Lama
Sistemas de filtrado / Filtration systems

INDUSTRIAL CATALOGUE | 2025

Since 1948 designing and manufacturing filtration systems

Filtration Technology Irrigation

www.lama.es

Filtración Riego

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IMPORTANT WARNING: the price list for the current fiscal year 2025, that is published here in, is merely informative, and is an estimation, so it could undergo changes throughout the year due to possible changes in the price of raw materials. The company is neither subject to nor obliged to main-tain the prices indicated in the tariff, nor to publich any potential variation thereof. The version of the website **https://lama.es/en/dealers/** is the current and update version.

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THIS DOCUMENT IS INTERACTIVE

LAMA catalogues are optimized for web, allowing users to move comfortably through the document by means of its **clickable buttons**. These buttons can redirect you in the following way: **back to index**, **see the product section on the web** by clicking on the name of the products and **consult spare parts and accessories** (cartridges, rings, valves, programmers, etc).

VERSATILITY

Customisation of each project. As a result of our wide range of products, ranging from manual, semi-manual and automatic, our filters can be adapted to any filtration need. It is possible to consult the products in the catalogue for other compositions or configurations.

SURFACE TREATMENT

Our filters undergo a NANOTECHNOLOGY surface treatment in one of the baths. It provides more safety, ecology, flexibility and lower water and energy consumption.

In our Automatic Screen Filters, to improve their performance durability and resistance, NANOPLUS TECHNOLOGY treatment is applied.

NO MORE ELECTRICITY

Due to our commitment to sustainability, LAMA **will not use electrical consuption** in all the factory. We have installed a **solar thermal plant**. The solar station will provide all the necessary energy that Lama needs for the regular activity, which is 132kv.

Lama programmers

IMPORTANT: We supply our programmers separately.

MORE INFORMATION ABOUT **PROGRAMMERS**

mini's

The cleaning programmer **Mini's** is designed for the a**utomatic hydraulic screen filter family EKO (EKO, EKOLU and EKOSENIOR).**

The end-user does not have to worry about programming the duration of the backwashing so the regulation is **automatic**. The limit switch **regulates itself automatically**, depending on the flow and pressure, thanks to an inductive sensor in the hydraulic cylinder of the filters.

Furthermore, **Mini'S can be settled using batteries as well as an electrical transformer** for the stations with electricity.

USER GUIDE

RIO8

Our automatic filter stations are equipped with efficient cleaning programmers, such as the new **RIO8.** device. It has **8 outputs 220v** as standard (more outlets and custom configurations available) and is very easy to use, just follow a few steps to be fully configured and ready to work. It has a control unit from which all available operations can be performed.

Available in various **kits depending on the filter**. A **programmer bracket** can also be added.

The programmer is available in **spanish, english and french.**

USER GUIDE

Automatic screen filters **Auto**Mesh **& Eko**LU

Many product features have been improved, thanks to the processes of the company's R&D Department; **the morphology of the filters body, the accessories have been reorganised and an increased useful surface.**

The main new feature is the system's ground breaking **filtering cartridge.**

The engineering department has carefully studied the resistance of the new cartridge, with mathematical formulas used to simulate possible deformations. It has been designed with a **honeycomb structure**, fully injected in **polyamide**. In addition, the injection process is carried out in a single cartridge-screen phase. The cartridge is optimised for the cleaning process, using the water used during this phase.

All of this will achieve higher manufacturing speeds and shorter delivery times.

USER GUIDE

E-Commerce **Lama**

Our **e-commerce** is constantly growing and offers our customers a fast, convenient shopping experience, with the best price and the biggest discounts.

Within our strategy for the coming years, one of the key points is the optimization of the buying process. This project has meant for **LAMA** a revision of the processes, with the objective of being the leading company within the sector for professionals both for the online and offline channels.

The new **e-commerce LAMA** supposes for our clients a great number of improvements, that we would like to summarize in 4 points:

1. Quick purchase in a single click: we have reorganized the product families, as well as the descriptions of the articles to facilitate the search of it in a single step.

2. 100% responsive page: the possibility of making your purchases or management from any device, whether it is a computer, smartphone or tablet.

3. 24/7 online management: we have incorporated all the information so that you can consult and download your orders, invoices or delivery notes.

4. Direct communication with the customer: we want to inform our customers automatically about the status of their requirements or orders, so the purchase process is always updated. All this, accompanied by a close and reliable communication.

E-COMMERCE

Warranty and Quality Certificates

MANUFACTURING STANDARDS

All of our products are subject to strict quality controls during the manufacturing process, apart from completely fulfilling current regulations as well as for the elaboration of filtering equipment for agriculture use, both at an international and a European level (ISO and CEN are currently being updated and others are being fulfilled. LAMA actively takes part as a member of the working group WG5 of the technical committee TC334 of CEN).

LAMA has implemented a quality management system certified (ES13/14728.01) by SGS, that fulfils the requirements of the European norm UNE-EN-ISO 9001, for the activities of design and manufacture of filtering systems.

Our products are in agreement with the whole of it obligations that concern us in accordance with the instruction established for the CE positioning.

Made in Spain

This is a translation of the certificate ES13/14728

The management system of

GRUPO LAMA (FERNANDO LAMA, S.L.U. Y LAMA SISTEMAS DE FILTRADO, S.L.U.)

Pol. Ind. Guadalquivir, C/ Artesanía, naves 1, 3 y 5 - 41120 Gelves, Sevilla

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities
Design and manufacturing of filtering systems.

This certificate is valid from 8 November 2022 until 16 September 2025 and remains valid subject to satisfactory surveillance audits.

Issue 6. Certified with SGS since 16 September 2013.
Multiple certificates have been issued for this scope, the main certificate is numbered ES13/14728
Certified activities performed by additional sites are listed on subsequent pages.

Last certificate expiry date 16 September 2022
Recertification audit date 16 September 2022

Authorised by

SGS International Certification Services Iberica, S.A.U.
C/Trespaderne, 29. 28042 Madrid. España
t +34 91 313 8115 - www.sgs.com

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Lama
Sistemas de filtrado / Filtration systems

PRODUCT WARRANTY

- All Product are guaranteed for 1 year from invoice date.
- The warranty period against holes/punctures due to corrosion is 2 years.
- The warranty is limited to the replacement of the faulty parts after Lama personnel approval.
- Please check the products technical data, their maximum pressure ratings and minimum backwash ratings, by their model, and must be utilized as intended. Please also check the recommended flow for every product as well as the kind of water, each.
- The physical filtration of water shall be in particle diameters no greater than the filtration degree allowed by the filtering element used.
- You must read the user guide before connect and set up the product.

WARRANTY EXCLUSIONS

- The breakage, removal or manipulation of the serial numbers or labelling of the product will be a cause for cancellation of the warranty.
- Lama will not be responsible for damage caused by accidents, improper transport, loss, improper handling or unauthorized modifications to the product.
- Lack of periodic cleanings outlined in the operating manual given with the product.
- Lack of maintenance resulting in wear (fatigue in the material or wear due to abrasion, installation vibrations, or high temperatures)
- Voltages higher or lower than those indicated in the programmer.
- Humidity in the programmer, solenoids, and other electrical material.
- Wear in the hydrocyclones due to sand and stone abrasion.
- Pressures that are higher or lower than those indicated in the product catalog tables for the ordered product.
- Poor quality water or acid environments, decantation, precipitation, and buildup of bacteria or algae.
- Water hammer damage due to operator error or an inadequate setup, transportation or handling damage and expenses.
- Poor or inadequate assembly, operating the filter in an enclosed area or sunken pit (enclosed or open).
- Valves and solenoids are excluded if drainpipes run under pressure.
- Water qualities or concentrations of impurities beyond the values given in the tables.
- Third-party damage, theft, or vandalism.

WARRANTY CLAIMS

- This product has been subject to factory testing and it has met all quality standards. However, if you do find a defect, please notify your dealer. To make any claim, you must present a warranty claim document, outlining the item and batch shown on the product nameplate, and where possible the purchase invoice.

Article: .....

Lot: .....

Date: .....

Signature:

INDUSTRY

- Process water cooling systems.
- Nebulizer process water.
- Process water recirculation systems.
- Industrial mussel water treatment.
- Pre-filtration to membranes.
- Inlet process water.
- Sanitary water.
- Ballast water
- Agua de lastre.
- Industrial sewage water.

MUNICIPAL AND WASTEWATER

- Drinking water filtration.
- Wastewater.
- Water treatment plants.
- Desalination.
- Pre-filtration to membranes.
- Previous to ultraviolet process.

WATER ROUTE IN INDUSTRIES

DRINKING WATER:

DESALINATION:

WASTEWATER:

1. Microfiltration

Microfiltration is a very efficient technology for separating solids and recovering products from all types of liquids. Microfiltration retains a smaller particle size than a conventional filter; cartridges used for microfiltration have a pore size of 1–20 µm. As the pores are so small, an additional advantage of these filters is that they retain bacteria and viruses. Despite the fact that viruses are smaller than the pores of a microfiltration membrane, retention is possible because viruses are coupled to bacteria.

MICROFILTRATION CARTRIDGES.

Description	Price	Code
Polypropylene foam 10" (1-5-10-20-50 microns)		CPX0110
		CPX0510
		CPX1010
		CPX2010
		CPX5010

Description	Price	Code
Polypropylene foam 40" (1-5-10-20-50 microns)		CPX0140
		CPX0540
		CPX1040
		CPX2040
		CPX5040

* Polypropylene foam **STANDARD**.

Polypropylene foam STANDARD
(Ask)

Polypropylene spool
(Ask)

Active-carbon
(Ask)

- For any other lenght and cartridge number, **please ask.**

FILTERING CARTRIDGES FROM 20 TO 1 µm (not included in the price).

Filtration cartridges are perfectly adapted to their bases, due to the watertight joints in top part, and a compressed resort in bottom part. This fact admits different flows to the requirements

For other microns, please ask.

CONSTRUCTION MATERIALS

- **Body:** PVC
- **Joints:** synthetic rubber nitrile 60º Shore.
- **Screws:** stainless steel AISI 316L.
- **Central ring:** PVC

CLOSING SYSTEMS

Stainless steel nuts.

TESTING PRESSURE

9 kg/cm².

SEE PROGRAMMERS

Number of cartridges	A	C (mm)	E (mm)	Limit flow (m^3/h)	Code
4	DN50	200	362	9,6	**MP40-4**
7	DN65	250	432	16,8	**MP407IE**
11	DN80	315	480	26,4	**MP4011IE**
20	DN80	400	511	50	**MP4020IE**
35	DN100	500	611	84	**MP4035IE**
20	DN100	490	592	50	**MP5020IE**

SEE PROGRAMMERS

CONSTRUCTION MATERIALS

- **Body:** glass fiber reinforced polyamide (GFRP).
- **Joints:** synthetic rubber nitrile 60º Shore.
- **Central ring:** PVC.

CLOSING SYSTEM

Adjustable lock nut.

TESTING PRESSURE

12 kg/cm².

Number of cartridges	Net Weight (kg)	Gross Weight (kg)	Connection (Ø)	Package volume (m³)	Limit flow(m³/h)	Code
4	7,5	8	2"	0,07	2,4	**FSM2**

2. **Media** filters

Media filtering consist of the physical retention of dirt in holes formed between grains used in the entire filter layer. It is depth filtration and this characteristic makes it the most effective of all systems. It can be used with highly contaminated water.

Collector arm retention system.

Nozzles retention system.

Inlet water **diffuser.**

Filtering media :

Active carbon

Volcanic

Siliceus

Glass

Anthracite

Available PRES MAX 16 kg/cm² 228 psi

PRES MAX 8 kg/cm² 114 psi

nano TECHNOLOGY

Customisable and available in ASME code manufacture.

SEE PROGRAMMERS

SEE SANDS

SURFACE TREATMENT

- The elements are painted by electrostatic spraying powder paint, epoxy polyester.
- Nanotechnology treatment.
- For alimentary use, please ask.

SYSTEM

- Designed for low filtration rates of 5 to10 m/h.
- Holes water for easy maintenance.

CLEANING

- Backwashing with clean water, it is made by pumping water backwards through the filter media, to regenerate the filtering material.
- It brings external water .
- It can be combined with air .

It is recommened to add a security filter after the sand station.

COLLECTOR ARM

Filtration surface (m²)	C (mm)	A (Ø)	E (mm)	H (mm)	Package volume (m³)	Sand kg.	Code
0,096	350	1" Thread H	637	155	0,180	30	**FAV1**
0,196	500	1,5" Thread H	930	350	0,620	100	**FA500R**
0,385	700	2" Vic	965	350	0,810	200	**FA700**
0,503	800	3" Vic	1.128	450	0,960	300	**FA800**
0,709	950	3" Vic	1.220	450	1,620	500	**FA950**
1,131	1.200	3"- 4" Vic	1.275	450	2,456	800	**FA1200**

NOZZLES

Filtration surface (m²)	C (mm)	A (Ø)	E (mm)	H (mm)	Package volume (m³)	Sand kg.	Code
0,385	700	2" Vic	950	350	0,810	170	**FD700**
0,709	950	3" Vic	1.220	450	1,700	420	**FD950**
1,131	1.200	3"- 4" Vic	1.280	450	2,500	700	**FD1200**

- Ask for **outlets to THREAD or DIN FLANGES** with the same price.
- Ask for **plastic connection (Vic)** for **FA950 and FA800** filters.
- Ask for kit prices that include **filter material and programmers.**

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PRES MAX 8 Kg/cm² 114 psi

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- Backwashing with clean water, it is made by pumping water backwards through the filter media, to regenerate the filtering material.
- It brings external water .
- It can be combined with air .

It is recommened to add a security filter after the sand station.

COLLECTOR ARM

Filtration surface (m²)	A (Ø)	B (mm)	C (mm)	D (mm)	E (mm)	J (mm)	K (mm)	Package volume (m³)	Code
0,20	2"	1.730	500	1.400	2.215	165	165	0,3	**FI5B**
0,38	2"	1.860	700	1.400	2.280	165	165	0,62	**FI7B**
0,50	3"	1.873	800	1.400	2.290	165	165	0,8	**FI8B**
0,71	3"	1.928	950	1.400	2.315	165	165	1,19	**FI9B**
1,13	3"	1.934	1.200	1.300	2.272	165	165	1,86	**F12B**
1,54	3"	1.916	1.400	1.200	2.210	165	165	2,47	**F14B**

NOZZLES

Filtration surface (m²)	A (Ø)	B (mm)	C (mm)	D (mm)	E (mm)	J (mm)	K (mm)	Package volume (m³)	Code
0,20	2"	1.730	500	1.400	2.215	165	165	0,3	**FI5C**
0,38	2"	1.860	700	1.400	2.280	165	165	0,62	**FI7C**
0,50	3"	1.873	800	1.400	2.290	165	165	0,8	**FI8C**
0,71	3"	1.928	950	1.400	2.315	165	165	1,19	**FI9C**
1,13	3"	1.934	1.200	1.300	2.272	165	165	1,86	**F12C**
1,54	3"	1.916	1.400	1.200	2.210	165	165	2,47	**F14C**

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 8 Kg/cm² 114 psi

nano TECHNOLOGY

Customisable and available in ASME code manufacture.

Optional ebonised manufacture

SEE PROGRAMMERS

SEE SANDS

SURFACE TREATMENT

Surface treatment by high pressure sandblast, grade S.A. 21/2, according toUNE-EN ISO 8501:1988.
It is very important to create a rough surface for the best adhesion of the paint. This enables oxides and all kinds of particles to be eliminated.

Exterior area:

- **1st layer** of epoxi zinc phosphate primer, with a dry film thickness of 80 microns. Micronage measurement.
- **2nd layer** medium layer epoxi, with a dry film thickness is 120 microns. Micronage measurement.
- **3rd layer** of aliphatic polyurethane enamel, with a dry film thickness is 50 microns, in blue colour. Micronage measurement. For another colour/treatment, please ask us.

Interior area:

- **1st phase:** epoxi primer layer.
- **2nd phase:** double layer of epoxi paint without solvent **for foodstuff,** with an average dry film thickness of 350 microns. Micronage measurement.

PERFORMANCE

- The backwashing with clean water for investment of flow, or changing the filtering material.
- The backwashing through compressed air.
- Great combination between filtración/backwashing adapted to the number of valves.
- It can be used butterfly valves, they can be pneumatic or electric.
- The control of the parametres can be done on site or remote.

It is recommened to add a security filter after the sand station.

Examples of special media filters station with pneumatic butterfly valves.

Filtration surface (m²)	A (Ø)	B (mm)	C (mm)	D (mm)	E (mm)	J (mm)	K (mm)	Package volume (m³)	Code
1,13	3" Flange	2.736	1.200	2.000	3.176	220	460	2,66	**F12CJH**
1,13	3" Flange	2.236	1.200	1.500	2.676	220	460	2,1	**F12CV15**
1,54	3" Flange	2.820	1.400	2.000	3.217	220	460	3,7	**F14CJH**
1,54	3" Flange	2.320	1.400	1.500	2.717	220	460	2,93	**F14CV15**
2,01	3" Flange	2.907	1.600	2.000	3.259	460	460	4,75	**F16CJH**
2,01	3" Flange	2.407	1.600	1.500	2.759	460	460	3,78	**F16CV15**
2,54	3" Flange	3.006	1.800	2.000	3.307	460	460	6,32	**F18CJH**
2,54	3" Flange	2.506	1.800	1.500	2.807	460	460	5,05	**F18CV15**
3,14	4" Flange	3.087	2.000	2.000	3.347	460	460	7,95	**F20CJH**
3,14	4" Flange	2.587	2.000	1.500	2.847	460	460	6,41	**F20CV15**

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INFORMATION

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 8 Kg/cm² 114 psi

nano TECHNOLOGY

Customisable and available in ASME code manufacture.

Design adapted to container transport.

Optional ebonised manufacture

SEE PROGRAMMERS

SEE SANDS

SURFACE TREATMENT

Surface treatment by high pressure sandblast, grade S.A. 21/2, according toUNE-EN ISO 8501:1988.
It is very important to create a rough surface for the best adhesion of the paint. This enables oxides and all kinds of particles to be eliminated.

Exterior area:

- **1st layer** of epoxi zinc phosphate primer, with a dry film thickness of 80 microns. Micronage measurement.
- **2nd layer** medium layer epoxi, with a dry film thickness is 120 microns. Micronage measurement.
- **3rd layer** of aliphatic polyurethane enamel, with a dry film thickness is 50 microns, in blue colour. Micronage measurement. For another colour/treatment, please ask us.

Interior area:

- **1st phase:** epoxi primer layer.
- **2nd phase:** double layer of epoxi paint without solvent **for foodstuff,** with an average dry film thickness of 350 microns. Micronage measurement.

PERFORMANCE

- The backwashing with clean water for investment of flow, or changing the filtering material.
- The backwashing through compressed air.
- Great combination between filtración/backwashing adapted to the number of valves.
- It can be used butterfly valves, they can be pneumatic or electric.
- The control of the parametres can be done on site or remote.

It is recommened to add a security filter after the sand station.

Filtration surface (m²)	A (Ø)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Package volume (m³)	Code
9,3	6" Flange	900	1.800	4.900	2.065	6"	500	13,7	**H18B49**
10,43	6" Flange	1.100	2.000	4.900	2.265	6"	500	16,9	**H20B49**
11,54	6" Flange	1.300	2.200	4.900	2.465	6"	500	20,6	**H22B49**

2. **Disc** Filters

The disc performs physical filtration by retaining solids that are not dissolved in the water in channels. Filtration takes place due to the effect of the overlapping of a set of discs, installed in a strong and secure structure. The disc channels allow filtration to take place deeply.

STANDARD

20µ 50µ 100µ 130µ 190µ 250µ

SELF-CLEANING FILTERS **WITH TANK**.

- Synchronised manoeuvres with low water consumption.
- Fully automated and reduced pressure drop.
- Compressed air option for manoeuvres.
- Easy assembly and disassembly.
- Resistant to the action of chemical agents.

AutoSenior

FILTER	
With threaded closure	
Code	FAS3TR
With ringlock clamp closure	
Code	FAAP3AN

FILTER +VALVE	
With threaded closure	
Code	FAS3BA
With ringlock clamp closure	
Code	FAAP3ANB

KIT	
With threaded closure	
Code	FA3K
With ringlock clamp closure	
Code	FAAP3ANK

AutoSenior**4”**

FILTER	
With ringlock clamp closure	
Code	FAAP4

- Ask for **plastic connection (Vic) on any of our plastic filters.**

INFORMATION

- **Station:** filters + collectors + Globo Plastic valves + suction pad + pressure recorder.

- **The station is supplied assembled**.

2,5 BACKWASHING PRESSION Kg/cm²

PRES MAX 8 Kg/cm² 114 psi

STANDARD 190µm

(For **1,5 Kg/cm²** ask us)

SEE PROGRAMMERS

SEE DISCS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a fluid for assessment with 190 µm disc Lama.

Flow limit 4m. H.D	Max. Recommended flow (m³/h)			Filtration surface (cm²)	Description		Code
					Filter code: FAS3TR		
	< 50ppm	50/100ppm	100/200ppm		Nº filter	Ø of collector	
141	40	25	16	3.226	2	4"	**C2ASPEQS**
211	60	37,5	24	4.839	3	4"	**C3ASPEQS**
281	80	50	32	6.452	4	4"	**C4ASPEQS**
281	80	50	32	6.452	4	6"	**C4A6PEQS**
352	100	62,5	40	8.065	5	6"	**C5ASPEQS**
422	120	75	48	9.678	6	6"	**C6ASPEQS**
562	160	100	64	12.904	8	6"	**C8ASPEQS**
562	160	100	64	12.904	8	8"	**C8A8PEQS**
703	200	125	80	16.130	10	8" double line	**10ASPEQS**
844	240	150	96	19.356	12	8" double line	**12ASPEQS**
984	280	175	112	22.582	14	10" double line	**14ASPEQS**
1.125	320	200	128	25.808	16	10" double line	**16ASPEQS**
1.265	360	225	144	29.034	18	12" double line	**18ASPEQS**
1.687	480	300	192	38.712	24	12" double line	**24ASPEQS**

- Ask for the price of the **drainage collector.**

Net weight (kg)	Net equipped weight (kg)	Gross equipped weight (kg)	Package volumen	Min. Vol. Drainage flow (2,5 kg/cm²)	Min. Drainage flow (m³/h)	Filter code	Disc spare part 190µm
-	24	40	0,07 m³	45 ℓ	10,5	**FA3K**	**RAA3R**
8	-	-	0,07 m³	45 ℓ	10,5	**FAS3TR**	

- Ask for **plastic connection.**

INFORMATION

- **Station:** filters + collectors + Globo Plastic valves + suction pad + pressure recorder.
- **The station is supplied assembled**.

2,5 BACKWASHING PRESSION Kg/cm²

PRES MAX 10 kg/cm² 142 psi

STANDARD 190µm

(For **1,5 Kg/cm²** ask us)

SEE PROGRAMMERS

SEE DISCS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a fluid for assessment with 190 µm disc Lama.

Flow limit 4m. H.D	Max. Recommended flow (m³/h)			Filtration surface (cm²)	Description		Code
					Filter code: FAAP3AN		
	< 50ppm	50/100ppm	100/200ppm		Nº filter	Ø of collector	
141	40	25	16	3.226	2	4"	**C2A3A4S**
211	60	37,5	24	4.839	3	4"	**C3A3A4S**
281	80	50	32	6.452	4	4"	**C4A3A4S**
281	80	50	32	6.452	4	6"	**C4A3A6S**
352	100	62,5	40	8.065	5	6"	**C5A3A6S**
422	120	75	48	9.678	6	6"	**C6A3A6S**
562	160	100	64	12.904	8	6"	**C8A3A6S**
562	160	100	64	12.904	8	8"	**C8A3A8S**

- Ask for the price of the **drainage collector.**

Net weight (kg)	Net equipped weight (kg)	Gross equipped weight (kg)	Package volumen	Min. Vol. Drainage flow (2,5 kg/cm²)	Min. Drainage flow (m³/h)	Filter code	Disc spare part 190µm
-	24	40	0,07 m³	45 ℓ	10,5	**FAAP3ANK**	**RAA3R**
8	-	-	0,07 m³	45 ℓ	10,5	**FAAP3AN**	

- Ask for **plastic connection.**

INFORMATION

- **Station:** filters + collectors (drainage included) + Plastic Globe valve + suction pad + pressure recorder.
- **The station is supplied assembled**.

2,5 BACKWASHING PRESSION Kg/cm²

PRES MAX 10 Kg/cm² 114 psi

STANDARD 190µm

(For **1,5 Kg/cm²** ask us)

SEE PROGRAMMERS

SEE DISCS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a fluid for assessment with 190 µm disc Lama.

Nº filters	Flow limit 4m. H.D	Max. Recommended flow (m³/h)			Filtration surface (cm²)	Min. Drainage flow (m³/h)	Collector	Code
		< 50ppm	50/100ppm	100/200ppm				
2	282	80	50	32	6.452	21	Ø6"	**C2A4P3S**
3	423	120	75	48	9.678	21	Ø6"	**C3A4P3S**
4	564	160	100	64	12.904	21	Ø8"	**C4A4P3S**
6	846	240	150	96	19.356	21	Ø10"	**C6A4P3S**
8	1.128	320	200	128	25.808	21	Ø10"	**C8A4P3S**
10	1.410	400	250	160	32.260	21	Ø12"	**C10A4P3S**
12	1.692	480	300	192	38.712	21	Ø12"	**C12A4P3S**

- Ask for the price of the **drainage collector.**

Net weight (kg)	Net equipped weight (kg)	Gross equipped weight (kg)	Package volumen	Min. Vol. Drainage flow (2,5 kg/cm²)	Min. Drainage flow (m³/h)	Filter code	Disc 190 µm spare part
14,8	15	32,5	0,130 m³	90 ℓ	21	**FAAP4**	**RAA3R** x 2 units

- Ask for **plastic connection.**

Lama

autoSenior

Lama
autoSenior
autoSenior
autoSenior

VADO PERMANENTE
Lama
Lama
Lama
Lama
Lama
Lama

Rotativos Automatic disc filters. **COMPACT MODULAR AUTOMATIC DISC STATIONS.**

nano TECHNOLOGY | Available 3" | 2,5 BACKWASHING PRESSION Kg/cm² | Available PRES MAX 16 Kg/cm² 228 psi | PRES MAX 10 Kg/cm² 142 psi | STANDARD 190µm | SEE PROGRAMMERS | SEE DISCS

	FRA3
Net weight (kg)	40
Net equipped weight (kg)	51
Gross equipped weight (kg)	71
Package volumen (m^3)	0,25
Min. Vol. Drainage water (2,5 kg/cm²)	60 ℓ
Disc spare parts 190µm	**RAR3R**

Flow limit 4m. H.D	Max. Recommended flow (m^3/h)			Filtration surface (cm²)	Min. Drainage flow (m^3/h)	Collector	Description	Code
	< 50ppm	50/100ppm	100/200ppm					
89	26	16	10	2.042	14	Ø3"	1 without programmer	**FRA3**
178	52	31	20	4.084	14	Ø4"	2 in line	**C2RLS**
356	140	84	55	8.168	14	Ø6"	4 in line	**C4RLS**
534	225	135	88	12.252	14	Ø8"	6 in line	**C6RLS**
712	300	180	117	16.336	14	Ø8"	8 in line	**C8RLS**
890	375	225	146	20.420	14	Ø10"	10 double line	**10RLS**
1.068	450	270	176	24.504	14	Ø10"	12 double line	**12RLS**

MasterMegadisc

nanoPLUS+ TECHNOLOGY | Available 4"- 6" | 2,5 BACKWASHING PRESSION Kg/cm² | Available PRES MAX 16 Kg/cm² 228 psi | PRES MAX 10 Kg/cm² 142 psi | STANDARD 190µm | SEE PROGRAMMERS | SEE DISCS

	FRA4	FRA6
Net weight (kg)	106	213
Connection (Ø)	4" Vic	Outlet 6" Vic Inlet 2 x 4" Vic
Min. Vol. Drainage water (2,5 kg/cm²)	525 ℓ	1.050 ℓ
Disc kit (190µm)	**RAR4R**	**RAR6R**

	Flow limit 4m. H.D	Max. Recommended flow (m^3/h)			Filtration surface (cm²)	Min. Drainage flow (m^3/h)	Collector	Description	Code
		< 50ppm	50/100ppm	100/200ppm					
4"	267	97	58	38	6.126	42	Ø4"	1 de 4" equipado	**FRA4**
	1.068	450	270	176	24.504	42	Ø10"	4 de 4" en línea	**C4R4S**
	1.602	675	405	263	36.756	42	Ø12"	6 de 4" en línea	**C6R4S**
	2.136	900	540	351	49.008	42	Ø14"	8 de 4" doble línea	**C8R4S**
	3.204	1.350	810	526	73.512	42	Ø18"	12 de 4" doble línea	**12R4S**
6"	534	225	135	88	12.252	84	Ø6"	1 de 6" equipado	**FRA6**
	6.408	2.700	1.620	1.053	147.024	84	Ø24"	12 de 6" doble línea	**12R6S**
	9.024	3.600	2.160	1.404	196.032	84	Ø24"	16 de 6" doble línea	**16R6S**
	12.816	5.400	3.240	2.106	294.048	84	Ø30"	24 de 6" doble línea	**24R6S**

- Ask for **other compositions.**

Lama
Rotativos

INFORMATION

- **Station:** filters + solenoid + Globo valve + Suction pad + metal connection (Vic).

Available 4" - 6"

2,5 BACKWASHING PRESSION Kg/cm²

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

nanoPLUS+ TECHNOLOGY

SEE PROGRAMMERS

SEE DISCS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a fluid for assessment with 190 µm disc Lama.

	Flow limit 4m. H.D	Max. Recommended flow (m³/h)			Filtration surface (cm²)	Min. Drainage flow (m³/h)	Collector	Description	Code
		< 50ppm	50/100ppm	100/200ppm					
4"	211	73	44	28	4.839	31,5	Ø4"	1 de 4" unequipped	**FAS4TR**
	211	73	44	28	4.839	31,5	Ø4"	1 de 4" equipped	**FAE4**
	633	219	132	84	14.517	31,50	Ø8"	3 de 4" in line	**C3AS4S**
	844	292	176	112	19.356	31,50	Ø10"	4 de 4" in line	**C4AS4S**
	1.266	438	264	168	29.034	31,50	Ø12"	6 de 4" in line	**C6AS4S**
	1.688	584	352	224	38.712	31,50	Ø12"	8 de 4" double line	**C8AS4S**
	2.109	730	440	280	48.390	31,50	Ø14"	10 de 4" double line	**10AS4S**
	2.531	876	528	336	58.068	31,50	Ø14"	12 de 4" double line	**12AS4S**
	3.374	1.168	704	448	77.424	31,50	Ø16"	16 de 4" double line	**16AS4S**
	4.218	1.460	880	560	96.780	31,50	Ø18"	20 de 4" double line	**20AS4S**
	5.062	1.752	1056	672	116.136	31,50	Ø20"	24 de 4" double line	**24AS4S**
6"	422	169	102	66	9.678	63	Ø6"	1 de 6" unequipped	**FAS6TR**
	422	169	102	66	9.678	63	Ø6"	1 de 6" equipped	**FAE6**
	1.687	676	408	264	38.712	63	Ø12"	4 de 6" in line	**C4AS6S**
	2.531	1.017	612	396	58.068	63	Ø14"	6 de 6" in line	**C6AS6S**
	3.374	1.352	816	528	77.424	63	Ø16"	8 de 6" double line	**C8AS6S**
	5.062	2.028	1.224	792	116.136	63	Ø20"	12 de 6" double line	**12AS6S**
	6.749	2.704	1.632	1.056	154.848	63	Ø24"	16 de 6" double line	**16AS6S**
	8.436	3.380	2.040	1.320	193.560	63	Ø24"	20 de 6" double line	**20AS6S**
	20.246	8.112	4.896	3.168	464.544	63	Ø38"	48 de 6" double line	**48AS6S**

Net weight (kg)	Filtration surface (cm²)	Min. Drainage flow (m³/h)	Connection (Ø)	Min. Vol. Drainage water (2,5 kg/cm²)	Disc Kit 190µm	Code
73	4.839	31,5	4" Vic	525 ℓ	**RAA4 (4")**	**FAS4TR (4")**
160	9.678	63	Outlet 6" Vic Inlet 2x4" Vic	1.050 ℓ	**RAA6 (6")**	**FAS6TR (6")**

- Ask for any **other composition.**

Senior 2" **thread**

Senior 3" **connection**

SEE DISCS

PRES MAX 8 Kg/cm² 114 psi

STANDARD 190µm

Senior 2"

Senior 2"XL

Senior 3"

Senior 3"XS

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

Senior 4" ringlock clamp

Senior 3" ringlock clamp

Filtration surface (cm²)	**Net weight** (kg)	**Gross weight** (kg)	**Package volume** (m³)	**Limit flow** (m³/h)	**Description**	**Code**
1.240	5,5	6	0,04	22	Senior 2" filter · Discs · Thread B.S.P.	**FDS2**
1.085	5,5	6	0,04	22	Senior 2" filter · Discs centrifuge · Thread B.S.P.	**FDC2**
1.795	7,5	8	0,07	45	Senior 2" XL filter · Discs · Thread B.S.P / N.P.T 2".	**FDS2XL**
1.240	6,5	7	0,04	22	Senior 3" XS filters · Discs · Vic.	**FDS3XS**
1.795	7,5	8	0,07	50	Senior 3" · Filter · Discs · Vic.	**FVD3**
1.795	7,5	8	0,07	50	Senior 3" filter · Discs · Thread B.S.P.	**FDS3**
1.795	7,5	8	0,07	50	Senior 3" filter · Discs · Thread B.S.P · Ringlock clamp.	**FDS3AB**
1.640	7,5	8	0,07	43	Senior 3" filter · Discs centrifuge · Vic.	**FVA3**
1.640	7,5	8	0,07	43	Senior 3" filter · Discs centrifuge · Thread B.S.P	**FDC3**
3.590	13,4	16,6	0,11	100	Filter Senior 4" · Discs · Vic · Ringlock clamp.	**FVD4**

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

nano TECHNOLOGY

SEE DISCS

FD4D

FY3D

FV3D

A	B (mm)	C (mm)	D (mm)	E (mm)	Net weight (kg)	Gross weight (kg)	Package volume (m^3)	Limit flow (m^3/h)	Description	Code
2" Thread H	319	165	230	540	12,5	13	0,032	22	2" vertical filter	**FV2D**
3" Thread H	275	165	230	666	15,5	16	0,070	50	3" vertical filter	**FV3D**
2" Thread M	450	165	605	520	13,5	17,5	0,070	22	2" Y filter	**FY2D**
3" Flange	500	165	750	520	21,5	22	0,089	50	3" Y filter	**FY3D**
4'' Flange	290	165	1.480	290	38	60	0,157	80	4" double body filter	**FD4D**
High security cartridge of parallel discs (for filters FV2D and FY2D)										**CA2R**
High security cartridge of parallel discs (fot filters FV3D, FY3D and FD4D)										**CA3R**

3. **Screen** Filters

Physical filtration occurs in screen filters due to the retention of solids in suspension in water between the holes of the sieve. The screen behaves like a sieve that allows dirt with a smaller particle size than its holes to pass through, and retains grains larger than the holes.

FULL INJECTED CARTRIDGE

- Great performance.
- Registered design.
- More resistant.
- **It is available for 0,190 mm black colour and 0,130 mm red colour cartridge.**

SCREEN SIZE

1,5 mm.	0,75 mm.	0,5 mm.	0,3 mm.	0,190 mm.	0,130 mm.	0,08 mm.	0,05 mm.	0,02 mm.
				Automatic's STANDARD	Manual's STANDARD			

HYDRAULIC AUTOMATIC FILTERS

Hydraulic filter nozzles.

ELECTRIC AUTOMATIC FILTERS

Electric filter nozzles.

Way of rotation of both systems from **right to left.**

nanoPLUS+ TECHNOLOGY

INFORMATION

- **Includes**: Filter + hydraulic bottle + valve + pressure recorder + microtube.

2,5 BACKWASHING PRESSION Kg/cm²

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

SEE PROGRAMMERS

SEE SCREENS

Optional ebonised manufacture ✔ | **Available for seawater ✔**

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 190 µm.

EKO6VS

A (Ø)	B (mm)	E (mm)	F (Ø)	L (mm)	Net weight (kg)	Package dimension (mm)	Package weight (kg)	Package volume (m³)	Code
3" Flange	300	975	1" H	170	32	860x700x460	41	0,276	**EKO3VS**
4" Flange	300	975	1" H	170	33	860x700x460	42	0,276	**EKO4VS**
4" Flange	300	1.176	1" ½ H	170	44	1.260x800x550	64	0,276	**EKO4VLS**
6" Flange	500	1.320	1" ½ H	170	56	1.260x800x550	76	0,554	**EKO6VS**
6" Flange	585	1.320	2" H	303	100	1.390x700x850	120	0,827	**EKO6VLS**
8" Flange	585	1.450	2" H	303	110	1.390x700x850	130	0,827	**EKO8VS**
10" Flange	750	1.854	2" H	303	129	1.800x700x850	159	1,071	**EKO10VS**

Flow limit 3m. H.D	Max. recommended flow (m³/h)		Filtration surface (cm²)	Backwasing flow (m³/h)	Backwashing water quality (ℓ)	Backwashing time (mínimo)	Nº of cartridges	Code
	< 50ppm	50/100ppm						
180	70	37	1.593	6,2	34,4	20"	2 x **T14P176**	**EKO3VS**
180	70	37	1.593	6,2	34,4	20"	2 x **T14P176**	**EKO4VS**
180	107	57	2.389	12,4	69	20"	3 x **T14P176**	**EKO4VLS**
370	144	77	3.185	12,4	69	20"	4 x **T14P176**	**EKO6VS**
580	224	120	4.784	14,4	80	20"	4 x **T28P135**	**EKO6VLS**
725	280	150	5.980	14,4	80	20"	5 x **T28P135**	**EKO8VS**
1.120	432	232	9.568	20	111	20"	8 x **T28P135**	**EKO10VS**

SINGLE-FILTER PROGRAMMER FOR HYDRAULIC CLEANERS

Programmer Kit Mini's	Includes: programmer, inductive sensor, solenoid, differential pressure regulator y microtube. **Code:** FLMSPRES With this programmer **the duration of the wash is automatic**. It is not modifiable by the end user and can be used with batteries, 220V or 12V battery.	**+ INFO PAG. 48**

INFORMATION

- **Includes**: filter + hydraulic bottle + valve + suction pad + pressure recorder + microtube.
- In contrast to the vertical EKO format, **EKOLU has a pre-filter.**

nanoPLUS+ TECHNOLOGY

2,5 BACKWASHING PRESSION Kg/cm²

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

SEE PROGRAMMERS

SEE SCREENS

Optional ebonised manufacture ✔ | **Available for seawater ✔**

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 190 µm.

EKO12H3S

Flow limit 3m. H.D	Max. Recommended flow (m^3/h)		Screen surface (cm^2)	Filtration surface (cm^2)	Backwashing flow(m^3/h)	Backwashing water quantity (ℓ)	Backwashing time (minimum)	Nº of cartridges section	Code
	< 50ppm	50/100ppm							
180	70	37	1.593	3.378	6,2	34,4	20"	2 x **T14P176**	**EKO3HS**
180	70	37	1.593	3.378	6,2	34,4	20"	2 x **T14P176**	**EKO4HS**
720	280	148	6.370	8.155	15,5	215	50"	8 x **T14P176**	**EKO4H2S**
1050	350	211	9.568	12.893	12,4	172	50"	8 x **T28P135**	**EKO4H3S**
370	140	74	3.185	4.970	12,4	68,8	20"	4 x **T14P176**	**EKO6HS**
720	280	148	6.370	8.155	15,5	215	50"	8 x **T14P176**	**EKO6H2S**
1.050	350	211	9.568	12.893	12,4	172	50"	8 x **T28P135**	**EKO6H3S**
788	263	158	7.176	9.670	9,3	129	50"	6 x **T28P135**	**EKO8H3CS**
1.400	394	237	10.764	14.089	15,5	215	50"	9 x **T28P135**	**EKO8H3S**
1.480	481	290	13.156	16.481	18,6	258	50"	11 x **T28P135**	**EKO10H3S**
1.800	525	317	14.352	17.677	18,6	258	50"	12 x **T28P135**	**EKO12H3S**

- Ask for low **cleaning pressures.**

G*: security area for the cartridge removal.

A (Ø)	**B** (mm)	**C** (mm)	**D** (mm)	**E** (mm)	**F** (Ø)	**G** (mm)	**H** (mm)	**Net weight** (kg)	**Package dimension** (mm)	**Package weight** (kg)	**Package volume**(m^3)	**Code**
3" Flange	450	220	1.240	370	1" H	355	365	44	1.250x800x600	67	0,600	**EKO3HS**
4" Flange	450	220	1.240	370	1" H	355	365	45	1.250x800x600	68	0,600	**EKO4HS**
4" Flange	900	220	2.600	370	2" H	355	1.421	100	2.400x700x560	117	0,940	**EKO4H2S**
4" Flange	450	406	2.280	760	2" H	1.270	900	185	2.070x700x850	226	1,23	**EKO4H3S**
6" Flange	750	220	1.600	370	1" ½ H	355	717	58,20	1.450x800x560	80,2	0,649	**EKO6HS**
6" Flange	900	220	2.600	370	2" H	355	1.421	106	2.400x700x560	123	0,940	**EKO6H2S**
6" Flange	800	406	2.280	760	2" H	1.270	900	190	2.050x700x850	226	1,219	**EKO6H3S**
8" Flange	719	406	2.065	760	2" H	1.100	900	200	2.050x700x850	254	1,219	**EKO8H3CS**
8" Flange	1.100	406	2.415	760	2" H	1.405	900	218	2.050x700x850	254	1,219	**EKO8H3S**
10" Flange	1.100	406	2.685	760	2" H	1.675	900	240	2.200x700x850	275	1,309	**EKO10H3S**
12" Flange	1.370	406	2.820	760	2" H	1.810	900	254	2.540x700x870	280	1,546	**EKO12H3S**

SINGLE-FILTER PROGRAMMER FOR HYDRAULIC CLEANERS

Programmer Kit **Mini's**	Includes: programmer, inductive sensor, solenoid, differential pressure regulator y microtube.	**Code:** FLMSPRES	**+ INFO PAG. 48**
	With this programmer **the duration of the wash is automatic**. It is not modifiable by the end user and can be used with batteries, 220V or 12V battery.		

INFORMATION

- **Includes:** filter + motor + Valves + pressure recorder + microtube + suction pad.

2,5 BACKWASHING PRESSION Kg/cm²

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

nanoPLUS+ TECHNOLOGY

Cleaning operation in 5 seconds ✔

SEE PROGRAMMERS

SEE SCREENS

Optional ebonised manufacture ✔

Available for seawater ✔

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 190 µm.

AM12S

Flow limit 3m. H.D	Connection	Max. Recommended flow (m³/h)		Screen surface (cm²)	Filtration surface (cm²)	Backwashing flow (m³/h)	Backwashing water quantity (mínimo)	Backwashing time (minimum)	Nº of cartridges sections	Code
		< 50ppm	50/100ppm							
700	4" Flange	219	132	5.980	8.058	75	105	5"	5 x **T28P135**	**AM4S**
700	4" Flange	350	211	9.568	12.893	120	167	5"	8 x **T28P135**	**AM6B4S**
1.050	6" Flange	350	211	9.568	12.893	120	167	5"	8 x **T28P135**	**AM6S**
1.400	8" Flange	394	237	10.764	14.089	135	188	5"	9 x **T28P135**	**AM8S**
1.480	10" Flange	481	290	13.156	16.481	165	229	5"	11 x **T28P135**	**AM10S**
1.800	12" Flange	525	317	14.352	17.677	180	250	5"	12 x **T28P135**	**AM12S**
2.760	14" Flange	805	425	18.313	29.030	210	292	5"	1 x **PVC400**	**A14ETXLS**
									Rubber nozzle	**BAAG**
									Electric motor with control box 220V	**MOEB050**

- Ask for low **cleaning pressures.**
- Ask if you need an **stabilizing valve.**

G*: security area for the cartridge removal.

A	B (mm)	C (mm)	D (mm)	E (mm)	F (Ø)	G* (mm)	H (mm)	Net weight (kg)	Package dimension (mm)	Package weight (kg)	Package volume (m^3)	Code
4" Flange	450	406	1.590	760	3" Thread	1.270	1.440	190	1.900x700x850	210	1,024	**AM4S**
4" Flange	800	406	1.995	741	3" Thread	1.270	1.835	195	1.900x700x850	214	1,024	**AM6B4S**
6" Flange	800	406	2.010	760	3" Thread	1.270	1.840	195	1.900x700x850	214	1,024	**AM6S**
8" Flange	1.100	406	2.145	760	3" Thread	1.405	1.975	210	2.050x700x850	250	1,105	**AM8S**
10" Flange	1.100	406	2.415	760	3" Thread	1.675	2.240	235	2.320x700x850	275	1,250	**AM10S**
12" Flange	1.370	406	2.550	760	3" Thread	1.810	2.380	276	2.540x700x870	302	1,546	**AM12S**
14" Flange	1.370	600	2.415	795	3" Thread	1.400	2.380	525	2.500x820x850	570	1,920	**A14ETXLS**

RIO8 SINGLE-FILTER PROGRAMMER OPTION FOR ELECTRIC CLEANERS

Programmer Kit **RIO8**	Contents: programmer + inductive sensor + solenoid + differential pressure regulator + microtube.	**Code:** RIO8AMS	**+ INFO PAG. 48**
	The valve opening and closing is not included **in the cleaning duration.**		

Lama
Eko
Lama
Eko

Lama
AutoMesh

REYMSA

Lama Evolu
Lama Evolu

INFORMATION

- **Includes:** filter + motor + Valves + pressure recorder + microtube + suction pad.

2,5 BACKWASHING PRESSION Kg/cm²

disponible PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

STANDARD 190µm

nanoPLUS+ TECHNOLOGY

Cleaning operation in 5 seconds ✔

SEE PROGRAMMERS

SEE SCREENS

Optional ebonised manufacture ✔

Available for seawater ✔

A3CMIS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 190 µm.

Flow limit 3m. H.D.	Max. recommended flow (m³/h)		Filtration surface (cm²)	Backwashing pression (kg/cm²)	Backwashing flow (m³/h)	Wash water quantity (ℓ)	Backwashing time (minimun)	Code
	< 50ppm	50/100ppm						
374	127	77	2.533	1	22	25	5"	**A3CMIS**
670	227	137	4.180	1	39	38	5"	**A4CMIS**
768	261	158	4.500	1	45,5	43	5"	**A5CMIS**
1.010	343	207	6.035	1	58,5	76	5"	**A6CMIS**
1.321	449	271	9.283	1	83,5	88	5"	**A8CMIS**
1.408	479	289	9.990	1	90	113,75	5"	**A10CMIS**

A (Ø)	**B** (mm)	**C** (mm)	**D** (mm)	**E** (mm)	**F** (Ø)	**Net weight** (kg)	**Gross weight** (kg)	**Package volume** (m³)	**Code**
3" Thread H	316	406	880	660	2" Thread H	113,5	159,5	0,53	**A3CMIS**
4" Flange	486	406	1.131	713	2" Thread H	119	169	0,58	**A4CMIS**
5" Flange	600	406	1.100	664	2" Thread H	125	175	0,77	**A5CMIS**
6" Flange	585	406	1.292	729	2" Thread H	152	229,5	0,91	**A6CMIS**
8" Flange	750	406	1.647	815	3" Thread H	199	280	1,18	**A8CMIS**
10" Flange	750	406	1.700	664	3" Vic	215	300	1,3	**A10CMIS**

INFORMATION

- **Includes**: filter + hydraulic bottle + valve + pressure recorder + microtube.

2,5 BACKWASHING PRESSION Kg/cm²

PRES MAX 8 Kg/cm² 114 psi

STANDARD 190µm

SEE PROGRAMMERS

SEE SCREENS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 190 µm.

EKOSE2S

A (⌀)	D (mm)	E (mm)	F (⌀)	Net weight (kg)	Package dimensions (mm)	Package weight (kg)	Package volume (m³)	Code
2"	320	707	1" H	8	860x600x350	10	0,180	**EKOSE2S**
2"	320	707	1" H	8	860x600x350	10	0,180	**EKOSE2XLS**
3"	320	886	1" H	11	860x600x350	13	0,180	**EKOSE3S**

Flow limit 3m. H.D	Max. Recommended flow (m³/h)		Filtration surface (cm²)	Backwashing flow (m³/h)	Backwashing time (minimum)	Code
	< 50ppm	50/100ppm				
59	20	12	591	4	20"	**EKOSE2S**
59	40	24	1.040	6	20"	**EKOSE2XLS**
80	40	24	1.040	6	20"	**EKOSE3S**

2" filtering cartridge 190µm	**CEKS220**	3" filtering cartridge 190µm	**CEKS320**

SINGLE-FILTER PROGRAMMER FOR HYDRAULIC CLEANERS

Programmer Kit **Mini's**	Includes: programmer, inductive sensor, solenoid, differential pressure regulator and microtube.	**Code:** FLMSPRES	**+ INFO PAG. 48**
	With this programmer **the duration of the wash is automatic**. It is not modifiable by the end user and can be used with batteries, 220V or 12V battery.		

- Ask for **other screen sizes.**

Metálicos Centrifuge screen filters. METAL SCREEN FILTERS.

PRES MAX 10 Kg/cm² 142 psi

Available PRES MAX 16 Kg/cm² 228 psi

STANDARD 130µm

nano TECHNOLOGY

SEE PROGRAMMERS

SEE SCREENS

FCY6

FC4C

A	B (mm)	C (mm)	D (mm)	E (mm)	F	Net weight (kg)	Gross weight (kg)	Package volumen (m^3)	Limit flow (m^3/h)	Filtration surface (cm^2)	Description	Code
2" Thread M	450	165	660	560	3/4"	16	18	0,089	22	1.071	2" centrifuge filter	**FCY2**
3" Flange	500	165	825	570	3/4"	23	26	0,158	37,7	1.590	3" centrifuge filter	**FCY3**
4" Flange	700	219	840	575	3/4"	33	46	0,25	73,5	2.312	4" centrifuge filter	**FC4C**
5" Flange	700	250	990	650	3/4"	40	68	0,27	73,5	3.116	5" centrifuge filter	**FCY5**
6" Flange	730	320	995	900	3/4"	68	88	0,432	148	5.404	6" centrifuge filter	**FCY6**
Automatic cleaning kit 1" 220V: valve, timer, convertor, solenoid and filter.												**KL1C**
Automatic cleaning kit 1" battery: valve, programmer, boost solenoid and filter												**KL1MO**

- Ask for waste accumulator tank, equipped with valve and programmer.

Metálicos Stainer filters. METAL SCREEN FILTERS.

PRES MAX 10 Kg/cm² 142 psi

Available PRES MAX 16 Kg/cm² 228 psi

STANDARD 130µm

nano TECHNOLOGY

SEE SCREENS

FYC8CD

FCL4

Brida	Body length (mm)	Body diameter (mm)	Inside diameter (mm)	Description	Pressure 10 kg/cm² Code	Pressure 16 kg/cm² Code
3"	230	150	110	Y form Stainers filter	**FYC3CD**	**FYC3CP6**
				L form Stainers filter	**FCL3**	**FCL3P16**
4"	301	150	110	Y form Stainers filter	**FYC4CD**	**FYC4P6**
				L form Stainers filter	**FCL4**	**FCL4P16**
6"	350	200	160	Y form Stainers filter	**FYC6CD**	**FYC6CP6**
8"	440	320	200	Y form Stainers filter	**FYC8CD**	**FYC8CP6**
12"	725	430	315	Y form Stainers filter	**FY12CD**	**FY12CP6**

- Ask for more filters models and inches.

Senior 2" **thread**

Senior 3" **connection**

SEE SCREENS

PRES MAX 8 Kg/cm² 114 psi

STANDARD 130µm

Senior 2"

Senior 2"XL

Senior 3"

Senior 3"XS

PRES MAX 10 Kg/cm² 142 psi

STANDARD 130µm

Senior 3" ringlock clamp

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 130 µm.

Filtration surface (cm^2)	Net weight (kg)	Gross weight (kg)	Package volume (m^3)	Limit flow (m^3/h)	Description	Code
1.240	5,5	6	0,04	25	Senior 2" filter · Screen · Thread B.S.P.	**FMS2**
1.085	5,5	6	0,04	25	Senior 2" filter · Screen centrifuge · Thread B.S.P.	**FCS2**
1.795	7,5	8	0,07	45	Senior 2" XL · Screen · Thread B.S.P.	**FMS2XL**
1.240	6,5	7	0,04	25	Senior 3"XS filter · Screen · Vic.	**FMS3XS**
1.550	7	8	0,07	50	Senior 3" filter · Screen · Vic · Ringlock clamp	**FMS3AB**
1.550	7	8	0,07	50	Senior 3" filter · Screen · Vic.	**FVM3**
1.550	7	8	0,07	50	Senior 3"· Screen · Thread B.S.P.	**FMS3**
1.485	7	8	0,07	33	Senior 3" filter · Screen centrifuge - Vic.	**FVC3**
1.485	7	8	0,07	33	Senior 3" filter · Screen centrifuge · Thread B.S.P.	**FCS3**

INFORMATION

- **Includes:** filter + brush cleaning mechanism + valve + pressure recorder + handle.

Available PRES MAX 16 kg/cm² 228 psi

PRES MAX 8 kg/cm² 114 psi

STANDARD 130µm

nano TECHNOLOGY

SEE SCREENS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 130 µm.

A (mm)	**B** (mm)	**C** (mm)	**D** (mm)	**E** (mm)	**F** (Ø)	**Filtration surface** (cm²)	**Net weight** (kg)	**Limit flow** (m³/h)	**Code**
3" Flange	500	220	765	450	595	1.593	27	45,8	**FCM3000**
4" Flange	700	220	970	970	700	2.389	37	73,5	**FCM4000**
6" Flange	700	220	1.110	675	825	3.185	47	159,6	**FCM6000**

INFORMATION

NEW PRODUCT

PRES MAX 10 Kg/cm² 142 psi

Available PRES MAX 16 Kg/cm² 228 psi

STANDARD 130µm

nano TECHNOLOGY

SEE SCREENS

HEAD LOSS

Results obtained in our factory with approved measuring instruments, using clean water as a liquid for assessment and Lama screen of 130 µm.

FM6000

FM3000

FM4000

A	B (mm)	C (mm)	D (mm)	E (mm)	Filtration surface (cm²)	Net weight (kg)	Gross weight (kg)	Package volume (m³)	Limit flow (m³/h)	Description	Code
2" Thread H	319	165	230	540	1.037	11,5	12	0,032	25	2" vertical (external screen)	**GL2V**
3" Thread H	275	165	230	666	1.443	14	15	0,070	50	3" vertical (external screen)	**GL3V**
2" Thread M	450	165	605	504	1.037	12,5	13	0,070	25	2" leaning (external screen)	**FMY2**
3" Flange	500	165	752	500	1.490	20	22	0,089	50	3" leaning (external screen)	**FMY3**
3" Flange	500	219	500	450	1.593	20	22	0,089	50	3" leaning (injected screen)	**FM3000**
4" Flange	700	219	785	500	2.162	30	43	0,250	80	4" leaning (external screen)	**FM4B**
4" Flange	700	250	825	600	2.897	37	50	0,250	80	4" leaning (inside screen)	**FMY4**
4" Flange	700	219	700	970	2.389	37	50	0,250	80	4" leaning (injected screen)	**FM4000**
5" Flange	700	250	825	600	2.897	39	65	0,250	100	5" leaning (inside screen)	**FMY5**
6" Flange	730	320	986	923	5.038	65	85	0,432	150	6" leaning (inside screen)	**FMY6**
6" Flange	700	219	840	675	3.185	65	85	0,432	150	6" leaning (injected screen)	**FM6000**
8" Flange	900	430	1.340	1.250	10.897	133	153	0,890	200	8" leaning (inside screen)	**FMY8**
10" Flange	1.000	430	1.525	1.430	13.112	167	190	1,270	300	10" leaning (inside screen)	**FM10**
4" Flange	649	250	840	310	2.897	39	59	0,158	80	4" horizontal (inside screen)	**FML4**
6" Flange	1.420	320	1.680	380	8.454	99	119	0,180	150	6" horizontal (inside screen)	**FML6**
6" Flange	995	219	1.250	350	4.778	70	90	0,200	150	6" horizontal (injected screen)	**FML6000**
8" Flange	1.645	320	1.930	270	9.868	100	140	0,900	200	8" horizontal (inside screen)	**FML8**
10" Flange	1.623	430	1.950	540	15.327	110	150	1,000	300	10" horizontal (inside screen)	**F10L**
12" Flange	1.848	430	2.250	590	17.541	125	160	1,140	420	12" horizontal (inside screen)	**F12L**

- **Available in more inches**, ask us.

RIO8 MULTI-STATION KIT

		220V AC	12V DC
		Code	Code
Number of stations	1	CE1001SC	CE2001LA
	2	CE1002SC	CE2002LA
	3	CE1003SC	CE2003LA
	4	CE1004SC	CE2004LA
	5	CE1005SC	CE2005LA
	6	CE1006SC	CE2006LA
	7	CE1007SC	CE2007LA
	8	CE1008SC	CE2008LA
	9	CE1009SC	CE2009LA
	10	CE1010SC	CE2010LA
	11	CE1011SC	CE2011LA
	12	CE1012SC	CE2012LA
	13	CE1013SC	CE2013LA
	14	CE1014SC	CE2014LA
	15	CE1015SC	CE2015LA
	16	CE1016SC	CE2016LA
Description		RIO8 programmer + swivel bend + solenoid + pressure sensors + microtube	
Programmer support		PPCS1M	

- Ask **for more stations.**

CE1006SC

RIO8 Y MINI'S KIT FOR A SINGLE STATION

RIO8: for electrical systems
Code
RIO8AMS
Description: RIO8 + pressure sensors + solenoid + microtube.
MINI'S: for hydraulic systems
Code
FLMSPRES
Description: Mini's + inductive sensors + solenoid + differential pressure regulator + microtube.

RIO8AMS

FLMSPRES

For other **programmer kit** (e.g. in centrifuges), **ask us** or **visit the section in our e-commerce**. **Remember, this product is supplied separately.**

HEAD LOSS

A	B (mm)	C (mm)	D (mm)	E (mm)	Net weight (kg)	Gross weight (kg)	Package volume (m^3)	Limit flow (m^3/h)	Description	Code
1½" Thread M	102	130	462	168	9,20	9,20	0,06	12	Hidrociclón 1½" (sin patas)	**HI1M**
2" Vic	140	185	1.057	250	21,80	21,80	0,35	22	Hidrociclón 2" "Vic"	**HID2P**
2" Thread M	200	245	1.117	250	21,80	21,80	0,35	22	Hidrociclón 2" + Enl. Rosca	**HI2EP**
3" Flange	165	210	1.208	300	29,80	49,80	0,56	25	Hidrociclón 3"	**HID3CP**
3'' Flange	200	313	1.600	500	50,60	76,60	1,14	50	Hidrociclón 3"	**HID3P**
4'' Flange	225	302	1.600	500	50,60	76,60	1,14	60	Hidrociclón 4"	**HID4P**
4" Flange	225	302	1.600	500	50,60	90,50	1,14	75	Hidrociclón 6"	**HID6P**
									Automatic cleaning kit 2" 220V (valve, timer, transformer, solenoid and filter) for one hydrocyclone	**KL2C**
									Automatic cleaning kit 2" batteries (valve, programmer, solenoid and filter) for one hydrocyclone	**KL2MO**
									Hydrocyclone support 1½"	**SH1M**

Flow limit 4m. H.D	Max. recommended Flow (m^3/h)	Description			Without drainage collector	With drainage collector
		Nº filter	Code	Dimensions	Code	Code
32	44	2	HID2	Ø4"	**HID2PX2**	**HID2P2D**
74	100	2	HID3	Ø6"	**HID3PX2**	**HID3P2D**
111	150	3	HID3	Ø6"	**HID3PX3**	**HID3P3D**
148	200	4	HID3	Ø8"	**HID3PX4**	**HID3P4D**
222	300	6	HID3	Ø10"	**HID3PX6**	**HID3P6D**
90	120	2	HID4	Ø6"	**HID4PX2**	**HID4P2D**
135	180	3	HID4	Ø8"	**HID4PX3**	**HID4P3D**
180	240	4	HID4	Ø8"	**HID4PX4**	**HID4P4D**
270	360	6	HID4	Ø10"	**HID4PX6**	**HID4P6D**

INFORMATION

Body: cast steel.
Membrane: synthetic rubber nitrile 60º Shore.
Shaft: stainless steel.
Shaft Valve: vulcanized rubber.
Cover: glass fiber reinforce plyamide.

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

HEAD LOSS

Max. recommended flow (m³/h)		Weight (kg)	Package volume (m³)	Description	Code
Principal	Drainage				
60	32	8	0,026	3x2x3 Globo basic connection Vic (unequipped).	**VN32**
150	61	17	0,043	4x3/4x4 Globo basic connection Vic (unequipped).	**VN44**
60	32	8	0,026	3x2x3 Globo connection Vic, equiped with solenoid 24V AC N.C.	**VC32**
150	61	17	0,043	4 x 3/4 x 4 Globo connection Vic, equipped with solenoid 24V AC N.C.	**VC44**

Membrane KIT	
Description and use	**Code**
Membrane, spring, pin and joint ring. **Used on Globo Valve VN44**.	**MEN4TO**
Membrane, spring, pin and joint ring. **Used on Globo Valve VN32 y VG22.**	**MENVTO**

INFORMATION

Body: glass fiber reinforced polyamide.
Membrane: synthetic rubber nitrile 60ª Shore.
Shaft: stainless steel.
Shaft valve: vulcanized rubber.
Cover: glass fiber reinforced polyamide.

Available PRES MAX 16 Kg/cm² 228 psi

PRES MAX 10 Kg/cm² 142 psi

HEAD LOSS

Max. recommended flow (m³/h)		Weight (kg)	Package volumen (m³)	Description	Code
Principal	Drainage				
60	32	2	0,026	3 x 2 x 3 Globo Plastic connection Vic (unequipped).	**VP32**
60	32	2,5	0,026	3 x 2 x 3 Globo Plastic connection Vic, equipped with solenoid 24V AC N.C.	**VPE3**
60	32	10,50	0,030	3 x 2 x 3 Globo Plastic: 2 connection Vic + 2 flanges (unequipped).	**VP32BRI**

Accessories and spare parts

Most of our spare parts and accessories are available in our e-commerce
www.lamastore.es
We invite you to place your orders using this service.

Accessories.

Description	Code
New programmer Mini's (no adjusted) for filters EKO, EKOLU y EKOSENIOR (valid for 220V and 12V).	**FLMS**
Programmer **RIO**.	**RIO8**
Programmer **RIO 16**.	**RIO16**
1/4'' LAMA glycerine pressure gauge (rank of measure from 0 to 10 Kg/cm²). Please ask for others ranks.	**MANO**
Pressure gauge with maximun indicator of 16 Kg/cm².	**MANA**
PLAMA differential pressostat (0-1 Kg/cm²) electric signal.	**PRES**
Pressure sensor for programmers.	**SPI8**
Hydraulic relay (equipped).	**CSLC**
Hydraulic relay (unequipped).	**CEBM**
Standard solenoid 1/8'' 24 VAC N.C.	**SLNC**
Standard solenoid 1/8'' 24 VAC N.A.	**SLNA**
Latch solenoid 1/8''.	**LACHBA**
12V battery equipped with charge controller and waterproof case.	**BATEEQ**
Battery 12V.	**BATE**
Solar collector 12V.	**PLAC**
1" Hydraulic plastic valve.	**VH1P**
1½" Hydraulic plastic valve.	**VH112P**
2" Hydraulic plastic valve.	**VH2P**
2" Hydraulic metallic valve.	**VHC2**
3" Hydraulic mettalic valve.	**VH3C**
LAMA "2" automatic suction pad, double effect.	**VE2L**
LAMA "1" automatic suction pad, double effect.	**VE1L**
LAMA "1" sphere suction pad, double effect.	**VV1L**
Option connection flange 3" valve 3×2×3.	**KCV3**
Option connection flange 4'' valve 3×2×3.	**KCV4**
Grooved Vic 2" to thread BSP 2" (metal).	**PON2**
Grooved Vic 3" to thread BSP 3" (metal).	**PON3**
Grooved Vic 4" to thread BSP 4" (metal).	**PON4**

Programmer **RIO (RIO8)**

Programmer **Mini´S (FLMS)**

Glycerine pressure gauge **(MANO)**

Pressure gauge **(MANA)**

Differential pressostat **(PRES)**

Sensor **(SPI8)**

Solenoid latch **(LACHBA)**

Hydraulic plastic valve **(VH1P, VH112P, VH2P)**

Suction pad 1" **(VE1L)**

Hydraulic relay **(CEBM)**

Solenoid **(SLNC / SLNA)**

Hydraulic metallic valve **(VHC2, VH3C)**

Suction pad 2" **(VE2L)**

Grooved "Vic" **(PON2, PON3, PON4)**

Description	Code
220V Electrical motor for suction scanner.	**MOEL220**
3" LAMA stabilizing valve completely equipped.	**VSL3**
4" LAMA stabilizing valve completely equipped.	**VSL4**
6" LAMA stabilizing valve completely equipped.	**VSL6**
8" LAMA stabilizing valve completely equipped.	**VSL8**
10" LAMA stabilizing valve completely equipped.	**VSL1**
12" LAMA stabilizing valve completely equipped.	**VS12**
14" LAMA stabilizing valve completely equipped.	**VS14**
3" LAMA stabilizing valve completely equipped for ITS.	**VSL3INT**
4" LAMA stabilizing valve completely equipped for ITS.	**VSL4INT**
6" LAMA stabilizing valve completely equipped for ITS.	**VSL6INT**
8" LAMA stabilizing valve completely equipped for ITS.	**VSL8INT**
10" LAMA stabilizing valve completely equipped for ITS.	**VSL0INT**
12" LAMA stabilizing valve completely equipped for ITS.	**VS12INT**
14" LAMA stabilizing valve completely equipped for ITS.	**VS14INT**
Butterfly valve ''sandwich'' 3''.	**VMP3**
Butterfly valve Vic 3''.	**VM3V**
Butterfly valve "sandwich'' 4''.	**VMP4**
Butterfly valve ''sandwich'' 5''.	**VMP5**
Butterfly valve ''sandwich'' 6''.	**VMP6**
Butterfly valve ''sandwich'' 8''.	**VMP8**
2" Vic connection.	**VIC2**
3" Vic connection.	**VIC3**
4" Vic connection.	**VIC4**
6" Vic connection.	**VIC6**
3" Plastic Vic connection.	**VIC3PLA**
4" Plastic Vic connection.	**VIC4PLA**
3"-2" Vic connection.	**VIC32**
4"-3" Vic connection.	**VIC43**
2" Female thread BSP to 2" Vic grooved (plastic) and joint ring.	**RHV2**
3" Female thread BSP to 3" Vic grooved (plastic) and joint ring.	**RHV3**
3'' DIN 2546 flange to 3" Vic grooved (metal).	**B3EV**
4'' DIN 2546 flange to 4" Vic grooved (metal).	**B4EV**
3'' DIN 2546 flange to 3" female thread BSP (metal).	**BR3H**
3" Flange other norms to 3" female thread BSP (metal).	Ask

Electric motor **(MOEL220)**

Stabilizing valve **(VSL3, VSL4...)**

Butterfly valve **(VMP3, VMP4...)**

"Vic" **(VIC2,VIC3...)**

Plastic "Vic" **(VIC3PLA, VIC4PLA)**

"Vic" Flange **(B3EV,B4EV)**

Media spare parts.

Filter code	Ø Body (mm)	CENTRAL COLLECTOR	VOLCANIC SAND CODE ARBA
		Code	Code
FAV1	350 B. collectors	**TEU1**	**30 kg**
FA500	500 B. collectors	**TE1½**	**100 kg**
FA700	700 B. collectors	**TEU2**	**200 kg**
FA800	800 B. collectors	**TE3C**	**300 kg**
FA950	950 B. collectors	**TEU3**	**500 kg**
FA1200	1.200 B. collectors	**TEU4**	**800 kg**
FD700	700 mushrooms	**CREP (21 units.)**	**170 kg**
FD950	950 mushrooms	**CREP (24 units.)**	**420 kg**
FD1200	1.200 mushrooms	**CREP (24 units.)**	**700 kg**

UPPER AND LOWER CLOSING JOINTS (all Sand filters)	
Code	**Size** (mm)
J175	175 x 145
Except FAV1: lower seal is **TML2** (plug).	

Disc spare parts.

Filter code	FILTERING CARTRIDGE			CLOSING JOINTS			
	NEW			UPPER		LOWER	
	Code	Size (mm)	Price (€)	Code	Size (mm)	Code	Size (mm)
FV2D	**CA2R**	110 x 345	84,82	**JFMA**	175 x 90	**JFMB**	150 x 85
FV3D	**CA3R**	110 x 495	113,17	**JFMA**	175 x 90	**JFMB**	150 x 85
FY2D	**CA2R**	110 x 345	84,82	**JFMA**	175 x 90	**JFMB**	150 x 85
FY3D	**CA3R**	110 x 495	113,17	**JFMA**	175 x 90	**JFMB**	150 x 85
FD4D	**(2)CA3R**	110 x 495	226,34	**(2)JFMA**	175 x 90	**(2)JFPD**	120 x 80
FDS2	**CS2R**	110 x 345	85,69	-	-	**T103**	98 x 3
FVD3/FDS3	**CS3R**	110 x 500	114,05	-	-	**T103**	98 x 3
FDC2	**CRC2**	110 x 325	129,09	**T103**	98 x 3	-	-
FVA3/FDC3	**CRC3**	110 x 470	145,18	**T103**	98 x 3	-	-

	Filter code	Size	Nº tower	190µ	130µ	100µ	250µ	50µ	20µ
Number of disc in an AutoSenior filter	**FAS3TR**	3"	1	337	401	Ask	335	500	510
	FA4P	4"	2	337	401	Ask	335	500	510

Description	Code
LAMA parallel **green** disc (disc opening **20** microns)	**ANVE**
LAMA parallel **blue** disc (disc opening **50** microns)	**ANAZ**
LAMA parallel **orange** disc (disc opening **100** microns)	**ANNA**
LAMA parallel **yellow** disc (disc opening **115** microns)	**ANAM**
LAMA parallel **red** disc (disc opening **190** microns)	**ANIL**
LAMA parallel **brown** disc (disc opening **250** microns)	**ANMA**

Filter code	FILTERING CARTRIDGE			CLOSING JOINTS			
	NEW		SCREEN REPLACEMENT	COVER JOINT		INSIDE JOINT	
	Code	Size (mm)	Code	Code	Size (mm)	Code	Size (mm)
GL2V	CGL2	110 x 344	MGL2	JFMA	175 x 90	JFMB	150 x 85
GL3V	CFM3	110 x 494	MFM3	JFMA	175 x 90	JFMB	150 x 85
FMY2	CGL2	110 X 344	MGL2	JFMA	175 x 90	JFMB	150 x 85
FMY3	CFM3	110 x 494	MFM3	JFMA	175 x 90	JFMB	150 x 85
FM4B	CF4B	160 x 488	MF4B	J4BA	230 x 125	J4BB	205 x 125
FMY4	CFM4	160 x 654	MFM4	JTLA	260 x 130	JTLB	235 x 125
FMY5	CFM5	160 x 654	MFM5	JTLA	260 x 130	JTLB	235 x 125
FMY6	CFM6	200 x 891	MFM6	JF6A	335 x 160	JF6B	215 x 165
FMY8	CFM8	315 x 1230	MFM8	J315/JA35	330 x 275	J315	330 x 275
FM10	CF10	315 x 1480	MF10	J315/JA35	330 x 275	J315	330 x 275
FML4	CFM5	160 x 654	MFM5	JTLA	130 x 260	JTLB	235 x 125
FML6	CFL6	200 x 1495	MFL6	JF6A	160 x 335	JF6B	215 x 165
FML8	CFL8	200 x 1745	MFL8	JF6A	160 x 335	JF6B	215 x 165
F10L	CL10	315 x 1730	ML10	J315/JA35	330 x 275	J315	330 x 275
F12L	CL12	315 x 1980	ML12	J315/JA35	330 x 275	J315	330 x 275
F16L	CL16	400 x 1874	ML16	JB24	-	T103	98 x 3
FMS2	CMS2 *	110 x 348	MMS2	JSB355	204 x 180	T103	98 x 3
FVM3/FMS3	CMS3 *	110 x 501	MMS3	JSB355	204 x 180	T103	98 x 3
A1MI	CA11/2	160 x 210	MA1½	JCA2	230 x 65	JFA2	210 x 127
A2CI	CAU2	160 x 280	MAU2	JCA2	230 x 65	JFA2	210 x 127
A3CI	CAU3	315 x 280	MAU3	JCA4	420 x 95	J315	330 x 275
A4CI	CAU4	315 x 463	MAU4	JCA4	420 x 95	J315	330 x 275
A5CI	CAU5	315 x 519	MAU5	JCA4	420 x 95	J315	330 x 275
A6CI	CAU6	315 x 668	MAU6	JCA4	420 x 95	J315	330 x 275
A8ETMBI	C8EG200	315 x 1039	MA8ET	JCA4	420 x 95	J315	330 x 275
A10ETBI	C10EG20	315 x 1095	M10C	JCA4	420 x 95	J315	330 x 275
A12ETBI	C12EG20	315 x 1299	M12A	JCA4	420 x 95	J315	330 x 275
FCY2	CFY2	110 x 344	MFY2	JFMA	175 x 90	JC3B	150 x deflector
FCY3	CFY3	110 x 494	MFY3	JFMA	175 x 90	JC3B	150 x deflector
FC4C	CF4C	160 x 488	MF4C	J4BA	230 x 125	J4CB	205 x deflector
FCY5	CFM5	160 x 654	MFM5	JTLA	260 x 130	JC4B	235 x deflector
FCY6	CFY6	200 x 891	MFY6	JF6A	335 x 160	JF6B	215 x 165
FCS2	CCS2	110 x 331	MCS2	T103	98 x 3	JFSA	120 x deflector
FVC3/FCS3	CCS3	110 x 480	MCS3	T103	98 x 3	JFSA	120 x deflector

Cartridge sections with external screen			
Ø 310	142 mm	0,190 mm screen	T28P135
Ø 160	176 mm		T14P176
Ø 310	142 mm	0,130 mm screen	T28P13R
Ø 160	176 mm		T14P17R

310 Ø sections for filters 8' and larger.
160 Ø sections for filters up to 6'.

COMEBA
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Lama

SALES CONDITIONS

ORDERS

All orders must be made in writing and signed by a duly accredited person, indicating the place of destination and means of transport for the goods. Orders can be anticipated by telephone and must be ratified in writing. The accepted orders will be subject to the terms and conditions of sale of **FERNANDO LAMA S.L.U** and **LAMA SISTEMAS DE FILTRADO S.L.U.**

Orders must be placed by e-mail to the address: **lama@lama.es** .
- If it is a new item, you must indicate que quantify and the code or trade name of it.
- It is a spare material, in addition to the quantify and the code or trade name of the selected item, you must also indicate the lot number or the purchase invoce of the station fow which the spare parts are intended.
- If it is an old equipment, we have the necessary spare parts and you can request them in writting in any of the ways mentioned above.

On our website you can find all descriptions and take apart of the equipment you need **www.lama.es.**

Our goods are served under reservation of title until full payment of the debt according to Law 3/2004 of december 29

SHIPPING

Unanticipated freight and costs (packaging, sea and air shipments) are under the **responsibility and risk of the buyer**, as well as the import documentation in the countries of destination and the extra documents required by the banks.

The **goods always travel at the risk of the buyer**, and the insurance is at the buyer's expense. The company considers the goods to be ready for dispatch corretly packed and placed on the truck, at the factory. Please check the goods received. In the event of any incident, please leave a written record on the agency's delivery note. Any damage produced during transport must be claimed to the agency offering the service within a maximum period of 24 hours from receipt of the goods.

LAMA sells EX-WORKS.

RETURN

No returns of claims will be accepted after 15 days of receipt.

Returns will be charged with **10% of the invoiced amount for packaging costs** and must come with their original packaging in perfect condition.

The use of the products for aims and pressures different from the recommended ones, will exempt to **FERNANDO LAMA, S.L.U** and **LAMA SISTEMAS DE FILTRADO, S.L.U**, of any responsibility.

PAYMENT

CASH

Those orders paid to LAMA SISTEMAS DE FILTRADO S.L.U or FERNANDO LAMA S.L.U, before the expedition of the material, are considered cash sales.

DEFERRED PAYMENT

Applicable only to distributors who have met the company business requirements. Payment will be made, at the latest **60 days after the invoice date** (Law 15/2010 of july 5th), direct debited, acepted by bank transfer and guaranteed by the insurance company.

-The method of payment by confirming will lead to an increase in financial expenses of **2.5%.**

-The **first order** (new customer) **will be made in cash.**

-The materials remain the property of the manufacturer until **full payment is made.**

-Orders will be accepted and invoiced at the prices in force on the **date of dispatch.**

-**FERNANDO LAMA S.L.U** or **LAMA SISTEMAS DE FILTRADO S.L.U can change the prices without notifying the customer.**

-The expressed prices in the price list do not include taxes. In the event of non-payment, interest on arrears and other costs incurred shall be borne by the purchaser.

-The invoice will be in **euros (€).**

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IMPORTANT WARNING: the price list for the current fiscal year 2025, that is published herein, is merely informative and is an estimation, so it could undergo changes throughout the year due to possible changes in the price of raw materials. The company is neither subject to nor obliged to maintain the prices indicated in the tariff, nor to publish any potential variation thereof.

Lama
Sistemas de filtrado / Filtration systems

www.lama.es

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