, the sheep pen and the poultry

Safety: The product dose is always based on the flow rate of the water supply.

No electricity required (fluid driven).

- Powerful even at a low flow rate.
- Easy maintenance, no tools needed.
- The dose is adjusted in a simple and easy manner.

Flow: from 0.01 m³/h to 2.5 m³/h Working pressure: from 0,3 to 6,2 bar

Fitting 3/4" (20x27) MM.

Maintenance sets available: see exploded views of spare parts on www.labuvette.com

REF. **DESIGNATION**

AQUABLEND Dosing pump - doses of 0,2 to 2%

AQUABLEND XTREME

Accurate and reliable dosing pump for treatments and disinfection, especially at a low flow rate.

The very resistant AQUABLEND XTREME is specially designed for very corrosive treatments.

a

It is ideal for acidification and chlorination, for the hygiene of the milking machines and to clean the water lines and installations.

Safety: The product dose is always based on the flow rate of the water supply.

No electricity required (fluid driven).

- Casing made of very resistant PVDF, insensitive to strong acids, hydrogen peroxide and chlorine.
- Easy maintenance, no tools needed.
- 3 The dose is adjusted in a simple and easy manner.

Flow: from **0,01** m³/h to **2,5** m³/h Working pressure: from 0,3 to 6,2 bar

Fitting 3/4" (20x27) MM.

REF. DESIGNATION

1505 AQUABLEND XTREME Dosing pump - doses of 0,2 to 2%



DID YOU KNOW?

It is mandatory to mount a filter of maximum 100 microns (ref. A446) at the beginning of your installation as well as a 3/4" check valve (ref. 1430203).







ADVICE FROM LA BUVETTE® ON WATERING SOLUTIONS FOR SHEEP AND GOATS



DRINKING BEHAVIOUR OF NURSING GOATS AND EWES INDOORS

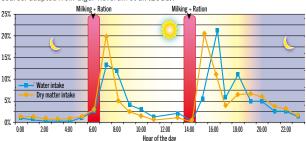
- Drinking frequency/day: 5 to 20
- Volume per drinking time: 0,4 to 0,7 l
- Time spent drinking/day: 1 to 2 minutes
- Single drinking time: approximately 15 to 20 seconds
- Intake speed: 1,5 to 3,5 l/minute

Factors affecting the drinking behaviour

- The hierarchy within the heard since dominant animals take possession of the water points.
- Insufficient number of drinkers reduces the drinking time and frequency, and causes queueing phenomena at the drinker.
 Which has of course a negative impact on the performance.

PERCENTAGE OF WATER AND FOOD INTAKE PER HOUR

Source: adapted from Giger-Reverdin et al. (2011).



The water intake happens primarily during the day: more than 80 % of the volume is taken in between 7 a.m. and 7 p.m.

The night activity is very low: less than $1\,\%$ of the daily volume is taken in between $2\,$ a.m. and $4\,$ a.m.

Peaks occur during the distribution of the ration and at the exit of the milking parlour.

AVERAGE DAILY WATER CONSUMPTION

NURSING EWES ON PASTURE Ewe with lamb Summer: 3,5 to 9 l/d Dry ewe Spring: 0,1 to 1,5 l/d; Summer: 1,5 to 5 l/d

Variables determining the water consumption on pasture

- Temperature
- Rainfall (low water consumption during rainy days)
- Dry matter content of green fodder
- · Live weight of the animal

| LACTATING EWES AND GOATS | |
|--------------------------|-------------|
| LACIATING EWES AND GUATS | |
| Lactating ewe | 5 to 10 I/d |
| Dry ewe | 2 to 5 I/d |
| Lactating goat | 4 to 8 l/d |
| Dry goat | 2 to 3 l/d |

Variables determining the water consumption indoors

• Dry matter intake:

Ewes = 1.8 to 2.5 l of water per kg of DMI Goats = 1.7 to 2.6 l of water per kg of DMI

• Milk Production:

Ewes = 3.5 to 4.5 l of water per kg of milk Goats = 1.3 to 2.2 l of water per kg of milk

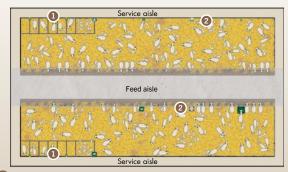
- Dry-matter content of the ration
- Climatic conditions (temperature and relative humidity)
- · Live weight of the animal
- Stage of gestation (intake increases towards the end of the gestation)
- Number of foetus (intake increases with the number of foetus)
- Intake of NaCl



HOW TO DETERMINE THE BEST LOCATION FOR INDOOR DRINKERS?

The location of the water points depends on the surface area of the building, its lay-out, the type and size of the herd. The diagrams below present some examples. Please contact LA BUVETTE® for personal advice.

SHEEP BARN - 150 PLACES FOR NURSING EWES



- Drinker between two lambing pens or lamb parks:
- BABYLAB drinkers with push tube or LAC5 or LAC55 single or double drinking bowls with constant water level.

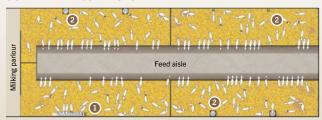
 Drinkers visible from the feed alley or the service alley.
 In a 5 m wide straw area, you should install the drinkers at a distance of approximately 5 m.
 - Without frost protection: BABYLAB, BABYLAC, LAC 5, NORMANDY
 - Frost protection by circulation: BABYLAB T (+ pompe SPEED-FLOW)
 - Drinkers with heating system: NORMANDY, LAKCHO 2

Choose a drinker that is suitable for the risk of freezing:

 \bullet Isothermal drinkers (without electricity): THERMOLAC B

Details on the next pages.

GOAT BARN - 150 PLACES



Drinkers with the back side to the feed alley.In general, install the drinkers with the back to the feed alley to keep them clean for a longer time. Space them sufficiently far apart to minimise the impact of dominant animals.
Caution: only use metal drinkers (cast iron, galvanised steel, stainless steel).

- Drinker at the exit of the milking parlour: OVICAP or OVITUBE Give preference to a large drinking trough with a decent flow rate to allow a large number of goats to drink at the same time. Water that is too cold in the winter will lower the milk production. Therefore, it is recommended to use a water heating set for OVICAP.
- 2 Single access: BABYLAB; or heated drinker: BIGCHO 2
 The cast iron BABYLAB drinkers with push tube are ideal for goats.
 It is also recommended to use a heating system:
 - Drinkers in a circulation system: BABYLAB T (+ SPEED-FLOW pump + THERMOFLOW heater)
 - Drinkers equipped with a heating system of 80W: BIGCHO 2

Details on the next pages

CLASSICAL DRINKING BOWLS

BABYLAC

Small cast-iron bowl with constant level, ideal for 10 to 15 goats or sheep from a very early age on.



L. $26 \times W$. $25 \times H$. $17 \text{ cm} (10.2" \times 9.8" \times 6.7")$ Capacity: 2,5 litres.

NEW: 34" or 1/2" M water supply from right or left. More information **page 11**.

| REF. | DESIGNATION | PACKAGING |
|------|--|-------------|
| 2015 | Cast iron with Polycoat drinking bowl with float valve | Plastic bag |

LAC 5(A)/ 55

Single or double cast iron drinking bowl with constant water level.



- Drain plug without tool
- 2 Float valve protected by a stainless steel cover

Capacity: 5 and 8 litres. Connection on horizontal $\frac{3}{4}$ " tube. Can be connected on vertical $\frac{1}{2}$ " tube from bottom with accessories (see page 102).





| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 1627 | Cast iron bowl with Polycoat. Constant water level. | Plastic bag |
| 1622 | Same as 1627 | Carton apiece |
| 1615 | Same as 1627 with non-spill edge | Plastic bag |
| 1628 | Cast iron double bowl with Polycoat. Constant water level. | Plastic bag |
| 1620 | Same as 1628 | Carton apiece |

LAC 10 (SYNTHETIC BOWL)

Synthetic drinking bowl with float valve. Not suitable for goats. Large Capacity: 5.5 litres. Adjustable water level. 4 oblong fixing points. Connection ½" (15x21) from bottom.

| 3 | |
|---|-----------|
| 8 l/mn. at 3 bar | |
| 1 Stainless steel valve cover. | (1) |
| 2 Synthetic material, strong and rigid. | (3) |
| 3 Drain plug without tool. | |
| DEE DECICNATION | DACKACING |

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 3259 | Synthetic bowl with constant water level | 6 per carton |
| 3279 | Same as 3259 | Carton apiece |

BABYLAB™

Educational cast iron bowl designed for the «little snouts».

A small amount of remaining water below the valve stimulates the animals to push the tube.

A pressure of 300 g on the push tube is enough to open the valve.

Connection ½" (15x21) above.

1 Smooth tube valve, very easy to push.

2 Small water reserve for educational purposes

| REF. | DESIGNATION | PACKAGING |
|------|--|--------------|
| 2014 | Cast iron with Polycoat - Brass ½" valve | 2 per carton |
| 2012 | Enamelled cast iron - Brass ½" valve | 2 per carton |

Same as BABYLAB™ with ¾" T-fitting.



- ① Connection to loop possible with T ¾" (20 x 27 mm)
- 2 4 fixing points

| REF. | DESIGNATION | PACKAGING |
|------|---|-------------|
| 2019 | Cast iron with Polycoat - Brass ¾" valve with T | Plastic bag |



| A308 | Mounting rail to adjust drinking bowl height (see page 107) |
|------|--|
| A309 | Complete connection set for LAC5/55 or BABYLAC mounted on A308 |
| A324 | Mounting bracket for drinker(s) on fence (see page 107) |

LARGE STAINLESS-STEEL DRINKING **TROUGHS**

OVITUBE

Large stainless-steel drinking trough with float valve. **120 cm long:** Ideal for **25 to 35 sheep/goats.** (47.2") 210 cm long: Ideal for 35 to 65 sheep/goats. (82.7")











- Compact stainless-steel trough with rounded shape, without protruding edges.
- Large water access: 82 x 13,5 cm / 170 x 13,5 cm (OVITUBE 120 / 210) Adjustable reserve from 6 to 12 L (OVITUBE 120), 11 to 22 L (OVITUBE 210).
- S Float valve protected by stainless-steel cover. Easily adjustable water level. Water inlet 1/2" (15x21 mm) male from the right.
- Large "Vide-Vite" drain, 95 x 50 mm, left side.
- Optional heating element 80W/24V ref. A413 (See Accessories).

Fastening by means of minimum 4 fixing points. 6 anchor points. Mounting on wall, fence or height-adjustable mounting bracket, ref. A308 (see accessories).

| RFF | DESI | GN | ATI | O N |
|-----|------|----|-----|-----|

2417 OVITUBE 120 Stainless steel drinker 9 L

2418 OVITUBE 210 Stainless steel drinker 16 L



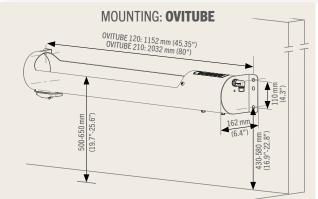
OUR ADVICE

During the installation of an OVITUBE, take into account a slight slope by fixing the waterer at the side of the drain 1 cm lower than at the valve side. This allows for the waterer to be emptied even more quickly and cleaned more easily.



Set the water level at some 20 mm below the edge. This results in a water reserve of 9 litres with an OVITUBE 120 and 16 litres with an OVITUBE 210.





VIDEO: www.labuvette.fr/communication/medias/videos-la-buvette







| REF. | DESIGNATION |
|------|-------------|

| A308 | Mounting rail to adjust drinking bowl height (see page 107) |
|-------|---|
| 71000 | Two A308 mounting brackets are needed for 1 OVITUBE |

A309 Complete connection set for OVITUBE mounted on A308

A317 Mounting brackets for fence

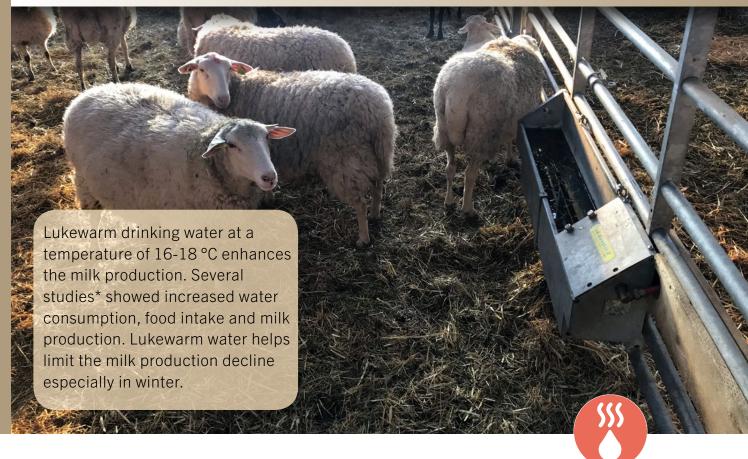
A324 Back-to-back mounting bracket (on fence) (2 A324 needed for 1 up 2 OVITUBE)

A413 Frost-free set 80W/24V

C162 Heating cable 24 V / 22 W - Length: 3 m, to protect water supply

A504 Transformator 230V/24V 100VA

ENHANCE THE MILK PRODUCTION WITH LUKEWARM WATER



LUKEWARM WATER SOLUTIONS

MULTIPLE ACCESS DRINKERS:
OVICAP AND HEATING ELEMENTS





In cold conditions, usually a decrease in water consumption is observed with cattle when the temperature of their drinking water drops below 10 °C

Our powerful low-voltage elements of the heating sets for OVICAP drinking troughs allow you to offer a water volume of 27 to 54 litres of lukewarm water depending on the model.

The built-in thermostat secures their functioning. It is equipped with an immersed probe into the trough. The set is only in heating mode when the target temperature is not reached. This is set by the user. We recommend a setting at 15° C.

*Sources: Pfundheller (2000), Wilks (1990), Anderson (1984), CIAL des Ardennes (1979/80), Himmei (1964), Kellner (1916)

Wide and comfortable, the LAKCHO2 "warm water" drinker with constant level is ideal between two groups of ewes. It can easily be installed on a polyethylene or concrete stand.

Its powerful heating element is also controlled by an adjustable thermostat with immersed probe. Its bowl of double-walled HDPE (not recommended for goats) keeps the water lukewarm for longer than a metal bowl. This way, the offered reserve of 5,5 litres is always very close to the target temperature.

Here, we also recommend a setting at 15°C.

Our low-voltage (24V) heating elements require a transformer, sold separately (see p. 96).



LARGE STAINLESS-STEEL OR GALVANISED **DRINKING TROUGHS**

OVICAP INOX / STD

Large stainless-steel or galvanised drinking trough with float valve.

120 cm long: Ideal for **25 to 40 sheep/goats.** (47.2") **240 cm long:** Ideal for **50 to 80 sheep/goats.** (94.5")



- Trough and cover all made of stainless or galvanised steel depending on the model. Non-spill edge.
- **Very large water access: :** 88,5x 14,5 cm / 208,5 x 14,5 cm (OVICAP 120 / 240) Adjustable reserve from 17 to 27 L (OVICAP 120), 34 to 54 L (OVICAP 240).
- Cover and valve can be reversed from right to left., high flow rate.
- Large "Vide-Vite" drain, 95 x 50 mm, left side.
- Optional ANTI-STRAW covers and heating elements "WARM WATER" (see

Mounting on wall, 3 fixing points.

| REF. | DESIGNATION |
|------|--|
| 2421 | OVICAP INOX 120 cm stainless steel drinker 21 L. |
| 2422 | OVICAP INOX 240 cm stainless steel drinker 42 L |
| 2419 | Same as 2421 made of galvanised steel |
| 2420 | Same as 2422 made of galvanised steel |



| REF. | DESIGNATION |
|------|---------------------------------|
| A302 | ANTI-STRAW cover for OVICAP 120 |
| A303 | ANTI-STRAW cover for OVICAP 240 |

OUR ADVICE



Only stainless-steel watering systems resist durably to acidic or (with peroxide, CO2, etc.) treated water. Therefore, prefer the INOX versions of the OVICAP or OVITUBE (p. 89) over the "standard" galvanised OVICAP drinking troughs.



HEATING SET

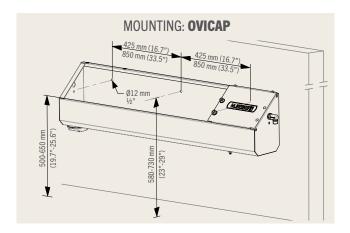




Galvanised steel cover with drawer system for easy access to the thermostat.

Transformer 230/24 V is required delivered separately (see p. 96).

| EF. | DESIGNATION |
|-------------|---|
| \409 | Water heating set 180W/24V for OVICAP 120 |
| 410 | Water heating set 360W/24V for OVICAP 240 |



VIDEO: www.labuvette.fr/communication/medias/videos-la-buvette









FROST-FREE WATERERS AND FROST PROTECTION SYSTEMS



LAKCHO 2 WARM WATER

Large polyethylene bowl with constant water level. It supplies tepid water (auto-regulate temperature). Heating element 24 V-180 W,

internal thermostat. Ideal for 15 dairy ewes.



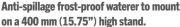


Transformer 230/24 V required, delivered separately.

DESIGNATION REF.

Bowl with constant water level and heating element 24 V - 180 W with internal thermostat (to supply lukewarm water)

BIGCHO 2 24V/50W or 80W



Large stainless steel bowl with constant water level and drain plug. Non-spill metal edge.

24 V - 50 or 80 W heating element. More information on page 27.

Transformer 230/24 V required, delivered separately.



Stainless steel valve cover and anti-nibbling edge.

NORMANDY

Compact HDPE drinker with constant level. Top or bottom connection to the water supply

line: Connection made easy by means of pre-

installed 3/4" (20x27) stainless steel braided hose. Large bowl, quick and easy to clean.

- Large access door for water connection and installation of anti-freeze power set.
- Oraining without tools.

Transformer 230/24 V required, delivered separately.

| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 1717 | NORMANDY with float valve | Carton apiece |
| A396 | Anti-freeze power set of 80 W/24 V to protect the bowl and valve. | |

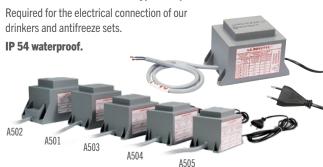
REF. DESIGNATION

1639 Stainless steel non-spill bowl, constant water level, with heating element 24 V - 50 W

1839 Same as 1639 with heating element 24 V - 80 W (northern countries)

+ TRANSFORMERS

Transformers (230/24 V) shell-type. European norm EN 60.742.



| REF. | DESIGNATION |
|------|-------------|
| 111 | DESIGNATION |

A505 Transformer 50 VA for 1 LAKCHO 50 W or of equal value

A504 Transformer 100 VA for 2 LAKCHO 50 W or 1 ISOBAC 100 W or of equal to 100 W

A503 Transformer 200 VA for 4 LAKCHO 50 W or 2 ISOBAC 100 W or of equal to 200 W

A501 Transformer 300 VA for 6 LAKCHO 50 W or 3 ISOBAC 100 W or of equal to 300 W

A502 Transformer 400 VA for 8 LAKCHO 50 W or 4 ISOBAC 100 W or of equal to 400 W

+ HDPE-STAND

Foam-insulated PE Stand with a hole for drain hose. (Plug included).

H 400 mm:

For sheeps, goats, calves, ponies...



REF. DESIGNATION

Height 400 mmto be fixed to the floor; Especially designed for little A570 animals: calves, sheeps, goats, ponies...



DID YOU KNOW?

The lukewarm water (15 °C) that is very much appreciated by goats and ewes during cold periods, limits the decrease of milk production in winter.





FROST-FREE WATERERS AND FROST PROTECTION SYSTEMS

SPEED-FLOW



High-power pump (230 V/550 W)

for circulation system with high flow rate.

More information on page 20.



| 1669 | Frost-free powerful nump with high flow rate - 230 V / 550 W | Carton aniece |
|------|--|---------------|
| REF. | DESIGNATION | PACKAGING |
| | | |

THERMOFLOW



Stand-alone heater of 1500 W for water pipes in a loop system. Compatible with all types of circulation pumps.

Activated by the water temperature. More information on page 21.



| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| A301 | Additional programmable 1500 W heater 230 V singlephase - Connection 1"1/2 | Carton apiece |

HEATING CABLE FOR WATER SUPPLY 24V/22W



Heating wire of 24 V / 22 W with a length of 3 m, especially designed for drinking bowl water supply. Aluminium tape included.

Connected in a loop to a transformer 230/24 V (not included, see page p. 96).





| REF. | DESIGNATION |
|------|-------------|
| | |

C162 Heating cable 24 V / 22 W - Length: 3 m, to protect water supply



HEATING WIRE & CABLES









To keep water pipes frost-free. More information on pages 22-23.

| REF. | DESIGNATION | PACKAGING |
|------|-----------------------------------|-----------|
| C140 | Heating cable 230 V - Length 2 m | Blister |
| C141 | Heating cable 230 V - Length 4 m | Blister |
| C142 | Heating cable 230 V - Length 8 m | Blister |
| C143 | Heating cable 230 V - Length 12 m | Blister |
| C144 | Heating cable 230 V - Length 14 m | Blister |
| C145 | Heating cable 230 V - Length 18 m | Blister |
| C146 | Heating cable 230 V - Length 24 m | Blister |
| C147 | Heating cable 230 V - Length 36 m | Blister |
| C148 | Heating cable 230 V - Length 48 m | Blister |

THERMOLAC™ 40B & 75B



Frost-free waterer without electricity, with removable metal dish. Clean water everyday even down to -15 °C (5°F).

More information on page 47.





- Insulated double walled HDPE
- The dish is removed with ¼ turn.
- Ø100 mm (4") draining.

| | 1/2 |
|---|-----|
| 1 | 7 |
| | |

| REF. | DESIGNATION |
|------|-------------|
| | |

Frost-free non-electric 40 L waterer with 1 dish, float valve for standard pressure 1677

1676 Frost-free non-electric 75 L waterer with 2 dishes, float valve for standard pressure

LARGE POLYETHYLENE **DRINKING TROUGHS**



PREBAC 90L Special type for sheep, capacity 90 litres. Low water level. Antiskid bottom. 8 I/mn. at 3 bar

Included float-valve with cover. Suitable for 50 sheep.

For floor mounting: 4 anchor points.

DESIGNATION REF.

Polychoc 90 I. trough - L. 160 x W. 48 x H. 46 cm -2253

Float-valve included - Connection 1/2" (15x21)

BIGLAC 55/90

Double access deep waterer in HDPE with float valve, 55 and 90 litres. High flow rate. Suitable for 40 and 60 sheep.



Galvanised frame for wall or fence mounting. Connection 3/4" (20x27 mm) from top or bottom. More information on page 10.

| REF. | DESIGNATION |
|------|--|
| 1652 | Double 55 litres waterer on polyethylene for standard pressure |
| 1655 | Double 90 litres waterer on polyethylene for standard pressure |

PREBAC 400L

Oval pasture trough made of HDPE Polychoc™ for watering sheep outdoors.

Suitable for watering up to 150 sheep.



Valve sold separately (Ref. A603 or A617), see page 52.

REF. DESIGNATION

2269 Polychoc 400 I. trough - L. 147 x I. 105 x H. 40 cm (L. 57.9" x W. 41.3" x H. 15.7")

PREBAC 200R

Rectangular floor-mounted troughs made of HDPE Polychoc™ for watering sheep both outdoors and indoors.

Suitable for 60 to 100 sheep.



Valve sold separately (Ref. A603 or A617), see page 52.

DESIGNATION REF.

Polychoc BS 200 I. R trough - L. 160 x W. 46 x H. 44 cm - L. 63" x W. 18.1" x H. 17.3"

PREBAC 70L

Double drinker with constant water level of 70 litres, made of HDPE Polychoc™ for watering 40 to 50 sheep outdoors and indoors





Float-valve with high flow rate or low pressure included.

2 Large rectangular quick discharge "VIDE-VITE".

3 2 anchor points for floor mouting or on concrete base.

DESIGNATION REF.

2219 Polychoc 70 I. trough - Standard pressure - Connection 3/4"

2217 Same as 2219 but for low pressure (<1bar-14.5psi)(blue) for supply by gravity

BREEDING EQUIPMENT

HDPE FEED TROUGHS

Troughs for sheep, floor mounted.

High quality product made of high density polyethylene, very sturdy and strong for a long service life, whatever the conditions of use are.



REF. DESIGNATION

D238 1 m HDPE feed trough - 16.6 L
D239 2 m HDPE feed trough - 36,7 l.

TROUGHS ON FEET



| RFF | DESIGNAT | ION |
|-----|----------|-----|

D235 Trough for small animals - Length 1,73 m
D236 Trough for small animals - Length 2,18 m

D237 Trough for small animals - Length 2,63 m

LICKSTONE HOLDER

Plastic version: L 240 x W 215 x H 210 mm (L 9.5" x W 8.5" x H 8.25")

 $\label{eq:Stainless-steel version (for 25 kg stone): L 265 x W 256 x H 200 mm \\ (L 10.4" x W 10" x H 7.9")$



REF. DESIGNATION

D170 Lickstone holder in plastic

D173 Stainless steel holder for mineral lick up to 25 kg (55 lbs)

CLEANFOOT



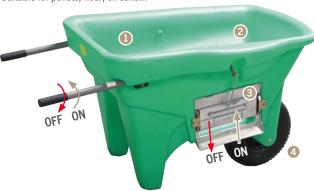
| REF. DESIGNATI | ON |
|----------------|----|
|----------------|----|

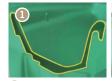
D106 For sheep and goats - L. 300 x W. 47 x H. 18 cm (118 x 19 x 7")



FEEDER WHEELBARROW

Wheelbarrow 100 litres for feed distribution with adjustable flow rate. Suitable for pellets, flour, oil cake...









- Sturdy double-walled wheelbarrow with tub and frame madeof one piece high density polyethylene.
- 2 Capacity 100 litres (26,5 USG). Scale indicated on the tub in front of the operator.
- The large opening (300 mm (11.75") wide and 88 mm (3.5") high in the bottom of the tub is locked by a distribution slide operated with the right handle of the wheelbarrow. Distribution height: 34 cm (13.25"). Distance slide/wheel = 28 cm (11").
- 4 Wheel on pneumatic tyre Ø 400 mm (15.75") and bearing.

REF. DESIGNATION

D185 Wheelbarrow for feed distribution

MEMBRANE VALVE

Valve to maintain a low constant water level in a bowl or group trough.

More information on page 99.

- 1 Membrane valve alone ref. 1820.
- 2 1.20 m (4 ft) SS tube ref. 1821 (Sold separately).
- 3 B15 stainless steel bowl ref. 4130403 (See Spare Parts catalogue).





REF. DESIGNATION

1820 Membrane valve (with fittings)

ADVICE FROM LA BUVETTE® ABOUT DRINKING SOLUTIONS FOR PIGS

The daily water consumption by pigs depends on their live weight, the quality of the food taken in, the composition of the ration and their physiological condition (lactation, diseases, stress, etc.). The welfare, health and growth of the pigs is strongly determined by the physicochemical quality of the water they have at their disposal, the bacteria it may contain, its taste and smell. The control of water spillage is the second issue when choosing and installing drinkers. Please contact us for personal advice.

HOW TO CHOOSE BETWEEN BOWL OR NIPPLE?

A pig naturally drinks by suction. As such, a bowl offers a more natural way of drinking, regardless of the age of the animal. Piglets take more food in when they drink from a bowl. Also during the weaning period, we observe less stereotypies (sucking other piglets, etc.) when they can drink from a bowl instead of a nipple. In addition, bowls offer much better spillage control. On the other hand, bowls are more easily soiled by manure or food.

This means that a nipple shouldn't exactly be banned. When the flow rate and installation height are properly adjusted, a nipple always provides clean water, but it holds a high risk of spillage.

INSTALLATION HEIGHT AND FLOW RATE

| PRODUCTION | TYPE OF DRINKER | HEIGHT WITHOUT STEP (CM) | FLOW RATE (L/MIN) | MAX NUMBER OF ANIMALS PER DRINKER |
|--------------|--------------------|--------------------------------|-------------------------|---|
| Suckling pig | Bowl Nipple | 5 - 8 20 | 0,5 0,5 | - |
| Weaning | Bowl | 12 - 15 | 0,5 - 1,0 | 18 |
| | Nipple | 30 | 0,5 - 1,0 | 10 |
| Fattening | Bowl | 20 - 25 | 0,8 - 1,0 | 18 |
| | Nipple | 50 | 0,5 - 0,8 | 10 |
| Breeding | Bowl | 30 - 35 | 3,0 | 10 |
| | Nipple | 70 | 1,5 | 5 |

LOCATION OF THE DRINKERS

- Avoid corners and sufficiently space out the water points (competition, aggression)
- Not right next to the feed trough (risk of crowding)
- Clearly visible from the alley for easy control and cleaning
- A slippery floor in a straw area reduces the drinking frequency and the water intake. Provide drainage to avoid soiling the litter.

HYGIENE

A presence of only 1,5 g of manure in 1 litre of water already affects the water intake and the growth. Besides the risk of diarrhoea, a decreased water intake affects the food intake and consequently also the weight gain, and it causes the build-up of body fat (thickness of backfat). In the lactating sow it increases the risk of constipation, mastitis, agalactia, metritis and urinary disorders

DRINKING BEHAVIOUR AND WATER NEEDS

- A piglet visits the drinker for the first time within the first 18 hours of its life.
- More than 80 visits to the nipple per day during weaning (stress).
- After weaning, 100% of the piglets visit the drinker at least once between 9 a.m. and 1 p.m. (important for treatments).
- During fattening, a pig drinks 30 times a day and spends 10 to 15 min/day at the drinker.
- The water intake occurs primarily during the daytime with consumption peaks around mid-morning and late in the afternoon.
- More than 75 % of the water intake is associated with the feed periods.

| PRODUCTION | DAILY WATER NEEDS |
|--|---|
| Suckling pig (< 28 days) | 0,2 - 0,4 litres |
| Nursery (early weaning; 5 to 8 kg) | 0,7 - 1 litre |
| Post weaning (8 to 25 kg) | 1 - 4 litres |
| Fattening: 25 to 50 kg 50 to 75 kg 75 to 110 kg | 4 - 6 litres 5 - 8 litres 7 - 10 litres |
| Sow at end of gestation | 10 - 15 litres |
| Lactating sow | 15 - 30 litres |

0R **PIGS**

STAINLESS STEEL DRINKING BOWLS FOR PIGS

PORCINOX: A LA BUVETTE® EXCLUSIVE - PATENT EP0970605; EP1175830



B8 PORCINOX

Stainless steel bowl for maternity. Centres: 70 mm - Ø 8 mm

The exclusive LA BUVETTE® PORCINOX bowls are made of nondeforming polished stainless steel and are available in different models adjusted to the pigs' age.







- The stainless steel valve is attached to the bowl by means of two stainless steel screws without welding, so they can be disassembled more easily from the back.
- 2 Automatic water shut-off to work on a drinker without shutting off the water supply line. When you unscrew the lower part of the valve, a ball automatically shuts off the water supply.

Stainless steel valve with ½" male gas connection. Adjustable flow rate.

2 to 4 oblong mounting holes allow you to make up for poor wall drilling. These drinking bowls have to be mounted to the wall using a stainless steel fixture (not included).

| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 1451 | Stainless steel drinking bowl for maternity. | Per box of 25 |
| 1452 | Same as 1451 for low pressure | Per box of 25 |



B10 PORCINOX

Stainless steel bowl for weaners. Centres: 70 mm - Ø 8 mm.



| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 1453 | Stainless steel drinking bowl for weaners | Per box of 10 |
| 1454 | Same as 1453 for low pressure | Per box of 10 |



B15 S PORCINOX

Stainless steel bowl for fatteners from 25 to 110 kg (55 to 250 lbs).

Centres: 80 mm - Ø 8 mm.



| REF. | DESIGNATION | PACKAGING |
|------|---|--------------|
| 1456 | Stainless steel bowl for fatteners from 25 to 110 kg (55 to 250 lbs). | Per box of 4 |
| 1457 | Same as 1456 for low pressure | Per box of 4 |



B15 L PORCINOX

Stainless steel bowl for fatteners up to 130 kg (300 lbs).

Reinforced stainless steel valve.

Centres: 80 mm - Ø 8 mm.



| REF. | DESIGNATION | PACKAGING |
|------|---|--------------|
| 1455 | Stainless steel bowl for fatteners up to 130 kg (300 lbs) | Per box of 4 |



For individual sows, groups, mixed maternity (sows, piglets) and boars.

Reinforced stainless steel valve.

4 fixing points Ø 10,5 mm. Centres: 88 mm and 103 mm.



| REF. | DESIGNATION | PACKAGING |
|------|---|-------------|
| 1458 | For individual sows, groups, mixed maternity (sows, piglets) and boars. | Plastic bag |

BALPI LIGHT

Synthetic drinking bowl for maternity.

½" male stainless steel valve. Centres: 85 mm - Ø 10 mm.

| Centres | : 85 mm - Ø 10 mm. | WWEITE |
|---------|---------------------------------------|--------------|
| REF. | DESIGNATION | PACKAGING |
| 1495 | Synthetic drinking bowl for maternity | Per box of 6 |

VIDEO: www.labuvette.fr/communication/medias/videos-la-buvette







MOISTENER AND DRINKING NIPPLES FOR PIGS



DYRECT

Stainless steel finger moistener.

Connection 3/8" (12x17) male. Flow rate adjustment in upper half.



| REF. | DESIGNATION | PACKAGING |
|------|---|---------------|
| 1827 | Mini. flow rate: 0,3 l/mn - Maxi: 3,5 l/mn. Fitting 3/8" (12x17) male. | Per box of 20 |



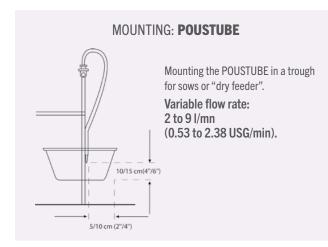
POUSTUBE

Stainless steel finger moistener with female or male ½" fitting.
Flow rate adjustment in upper half.

- Its specific design avoids injuries.
- Never jams: the mechanism is protected from the animals.



| REF. | DESIGNATION | PACKAGING |
|------|--|---------------|
| 1826 | POUSTUBE FEMALE Mini. flow rate: 0,6 l/min. (0.16 USG) - Fitting 1/2" F | Per box of 20 |
| 1828 | POUSTUBE MALE Mini. flow rate: 0,6 l/min. (0.16 USG) - Fitting 1/2" M | Per box of 20 |



DIRECTO PREMIUM

Watering nipples with adjustable flow rate without disassembly.

The Directo Premium watering nipple is designed to optimise water consumption in all stages of pig farming: **farrowing, weaning, fattening.**



The flow rate is adjusted without disassembly, to the water pressure in the system and the type of animal: less spilling, decrease the slurry volume and control of the production costs.

Any deposits in the water lines can be drained by fully opening the set screw. To shut off the water supply you only have to fully tighten the set screw.

1/2" male fitting. Suitable for low and standard pressure.

Long life guaranteed by its 3 stainless steel parts (body, tube and spring). Easy mounting with hexagon nut (mouting bracket A804, see ACCESSORIES).

| REF. | DESIGNATION | PACKAGING |
|------|---|--------------|
| 1816 | Directo Premium 50 : For piglets Body Ø 16 mm - ½" M fitting | Per bag of 5 |
| 1817 | Directo Premium 70 : For weaning Body Ø 19 mm - ½" M fitting | Per bag of 5 |
| 1818 | Directo Premium 90 : For fattening, sows and boars Body Ø 23 mm - $1/2$ M fitting | Per bag of 5 |

FLOW RATE ADJUSTMENT: DIRECTO PREMIUM



There is nothing more easy to increase the flow rate.

- 1 Insert the blade of the screwdriver in the slot at the end of the tube valve.
- Push the tube against the flow rate regulating cone.
- 3 Turn clockwise.

ACCESSORY

Mounting bracket made of unbreakable galvanised cast iron.

Centres: 50 mm for 8 mm screws.





REF. DESIGNATION

A804 20° mounting bracket for DIRECTO 50, 70 (and 90 only in maternity boxes)



OR PIGS

BREEDING MATERIAL AND DRINKING TROUGHS FOR PIGS KEPT OUTDOORS

MEMBRANE VALVE

Valve to maintain a low constant water level in a group trough or bowl.

Connection 1/2" (15x21) Male.









Ø17 mm Ø25 mm Ø32 mm









The valve comes with 3 plastic fittings.

| SIGNATION |
|-----------|
| |

1820 Membrane valve (with fittings)

ACCESSORIES

| REF. | DESIGNATION |
|---------|--|
| 1821 | Stainless steel pipe, non-threaded - 120 cm long |
| 4130404 | Stainless steel bowl B19 (without valve) see spare parts catalogue |
| 4130403 | Stainless steel bowl B15 (without valve) see spare parts catalogue |

DID YOU KNOW?

The membrane valve keeps the water level low in group troughs. With this valve, the level of stagnant water in the troughs will no longer be too high. The water is renewed quickly and is therefore more hygienic.

This helps you improve compliance with animal welfare standards.



CADAVER COVER

Cadaver cover in polyethylene.



REF. DESIGNATION

D140 L 240 x W 130 x H 60 cm (8 x 4½ x 2 ft). Light (20 kg, 45 lbs).



OUTDOOR PIGS

THERMOLAC 40 and 75 GV:
Non-electric frost-free drinkers, perfect for both
outdoor and indoor use.



HARRANA YEARS

Frost free down to -30 °C.

Their large insulated drain plugs - Ø100 mm (4") allow cleaning without the need to remove the cover.

They work according to the Thermos flask principle: a **double food-safe HDPE** wall is insulated with polyurethane foam.

More information page 47.

REF. DESIGNATION

1671 Frost-free non-electric 75 L waterer with 2 balls, float valve for standard pressure

1672 Frost-free non-electric 40 L waterer with 1 ball, float valve for standard pressure

OVICAP INOX 120 / 240:

Large stainless steel wall-mounted drinking troughs with adjustable float valve and high flow rate.

Optional heating element.

More information **page 91.**

LAC 5:

Universal cast iron bowl with constant water level.

More information page 8.





DOSING PUMPS

Accurate and reliable dosing pumps for medication, supplements, disinfection, ...

More information **page 85.**





ADVICE FROM LA BUVETTE® ABOUT DRINKING SOLUTIONS FOR HORSES



FUNCTIONAL CHARACTERISTICS OF A DRINKER FOR HORSES

- MINIMUM Available volume: 2,5 litres for a drinker with tube or paddle; 4,5 litres for a drinker with constant water level.
- MINIMUM Flow rate: 10 I/min for a drinker with tube or paddle;
 6 I/min for a drinker with constant water level.
- MINIMUM Access area: 21 to 25 cm diameter (Ø8.3 to 8.5").
- MINIMUM Depth: 10 to 12 cm (3.9 to 4.7").

DRINKER INSTALLATION HEIGHT

- Adult horses: 100 to 120 cm (3.3 to 3.9 ft)
- Ponies: 55 to 90 cm (1.8 to 3 ft) according to their height.

Why adapt the height of the drinker?

- Guarantee easy access and drinking comfort (risk when too high)
- Avoid that the horse bumps its head (risk when too high)
- Reduce the risks of the trough to be broken (risk when too low)
- Reduce soiling (straw, dung) (risk when too low)



CONNECTED BLUE INTELLIGENCE® DRINKING BOWL

BLUE INTELLIGENCE® is an innovative electronic system designed and developed by LA BUVETTE® for automatic and centralised monitoring of the water consumption of horses and triggering an alarm in real time in case of abnormal consumption.







MONITOR WARNING

REMOTE CONTROL



To watch the animated demonstration, scan this QR-code or go to:

www.blueintelligence-labuvette.com

DO YOU NEED MORE ADVICE ON WATERING SOLUTIONS FOR HORSES?

- Which drinker suits which application and horse?
- How many litres drinks a horse, when and how?
- How to choose the right location of the drinker?
- Which solutions exist to protect your drinkers from frost?
- The rules to follow...

Read all advice from LA BUVETTE in the HORSE catalogue on www.labuvette-waterers.co.uk The LA BUVETTE service is also at your disposal at $+33\,324\,523\,723$.





COMPLETE RANGE OF DRINKERS AND MATERIAL FOR HORSES

DRINKERS



FEED TROUGHS



STABLE EQUIPMENT



The LA BUVETTE® HORSE CATALOGUE is freely available. Ask for it or download it from www.labuvette-waterers.co.uk.



Subscribe to our YouTube channel to keep up to date: @LA BUVETTE





ISOBAR 250



Antifreeze isothermal trough without electricity, ideal for places without running water where frost can occur.

Suitable for 1 to 3 horses.



- Made of UV-resistant, food-safe HDPE.
- Frost protection down to -15 °C for 60 hours* (under shelter to avoid icy rain and snowfall) guaranteed by double walls filled with polyurethane foam.
- The horse easily pushes against the lens in the middle of the floating cover in order to drink.
- Water reserve for 1 week for one horse (in winter).
 Hygiene: The water is protected from the sun, wild animals, autumn leaves...
- Ø100 mm large drain with insulating plug.

Inside design without nooks and crannies for quick and efficient cleaning. The floating cover can be removed without tools. **Compact and easy to transport.**

MAXIMUM CAPACITY: 250 litres / AVAILABLE (with cover): 180 litres.
*Performance measured in cold room with a water temperature of 9 °C at the start.

REF. DESIGNATION

1751 Isothermal trough with floating cover - Ø100,5 x h.65 cm (Ø39.4" x 25.6")



CONNECTION ACCESSORIES

MOUNTING SET











CONNECTION SET

| REF. | DESIGNATION |
|------|--|
| A359 | Connection set for water circuit (FORSTAL, p.12): 2 stainless steel 3/4" tubes + rotary union |
| A363 | Connection set for water circuit (POLYSTALL, p.28): 2 stainless steel ¾" tubes + T ½" + rotary union ¾" |
| A367 | Connection set for water circuit suitable for waterer with ¾" T: 2 stainless steel ¾" tubes |
| A365 | Same as A367 with T for valve with ½" connection |
| A368 | Connection set for water circuit suitable for MULTI 220 (p.44) |
| A373 | Connection set for water circuit - for small spaces: 2 stainless steel tubes 3/4" male |
| A309 | Complete set to connect a LAC5, LAC55 or BABYLAC drinker mounted on a height-adjustable A308 bracket (p. 107). |

PIPES

| REF. | DESIGNATION |
|------|---|
| A459 | $1/2\ensuremath{^{\prime\prime}}$ threaded stainless steel pipe, male-male, 74 cm (29\ensuremath{^{\prime\prime}}) long |
| A469 | $1/2\ensuremath{^{"}}$ threaded stainless steel pipe, male-female, 74 cm (29\ensuremath{^{"}}) long |
| A470 | 1/2" threaded stainless steel pipe, male-female, 1 m (3.3 ft) long |

" FITTINGS



DESIGNATION





| | A822 |
|--|------|
|--|------|

REF.

| A822 | Stainless steel female-female bushing 1/2" (15 x 21) |
|------|--|
| | |

A823 Synthetic female-female bushing 1/2" (15 x 21)

A833 Brass fitting 3/4" (20 x 27) male - 1/2" (15 x 21) female

Extension with 2 threaded ends 1/2" (15 x 21), brass, 55 mm (2") long A829 for mounting LAC 5 and LAC 55 on vertical tube

HEATING ELEMENT 24V/30W

Protects the valve and increases the anti-freeze drinkers capacities.

For countries with extremely cold winters.



REF. DESIGNATION

A335 Heating element 24 V - 30 W for THERMOLAC™

PRESSURE REDUCERS

Pressure reducers with gauge. High flow rate model: ref. A406.

A405 A406



DESIGNATION REF.

A405 Pressure reducer with gauge, connection 3/4" Max. flow: 15I./mn at 4 bars (4USG at 58psi).

Pressure reducer with gauge for high flow rate - connection 3/4" A406 Reduces the pressure but keeps an high flow rate.

FILTER

Recommended at the beginning of every water supply for waterers.



| REF. | DESIGNATION |
|------|-------------|
| | |

A446 6m3/h - 100 microns - connection 26 x 34 (1")

A445 Filter element 100 microns

BRAIDED HOSES

Stainless steel braided hoses with 1/2" or 3/4" connection.



REF. **DESIGNATION**

A452 Length: 600 mm (23.6"), with 2 swivels 15 x 21 (1/2") + fitting male-male

A453 Length:300 mm (23.6"), with 2 swivels 15 x 21 (1/2") + fitting male-male

A454 Length: 1000 mm (39.4"), with 2 swivels 15 x 21 (1/2") + fitting male-male

A455 Same as A452 in blister pack

A458 Same as A454 in blister pack

Length: 600 mm (23.6"), with 2 swivels $20 \times 27 (3/4$ ") (female) + fitting male-male A480

A481 Same as A480 in blister pack

A482 Length: 1000 mm (39.4"), with 2 swivels 20 x 27 (3/4") + fitting male-male

A483 Same as A482 in blister pack

TAPPING SLEEVES / PLUGS







A391

| REF. | DESIGNATION |
|------|-------------|
| | |

Tapping sleeve - Galvanised cast iron body for water pipe with 1/2" (15x21) A806 male fitting. Also suitable for 1.25" (33x42) and 1.5" (40x49) tubes.

A391 Male 3/4" stainless steel screw plug

A392 Male 3/4" brass screw plug



PROTECTIONS AND MOUNTING **ACCESSORIES**

50 cm

40 cm

30 cm

20 cm

10 cm

0 cm

MOUNTING BRACKETS

Adjustable mouting bracket: System to adjust the drinker height to the litter thickness.

Perfect for young calves, sheep and goats on deep









or 5 tubes. Secured hook.



For the mounting on Ø102 (4") and 140 mm (5.5") poles:





- Double clamping system to avoid rotation.
- Suitable for standard and octagonal posts.

Bracket to mount a drinker on a steel post (H profile). Spacing: 100 - 200 mm.





A315 / A316 / A319





A334

DESIGNATION

- Galvanised steel wall support to adjust the drinker height Perfect for BABYLAB™ drinker Total height of 50 cm (20"), adjustable A308 every 10 cm (4"). Can be installed on a pole with a counter flange. (Provide a stainless-steel hose or A309 set, p. 106).
- Set of 2 mounting brackets for drinkers on a fence with 4 or 5 tubes. A324 Bore holes identical to A331.
- Mounting bracket for waterers on pole Ø102 mm (4") or octogonal: For A331 S4, F11, FORSTAL, F30, F30A, F60, LAC 5/55/50, BABYLAB™/T, F110 Inox, F130 Inox, F130 EL.
- Obligatory mounting bracket for F110 and F130 on poles Ø 50-75 mm (2"-3"). A334 You can also use it for BABYLAB™, F11, F25, F30, F30A, F40 and F60
- Mounting bracket for waterers on H-post with a width of 100 to 200 mm. A336 Same drinkers compatibility as A331.
- A337 Same as A331 for pole \emptyset 140 mm (5.5") and octogonal
- Set of 2 galvanised steel brackets for F11 F30 F60 F110 lnox -A315 BABYLAB™ on tubes up to Ø 50 mm (2")
- A316 Same as A315, for tubes of Ø 50 (2") up to 75 mm (3")
- A319 Same as A315, for F130 EL
- Corner plate for F11 FORSTAL F30 F130 LAC 5/10 BABYLAB™ T A361 F110 INOX
- A362 Corner plate for BABYLAB™

PROTECTION FRAMES



| REF. | DESIGNATION |
|------|--|
| A345 | Protection frame in galvanised steel suitable for EASY-STALL 45 |
| A346 | Protection frame in galvanised steel suitable for EASY-STALL 100 |
| A349 | Protection frame in galvanised steel suitable for LAC 55. Wall mouting. Dim.: L 400 x D 320 x H 160 mm (15.7" x 12.6" x 6.3") |
| A352 | Protection frame in galvanised steel suitable for F11, F0RSTAL, F25, F30, F30A, F40, F130, LAC 5, LAC 10. Wall or corner mounting - fits brackets A331 Dim.: D 366 x W 334 x H 235 mm (14.4" x 13.1" x 9.3") |
| A353 | Protection frame in galvanised steel suitable for F60. Wall mounting. Dim.: L 518 x D 378 x H 173 mm (20.4" x 14.9" x 6.8") |
| A354 | Protection frame in galvanised steel suitable for F130 EL Wall or corner mounting - fits brackets A331 |

Dim.: D 379 x W 353 x H 271 mm (14.9" x 13.9" x 10.7")

PROTECTIONS

Special protection for insulated water lines: Larger width and depth than standard protection to avoid compression of the insulating foam jacket.

Protection for tube valve: For animals with a nose ring.







| REF. | DESIGNATION |
|------|--|
| A341 | Stainless steel protection for valve of F60 |
| A342 | Stainless steel protection for valve of F30 / F30A |
| A358 | Water pipe protection in galvanised steel - useful dim. L. 750 x W. 60 x D. 75 mm. |

LA BUVETTE® SHELF SPACE,

YOU ARE AT THE RIGHT PLACE!





LET US HELP YOU DESIGN YOUR LA BUVETTE® CORNER

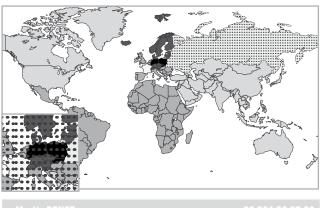


The visibility of your shelf space is important to help you make the best out of your retail space and to increase your turnover while meeting the expectations of the breeders from your area.

Your LA BUVETTE representative (see details opposite) will take all of your parameters into consideration to offer you a customised turnkey solution.

| REF. | DESIGNATION |
|------|---|
| A913 | Display stand for drinkers, double-sided (empty) |
| A918 | Front 100 cm x 17 cm in PVC |
| A917 | Front 133 cm x 17 cm in PVC |
| A919 | Magnetic holders for PVC front (set of 2) |
| A921 | Transparent document holder |
| A923 | 205 x 40 mm label with product Information for label holder |

YOUR CONTACT IN YOUR COUNTRY



| | 1 53 26 4 341 09 (| |
|--------|-----------------------|-----------------|
| +33 68 | 1 53 26 | 44 |
| | | |
| +33 60 | 7 12 76 | 89 |
| | | |
| | | +33 324 52 37 3 |



LA BUVETTE® VIDEOS, PACKED WITH TIPS



ADVICE VIDEOS FROM SPECIALISTS

Installing a drinker or a pasture pump, choosing a solar-powered pump, repairing a polyethylene trough, replacing a float valve or a flow adjustment screw and mounting a "Hands-Dry" drain plug become as easy as child's play after having watched the LA BUVETTE videos.

Subscribe to our YouTube channel to keep up to date: @LA BUVETTE





























INDEX

| | Product | Page | | Product | Page |
|---|---------------------|------|---|----------------------------|------|
| A | AQUABLEND | 89 | | DYRECT | 102 |
| | AQUABLEND XTREME | 89 | E | EASY-STALL 100 | 31 |
| | AQUAMAT II | 60 | | EASY-STALL 45 | 30 |
| | AQUAMIX | 89 | F | F11 | 13 |
| B | B10 | 101 | | F110 INOX | 16 |
| | B15 S & L | 101 | | F130 EL | 24 |
| | B19 | 101 | | F130 INOX | 17 |
| | B8 | 101 | | F25 | 15 |
| | BABYLAB | 11 | | F30 | 14 |
| | BABYLAC | 8 | | F30 A | 14 |
| | BABY-STAR | 76 | | F40 | 15 |
| | BAÏKAL 230 | 40 | | F60 | 14 |
| | Bale Trolley | 86 | | Feed Carts | 84 |
| | BALPI LIGHT | 101 | | Feeder Wheelbarrow | 84 |
| | BIGCHO 2 | 27 | | Feeders for calves | 74 |
| | BIGLAC 25 & 25R | 9 | | Feedtroughs | 82 |
| | BIGLAC 55M | 10 | | Feedtroughs for Smallstock | 81 |
| | BIGLAC 55T | 58 | | Feedtroughs on ground | 81 |
| | BIGLAC 90 | 10 | | Fence for hutch | 79 |
| | BIGSTAL 2 | 27 | | Filter | 106 |
| | BLUE INTELLIGENCE | 104 | | Fittings | 106 |
| | BLUE LEVEL gauge | 59 | | Float valve | 57 |
| | Braided Hose | 106 | | Footbaths | 88 |
| | Brooms | 87 | | FORSTAL | 12 |
| | Buckets | 79 | | Four-Wheeled Cart | 86 |
| С | Cadaver Cover | 103 | G | GALVALAC 65T | 58 |
| | Calf box | 76 | | Galvanised Troughs | 56 |
| | Calf Hutches | 77 | | GEOTHERMIC PROBE | 12 |
| | CALF-BUDDY | 74 | | Grain Shovel | 87 |
| | CLEANFOOT | 88 | | GV 110 | 36 |
| | CLEANO-BAC | 45 | | GV 150 | 36 |
| D | DAIRY-BAC 400 | 39 | | GV 230 | 36 |
| | DAIRYNOX 600 | 39 | | GV 300 | 37 |
| | DIRECTO PREMIUM | 102 | | GV 300 XL | 38 |
| | Dosing Pumps | 89 | | GV 460 | 37 |
| | Dumping Wheelbarrow | 85 | Н | Haybell | 81 |
| | | | | | |



INDEX

| | Product | Page |
|---|-----------------------|------|
| | HDPE Slat Floor | 76 |
| | Heating cable | 23 |
| I | Heating wire | 22 |
| | Immersed Heater | 106 |
| | In-Store Advertising | 108 |
| | Insulated stands | 27 |
| | INTERBAC | 55 |
| | ISOBAC | 45 |
| | ISOBAR 250 | 105 |
| J | JUMBO | 57 |
| L | LAC 10 | 9 |
| | LAC 5 | 8 |
| | LAC 5 A | 8 |
| | LAC 50 | 9 |
| | LAC 55 | 8 |
| | LACABAC | 57 |
| | LAKCHO 2 | 26 |
| | LB 150 | 32 |
| | LB 230 | 33 |
| | Lickstone holder | 81 |
| | LOGISTAR | 78 |
| M | Manure Fork | 87 |
| | Membrane Valve | 103 |
| | MICHIGAN DUO | 41 |
| | MIDDLESTAR | 78 |
| | MINISTAR | 77 |
| | Modular Feedtroughs | 83 |
| | Moistener | 102 |
| | Mounting brackets | 107 |
| | MULTI 220 | 44 |
| | MULTI-TWIN | 42 |
| N | Niples | 102 |
| | NORMANDY | 25 |
| 0 | OVICAP 120 & 240 | 95 |
| | OVICAP INOX 120 & 240 | 95 |
| | OVITUBE 120 & 210 | 93 |

| | Product | Page |
|---|--------------------------|------|
| Р | Pipe protection | 107 |
| | Plugs | 106 |
| | POLYSTALL | 28 |
| | POLYSTALL TWIN | 29 |
| | PORCINOX | 101 |
| | POUSTUBE | 102 |
| | PREBAC circular | 53 |
| | PREBAC oval | 52 |
| | PREBAC rectangular | 54 |
| | Pressure Reducer | 106 |
| | Protection frame | 107 |
| R | Rice Straw Broom | 87 |
| | Round Broom | 87 |
| S | S4 | 13 |
| | Scoop and Rake | 87 |
| | Shovel | 87 |
| | SIMPLE TROUGHS | 55 |
| | Solar pumps | 63 |
| | SOLAR-BASIC | 64 |
| | SOLAR-FLOW 1500 & 900 | 67 |
| | SOLAR-FLOW Solar-energie | 65 |
| | SOLAR-FLOW Storage | 66 |
| | SPEED-FLOW | 18 |
| | Stabilisation grids | 61 |
| | STALCHO 2 | 26 |
| | SUPERSTAR | 80 |
| Т | Tanks | 58 |
| | Tapping sleeve | 106 |
| | THERMOFLOW | 19 |
| | THERMOLAC | 47 |
| | Thermostat | 26 |
| | Transformators | 24 |





LA BUVETTE®, WITHIN THE SOFILAB GROUP

COMPLEMENTARY EXPERTISE FOR THE STOCKBREEDERS

LA BUVETTE is a member of the French industrial SOFILAB group. An international group based on complementary know how, resolutely focused on innovation and quality for the success of the stockbreeders and the welfare of the animals.







LA BUVETTE has been designing and manufacturing watering systems and other breeding materials such as wheelbarrows and calf hutches for more than 115 years.

08090 TOURNES / labuvette.com





SATENE, your restraint equipment and cattle, sheep and goat feeding material specialist.

F-36400 LA CHÂTRE / satene.com



Specialised in rotational moulding of technical parts, ROTOPLUS manufactures products for farming (troughs, hutches, tanks) and for numerous other industries.

F-08090 TOURNES rotoplus.fr







As a major player in tubular constructions, CK INDUSTRIES is known for its feed fences and calf boxes as well as its scrapers and other slurry drainage systems. F-42130 MARCOUX ck-industries.com





MAZERON, manufacturer of farm machinery since 1978, offers a large range of livestock and feed trailers and also manufactures breeding material for cattle and sheep.

F-89200 MAGNY / mazeron-sas.com





BAYLE INDUSTRIES is an expert in the automation of milking parlours and feeding systems for sheep and goats and builds all types of accommodation for sheep and goat farms.

F-12850 ONET-LE-CHÂTEAU bayle-industries.com



LET US MEET

SOON



NOT TO BE MISSED IN 2023:

- TECH-OVIN the 6 and 7 September at Bellac (France)
- SPACE from 12 to 14 September at Rennes (France)
- **SOMMET DE L'ÉLEVAGE** from 3 to 6 October at Clermont-Ferrand (France)
- EQUITA from 1st to 5 November at Lyon (France)
- CAPR'INOV the 22 and 23 November at Niort (France)
- **PRIM'HOLSTEIN 100th anniversary** 23-24 November at Puy-du-Fou (France)

LA BUVETTE also participates in numerous exhibitions and open houses of its customers.

We also offer training sessions on drinking systems intended for the breeders and breeding advisors.

Don't hesitate to contact us.





TECH-OVIN (Bellac - France)



EUROTIER (Hanovre - Germany)



SOMMET DE L'ELEVAGE (Clermont-Ferrand - France)



EQUITA (Lyon - France)

LA BUVETTE WARRANTY INFORMATION The LA BUVETTE® material comes with a 1-year guarantee against all manufacturing defects unless otherwise stated. This guarantee only covers the replacement of defective parts that are returned at the buyer's expense. Any warranty claim shall be sent by the user to his dealer, accompanied with a detailed explanation and photos. The dealer shall transmit the claim to the LA BUVETTE® representative of his region and the latter shall submit it to the After Sales Service of LA BUVETTE®. For more information, please ask for our detailed warranty conditions.







Documentation, advice, spare parts, mounting instructions and videos on our web site:

www.labuvette-waterers.co.uk

YOUR CONTACTS AT THE OFFICE:



Marie DENIS Head of Sales Administration Tel.: +33 324 52 37 10 m.denis@labuvette.fr



Clémence RAMBOUT Commercial Assistant France & Export Tel.: +33 324 52 37 23 c.rambout@labuvette.com



David BROSSETechnical-Commercial Assistant
Tel.: +33 324 52 37 21
d.brosse@labuvette.fr



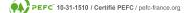
Didier CORNIQUETHead of After-Sales Service & Installation Advice
Tel.: +33 324 52 37 27
d.corniquet@labuvette.fr



Julien MALLEVAL
Graphic designer Charged of Communication
Tel.: +33 324 52 37 20
j.malleval@labuvette.fr

YOUR APPROVED DEALER

Photos: La Buvette - C. Gustin - P. Pervez - J.-M. Lecomte - J. Malleval IMPRIM'VERT* Printed by FUSION GRAPHIC - FRANCE - 06/2023







labuvette.bovin

f labuvette.cheval

@la_buvette

in LA BUVETTE SAS

LA BUVETTE

la_buvette_agri

LA BUVETTE - Rue Maurice Périn
Parc d'Activités Ardennes Émeraude - CS 50749 Tournes
08013 CHARLEVILLE-MÉZIÈRES Cedex - France
Int. +33 324.52.37.23 - Fax +33 324.52.37.24
www.labuvette-waterers.co.uk - commercial@labuvette.com
RCS SEDAN 785 720 012 - ID. TVA: FR 05 785 720 012.

