

BERTHOUD

SPRAYING SPECIALISTS SINCE 1895

2024

PRODUCTS CATALOGUE



GARANTIE
GUARANTEE
5 ANS
YEARS

SAV EN FRANCE
CUSTOMER SERVICE
IN FRANCE

10 ANS
YEARS
PIÈCES DÉTACHÉES
DISPONIBLES
SPARE PARTS
AVAILABLE

www.berthoud.fr/en/

Ref. 900-100-440

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SPRAYING SPECIALISTS SINCE 1895

1895 : Company founded by Paul Berthoud who wanted to industrialize the production of copper knapsack

1938 : The second generation Ferdinand and Jean Berthoud, his two sons, joined the company in turn.

1956 : Arrival of the third generation with cousins Guy and Didier whose priority is to attack the home market with a specific range «Flori-Leisure».

1969 : Centralization of all services (production, sales, despatch) in Villefranche-sur-Saône (France)

1987 : The company is taken over by Patrick Ballu and joins EXEL Industries, world leader in spraying.

BERTHOUD has become one of the strongest links in HOZELOCK-EXEL by being for many years the undisputed leader of the French market (in value).

Berthoud products are recognised as being highly professional. This is in part due to their agricultural origins and their long term market presence. It will come as no surprise that the company's core clients are the experienced gardener and the professional.

The company meets its customers' exacting requirements in three ways:

- by offering an unrivalled breadth or product range
- by offering impeccably engineered, high-performance sprayers
- by offering excellent after-sales service



Beaujolais



For more information visit our website :

www.berthoud.fr/en/

BERTHOUD, the premium range of sprayers:

high-quality products with **clear segmentation** in shops and **compatible with biocontrol products**



Dedicated packaging

depending on use (Garden, DIY or Cleaning & Disinfection) to help make the right choice.



Since 1 January 2017, self-service sales of chemical pesticides to amateur gardeners has been prohibited in France. Biocontrol products or those with a low risk are not concerned by this measure. Since 1 January 2019, the sale of chemical pesticides is prohibited for private individuals.

All of our Berthoud sprayers are **adapted for spraying phytosanitary products** authorized for professionals and natural products for individuals, which are sometimes more aggressive chemically, thanks to the following measures set up:

- **Static and dynamic tests** conducted across all of the garden product brands (Natria, Neurdoff, Naturen, Clairland ...)
- Adaptation of our seals: **reinforced seals** in order to provide compatibility with the new natural products



Precautions to be taken in order to guarantee optimum service life for your sprayer:

- **Rinse the device well after each use**
- **Grease the sprayer's seals twice a year (see instructions)**

Quality products for reliable and efficient sprayers



Sprayers manufactured in France

All our sprayers are manufactured in our factory in France. The quality of the components and their assembly, the rigorous monitoring at all stages of manufacturing and the systematic tracking are all measures to ensure high quality, durable and reliable products.



Durable products

Berthoud guarantees their manual knapsack sprayers and compression sprayers over 2L for 5 years (under the conditions specified in the equipment's user manual for products sold since September 1st 2007 except mistblowers and pulvexel ranges.



certifié ISO 9001:2015

A priority : Quality

The company is certified ISO 9001 version 2015, a guarantee of quality procedures at each stage of the design, manufacture and distribution of our sprayers..



A performing after sales service

All our products are repairable thanks to our After Sales Service which guarantees the availability of spare parts for at least 10 years after the end of the products commercialization.





F1



Handhelds are lightweight, small and primarily designed for the treatment of indoor and outdoor plants but come in just as handy for such household chores as :

- dampening the laundry prior to ironing
- window cleaning
- spraying pets with treatments
- localized weeding ...



F1 DIY

101135 / 100-002-525

For the house, the garden and for DIY

- Polyethylene reservoir with graduated gauge : capacity 1 L
- Watertight neck
- Swirl nozzle with adjustable and sealable jet
- Large base for good stability (even when empty)
- Sealable nozzle that can be locked ("child safe")
- Full-grip trigger



TIP N°1

"Never spray in very hot weather."

"Avoid spraying between 10.00 AM and 6.00 PM. The best time for spraying is in the evening after 8.00 PM or early in the morning when the plants open and breathe."



F1 PLUS

101210 / 100-002-534

With wide opening for the garden

- Polyethylene reservoir with graduated gauge capacity : 1 L
- Cylindrical shape with 'full opening' (screw top)
- XL' high-performance sprayer head
- Swirl nozzle with adjustable jet
- 360° function for spraying even under leaves



TIP N°2

"Small sprayers can be used for spot treatment of individual plants.

Using several sprayers avoids mixing products, in particular mixing weed killers with pesticides/ fungicides."



ELYTE 2



ELYTE 2 360° - Plant care

100-100-677

Balconies, terraces and small gardens

- Translucide and graduated tank. Total capacity : 2L
Useful capacity: 1.5L
- Ergonomic knob for an easy pressurizing
- Pump with metal rod
- Bloquable handle for a continuous spraying
- Anti-theft nozzle with brass insert
- Tank with large opening for easy filling and emptying
- 360° function for spraying even under leaves
- Useful capacity: 1.5L



ELYTE 2 - DIY

100-000-043

For the house and DIY

- Translucide and graduated tank. Total capacity : 2L
- Ergonomic knob for an easy pressurizing
- Pump with metal rod
- Bloquable handle for a continuous spraying
- Anti-theft nozzle
- Tank with large opening for easy filling and emptying
- Ribs at the bottom for an easy opening and closing
- Viton seals for use with aggressive products
- Useful capacity: 1.5L



ELYTE 2 360° - EPDM

100-100-633

For vinegar and disinfection

- Translucent, graduated tank with total capacity 2 L, useful capacity: 1.5 LP
- Ergonomic pumping knob for easy pressurisation
- Pump with metal stem Handle with locking button for continuous spraying
- Antitheft nozzle
- Equipped with EPDM seals, resistant to alkaline products, including vinegar
- 360° function for spraying even under leaves



Article name	Reference	EAN code	Item weight (kg)	N°Units	Box		Pallet		
					Dimensions W x D x H (mm)	Weight (kg)	Dimensions W x D x H (mm)	N° layers	N°Boxes / layer
F1 DIY	100-002-525	3176241011352	0,12	28	800 x 400 x 250	4,34	1200 x 800 x 2150	8	3
F1 Plus	100-002-534	3176241012106	0,22	12	710 x 320 x 330	3,10	1200 x 800 x 1800	5	4
ELYTE 2 360° Plant care	100-100-677	3176245001052	0,60	6	295 x 400 x 320	4,00	1200 x 800 x 1700	8	6
ELYTE 2 DIY	100-000-043	3176241017514	0,60	6	295 x 400 x 320	4,00	1200 x 800 x 1700	8	6
ELYTE 2 360° EPDM	100-100-633	3176245001069	0,60	6	295 x 400 x 320	4,00	1200 x 800 x 1700	8	6



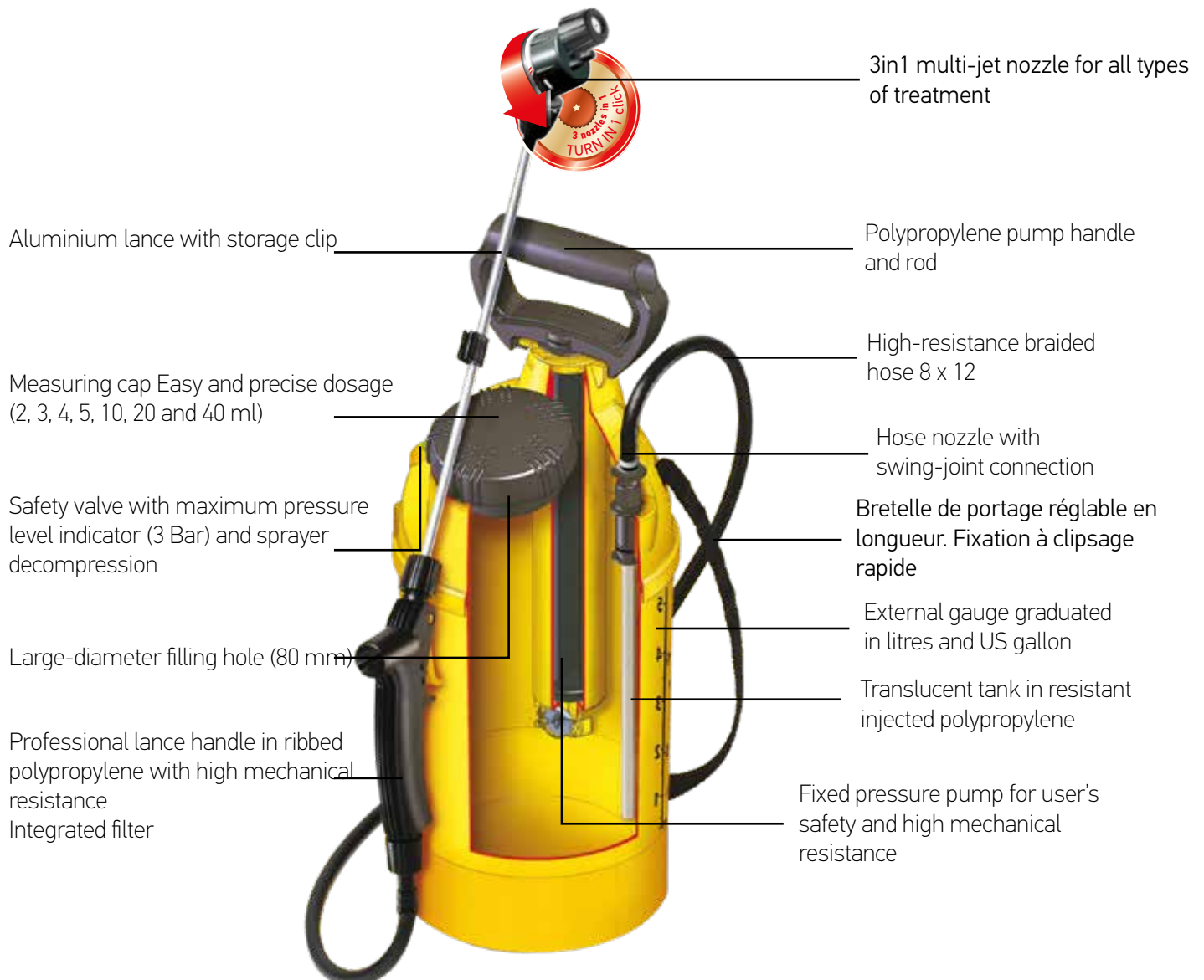
FLORALY "OPTIMA"

Sprayers that are easy to use for maintaining small and medium sized gardens



Based on Berthoud's extensive experience, the Floraly Optima range represents the best value for money in the market. This new range is characterised by innovations which bring numerous improvements in terms of ease of use, safety and comfort. The range is available in 3 formats : 3-litre, 5-litre and 8-litre, usable capacities, and also comes in a 'DIY' version with resistant seals.

The FLORALY Optima range, combined with the BERTHOUD range of accessories, allows all requirements to be met in both the field of «plant protection» and DIY.



FLORALY "OPTIMA"

Technical characteristics and advantages for the user

FOR EASIER USE

	Characteristics	Advantages for the user
	Wide opening separate from the pump	Easier filling, mixing and emptying
	Shape of head without retention zone on emptying	Easy, quick and complete emptying
	Cap with integrated measurer (7 dosage possibilities: 2, 3, 4, 5, 10, 20 and 40 ml)	Easy and precise dosage
	Shoulder strap fastening with simple clips	Shoulder straps quick and easy to fasten
	Slide rail for easy storage of the lance	Easy to store lance Simplified storage
	3in1 multi-jet nozzle for all types of treatment	Practical to use, always 3 different jets available depending on the treatment



FOR BETTER SAFETY

	Characteristics	Advantages for the user
	Fixed and off-centre pump	User safety: no need to remove the pump for filling and emptying
	Safety valve with maximum pressure level indicator (< 3 Bar) and sprayer decompression	No risk of excess pressure on pumping. Quick and easy decompression of the equipment
	Large diameter translucent reservoir with graduated gauge	Liquid level visible Excellent stability on the ground

FOR EXCELLENT COMFORT

	Characteristics	Advantages for the user
	Hose outlet mounted on rotating connector	Easier handling of the hose/lance unit
	New wide pump handle	Ergonomic and robust pump handle
	Professional lance handle with two finger trigger and integrated filter	Ensures a natural position for the wrist and the hand

FLORALY 5 OPTIMA

Plant care 101450 / 100-002-550

For small gardens :
< 300 m²

- Total tank capacity : 5.2 L, usable capacity : 3 L
- Fixed and off-centre manual pressure pump with nitrile seals
- 3 Bar safety value
- Wide opening on reservoir separate from the pump (diameter : 80 mm)
- Multi-compartment measuring cap : 7 dosage possibilities (2, 3, 4, 5, 10, 20 and 40 ml)
- Nozzle outlet mounted on a swing-joint connection
- Adjustable carrying strap with quick-fastening clip system
- Professional PROFILE-type lance handle
- Hose length : 1 m
- 40 cm aluminium lance
- Supplied with 3in1 multi-jet nozzle for all types of treatment

GARANTIE
GUARANTEE
5 ANS
YEARS



FLORALY 7 OPTIMA

Plant care 101451 / 100-002-551

Medium-sized gardens :
200 to 700 m²

- Total tank capacity : 7.2 L, usable capacity : 5 L
- Fixed and off-centre manual pressure pump with nitrile seals
- 3 Bar safety value
- Wide opening on reservoir separate from the pump (diameter : 80 mm)
- Multi-compartment measuring cap : 7 dosage possibilities (2, 3, 4, 5, 10, 20 and 40 ml)
- Nozzle outlet mounted on a swing-joint connection
- Adjustable carrying strap with quick-fastening clip system
- Professional PROFILE-type lance handle.
- Hose length : 1 m
- 40 cm aluminium lance
- Supplied with 3in1 multi-jet nozzle for all types of treatment

GARANTIE
GUARANTEE
5 ANS
YEARS



FLORALY 7 OPTIMA

DIY 101452 / 100-002-552

For treatment of wood and framework, shutters, moss control of roofs and paths etc.

- Total tank capacity : 7.2 L, usable capacity : 5 L
- Fixed and off centre manual pressure pump with seals that are resistant to hydrocarbon based solvents
- 3 Bar safety value
- Wide opening on reservoir separate from the pump (diameter: 80mm)
- Multi-compartment measuring cap : 7dosage possibilities (2, 3, 4, 5, 10, 20 and 40ml)
- Nozzle outlet mounted on a swing-joint connection
- Adjustable carrying strap with quick-fastening clip system
- Professional PROFILE-type lance
- Handle with resistant seals
- Hose length: 1m
- 40 cm composite lance with flexible
- End socket
- Multi-purpose, adjustable nozzle holder with integrated swirl plate
- Delivered with professional flat fan nozzle

GARANTIE
GUARANTEE
5 ANS
YEARS



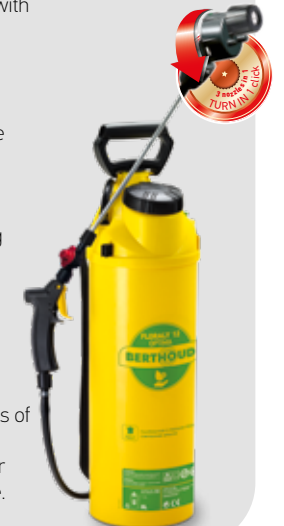
FLORALY 12 OPTIMA

Plant care 101453 / 100-002-553

For large gardens :
> 500 m²

- Total tank capacity : 11.5L, usable capacity : 8 L
- Fixed and off-centre manual pressure pump with nitrile seals
- 3 Bar safety value
- Wide opening on reservoir separate from the pump (diameter : 80 mm)
- Multi-compartment measuring cap : 7 dosage possibilities (2, 3, 4, 5, 10, 20 and 40 ml)
- Nozzle outlet mounted on a swing-joint connection
- Adjustable carrying strap with quick-fastening clip system
- Professional PROFILE-type lance handle
- Hose length : 1.35 m
- 60 cm aluminium lance
- Multi-purpose, adjustable nozzle holder with integrated swirl plate
- Supplied with 3in1 multi-jet nozzle for all types of treatment
- Fitted with a 1 Bar pressure regulator, ideal for weed control treatments and constant dosage.

GARANTIE
GUARANTEE
5 ANS
YEARS



Article name	Reference	EAN code	Item weight (kg)	N°units	Box		Pallet		
					Dimensions W x D x H (mm)	Weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes / layer
FLORALY 5 Optima	100-002-550	3176241014506	1,44	1	200 x 195 x 430	1,64	1200 x 800 x 2300	4	24 (+9)
FLORALY 7 Optima	100-002-551	3176241014513	1,55	1	200 x 195 x 520	1,82	1200 x 800 x 2230	4	24
FLORALY 7 Optima DIY	100-002-552	3176241014520	1,58	1	200 x 195 x 520	1,85	1200 x 800 x 2230	4	24
FLORALY 12 Optima	100-002-553	3176241014537	2,08	1	200 x 195 x 685	2,43	1200 x 800 x 2205	3	24



ELYTE PRO



The most advanced compression sprayers on the market

Although the latest consumer studies classed the ELYTE N°1 range well ahead of all its competitors, the range is being developed further to become by far the most advanced on the market.

It is being improved in all aspects: ease of use, comfort and usable capacity. It is still available in two formats (6 L and 8 L). Gardener and DIY fans will be happy to know that it comes in two versions: 'Plant care' and 'DIY'.

Adjustable conical jet nozzle

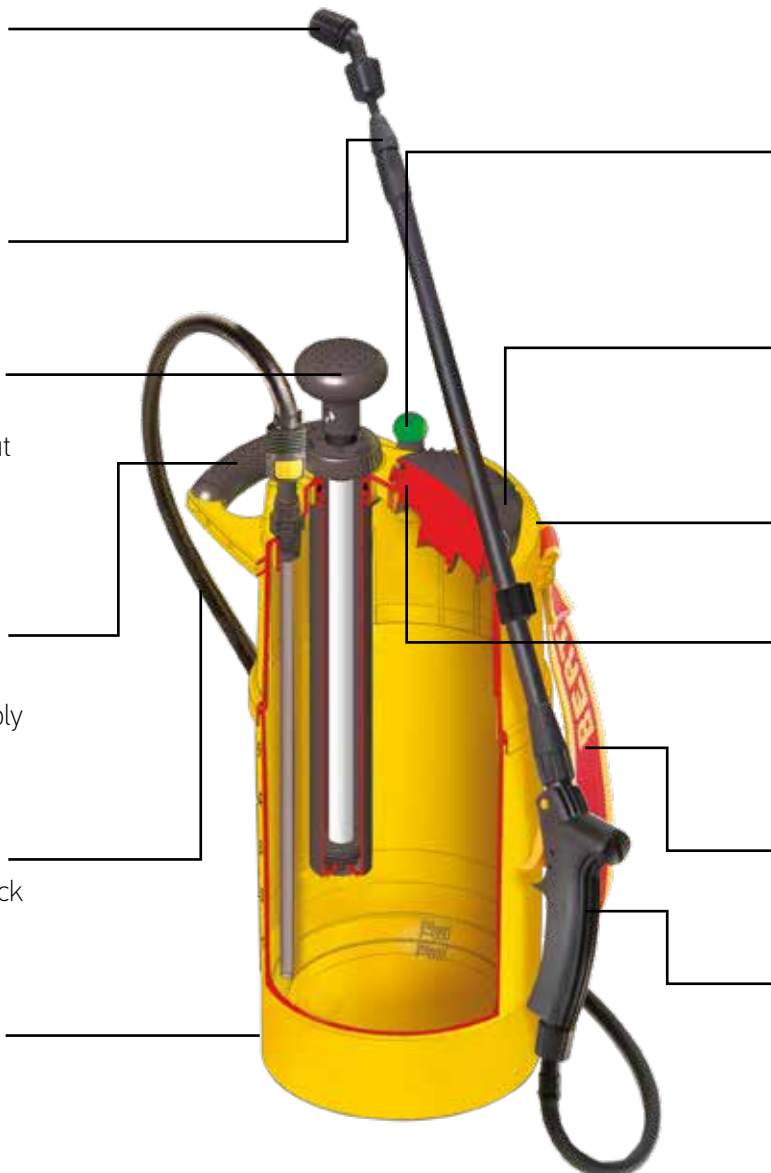
Composite telescopic lance (50/100cm) for close-up treatment with lance clip for easy storage

Pressurising pump fixe with aluminium rod, designed for unique pumping comfort without effort

Large side handle for easy handling and carrying

Hose and nozzle assembly is easy to handle and detach thanks to a high-strength braided hose and a nozzle outlet mounted on a swivel quick coupling

Graduated translucent tank



Safety valve set at 3 Bar to avoid overpressure when pumping and allowing easy decompression of the sprayer

Large orifice for easy filling and mixing

Tank without retention area for easy and complete emptying

Cap with integrated dosing device (2,3,4,5,10,20 and 40ml) for easy and accurate dosing

Wide, length-adjustable shoulder strap for comfortable carrying

Ergonomic PROFILE-type professional lance handle with integrated filtre which ensures a high level of user comfort

ELYTE PRO

Technical characteristics and advantages for the user

FOR EASIER USE

	Characteristics	Advantages for the user
	Specific ELYTE pump	Unbeatable operational ease and comfort
	Wide opening separate from the pump	Easier filling, mixing and emptying
	Multi-purpose side handle	Very useful for each operational phase (pressurization, use, emptying rinsing/cleaning, storage)
	Shape of head without retention zone on emptying	Easy, quick and complete emptying
	Measuring cap (7 dosage possibilities : 2, 3, 4, 5, 10, 20 and 40 ml)	Easy and precise dosage
	Slide rail for easy storage of the lance	Easy storage of the lance. Simplified storage
	New professional nozzle with integrated nut	Practical to use, easy to change
	Quick release hose connection	Easier transport and storage
	Translucent reservoir	Visible liquid level
	Composite telescopic lance	For treatment as near as possible to the target area

FOR BETTER SAFETY

	Characteristics	Advantages for the user
	Fixed, off centre pump	User safety : no more need to take it off for filling and emptying
	Metal pump rod	Excellent perceived quality and robustness
	New valve with maximum pressure level indicator (< 3 Bar) and sprayer decompression	No risk of excess pressure on pumping. Quick and easy decompression of the equipment.
	Large diameter cylindrical reservoir with graduated gauge	Higher effective usable capacity : 6 litres (instead of 5 litres). Excellent stability on the ground

FOR INCREASED COMFORT

	Characteristics	Advantages for the user
	Pommel-type pump handle	Comfortable to pump and aesthetic
	Quick release connector	Easier to handle the hose/pump unit
	Wide adjustable shoulder trap	Comfortable to carry
	Professional, ergonomic, PROFILE-type lance handle and integrated filter	Ensures a natural wrist and hand position



ELYTE 8 PRO

Plant Care

101001 / 100-000-025

For average and large sized gardens: 200 to 1200 m²

- Total reservoir capacity : 8.5 L, usable capacity : 6 L
- 3 Bar safety value
- Fixed and off-centre manual pressure pump
- Aluminium pump rod
- Wide opening on reservoir separate from pump (diameter : 80 mm)
- Measuring cap (7 dosage possibilities)
- Quick release connector for the hose
- Adjustable carrying strap
- Braided hose 8 x 12 length 1.35 m
- Professional PROFILE-type lance handle
- 0.5 / 1 m strong and chemically resistant composite telescopic lance
- Multi-purpose, adjustable nozzle holder with integrated swirl plate
- Delivered with professional swirl nozzle with conical jet

GARANTIE
GUARANTEE
5 ANS
YEARS



ELYTE 8 PRO

DIY

101003 / 100-002-510

For treatment of wood and framework, shutters, moss control of roofs and paths etc...

- Total reservoir capacity : 8.5 L, usable capacity : 6 L
- 3 Bar safety value
- Fixed, off-centre manual pressure pump with UHR (Ultra-High Resistance) seals
- Brass pump rod
- Wide opening on reservoir separate from pump (diameter : 80 mm)
- Measuring cap (7 dosage possibilities)
- Quick release connector for hose
- Adjustable carrying strap
- Braided hose 8 x 12 mm length 1.35 m
- Professional PROFILE-type lance handle
- 60 cm strong and chemically resistant composite lance with flexible tip
- Multi-purpose, adjustable nozzle holder with integrated brush-type swirl plate
- Delivered with professional flat fan nozzle

GARANTIE
GUARANTEE
5 ANS
YEARS



ELYTE 14 PRO EXPORT

Plant Care

101014 / 100-002-513

**For large gardens :
> 500 m²**

- Total reservoir capacity : 13,75 L, usable capacity : 8 L
- 3 Bar safety value
- Fixed, off-centre manual pressure pump
- Aluminium pump rod
- Wide opening on reservoir separate from pump (diameter : 80 mm)
- Measuring cap (7 dosage possibilities)
- Quick release connector for hose
- Adjustable carrying strap
- Braided hose 8 x 12 mm length 1.35 m
- Professional PROFILE-type lance handle
- 40 cm strong brass lance
- Multi-purpose, adjustable nozzle holder with integrated brush-type swirl plate
- Delivered with professional flat fan nozzle
- Equipped with a 1 Bar pressure regulator, ideal for weed control treatments and for constant dosage

GARANTIE
GUARANTEE
5 ANS
YEARS



Brass lance



Fixed connection

Article Name	Reference	EAN code	Item weight (kg)	N° units	Box		Pallet		
					Dimensions W x D x H (mm)	weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes / layer
Elyte 8 Pro	100-000-025	3176241010010	1,81	1	250 x 195 x 520	2,09	1200 x 800 x 2230	4	19
Elyte 8 Pro DIY	100-002-510	3176241010034	1,84	1	250 x 195 x 520	2,12	1200 x 800 x 2230	4	19
Elyte 14 Pro Export	100-002-513	3176241010140	2,26	1	260 x 210 x 700	2,50	1200 x 800 x 2520	3	19



COSMOS 18 PRO

102215 / 100-000-051



GARANTIE
GUARANTEE
5 ANS
YEARS



Comfort and performance

A reference product for spraying professionals, the BERTHOUD brand has successfully launched the new generation of COSMOS 18, a guarantee of reliability and robustness.

It is now more comfortable to improve working conditions for users.

PERFORMANCE

- High performance pump up to 6 Bar pressure
- Product mixer integrated into the pump to better blend the mixture

COMFORT

- Carrying handle for easy transport
- Lance holder for easy storage
- Equipment well adjusted for the back
- Reversible left/right pump lever
- Pump with less effort
- Natural position of the wrist and hand using the Profile handle
- Equipped with a 1 Bar pressure regulator, ideal for weed control treatments and for constant dosage

EASE OF USE

- Large diameter filler opening
- Sloping tank base prevents residual liquid at the end of the treatment
- Translucent graduated tank
- Easy to assemble and maintain
- Large volume anti-splash filter for quick filling

For large gardens, orchards, vineyards, etc.

- Large diameter 125 mm filler opening
- Sloping tank bottom
- Carry handle
- Slide for easy storage of lance
- Adjustable, foam-reinforced shoulder straps
- 18-litre translucent polypropylene tank
- 6 bar manual pressurisation pump
- Right/left reversible pump lever
- High-strength hose
- Open/close control handle with integrated PROFILE-type filter
- 60 cm aluminium lance
- Adjustable universal nozzle holder accepts all types of professional nozzles
- 3-in-1 multi-jet nozzle for all types of treatment
- Fitted with a 1 Bar pressure regulator, ideal for weed control treatments and constant dosage.



TIP N°3

“Adjust the dose according to the severity of the disease. Take preventive action but keep an eye on the disease and how it spreads. You have to know when to leave it alone and when to act.”

Article Name	Reference	EAN code	Item weight (kg)	N° units	Box		Pallet		
					Dimensions W x D x H (mm)	weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes / layer
Cosmos 18 Pro	100-000-051	3176241022150	3,72	1	450 x 170 x 505	4,15	1200 x 800 x 2170	4	11



COSMOS 18 PRO

102215 / 100-000-051

GARANTIE
GUARANTEE
5 ANS
YEARS

Ideal for larger gardens, orchards, vineyards, etc

- Filling opening large diameter 125 mm
- Inclined tank bottom
- Carrying handle
- Slide for easy storage of the spear
- Foam-reinforced and adjustable straps
- Translucent polypropylene tank, capacity 18 L
- Manual pressurisation pump 6 Bar
- Reversible pump lever right/left
- High-strength hose
- Opening/closing control handle with integrated filter type PROFILE
- 60 cm aluminium lance
- Adjustable universal nozzle holder accepts all types of professional nozzles
- Supplied with 3-in-1 multi-jet nozzle for all types of treatment



Article name	Reference	EAN code	Item weight (kg)	N° units	Box		Pallet		
					Dimensions W x D x H (mm)	Poids brut (kg)	Dimensions L x P x H (mm)	N° layers	Nb Boxe / layer
Cosmos 18 Pro	100-000-051	3176241022150	3,72	1	450 x 170 x 505	4,15	1200 x 800 x 2170	4	11



VERMOREL



A unique concept

- A renowned name amongst professionals thanks to 3 major assets
- Exceptional carrying comfort new **safety harness**
 - **High performance** diaphragm and curvilinear piston pump
 - **A level of features never seen** before (notably for the Vermorel 2000 Pro Comfort)

PERFORMANCE

- Diaphragm pump for quick pressurization and low pumping frequency
- Viton seals for use with aggressive products
- Up to 5 Bar pressure

PRECISION

- Fine drops, adjustable nozzle holder
- Pressure regulator for treating at the right pressure (from 1 to 5 Bar)
- 1m telescopic lance to treat closer to the target
- 3 nozzle kit to suit the treatment required

EASY TO MAINTAIN

- Quick and easy to disassemble



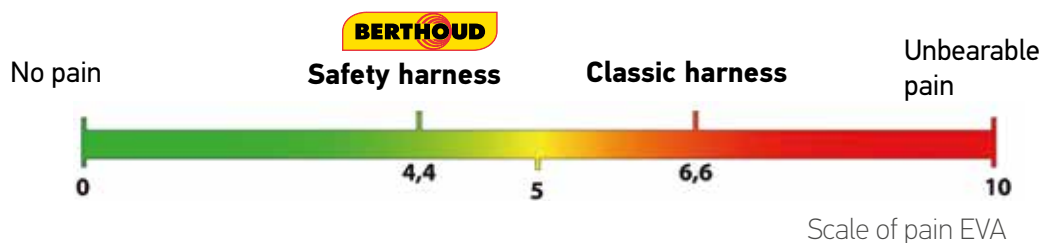
TIP N°4

“Apply weed killer in autumn when the sap is returning to the roots. Treatment is more effective and you use less weed killer.”

SAFETY HARNESS

ON THE VERMOREL 2000 PRO CONFORT AND VERMOREL 3000 ELECTRIC MODELS'

- 1 year of studies and tests to determine the impact of wearing the sprayer on the back, with the hospital center of Villefranche-sur-Saône (Rhône, France)
- Development of a new carrying system that protects the back, allowing a longer and improved working period.
 - Reduce negative impacts on the spine and pelvis
 - Significant reduction in arduousness caused by the sprayer



Reinforced back support

- No direct contact with the tank for improved comfort



Adjustable straps with reinforced foam and tensioners

- Adjusts to the user's body shape
- Protects the user's shoulders



Adjustable waist strap and reinforced back

- Sprayer weight distribution : 70% on the hips / 30% on the shoulders
- Ensures sprayer stability

Chest strap

- Sprayer weight distribution : 70% on the hips / 30% on the shoulders
- Ensures sprayer stability



VERMOREL 1800

102084 / 100-002-592

For large gardens, orchards, trees and shrubs etc...

- Reservoir: capacity : 16 L with visible liquid level
- Ergonomic back frame, which perfectly fits the shape of your back
- Adjustable double shoulder straps
- Reversible left/right pump lever with 2 positions : storage and in operation (inclined position)
- High-performance diaphragm pump with curved piston (ease of handling and low pumping rate)
- Professional 'PROFILE'-type lance handle (comfort and accuracy)
- 60 cm composite lance with high mechanical and chemical resistance
- Multi-purpose adjustable nozzle holder
- Delivered with swirl nozzle and 15/10 plate
- Equipped with a 1 Bar pressure regulator, ideal for weed control treatments and for constant dosage



TIP N°5

For optimum treatment :

- To avoid chemical waste do not overpray
- Target usage precisely
- Avoid hot weather



VERMOREL 2000 PRO CONFORT

102022 / 100-002-588

For large gardens, orchards, trees and shrubs etc...

- Reservoir capacity : 16 L with visible liquid level
- Ergonomic back frame, which perfectly fits the shape of your back
- Reversible left/right pump lever, adjustable in all positions (for width and height – by notches of 10°)
- High-performance diaphragm pump with curved piston
- Pressure relief valve, adjustable from 0 to 5 Bar for a constant dosage
- Professional 'PROFILE'-type lance handle
- Composite telescopic lance, 60 cm / 100 cm, with high mechanical and chemical resistance
- Multi-purpose adjustable nozzle holder
- Delivered with the following equipment : 1 multipurpose, adjustable nozzle holder equipped with original swirl nozzle with 15/10 plate, a blue flat fan nozzle and a blue anvil nozzle



Article Name	Reference	EAN code	Item weight (kg)	Box			Pallet		
				N° units	Dimensions W x D x H (mm)	weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes /layer
Vermorel 1800	100-002-592	3176241020842	5,10	1	390 x 285 x 615	5,67	1200 x 800 x 1995	3	8
Vermorel 2000 Pro Confort	100-002-588	3176241020224	5,97	1	390 x 285 x 615	6,54	1200 x 800 x 1995	3	8



VERMOREL 3000 ELECTRIC



BERTHOUD's innovation : The new ELECTRIC VERMOREL 3000, the reference in the market for electric sprayers

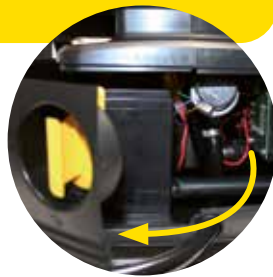


COMFORT

- Comfort harness for optimum comfort during prolonged use
- Optimised design for a lighter weight product. 6.2kg with battery

MAINTENANCE

- Easy access to battery / pump assembly



PERFORMANCES

- Lithium-ion battery for long lifespan
- From 3 to 6.5 hours duration depending on the chosen pressure
- Twin diaphragm pump and Viton seals Max flow: 2.6L/min
- Compatible with the full range of Berthoud accessories (including spray Bar)

PRECISION

- Choice of 3 pressure settings
- Electronic pressure control for precise and constant spray
- Battery charge level indicator
- Immediate stop/start spraying trigger control

Article name	Reference	EAN code	Item weight (kg)	N° units	Box		Pallet		
					Dimensions W x D x H (mm)	weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes/layer
Vermorel 3000 Electric	100-002-599	3176241021399	6,2	1	390 x 285 x 615	6,9	1200 x 800 x 1995	3	8
Vermorel 3000 Electric UK	100-002-600	3176241021405	6,2	1	390 x 285 x 615	6,9	1200 x 800 x 1995	3	8
Vermorel 3000 Electric on cart	100-002-601	3176241021412	9,3	1	390 x 285 x 615	10	1200 x 800 x 1995	3	8

ELECTRIC SPRAYERS



Supplied with 3 nozzles (Cone 15/10°, fan-blue and mirror-brown)

Chemical resistant telescopic lance (60cm - 100cm)

Ergonomic back frame, which perfectly fits the shape of your back and is supplied with comfort harness for optimum comfort during prolonged use



High performance twin diaphragm electric pump. Viton seals for the application of aggressive chemicals

Professional ergonomic lance handle with built-in filter that makes for very comfortable use.

Translucent 18L tank with graduated gauge.

Tank with large filling orifice (125mm) and without retention area for fast filling and complete emptying.



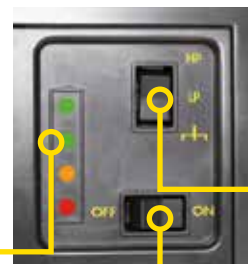
12V lithium-ion battery
Autonomy: 3 to 6.5 hours depending on the chosen pressure

Rapid battery charger with charge indicator (2.5 hours max)



Battery charge level indicator (4 LEDs)

- 75 to 100%
- 50 to 75%
- 25 to 50%
- 20 to 25%



3 Pressure selectors :

- High Pressure (3 Bar)
- Low Pressure (1,5 Bar)
- Rampe (1 Bar, big flow)

Switch ON /OFF

Available with large wheeled cart for easy manoeuvrability and 5m hose



Type of spray	Nozzle	Pressure selector	Features		Battery life
			Flow (L/min)	Pressure (Bar)	Hours
	Cone 15/10°	HP	0,7	3,2	3,5
		LP	0,8	1,2	6,5
	Fan-blue	⊕ Boom	0,9	1,7	4
		LP	1,2	1,2	4
	Mirror brown	⊕ Boom	1,4	1,7	3,3
		LP	1,39	1,5	3

Nozzle output table in litres/minute

NB: nozzle references are given in the spare parts catalogues



HOLLOW CONE NOZZLES

Conical jets for applying insecticide or fungicide treatments

	200-001-400	200-001-401	200-001-402	100-003-208	200-001-403	100-003-209	200-001-404
	Ø 8/10e	Ø 10/10e	Ø 12/10e	Ø 15/10e	Ø 18/10e	Ø 20/10e	Ø 25/10e
Pression							
1 Bar	0,185	0,235	0,275	0,395	0,470	0,515	0,680
2 Bar	0,250	0,300	0,385	0,535	0,660	0,720	0,980
3 Bar	0,300	0,360	0,470	0,660	0,795	0,870	1,155

FLAT FAN NOZZLES



Small width flat jets for localised weeding as well as specific treatments (wood treatment, roof moss control...)

	100-003-215	100-003-216	200-001-415	200-000-000	200-001-416
	ORANGE	VERT	JAUNE	BLEU	ROUGE
Pression					
1 Bar	0,250	0,360	0,560	0,840	1,120
2 Bar	0,340	0,500	0,650	0,970	1,290
2,5 Bar	0,380	0,560	0,720	1,080	1,440
3 Bar	0,420	0,600	0,790	1,180	1,580
Angle	80°	80°	80°	80°	110°



3-in1 MULTI-JET NOZZLE

		Pressure (Bar)		
		1 Bar	2 Bar	3 Bar
		Flow rate (l/min)		
1		0,9	1,2	1,5
		0,5	0,6	0,7
2		0,5	0,7	0,9
3		0,9	1,2	1,4

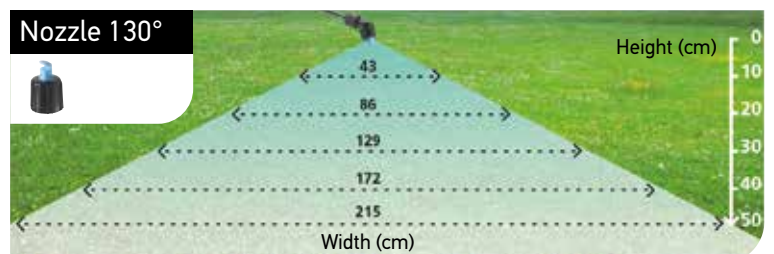
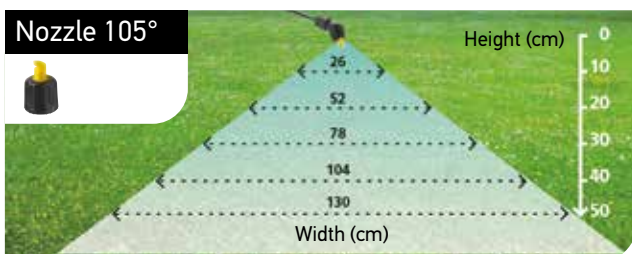
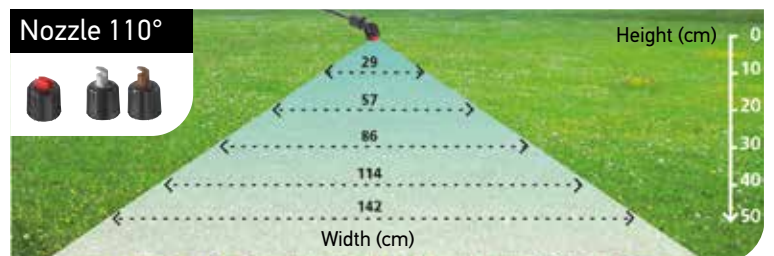
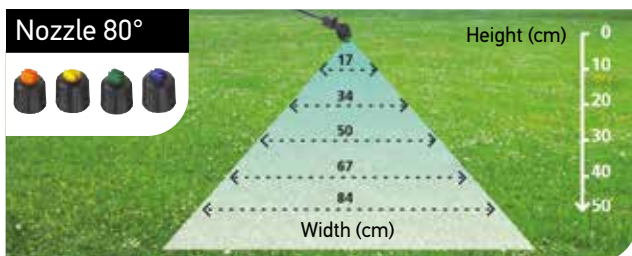


ANVIL NOZZLES

Conical jets for applying insecticide or fungicide treatments




	200-001-414	200-001-412	100-003-217	100-003-218
	JAUNE	MARRON	GRIS	BLEU
Pression				
1 Bar	0,460	1,150	1,390	2,310
1,5 Bar	0,570	1,410	1,700	2,830
2 Bar	0,650	1,630	1,960	3,270
2,5 Bar	0,730	1,830	2,190	3,650
Angle	105°	110°	110°	135°

Nozzle to target distance



Calibration : formule

$$\frac{\text{Flow (L/min)} \times 10\,000}{\text{Swath (m)} \times \text{speed (m/min)}} = \text{Volume (L/ha)}$$

	Reference	Nozzle	Pressure (Bar)	Swath (cm)	Flow L/min	Volume rate L/ha
	200-001-400	8/10°	2	20	0,245	204,17
	200-001-401	10/10°	2	25	0,300	200,00
	200-001-402	12/10°	2	35	0,385	183,33
	100-003-208	15/10°	2	60	0,535	148,61
	200-001-403	18/10°	2	80	0,660	137,50
	100-003-209	20/10°	2	80	0,720	162,50
	200-001-404	25/10°	2	80	0,980	204,17
	100-003-215	80°	2	84	0,340	283,34
	100-003-216	80°	2	84	0,500	99,21
	200-001-415	80°	2	84	0,650	128,97
	200-000-000	80°	2	84	0,970	192,46
	200-001-416	110°	2	143	1,290	150,35
	200-001-414	105°	2	130	0,650	73,08
	200-001-412	110°	2	143	1,630	164,34
	100-003-217	110°	2	143	1,700	198,14
	100-003-218	130°	2	215	2,830	219,38

Accessories : sprayer nozzles

HOLLOW CONE NOZZLE KIT

200560 / 100-002-989

with 4 mist jets (10, 12, 15 and 18/10)



HERBICIDE NOZZLE KIT

200601 / 100-002-990

with 3 flat fan and 2 anvil nozzles



NOZZLE KIT FOR ALL TREATMENTS

211324 / 100-003-002

with 2 mist jet nozzles (8 and 15/10), 1 flat fan and 1 anvil nozzle



3-IN-1 MULTI-JET NOZZLE KIT

100-100-651

3-in-1 multi-jet nozzle for all types of treatment



BERTHOUD also has a complete range of accessories for better treatments, greater ease and safety

A range of accessories that meets the needs for versatility of professional consumers. The new packaging makes it possible to make your choice very clearly.

GIANT COMPOSITE TELESCOPIC LANCES

Version 2,40m : **280326 / 100-003-171**
Version 3,60m : **282447 / 100-003-210**



All park and garden owners know that trees need to be treated at least twice a year (sometimes 3 times in the case of fruit trees): once in winter (winter treatment) then in the spring after flowering ("fruit worm").

Most mature trees are over 4/5 m high and standard spraying equipment is not adequate for treatment above that height. Giant telescopic lances made of BERTHOUD composite materials can be extended to 2.4 m or 3.6m.

They are the perfect tools for these jobs. They are light, rigid and strong. They are also highly chemical resistant and mechanically tough. They can also be used for treating rooves (moss control), a requirement for all house owners

Send with hose, quick connect and PROFILE handle, 2.40 or 3.60 m long



COMPOSITE SPRAYER LANCE and PROFILE HANDLE

280327 / 100-003-172

- Profile handle Viton seals for aggressive products
- Hose fittings
- 2 x 40cm composite tubes with connector
- Flat jet brush nozzle (treatment width up to 84 cm)



UNIVERSAL SPRAYER LANCE and PROFILE HANDLE

280324 / 100-003-170

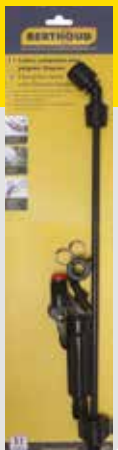
- Profile handle nitrile seals
- Hose fittings
- 40cm aluminium tube
- Conical nozzle with adjustable jet



COMPOSITE SPRAYER LANCE and STOPREX HANDLE

211665 / 100-003-005

- Stoprex handle with for continuous spraying, nitrile seals
- Hose fittings
- 40cm composite tube
- Conical nozzle with adjustable jet



PROFILE HANDLE

280310 / 100-003-168

Ergonomic : handle / lance angle ensures a natural wrist position

Reliable : valve closure system perpendicular to liquid flow

Easy maintenance : spring, seals and valve unscrew easily

Compatible : with lances with stoprex thread including "giant" telescopic composite lances 2.40 m and 3.60 m length

Possibility to fit accessories : pressure gauge, pressure regulator

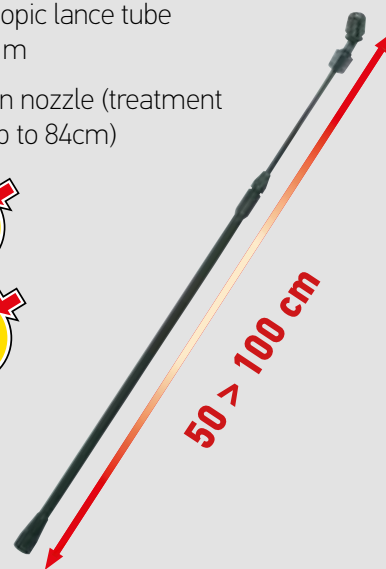


TELESCOPIC SPRAY LANCES

280362 / 100-003-173

- Telescopic lance tube 0.5 → 1m

- Flat fan nozzle (treatment width up to 84cm)



STOPREX HANDLE

212370 / 100-003-011

Hand-operated for all sprayers
Allows continuous spraying



60 CM LANCE EXTENSIONS

280363 / 100-003-174

280364 / 100-003-175

Profile grip-compatible 60 cm composite lance extension

100-003-174



Profile grip-compatible 60 cm aluminium lance extension

100-003-175



TIP N°6

“ For insecticides and fungicides, vaporize in very fine droplets. When using contact products, also treat the backs of leaves and the stalks and branches.

For winter treatment, apply the product until it runs off and soaks into the bark, where parasites hibernate.”

REFERENCES	SPRAY LANCE GRIP		LANCETUBES	LANCE EXTENSIONS	
	PROFILE	STOPREX	100-003-173	100-003-174	100-003-175
PROFILE	-	-	✓	✓	✓
STOPREX	-	-	✓	-	-
100-003-173	✓	✓	-	✓	✓
100-003-174	✓	-	✓	✓	-
100-003-175	✓	-	✓	✓	-

✓ compatible

- not compatible

NO-DRIP 1 BAR PRESSURE REGULATOR

283983 / 100-003-404



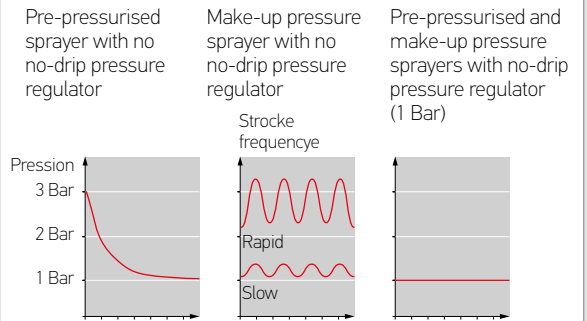
Pressure regulators help you protect the environment (and save you money)

- Our pressure regulators:
- Ensure you always have the right pressure of 1 Bar at the nozzle tip
- Can save up to 50% on chemicals
- Ensure dosage stability
- Protect the environment by preventing overspraying
- Used with pre-pressurised sprayers, will extend acreage covered
- Used with pressure sprayers, will reduce the number of pump strokes required
- Can be used with all commercially available professional nozzle tips
- Integrated anti-drip system



100-003-404

WORKING PRESSURE FLUCTUATIONS CAUSE RANDOM DOSAGE



BOOMS

Booms convert a single-nozzle spray lance into a multi-nozzle lance to treat a large surface in one go.

2 sprays : sprays two rows in a single run

3 sprays : wide-boom herbicide treatment

4 sprays : very wide boom herbicide spraying



SPRAY BOOMS WITH 2 SWIVELMOUNTED NOZZLES
220516 / 100-003-028



3-NOZZLE HERBICIDE BOOM
255044 / 100-003-086



4-NOZZLE HERBICIDE BOOM
215071 / 100-003-014

HERBICIDE SPRAY SHIELD

455004 / 100-003-535

Large-model spray shield for safe, effective spot application of herbicides
To be used with the flat fan nozzle



TIP N°7

“For spot weed killing, use a shield and do not spray when it is windy.

This prevents splashing and stops the weed killer drifting onto other plants.”

SILICONE GREASE SYRINGUE

219374 / 100-003-021

At least once or twice a year, or more if the sprayer is used intensively, it is necessary to grease all the seals (10g)



TIP N°8

“Never pour left-over treatment products down the public drains.

Unused chemicals must be sent to a specialist collection centre.

Tank dregs and rinsing water should be spread on a gravel driveway or directly on the soil.”

TIP N°9

“For optimum treatment, keep to the recommended dose and treat local areas. Applying excess product does not improve performance in any way.

The doses stated on the packaging have been tested for effectiveness and for minimum danger to the environment.”

SPARE ACCESSORIES

PUMP SEALS

282872 / 100-003-280

F5, F7 ET F12
FLORALY OPTIMA
DIY



PUMP SEALS

219803 / 100-003-027

ELYTE
ALL VERSIONS



PUMP SEALS

100-100-657

ELYTE ULTRA MAX
(EPDM seals)



REPLACEMENT PARTS

218343 /
100-003-016

COSMOS 18 PRO



REPLACEMENT PARTS

212310 /
100-003-009

VERMOREL MANUEL
ALL VERSIONS





F1 DIY

101135 / 100-002-525

For the house, the garden and for DIY

- Polyethylene reservoir with graduated gauge : capacity 1L
- Watertight neck
- Swirl nozzle with adjustable and sealable jet
- Large base for good stability (even when empty)
- Sealable nozzle that can be locked ("child safe")
- Full-grip trigger



ELYTE 2 360° EPDM

100-100-633

Special vinegar and disinfection

- Translucent, graduated tank with total capacity of 2 L, useful capacity: 1.5L
- Ergonomic pump knob for easy pressurisation
- Pump with metal shaft
- Handle with locking button for continuous spraying
- Anti-theft nozzle
- Equipped with EPDM seals, resistant to alkaline products including vinegar
- 360° function for spraying upside down



GARANTIE
GUARANTEE
2 ANS
YEARS

JOINTS
EPDM
SEALS

UTILISATION PRODUITS
CHLORES, ALCALINS
USE ALKALINE,
CHLORINATED PRODUCTS



ELYTE 8 LANCE INOX

102106 /
100-002-594

Application of chlorinated disinfectants (bleach, certain acids)

- Translucent yellow injected polypropylene reservoir with graduated gauge, effective capacity: 5 L
- Stainless steel pump rod and valve with EPDM seals
- Flexible reinforced hose
- Professional PROFILE lance handle with EPDM seals and stainless steel needle valve
- Stainless steel lance tube, length 60 cm
- Stainless steel nozzle with adjustable jet
- Equipped with a hollow cone nozzle and a orange 110 flat fan nozzle



Carrying and holding handle



Fixed and off-centre pressurizing pump. Stainless steel rod



Large upper hole for easy filling and emptying

JOINTS
EPDM
SEALS

UTILISATION PRODUITS
CHLORES, ALCALINS
USE ALKALINE,
CHLORINATED PRODUCTS



Article name	Reference	EAN code	Item weight (kg)	N° units	Box		Pallet		
					Dimensions W x D x H (mm)	weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes/layer
F1 DIY	100-002-525	3176241011352	0,12	28	800 x 400 x 250	4,3	1200 x 800 x 2150	8	3
ELYTE 2 360° EPDM	100-100-633	3176245001069	0,60	6	295 x 400 x 320	4,00	1200 x 800 x 1700	8	6
Elyte 8 Lance inox	100-002-594	3176241021061	2,2	1	250 x 200 x 690	2,4	1200 x 800 x 1800	3	19

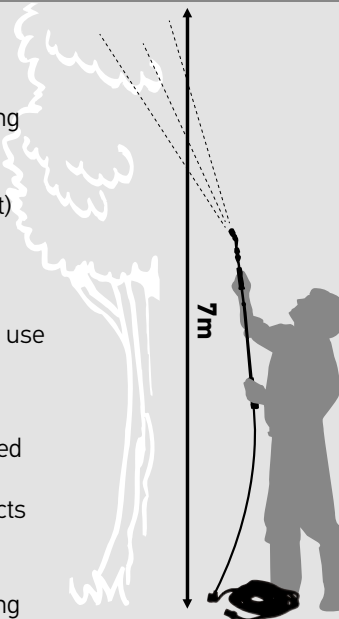


SERINGA

101025 / 100-002-514

For all treatments at heights of up to 7m (straight spray)

- Double action syringe sprayer operating in both directions
- 2 multi-functional nozzles (turbulence and blue brush type flat jet)
- 10 m hose
- High operating pressure (8 to 10 Bar depending on the pumping rate)
- Can be connected to a sprayer hose to use the tank as a reservoir
- 60 cm lance extension for better accessibility to accessibility of the areas to be treated
- Viton seals for better resistance to hydrocarbon and solvent based products
- Clamp to secure the hose to the edge of the tank
- Strainer to filter liquids without clogging



GARANTIE
GUARANTEE
5 ANS
YEARS

JOINTS
VITON
SEALS
UTILISATION INTENSIVE
HAUTE RESISTANCE
INTERMEDIATE USE



COSMOS 18 PRO SPECIAL DISINFECTION

102216 / 100-002-606

Disinfection of enclosed spaces, public areas, gymnasiums, changing rooms, etc.

- Filling opening large diameter 125 mm
- Inclined tank bottom
- Carrying handle
- Slide for easy storage of the spear
- Foam-reinforced and adjustable straps
- Translucent polypropylene tank, capacity 18 L
- Manual pressurisation pump 6 Bar
- Reversible pump lever right/left
- High-strength hose
- Opening/closing control handle with integrated filter type PROFILE
- 60 cm fibreglass lance
- Adjustable universal nozzle holder for all types of professional nozzles
- Supplied with adjustable
- Equipped with a 1 Bar pressure regulator, ideal for weed control treatments and for constant dosage



GARANTIE
GUARANTEE
5 ANS
YEARS

JOINTS
VITON
SEALS
UTILISATION INTENSIVE
HAUTE RESISTANCE
INTERMEDIATE USE

























Article name	Reference	EAN code	Item weight (kg)	N° units	Box		Pallet		
					Dimensions W x D x H (mm)	weight (kg)	Dimensions W x D x H (mm)	N° layers	N° boxes/layer
Cosmos 18 Pro Special disinfection	100-002-606	3176241022167	3,7	1	450 x 170 x 505	4,2	1202 x 800 x 2170	4	11
Seringa	100-002-514	3176241010256	1,25	1	60 x 170 x 610	1,4	1201 x 800 x 1500	16	9
















PRODUCT INFORMATIONS

	PRODUCT FAMILY	ARTICLE NAME	CODE	EAN CODE	BARCODE	PCB
SPRAYERS						
	HANDHELD SPRAYERS	F1DIY	101135 / 100-002-525	3176241011352		28
		F1 PLUS	101210 / 100-002-534	3176241012106		12
	HANDHELD PRESSURE SPRAYERS	ELYTE 2 360°	100-100-677	3176245001052		6
		ELYTE 2 DIY	101751 / 100-000-043	3176241017514		6
		ELYTE 2 EPDM 360°	100-100-633	3176245001069		4
	PRESSURE SPRAYERS	FLORALY 5 OPTIMA	101450 / 100-002-550	3176241014506		4
		FLORALY 7 OPTIMA	101451 / 100-002-551	3176241014513		4
		FLORALY 7 OPTIMA DIY	101452 / 100-002-552	3176241014520		4
		FLORALY 12 OPTIMA	101453 / 100-002-553	3176241014537		4



















PRODUCT INFORMATIONS

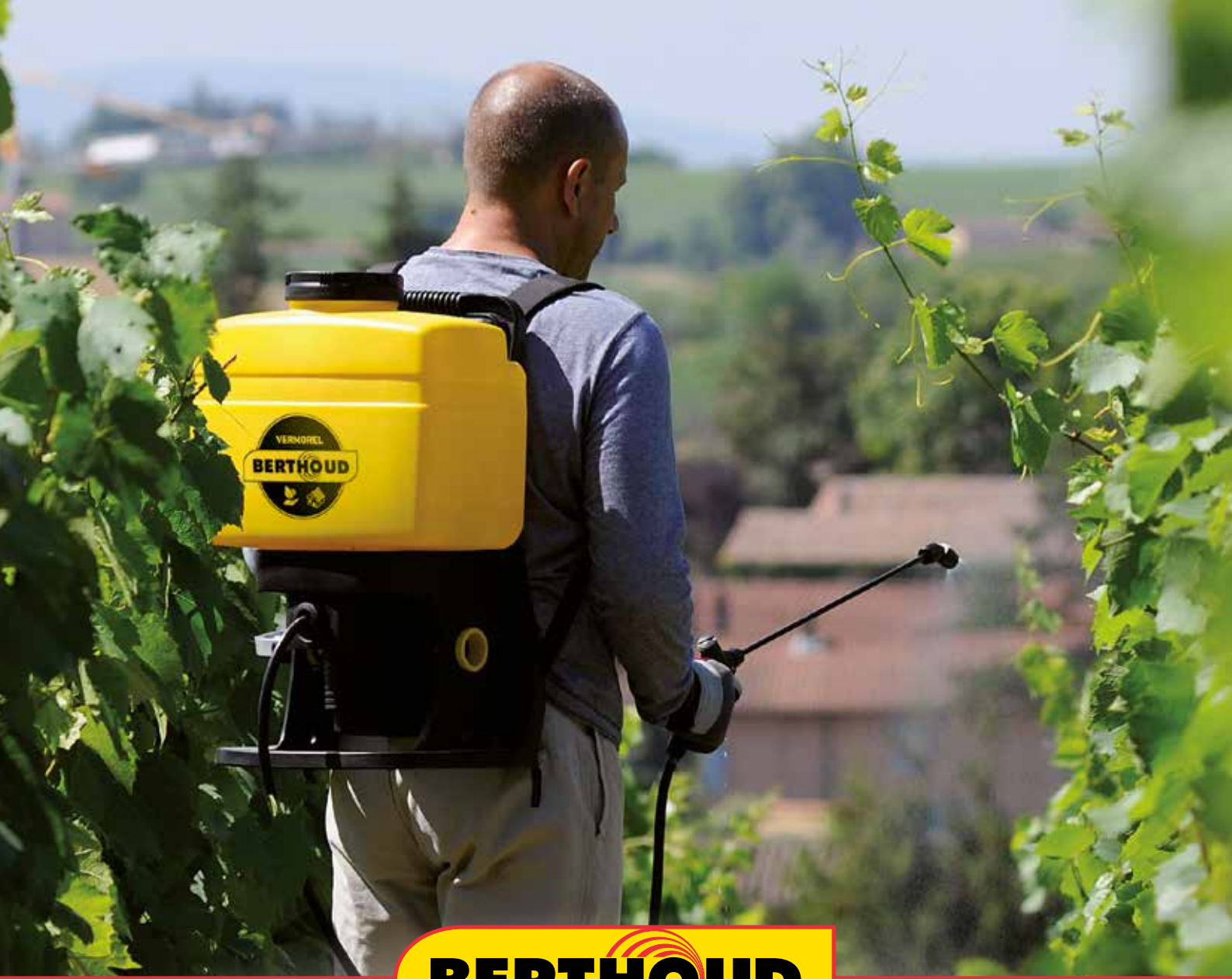
	PRODUCT FAMILY	ARTICLE NAME	CODE	EAN CODE	BARCODE	PCB
	PRESSURE SPRAYERS	ELYTE 8 PRO	101001 / 100-000-025	3176241010010		4
		ELYTE 8 PRO DIY	101003 / 100-002-510	3176241010034		2
		ELYTE 8 STAINLESS STEEL LANCE	102106 / 100-002-594	3176241021061		1
		ELYTE 14 PRO EXPORT	101014 / 100-002-513	3176241010140		1
	TROMBONE SPRAYERS	SERINGA	101025 / 100-002-514	3176241010256		4
	KNAPSACK SPRAYERS	COSMOS 18 PRO	102215 / 100-000-051	3176241022150		2
		COSMOS 18 PRO SPECIAL DISINFECTION	102216 / 100-002-606	3176241022167		2
		VERMOREL 1800	102084 / 100-002-592	3176241020842		1
		VERMOREL 2000 CONFORT PRO	102022 / 100-002-588	3176241020224		1
	ELECTRIC SPRAYERS	VERMOREL 3000 ELECTRIC	102139 / 100-002-599	3176241021399		1
		VERMOREL 3000 ELECTRIC ON CART	102141 / 100-002-601	3176241021412		1

PRODUCT INFORMATIONS

	PRODUCT FAMILY	ARTICLE NAME	CODE	EAN CODE	BARCODE	PCB
ACCESSORIES						
	NOZZLES	HOLLOW CONE NOZZLES KIT	200560 / 100-002-989	3176242005602		5
		HERBICIDE NOZZLE KIT	200601 / 100-002-990	3176242006012		5
		ALL BUSES KIT TREATMENTS	211324 / 100-003-002	3176242113246		5
		MULTI-JET NOZZLE KIT 3IN1	100-100-651	3176245001168		5
	LANCES	COMPOSITE SPRAYER LANCE AND PROFILE HANDLE	280327 / 100-003-172	3176242803277		5
		UNIVERSAL SPRAYER LANCE AND PROFILE HANDLE	280324 / 100-003-170	3176242803246		5
		COMPOSITE SPRAYER LANCE AND STOPREX HANDLE	211665 / 100-003-005	3176242116650		5
	GRIPS	PROFILE SPRAY LANCE GRIP	280310 / 100-003-168	3176242803109		5
		STOPREX SPRAY LANCEGRIP	212370 / 100-003-011	3176242123702		5
	EXTENSIONS	60 CM ALUMINIUM LANCE EXTENSIONS	280364 / 100-003-175	3176242803642		5
		60 CM COMPOSITE LANCE EXTENSIONS	280363 / 100-003-174	3176242803635		5

PRODUCT INFORMATIONS

	TELESCOPIC SPRAYLANCES	TELESCOPIC SPRAY LANCES 0,5-1M	280362 / 100-003-173	3176242803628		5
		GIANT COMPOSITE TELESCOPIC LANCES 2,40M	280326 / 100-003-171	3176242803260		5
		GIANT COMPOSITE TELESCOPIC LANCES 3,60M	282447 / 100-003-210	3176242824470		5
	BOOMS	SPRAY BOOM WITH 2 SWIVELMOUNTED NOZZLES	220516 / 100-003-028	3176242205163		5
		3-NOZZLE HERBICIDE BOOM	255044 / 100-003-086	3176242550447		5
		4-NOZZLE HERBICIDE BOOM	215071 / 100-003-014	3176242150715		5
	EQUIPMENT	PRESSURE REGULATOR 1 BAR	283983 / 100-003-404	3176242839832		5
		HERBICIDE SPRAY SHIELD	455004 / 100-003-535	3176244550049		5
	MAINTENANCE	SILICONE GREASE SYRINGUE	219374 / 100-003-021	3176242193743		5
		PUMP SEALS FLORALY OPTIMA BRICOLAGE	282872 / 100-003-280	3176242828720		5
		PUMP SEALS ELYTE	219803 / 100-003-027	3176242198038		5
		PUMP SEALS EPDM ELYTE	100-100-657	3176245001175		5
		PUMP SEALS COSMOS	218343 / 100-003-016	3176242183430		5
		PUMP SEALS VERMOREL	212310 / 100-003-009	3176242123108		5



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www.berthoud.fr/en/



HOZELOCK-EXEL - 891 route des Frênes - ZI Nord Arnas - BP 30424 - 69653 Villefranche Cedex SAS with capital of 2,600,000 euros - SIRET 77965877200024 - APE 2830 Z - RC Villefranche B - Intra-community VAT no.: FR 02 779 658 772

Unique Identifiers

EEE sector: FR001376_05XX9P / Packaging sector: FR210890_01ARJC / DIY and garden products sector: FR210890_14ELGT

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