

LA BUVETTE®

The specialist in watering



NEWS

N°21 • NOVEMBER 2012

SPECIAL EDITION: ANTI-FREEZE SOLUTIONS

EDITORIAL

LA BUVETTE offers a comprehensive range of drinking solutions for large farm animals. For cattle, pigs, goats, sheep or horses, kept in stables or outdoor, in whatever geographical region, LA BUVETTE is your partner, not only as a supplier of material, but also to give you some advice on the selection, installation and maintenance of this material. Our main objective is to make sure that you gain a maximum return on investment.



With winter approaching, we decided to dedicate this newsletter to the different anti-freeze solutions we can offer the customer. In view of the abundance and sometimes seeming complexity of the range, we considered it useful to put together a detailed survey of the solutions offered by LA BUVETTE to help you make the best choice possible taking into account your situation. We hope this information is helpful and like to repeat that our teams are always at your disposal to help you refine your choice.

The anti-freeze solutions are particularly sought after in Eastern Europe, where winters are often severe. Hervé MAIRE, our international sales manager, who is particularly familiar with this geographical region, will gladly share his experience and advise you on these solutions and their application.

We are proud to invite you to the EUROTIER fair in Hanover, the major meeting place for breeders all over Europe and the rest of the world and welcome you to our stand where we can exchange ideas and show you our newest products.

Kind regards,

Jean-Philippe BOUSQUET
President



FROST-PROOF WATERERS, THE KEY TO EXPORT



**A talk with Hervé MAIRE,
LA BUVETTE International
Sales Manager.**

The anti-freeze waterers for one or more animals open the door to the export market for LA BUVETTE, especially to Scandinavia, North America and the Central and Eastern European countries with severe winters.

LA BUVETTE offers several solutions to protect the water points from frost:

- Non-electric frost-proof waterers,
- Heated drinkers using a heating element installed under the bowl,
- Water circulation pump allowing to keep the entire line of drinking bowls frost-free.

In all cases, decent protection of the piping system is essential. Rational breeders know that animals need access to high quality water in sufficient quantities the whole year through. To achieve this, LA BUVETTE developed solutions that are adapted to all types of climate.

Discover these solutions in this newsletter.

NON-ELECTRIC FROST-PROOF WATERERS



PRINCIPLE	Non-electric frost-proof drinker: while the animals drink, the drinker is filled with fresh water and the double wall, insulated with high density polyurethane foam, keeps it at a constant temperature.	The geothermal probe holding a heat transfer gas is inserted in the copper tube and transfers the heat from the earth to the valve of the waterer.
TYPE OF LIVESTOCK	Cattle and horses: GV models Sheep and goats: B models	Veals and horses
POWER OPERATED	No	No
POWER CONSUMPTION	None	None
TENSION	None	None
POWER	None	None
INSTALLATION TYPE	For underground water supply lines.	For underground water supply lines.
EFFICIENCY <small>(if mounting instructions are complied with)</small>	Down to -30 °C for GV models. Down to -15 °C for B models.	Down to -15 °C.

THE ADVICE OF THE SPECIALIST	<ul style="list-style-type: none"> → Install the water supply lines sufficiently deep underground (80 cm). → A rather large opening in the concrete base (approximately 300 mm diameter) for the water supply creates a geothermal effect. → Make sure that the seal between the trough and the concrete base is seated correctly. → Protect the surface lines with an insulating jacket. 	<ul style="list-style-type: none"> → Use a plastic waterer to avoid thermal bridges. → Is not used with constant level waterers (not protected stagnant water). → Install the water supply lines sufficiently deep underground (80 cm).
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ANTI-FREEZE SOLUTIONS TO PROTECT NEW AND EXISTING INSTALLATIONS



PROFLOW II (see diagram 1)



SPEED-FLOW (see diagram 2)



SELF-REGULATING HEATING STRIP



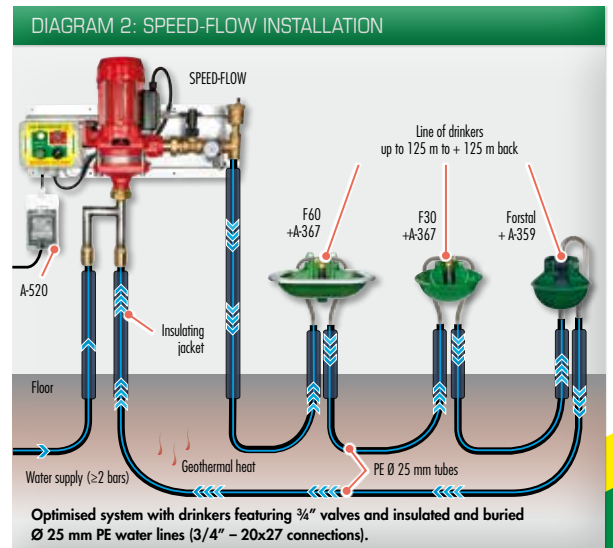
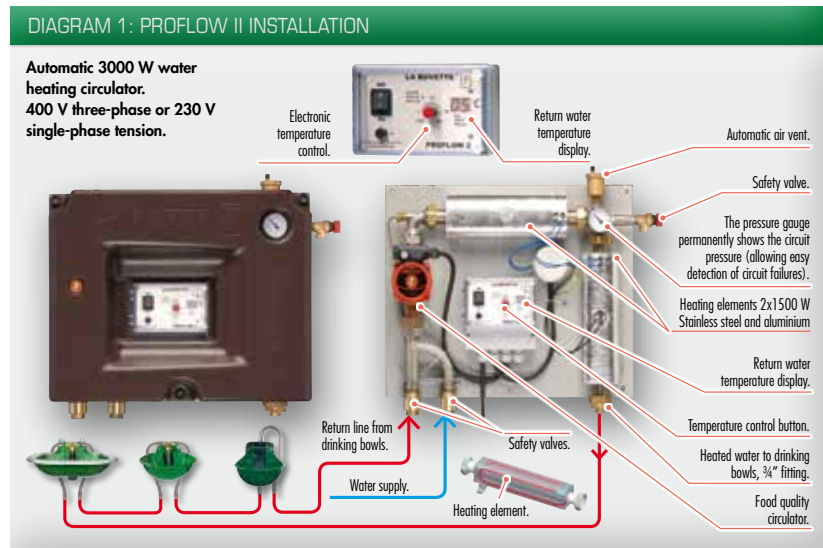
READY TO CONNECT HEATING CABLE

PRINCIPLE	Heating circulator for line of waterers up to 90 m to and 90 m back	High-power pump for circulation system with high flow rate for line of waterers up to 125 m to and 125 m back.	Self-regulating 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.	Ready to connect heating cable with built-in thermostat activated at 6 °C.
TYPE OF LIVESTOCK	All	All	All	All
POWER OPERATED	Yes	Yes	Yes	Yes
POWER CONSUMPTION	High	Average	Economical consumption	Economical purchase
TENSION	400 V threephase or 230 V	230 V	230 V	230 V
POWER	3 000 W (regulated)	550 W (continuously)	Variable according to temperature up to 10 W/m (regulated)	Permanent 16 W/m heating power activated at 6 °C (continuously)
INSTALLATION TYPE	Suitable for all surface and underground water supply lines, installed at the inlet of the entire line of waterers.	Suitable for underground water supply lines, installed at the inlet of the entire line of waterers.	For surface water lines in existing installations. Cut at the required length from 0 to 200 m.	Ideal to protect surface lines in existing installations (pre-cut lengths from 2 to 48 m).
EFFICIENCY (if mounting instructions are complied with)	Protects water lines and valves down to -20 °C.	Protects water lines and valves down to -15 °C.	Protects water lines and valves down to -35 °C.	Protects water lines and valves down to -45 °C.

THE ADVICE OF THE SPECIALIST

- Protect the surface water lines with an insulating jacket.
- Large bends are preferred and use tubes with a diameter of 25 mm to reduce the risk of pressure drops.
- Install the SPEED-FLOW or PROFLOW II in a frost-free room or use heating wire to protect the water supply against frost.
- In summer, set the temperature of the PROFLOW II to minimum and leave the circulation pump on to keep it from jamming.
- The line must be protected by a 30 mA differential circuit breaker.

- A 30 mA differential circuit breaker must be installed.
- Apply aluminium tape to plastic water lines to improve heat transfer.
- Install an insulating jacket around the strip to guarantee its efficiency.
- Install a metal protection on the lines that are accessible to the animals to avoid nibbling.
- A remote thermostat can be installed for automatic start and stop of the self-regulating strip (at approximately 3 °C).



FROST-PROOF WATERERS



F130 EL



BIGCHO II

BIGSTAL II



LAKCHO

CALDOLAC 5

STALCHO

PRINCIPLE	Single drinker with heating element surrounding the bowl and valve.	Single stainless steel waterers with constant level or paddle, supplied with heating element under the bowl.	Single polyethylene waterers with constant level or paddle, supplied with heating element under the bowl. CALDOLAC 5 is equipped with a thermostat.
TYPE OF LIVESTOCK	Cattle and horses	BIGCHO II: all BIGSTAL II: cattle and horses	LAKCHO – CALDOLAC 5: cattle, sheep, goats and horses STALCHO: cattle and horses
POWER OPERATED	Yes	Yes	Yes
POWER CONSUMPTION	Low	Low	Average
TENSION	24 V	24 V	24 V
POWER	30 W or 80 W (continuously)	50 W or 80 W (continuously)	STALCHO, LAKCHO : 50 W or 80 W (continuously) CALDOLAC 5 : 180 W (regulated)
INSTALLATION TYPE	For all installations.	For underground water supply lines.	For underground water supply lines.
EFFICIENCY (if mounting instructions are complied with)	Down to -20 °C.	Down to -20 °C.	Down to -20 °C.

THE ADVICE OF THE SPECIALIST

- A 230/24 V transformer has to be installed.
- Use a 3 m 22 W (24 V) heating cable to keep the supply lines frost free (connected to the junction box).
- The cable cross-section should match the power supply and the length of the installation.
- A remote thermostat can be installed for automatic start and stop (at approximately 3 °C).

- A 230/24 V transformer has to be installed.
- The cable cross-section should match the power supply and the length of the installation.
- Water supply protected by the insulated polyethylene stand.
- A remote thermostat can be installed for automatic start and stop (at approximately 3 °C).
- Install the water supply lines sufficiently deep underground (80 cm).



BIGCHO II



POLYSTALL PREMIUM



ISOBACK™

WITH HEATING ELEMENT



Single or double access waterer with constant level equipped with one or 2 double-walled polyethylene doors and one or 2 heating elements under the bowl (sold separately).

Polyethylene double-walled constant level drinkers with heating element under the trough for more than one animal.

Large stainless steel waterers with constant level and polyethylene cover. The heating elements (sold separately) are installed under the trough inside a polyethylene box improving heat transfer to the trough.

Cattle	Cattle	Cattle
Yes	Yes	Yes
Average	Average	Average
24 V	24 V	24 V
POLYSTALL PREMIUM: 80 W (continuously)	ISOBAC: 2 X 50 W (or 2 X 80 W) (continuously)	2 X 175 W (continuously)
POLYSTALL TWIN PREMIUM: 2 X 80 W (continuously)	MULTI 220 EL: 4 X 80 W (continuously)	
	MULTI-TWIN EL: 3 X 80 W (continuously)	
For all installations.	For underground water supply lines.	For underground or lower wall mounted water supply lines.
Down to -20 °C.	Down to -20 °C.	Down to -20 °C.

- A 230/24 V transformer has to be installed.
- Use a 3 m 22 W (24 V) heating cable to keep the supply lines frost free (connected to the junction box).
- The valves can be kept frost free with a circulation system.
- The cable cross-section should match the power supply and the length of the installation.
- A remote thermostat can be installed for automatic start and stop (at approximately 3 °C).

- A 230/24 V transformer has to be installed.
- The cable cross-section should match the power supply and the length of the installation.
- The valves can be kept frost free with a circulation system.
- A remote thermostat can be installed for automatic start and stop (at approximately 3 °C).

- A 230/24 V transformer has to be installed
- In regions with severe winters a heating element can be installed inside the valve in addition with the frost protection sets.
- The drinkers can be transformed into a circulation system with SPEED-FLOW or PROFLOW II (installed on the water supply by means of a swivel fitting with two entry positions without supplementary accessories).
- The cable cross-section should match the power supply and the length of the installation.



FALL 2012 FAIRS: SPACE AND SOMMET DE L'ÉLEVAGE Highly positive records

Very recently this year, numerous French and foreign breeders and resellers visited the LA BUVETTE stand at the SPACE and SOMMET DE L'ÉLEVAGE fairs in a positive and constructive atmosphere. The new range of LB and GV waterers (see picture to the right) especially launched for this occasion, received a lot of positive attention!



WINTER 2012-2013 FAIRS Where can you find LA BUVETTE



EuroTier: Hanover
from 13/11 to 16/11
Hall 13 – Aisle E –
Stand 36



Salon du Cheval de Paris:
from 01/12 to 09/12
Hall 5A – Aisle J –
Stand 139



SIMA:
from 24/02 to 28/02
Hall 1 – Aisle D –
Stand 17

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