

**AGRICULTURE**

**scarabelli**  
IRRIGAZIONE



# FILTRATION



FILTER SERIES SF100



FILTRO SERIES SF200



SCREEN FILTER



DISK FILTERS



Y FILTER WHIT  
CYCLON EFFECT



DOUBLE BODY MODULAR  
FILTRATION SYSTEM



DISK FILTERS  
SERIE MS



HYDROCLON Y  
SERIES



POLIPROPILEN FILTER  
HYDROCLON



SAND FILTERS



BACKWASHING  
PROGRAMMER

## AUTOMATIC SCREEN INOX FILTER

Latest generation automatic filters with cleaning mechanism driven by electric or hydraulic motor designed to work with various types of mesh with filtration levels from 800 to 12 microns, available with inlet/outlet connections from 2" to 14". Filtering surface from 1000 cmq to 51000 cmq. Equipped with two prefilters, one larger to protect the cleaning mechanism from large debris and a fine mesh to remove the smaller debris. The waste collect on the internal surface of the fine mesh.

## DISK AND SCREEN FILTERS

The mono-cartridge Y series filter is designed for agricultural applications as a safety or head filter particularly for the removal of inorganic particles, where a medium level of filtration is required.

## MS DISK FILTERS SERIES

**MATERIALS:** Polypropylene structure and cover in polypropylene – pin (disk support) – polypropylene disk.

**FILTRATION LEVEL:** 120 mesh.

The filters are designed in accordance with vortex system: helical effect produced by deflector lugs at the base of the cartridge, that rotate projecting the heavier particles against the cover of the filter, thereby reducing the cleaning frequency to a minimum.

## DOUBLE BODY MODULAR FILTRATION SYSTEM

**MATERIALS:** in polypropylene.

**FILTRATION LEVEL:** from 25 to 200 micron.

## Y SERIES VORTEX FILTERS

Made by an extra-resistant epoxy and polyester protective layer. The filters are previously subjected to a de-oxidant, acid phosphating chemical treatment as an additional anti-corrosion protection. Maximum recommended operating pressure: 8 bar. Thickness of metal part: 3 mm. Horizontal inlet and vertical outlet.

**Diameters:** from 2" to 4"

## VORTEX FILTERS IN POLYPROPYLENE

**Diameters:** 2" – 2" 1/2 - 3" made in polypropylene to be more resistant to the chemical components.

## FILTERS QUARTZITE UNITS

The quartz sand filter is particularly suitable in the presence of water rich in organic substances and microorganism, typical of surface water such as canals and lake. The filtering capacity is proportional to the average granulometry of the quartz sand (0.8-1.2 mm) or the grit (crushed silica) and the concentration of the suspended solids in the water (T.s.s.) measured in mg/l or p.p.m. (1 mg/l = 1 p.p.m), able to give indication of the type of water to be treated.

## BACKWASHING PROGRAMMER

From 2 to 6 filters with stand by. Power: in 230V-12V DC out 12V DC. Available also with solar panel.

# FERTIRRIGATION



FERTIRRIGATION KIT



FERTICONTROL CE



PREMIXED FERTIRRIGATION  
MACHINE



FERTICONTROL S A

## FERTIRRIGATION KIT

Tanks with different size and shape with agitator, electronic panel and dosing pump installed.

## FERTICONTROL CE

**APPLICATIONS** Focused on solving the problems inherent the managing of fertilizer and acidification, control of fertilizer and acid injection through a probe. Compact and easy to install, represents the best solution and investment for the small farms. **TECHNICAL FEATURES** • Size: height cm.130 – width cm.70 – depth cm.50 • Supporting frame: aisi 304 s/s • Machinery minimum working pressure 1,5 bar • Machinery maximum working pressure 4 bar (except for 3 suction standard bench, 3 bar) • n.2 fertilizer suction by Venturi injection lt/h 400 max each one • Horizontal multi-stage close coupled s/s pump – 1 hp – single-phase, the fertilizer injection devices (Venturi) are situated in suction • Injection fertilizer capacity displayed on the flowmeters • LCD display digital tool inside the control panel to monitor the two e-valves through two different proportional band EC set point • LCD display digital tool inside the control panel to monitor the water Ph through proportional band signal in 4-20 mA to proportioning pump • LCD display digital PH proportioning pump (8 lt/h – 8 bar), adjustable by proportional band signal in 4-20 mA optimized by a Ph tool situated into the control panel • Electronic control panel compliant with the current standards: - Size 40H x 30L x 15P - IP 55 plastic material case - Interlocking device main switch - LCD display to visualize electric data - Cos-f motor protection - Max absorbing 6 amper 230 V single-phase.

## PREMIXED FERTIRRIGATION MACHINE

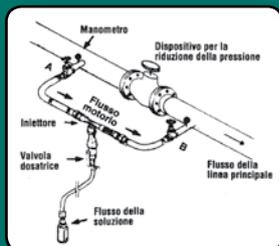
Structure in Aisi 304 steel.  
Tank from 200 to 1000 lt. Supply pump sized till 4 venturi injections (standard) available until 8 injections. Controlled by Agronic 4000/5000 or 7000.  
Supply pump and automation are chosen considering flow rate of the irrigation system.

## FERTICONTROL S A

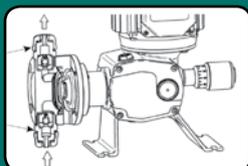
**DESCRIPTION** Equipment dedicated to solve all the problems related to management fertilisers and acidification of soil solution inside and outside of the soil. Fertigation machines working in by-pass, it is completely pre-assembled with an enter and an exit to connect the main line of the irrigation system.

- Size and weight: H 140 cm W 85 cm, D 75, max weight 100 kg; • Frame support: stainless steel AISI 304 or ion aluminium;
- Machine working pressure: min. 1,5 bar, max 6 bar;
- Centrifuge electro pump with vertical axis ( the parts in contact with liquids are made by stainless steel AISI 304) from HP 2- • 400V or 230 single phase maximum absorption 4, 3 A (400V) e 7,5 (230 single phase); • Maximum injection of each Venturi is 400 l/h; • The real range of each injection system is visible directly from the flusimeters fixed before each Venturi tube (all of Ø ½") • The models S A 2000 for the injection of the acid use a request a dosage pump of 20 l/h up to 7 bar;
- Probes in derivation for the ph control (in the S A 2000 and S A 5000 models) and the conductivity (only for S A 5000 models); Electric control panel disposed by the current normative: • plastic box IP 55; • door lock switch • manual override automatic zero Venturi suction pump with go and stop light • alarm light • irrigation pump controller • agronic 5000 or agronic 2000 depending of the choosen model.

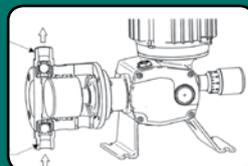
# FERTIRRIGATION



**VENTURI INJECTORS**



**PISTON**



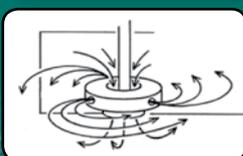
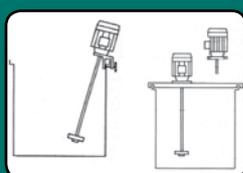
**DIAPHRAGM**

**DOSTEC**



**MULTIFERTIC**

**AGITATORS**



**VALVES**



## VENTURI INJECTORS

Injector Venturi and suction kit with Venturi, flowmeter, vinyl pipe and filter.

**Diametri:** 1/2" – 3/4" – 1" – 1.1/2" – 2" – 4"

**Materials:** PP (polypropylene) – PVDF (kinar)

**Suction min-max:** range from 4 l/h to 680 l/h

Cheap and reliable product having all components without under wear.

## DOSTEC WITH PISTON OR DIAPHRAGM

Dosing pump with positive displacement for dosing chemical products with a high yield rate and precision. They are made with materials which are compatible with most processes where a product must be dosed into a hydraulic network.

### MATERIALS

**Piston:** in high molecular weight polyethylene (PEAUAPM) or ceramic.

**Cylinder:** PP/PVDF/AISI 316.

**Diaphragm:** PTFE (politetrafluoroetilene).

**Engine:** Trifase 230/400V – Monofase 230 V 12V 130 – 300 W

**Flow Rate:** from 25 to 500 lt/h

## MULTIFERTIC WIH PISTON OR DIAPHRAGM

Injection pump with high yield rate and precision composed by engine that can support from 1 to 4 modules of independent injection of 50, 100,200, 300 or 500 l/.

### MATERIALS

**Piston:** PEAUPM (polyethylene high molecular weight).

**Diaphragm:** PTFE (politetrafluoroetilene).

### Engine

Trifase 230/400V

Monofase 230 V

12V 130 - 300 W

**Flow Rate:** from 50 to 300 lt/h

## AGITATORS WITH FLANGE OR CLAMP

Agitator exclusively designed with 6 spouts, three of them radial with centrifugal movement to produce a rotation of liquid and three of them axial to stir the bottom. Dismountable turbine without edges for greater security.

**Engine IP55:** Trhee-phase 230/400 V50

Mono-phase 230 V50 – 12 V DC.

## HYDRAULIC VALVES

Hydraulic valves have different application in agriculture and irrigation as well as for the distribution of drinking water or in industrial processes.

Hydraulic valves perform different tasks depending on how it is equipped: manual valve, electric valve, adjustment and/or maintaining pressure, valve with float etc..

### TANK OF FERTILIZER

The easy and economic way to inject fertilizer.

# AUTOMATION



**AGRONIC 2500**



**AGRONIC 4000**



## AGRONIC 2500

Complete fertigation controller, entirely configurable with great potential to use and with many extension and communication possibilities.

Equipped to control irrigation, fertilization, pumping, filter cleaning and malfunctions detection, providing detailed chronological records of events and totals.

Models have 9, 18 and 27 configurable outputs and 6 digital inputs on the base, having also several versions and options.

Extensions are available to accommodate readings from 2 analog sensors on the own base or by using the AgroBee radio system to have more inputs and outputs, reaching up to 30 irrigation sectors, 2 pumps, 4 fertilizers and mixers, 1 fertilizer general, 9 filters, 20 digital sensors, 10 meter sensors, and 10 analog sensors.

## AGRONIC 4000

Agronic 4000 is a complete controller for conventional fertigation, totally configurable and adaptable to any need of every user. Its multiply use and expansion possibilities offer to the owner all the work modalities available at present time.

Equipped for the control of irrigation, fertilization, pH, pumping and filter cleaning, plus malfunction detection and with the possibility of telemanaging the data via PC or mobile phone.

Models with 16, 24, 32, 48, 64, 80 and 96 configurable outputs, plus 12 digital sensors at the base.

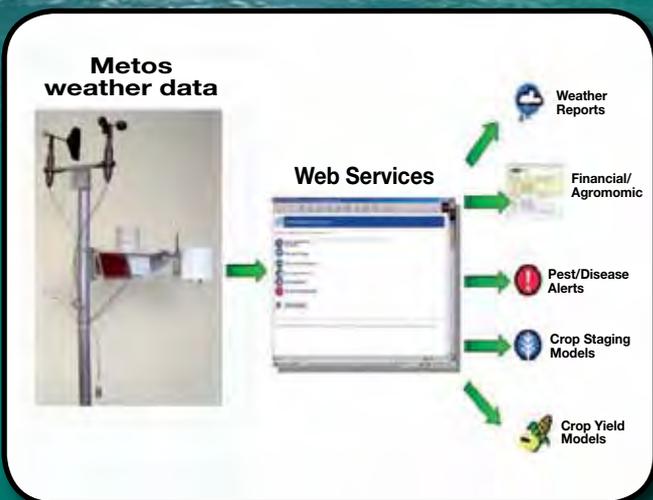
Extensions for the reading of analogical sensors; both by direct connection to the unit or by external modules (Agronic Monocable or Agronic Radio).

## KEY RADIO SYSTEM

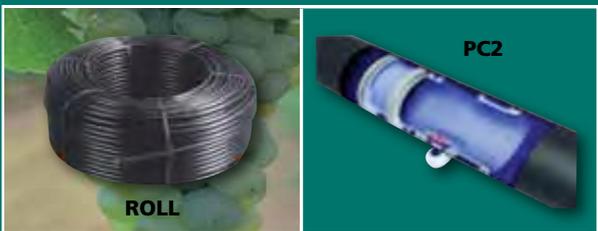
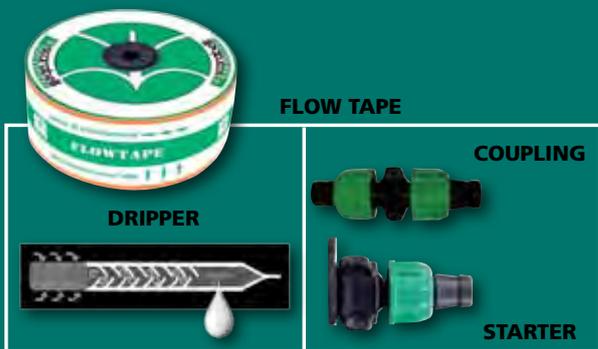
It is a radio system connection between the programmer and valves on the field. It is composed by transmission system connected to a programmer that transmit by radio to the receivers located on the field near the valves. It can be installed on all kind of programmers (also already installed) and it allows doesn't use any kind of wires.

## WEATHER STATION VIA INTERNET

All weather elements of agricultural interest are constantly observed and monitored by the weather station that transmits the data to the computer with which it is possible to interact by accessing an internet portal subject to registration. Wind, rain and temperature detector.



# IRRIGATION



## SUN-FLOW



## DRIP LINE T-SAL S1

T-sal dripline is the cost effective, thin wall dripline which is produced in a variety of pipes sizes and flow rates used on annual crops. It incorporates the Tsal dripper which can be flushed clean under high pressure, maintains high emission uniformity and has great resistance to clogging. The result of this efficient design is a coefficient of variation (CV) = 1,5%. Filtration suggested: 120 mesh  
**Diameters:** 16-22 mm. **Flow rate:** 0.6 – 1 – 1.4 – 2.3 – 3.8 lt/h.  
**Mils:** 6 – 8 – 10 – 12 – 15

## FLOW-TAPE

The Flow-tape represents the latest technological developments in the field of drip irrigation systems. Flow-tape, due to the multiple delivery point, is particularly suitable for draining soils usually intended for garden crops and flowers. Flow-tape can be utilized both in protective and open fields for the cultivation of tomato, melon, strawberry, watermelon, onion and much more.

**CHARACTERISTICS AND ADVANTAGES:** The flow outlet opening made without removal of material which closes at the end of the irrigation cycle avoiding intrusion of foreign particles and formation of salts deposit – The particular turbulent flow labyrinth allows high resistance to clogging – The high technology employed allows a good emission uniformity – Manufacturing uniformity: category A in compliance with standard ISO 9261 – The dual colored line allows you to locate on the side of the supply holes – The use of suitable raw materials offers a high resistance to wearing.

## DRIPLINE COMPENSATED PC2

It is used for multi years crops. **Diameters:** 16 (thickness 1 mm) – 20 (thickness 1,2 mm) **Flow rate:** 1.3 – 1.5 – 2.2 – 3.8 lt/h **Range of compensation:** 0.8 – 4.5 mca. **Filtration suggested:** 120 mesh.

## DRIP LINE NEW GR

GR has been providing accurate, dependable performance to growers of virtually every kind of drip irrigated crop. The continuous success of this incredible dripline is confirmed by the excellent feedback we receive daily from growers. Multipurpose and dependable, GR has a history of success in orchards, vineyards and row crop fields throughout the world, with many original systems still in use after more than 18 years. Available in both large and small diameter tubing and with four flow rate options, GR is well suited for any field situation. Range of flow rate considering.

## DRIPLINE SUPERDRIP

New flat dripper with big turbulent labyrinth. **Diameters:** 16 – 20. **Range of compensation:** 0.8-4.3 mca. **Flow rate:** 1.2 – 1.6 – 2.3 – 3.4 lt/h. **Suggested filtration:** 120 mesh.

## LAYFLAT CLAMP

The LAYFLAT SF has been used by farmer using the drip irrigation methods in the United States and throughout the world for over twenty years.

**TECHNICAL CHARACTERISTICS:** 3 yarn polyester thread both the hose and covering are extruded together in order to obtain maximum fusion.

**Operating temperature:** from -20°C to + 76°C (over +43°C the operating pressure is reduced).

The various model are recommended for the following applications:

**LAYFLAT SF-10** for drip irrigation as direct coupling is possible (by means of the appropriate connectors) to the drip emitter.

**LAYFLAT SF-55** for direct coupling (by means of the appropriate connectors) of mini sprinklers and water transportation up to 11 bar.

**LAYFLAT SF-20** for use on self-propelled and pivot machines. The reels are 91.5 m in length (300 feet)

**Diameters:** from 1" to 8".

# IRRIGATION

## MINI SPRINKLERS

Mini sprinklers system ideal for level led ground. Full circle or sector mini sprinkler. Made in plastic with stainless steel metal parts.

**Si-22** Mini sprinkler full circle with two nozzles.



### CHARACTERISTICS:

- Male connector from 1/2".
- Angle of trajectory 24°.
- Range 10-12.5 meters.
- Recommended filtration 60 mesh.
- Operating pressure 2.5-4 bar.



## S10 REMOVABLE 1/2" F SUPPORT

### COMPRISING:

- Support
- 2 clamping rings
- 1,2 m of hose 10 x 14 mm
- Removable quick connectors for PE hoses or start connector from mobile hoses

## FULL CIRCLE AND SECTOR BRONZE SPRINKLERS

Diameters: from 3/4" to 1" 1/4.

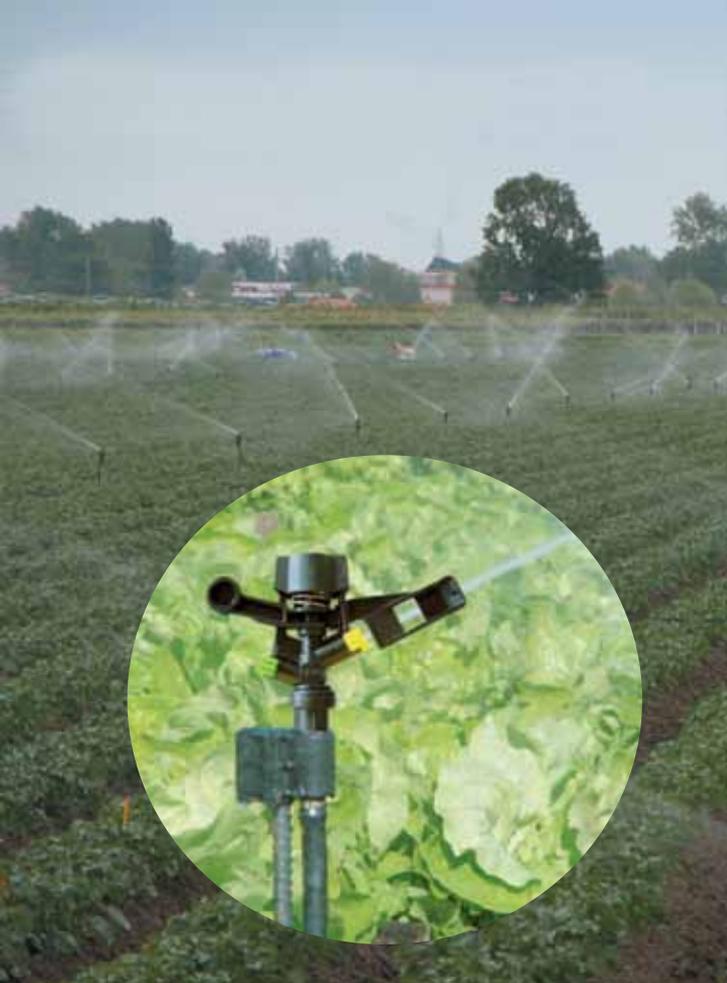
Range: da 11 mt a 31 mt

## TAPE ROLLER LAY (T-R-L)

The T-R-L is designed to meet the needs of groers requiring a more robust tool for injecting a wide variety of sizes and styles of drip tape. The hybrid tool is faster, stronger and safer to use than anything built in the past. The length can be settled to lay drip line till 60 cm of depth.

## TAPE ROLLER UP (T-R-U)

The T-R-U is the most compact product in his category. Designed for removal of drip tape for disposal, this new machine combines the tape lifting abilities with the unparalleled drip tape compaction. The result is a tape pulling machine that is safer, faster and narrower than anything we have produced until now.



SECTOR



FULL CIRCLE





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**SCARABELLI IRRIGAZIONE s.r.l.**  
via Viadagola, 48 • 40057 Quarto Inferiore  
GRANAROLO DELL'EMILIA - BOLOGNA  
tel +39(0)51 763.363 • fax +39(0)51 763.397  
www.scarabelli.it • E-mail: info@scarabelli.it

