



A C M • E S P A Ñ A

ACM España

experience
and innovation



ACM España is a company which manufactures, markets and installs high technology greenhouses, offering a professional and integral service which undertakes viability studies exclusively tailored to meet each customer's specific needs.

In addition to teams of professionals who undertake the first stages in setting up and running the greenhouse, we also offer advisory services, which are guaranteed by our master growers, who offer a complete service including advice on crops (turnkey projects). The integral service we offer is backed by a magnificent and efficient after sales service. Our range of products included different types of greenhouses, plastic or glass, with the appropriate materials for each: Irrigation systems, heating systems, thermal screens, plastic covering, polycarbonate coverings, cooling systems, etc.

both the domestic and international markets as a result of the satisfaction and trust in all our products expressed by our customers.

From its very beginnings ACM España has been aware of the importance of the technological revolution in the transformation and development of the farming sector, generating new and more profitable possibilities for its members.

As we have maintained a well defined strategy along with high technology and product innovations all at truly competitive prices, our company has gained an excellent position as leader in the Asiatic and American markets, with our own installations on both markets meaning we can offer and guarantee the product best suited to each customer's needs in the shortest time possible.



ACM Irrigation



- PROFESSIONAL TECHNICAL ADVICE
- MAXIMUM COMMITMENT TO OUR CUSTOMERS
- WORLD LEADER IN AGRICULTURE



During the last decade and following its diversified strategy **ACM ESPAÑA** has gained a strong and consolidated position in the domestic and international markets, due to the trust expressed by our customers.



In harmony with this growth, **ACM IRRIGATION** has been developed to calculate, design and install irrigation complexes for integrated production in horticulture, floriculture and plant production. It has the best technical team of engineers and a single purpose; to protect your investment.

From this new division we would like to inform you of the commitment and skill of all the professionals within it, to offer you the service that you and your crops deserve.



Using the latest technologies and the experience gained over 25 years, we have developed new control mechanisms for fertirrigation and the climate, innovating in the design of components and water management installations, with the aim of guaranteeing high levels of production and profitability.



Enjoy a privileged position in modern agriculture thanks to **ACM IRRIGATION**. Modernity and experience unite under this acronym, together with the best team of professionals, whose everyday working is governed by a single premise; our customers are our future.

The most complete range of filter system products to protect your installation. Designed for all types of water and impurities, making it possible to combine or increase filtration capacity.



Filter Systems

SAND FILTERS

- High capacity filters. • Especial for waterweed and waste water. • For rates of flow from 3 to 30 m (design customised to order). • Maximum working pressure of 8 Kg/cm.
- Modular equipment. Easy installation and maintenance. • Automation is possible for self-cleaning by reverse flow washing.

RING FILTERS

- 2" and 3" filters. • Modular equipment designed according to the flow in installations.
- Maximum working pressure of 8 Kg/cm.
- Modular equipment. Easy installation and maintenance. • Automation is possible for self-cleaning by reverse flow washing.



Compact automatically controlled systems for proportioning fertilisers, acids and phytosanitary products.



Fertirrigation Systems

- It is possible to simultaneously inject up to 10 fertilisers and 1 acid, plus the addition of phytosanitary products. • Fertiliser solutions are discharged by means of magnetic pumps which ensure a constant flow into the mixing tank. There is the option of using Venturi suction injectors, flow meters to adjust and visualise products, and the possibility of automation using solenoid valves. • Designs are customised according to the installation and conditions. Standard rates are 50, 100 and 150 m/h. • A compact stainless steel chassis with the premixing tank for the fertiliser solution. • Re-injection pump for the fertiliser solution. • Injection pump for phytosanitary products. • Dual probe for pH and conductivity. • Total control depending on the demands or preferences of the customer, with control of the time and volume of injection, desired/increased EC, desired acidic or basic pH, with independent control of proportional volume for each injector. • Totally automated with control from the electric panel or a remotely connected PC.



ACM Equipment is especially designed for the control of irrigation, fertirrigation and climatic conditions for greenhouse crops, and for the irrigation and fertirrigation of open air crops.

Irrigation and Climate Controllers

- Equipment is designed for the simultaneous control of up to 10 installations, including all of the automatic mechanisms included in each one. • Modular equipment makes it possible to increase inputs and outputs up to 1000, digital or analogue. • With connections for detectors of temperature, wind speed and direction, humidity, radiation, CO₂, pH and EC. • Monitoring the management of filtration, fertirrigation, windows, screens, heating, spraying, ventilation and automatic mechanisms in the field. • Graphs, records and reports that are exportable from Industrial PCs to Microsoft environments. ▶

Accessories

MICRO-DIFFUSION, MICRO-SPRAY, SPRAY COMPONENTS IN POLYETHYLENE AND PVC

These may be supplied in all commercially available diameters.





• Configuration, management and installation are easy thanks to their software and the Windows system. They are available in different languages for execution, and also have customised printed installation plans. • Remote connection is possible by modem, radio, sms alerts and other means.

ACM ACTIVE

• Irrigation controller. • Daily timer programming. • 16 outputs for elementos. • 4 digital inputs. • 75 daily activations. • Automatic activation. • Back-up memory. • LCD screen and keypad. • Small and medium sized installations. • Park areas and sports fields.

ACM MERIDIAN

The control of irrigation and fertirrigation. 2 versions:

- A.- 32 outputs / 8 digital inputs / 8 analogue inputs.
- B.- 64 outputs / 16 digital inputs / 16 analogue inputs.

• Unlimited programming sequences. • Unlimited sectors controlled by electrovalves. • Control of up to 7 fertiliser injectors, 1 acid injector and 4 for phytosanitary products. • Control of fertirrigation. • Value, tolerance and delay alarms. • Programmable post-alarm effects (total stoppage, sms alert). • Statistical records of events (at least anual). • PC type touch sensitive screen. • Remote communication by GSM modem or telephone line for the Management, Monitoring and Safety of the installation.

ACM SUPRA

Control of Irrigation, Fertirrigation and Climatic conditions.

• More than 1.000 analogue or digital inputs and outputs. • Customised design, according of the installation (Supra 32, 64, 96...) • Manual / automatic control centre, including an industrial PC (WINDOWS), Software, communications systems and printed installation plan. • Highly flexible configuration. • On-screen information about all of hte elements installed. • Event record. Graphs and reports may be exported to Windows. • Communication by Series port, USB, Cable, Radio, GSM, etc. • Available in Spanish, English and French.

Emitter tubing



ACM PLUS

• Tubing with self-compensating and anti-drain emitters. • Especially designed for long distances and level changes. • Distance between drippers to order. • Recommended for poor quality water. • Flow emitters: 1, 8-3, 9 L/h. • Interior diameter: 15.5 mm.

MAIN CHARACTERISTICS

Nominal Flow (L/h): 1.8 – 3.9.
Coefficient of variation (%): 3.36 – 4.68.
Uniformity coefficient (%): 97.32 – 96.25.

ACM DRIP

• Tubing with built-in emitters. • Totally flexible and adaptable to the soil. • Distance between drippers to order. • Emitter flow: 1 – 1.5 – 1.70 - 2 - 4 L/h. • Interior diameter: 13.5 – 15.5 mm. • Available thicknesses: 0.18 – 0.20 – 0.25 – 0.50 – 0.75 - 1 mm.

MAIN CHARACTERISTICS

Nominal Flow (L/h): 1 - 4.
Coefficient of variation (%): 3.32 – 4.45.
Coefficient of uniformity (%): 97.58 – 96.74.



Irrigation tubing

ACM IRRIGATION

- Highly flexible.
- Especially for the application of fertilizers.
- Resistant to ultraviolet radiation.
- High durability.

MICRO-IRRIGATION			
Nominal diameter (mm)	Thickness (mm)	Interior diameter (mm)	Length roll (m)
12	1,0	10	500
16	1,2	13,6	200
20	1,3	17,4	300

4 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	1,2	300
20	1,3	200
25	2,0	100
32	2,0	100
40	2,4	100
50	3,0	100
63	3,8	100
75	4,5	50
90	5,4	50

6 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	2,0	250
20	2,0	100
25	2,3	100
32	2,9	100
40	3,7	100
50	4,6	50
63	5,8	50
75	6,8	50
90	8,2	50

10 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	2,2	250
20	2,8	200
25	3,5	200
32	4,4	200
40	5,5	200
50	6,9	50
63	8,6	50
75	10,3	50
90	12,3	50



ACM POLYETHYLENE

- Highly flexible.
- Especially for the distribution of water under pressure.
- Available low and average density polyethylene.
- Highly durability.



6 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	2,0	250
20	2,0	200
25	2,3	200
32	2,9	200
40	3,7	200
50	4,6	50
63	5,8	50
75	6,8	50
90	8,2	50

10 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	2,2	250
20	2,8	200
25	3,5	200
32	4,4	200
40	5,5	200
50	6,9	50
63	8,6	50
75	10,3	50
90	12,3	50

LOW DENSITY POLYETHYLENE

4 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
12	1,0	500
16	1,2	200
20	1,3	300
25	2,0	500
32	2,0	200
40	2,4	300
50	3,0	500
63	3,8	200
75	4,5	300
90	5,4	300

Special diameters and thicknesses to order.



HIGH DENSITY POLYETHYLENE

6 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	2,0	250
20	2,0	200
25	2,3	200
32	2,9	200
40	3,7	200
50	4,6	50
63	5,8	50
75	6,8	50
90	8,2	50

10 ATM		
Nominal diameter (mm)	Thickness (mm)	Length roll (m)
16	2,2	250
20	2,8	200
25	3,5	200
32	4,4	200
40	5,5	200
50	6,9	50
63	8,6	50
75	10,3	50
90	12,3	50

ACM PVC

All diameters which are on the market.
Especially for the distribution of water under pressure.

Emitters

Self-compensating and anti-drain emitters.
Irrigation emitters.

- Especially for extreme conditions.
- Ensures constant flow in 5 - 40 mts.
- Avoids tubing emptying and ensures filling for subsequent irrigation.
- Hydroponic and high yield crop applications.
- Low sensitivity to obstruction.

INSERTED DRIPPER

Emitter flow: 2 - 3 - 4 L/h. Diameters: 12 and 16 mm.



DETACHABLE DRIPPER

Emitter flow: 3 - 4 L/h. Diameters: 12 and 16 mm.



PRESSURE COMPENSATING AND NON-LEAKAGE DRIPPER

Emitter flow: 2 - 3 - 4 - 8 L/h.
Self-cleaning.

FLAT DRIPPER

Emitter flow: 1 - 3 L/h.
Self-cleaning.

HYDROPONY COMPONENTS

Micro-diffusion, spray and micro-spray



NEBULIZATION

Flow: 20 - 90 L/h.
Retention valve.
Humidification.
Self-compensating.
Especially adapted for greenhouses.

SPRAY

Flow: 300 - 3,500 L/h.
Working pressure: 2 - 4 Kg/cm²
Especially adapted to the surface area.



MICRO-SPRAY

Flow: 20 - 250 L/h.
Retention valve.
Humidification.
Especially adapted for greenhouses.
Dancers, pegs, bridges.
Irrigation diameters: 25 - 250 m.
Working pressure: 2 - 3 Kg/cm²





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