



Irrigation System

Product Catalog

IRRIGATION PRODUCTS

Drip Irrigation Tape

Dripper

Spray Watering Hose

Layflat Hose

Disc Filter

PE Pipe

Fertigation System

Automatic Atomizing Sprayer

Smart Sprinkler

Impact Sprinkler

GreenHouse



Coordinador Regional para América Latina



Green Innovation with GoldenTree

Introduction

During the past 40 years, we have grown up No.1. Irrigation system provider in Korea and have dedicated ourselves to developing and manufacturing the qualified agricultural commercial irrigation product.

SEOWON is the best manufacturer & supplier for various irrigation system. We have developed our product since we start to manufacture it.

Now, as a reliable manufacturer and contractor in the irrigation market, we supply worldwide with our brand name - BlueDrip $^{\otimes}$, SilverDrip $^{\otimes}$, GreenDrip $^{\otimes}$, GoldenDrip $^{\otimes}$, SuperDrip $^{\otimes}$, WhiteDrip $^{\otimes}$ (Drip irrigation tape), GoldenTree $^{\otimes}$ (Multi-purpose of plastic water disc filter), KOASIS $^{\otimes}$ (Automatic fertigation system), GoldenSpray $^{\otimes}$ (Spray watering hose), GoldenLayflat $^{\otimes}$ (Layflat hose) and various kinds of irrigation products and HD/LDPE pipes.

With our profound experiences in the agricultural field, we know what growers expect us and we are always willing to listen their idea. Our mission as the drip irrigation company is to provide high efficiency and performance of drip irrigation products that save cost, water and energy and eventually increase crop yield. Our unceasing R&D activity will be continued for the benefit of our valued customers.

Main Business

Manufacture agricultural & commercial irrigation products (Drip irrigation tape, Spray watering hose, Layflat discharge hose, Disc filter, Auto fertigation system, Related things).

Manufacture PE(Polyethylene) pipes for waterworks/irrigation.

Supply golf course equipments to domestic market.

Supply agricultural products to domestic market.

Irrigation system designing & installation.

Greenhouse designing & installation.



History

1970's

1970. Jan. Established "Korea Sprinkler Co., Ltd"

1978. Dec. Established "Seo Won Co., Ltd" General irrigation expension.

1980's

1983. Aug. Achieved a Membership of The World Irrigation Association.

1990's

1992. Mar. Purchased Ye-San No.1 Factory.

1992. Sep. Produced PE Pipe.

1994. Apr. Qualified Korea Standard for PE Pipe.

1994. Sep. Moved Head office from Seoul to Bucheon-city.1995. Aug. Started GoldenDrip® Irrigation Tape production.

1998. May. Qualified ISO 9001 & 9002 Certification.

2000's

2000. Mar. Started GreenDrip® Irrigation Tape production.

2005. Feb. Started GoldenSpray® (Spray watering hose) export.

2006. Mar. Started GoldenLayflat® (Layflat hose) export.

2006. Apr. Acquired PATENT on GoldenDrip® (USA)

2006. Jun. Acquired PATENT on SilverDrip® (USA)

2006. Aug. Started SilverDrip® Irrigation Tape production.

2008. Feb. Started Goe-San Factory Operation to produce SilverDrip®,

GreenDrip®, GoldenDrip® and GoldenTape®.

2008. Feb. Produce KOASIS®, filter, GoldenLayflat® and GoldenSpray®.

2010. May. Selected as Seal of Excellence from KOTRA.

2012. Sep. Selected as Seal of KOTRA Global Brand.

2012. Nov. Attend EIMA exhibition in Bologna, Italy (180 visitors)

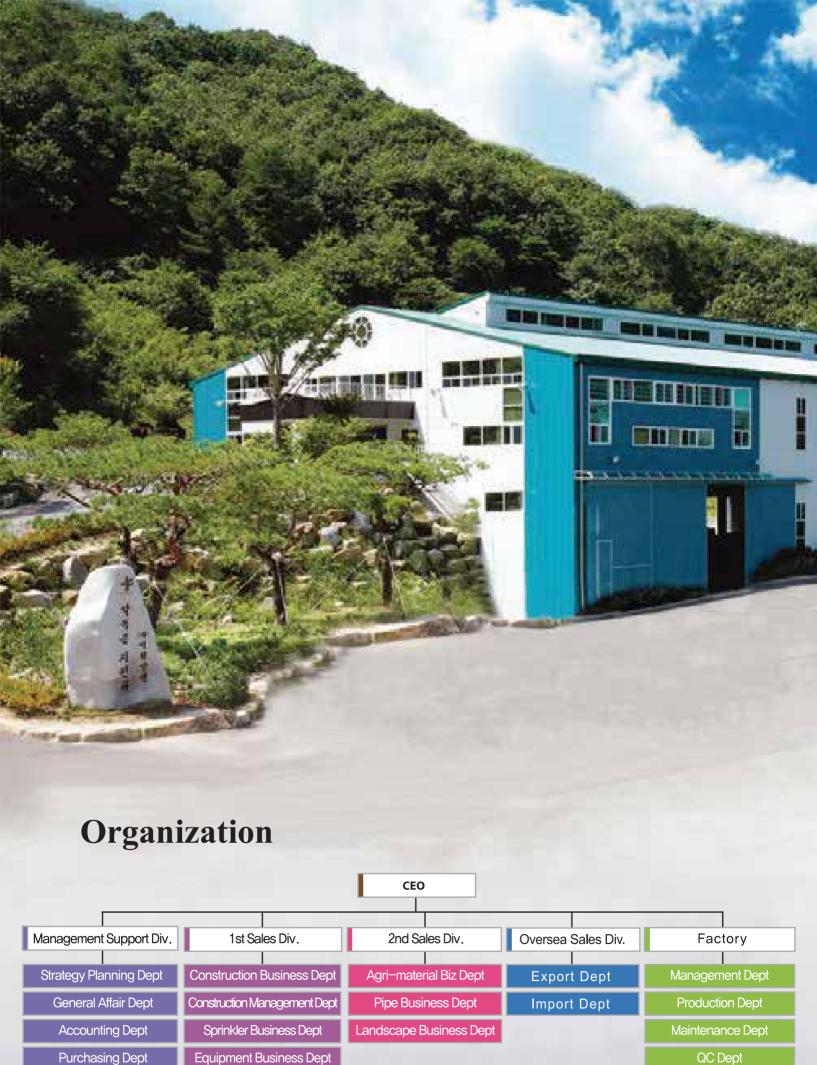
2014. Nov. Attend EIMA exhibition in Bologna, Italy (240 visitors)

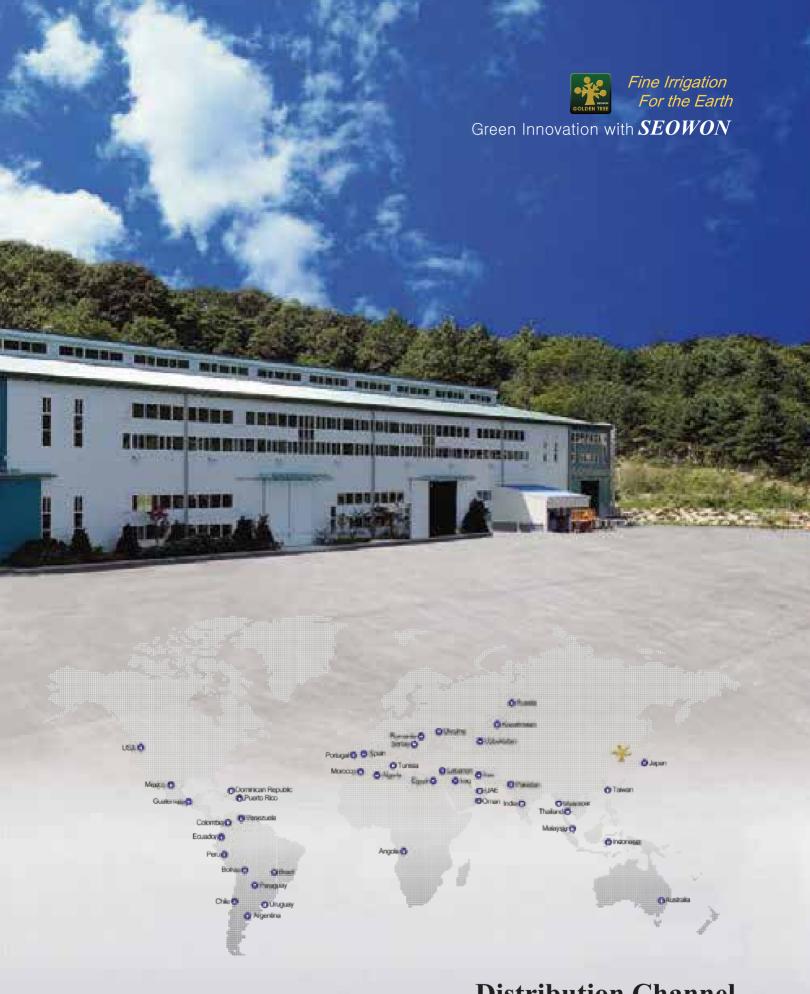
2015. Feb. Started BlueDrip® Irrigation Tape production.

2015. Nov. Attend Expo Agroalimentaria in Guanajuato, Mexico (280 visitors)

2016. Nov. Attend EIMA exhibition in Bologna, Italy (230 visitors)2017. Nov. Attend Expo Agroalimentaria in Guanajuato, Mexico.







Distribution Channel

We supply all kinds of products with the pride of our brand name "GOLDENTREE"® at the best of our philosophy, "The best Quality", "The best Price" and "The best Service"







Drip Irrigation Tapes

GOLDEN TREE 's drip tapes are manufactured by using the best quality of PE resin in the World. Bluedrip[®], SilverDrip[®], GreenDrip[®] and GoldenDrip[®] -are available.

Drip Tapes Assortments

Item BlueDrip®	Inside Dia (mm) 16	Wall Thickness (mm) 0.125 0.15	Emitter Flow Rate (LPH@1bar) 0.80 1.00	Spacing (cm) 10 15	Roll Length (m) 1,600 3,660 1,400 2,800 3,050 1,000	Product Image
		0.20			2,100 2,300	
SilverDrip®	16	0.15	0.80 1.00	10 15	1,400 2,800	
Silverbrip	22	0.20	1.20 1.60	20	1,000 2,100	Brarde.
	16	0.15	1.30	20	1,400 2,800	6/IB
Green Drip®		0.20		30	1,000 2,100	Bally
		0.20				
Golden Drip®	16	0.38	1.45	20 30	1,000	
		0.45		30		Menorif
		0.20		20	1,000	5 . 14
SuperDrip®	16	0.38 0.45	3.30	30		De Sanorares
		0.63		50	600	Superprip
WhiteDrip [®]	16	0.20 0.25 0.30 0.38	1.30 1.45 2.00	20 30	1,000	The same of the sa
		0.63	3.30		600	









Advantages & Benefits

- Excellent uniformity.
- Individual inside filter in each dripper.
- High clogging resistance.
- Improve not only crop yields & qualify but also disease control.
- Excellent resistance to chemicals, ultra-violet rays and high pressure.
- Less soil compaction & drier furrow.

Applications

- Surface or long lasting subsurface drip installations.
- Agriculture, green house, nursery and landscape.

Emitter Spacing	Commonly Used Crops
10 cm	All crops
20 cm	Chili, Cut Flowers, Melon, Onion, Pepper, Potato, Strawberry, Tomato
30 cm	Alfalfa, Asparagus, Banana, Broccoli, Cauliflower, Celery, Corn, Cotton, Cucumber, Eggplant, Garlic, Ginseng, Grape, Lettuce, Onion, Pepper, Potato, Pumpkin, Rose, Spinach, Squash, Strawberry, Sugarcane, Tobacco, Tomato, Turnip, Watermelon
40 cm	Alfalfa, Grape, Onion, Pepper, Potato, Sugarcane, Tobacco, Turnip, Watermelon
50 cm	Alfalfa, Blueberry, Grape, Raspberry, Soybean, Sugarcane

Bl	lue	Dri	ip®

SilverDrip®

GreenDrip®

WhiteDrip®

High density crop for House

Strawberry, Tomato, Watermelon, Vegetable, Foliage plant, Horticulture





GoldenDrip®

For House, Open filed

Orchard, Vegetable, Horticulture





SuperDrip®

Substitute Inline drip, For House, Open filed

Orchard, Vegetable, Horticulture, Tree













Main Features

- Exceptional Linear type
- High clogging resistance with "S" type channel
- Same price in different spacing(10~20cm)
- Superior CV & EU with linear type (not emitter type)







Specifications & Technical Data

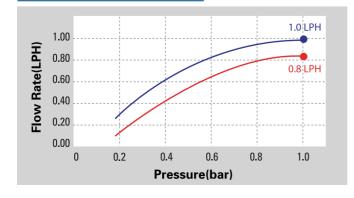
BlueDrip® Flow Rate: 0.8 &1.0LPH(1bar)

Product	Products		Inside Dia	Spacing	Working pressure	Emitter Flow Rate	Roll length (m)
Name	Mil	thickness (mm)	(mm)	(cm)	(bar)	(LPH)	Kon length (m)
45		0.125			0.4	0.60	1,600
	#5 0.125	16	10	0.4	0.60	3,600	
BlueDrip® #6	0.15		15	0.6	0.75	1,400	
	#8 0.20		13	0.6	0.73	2,800	
		22	20	0.8	0.90	1,000	
	#8				1.0	1.00	2,100

BlueDrip® Flow Rate: 0.21/ 0.26 GPH (/hole@14.5psi)

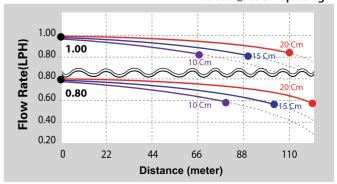
Products		Inside Dia	Spacing	Flow Rate/100' @8psi		Flow Rate/100'@14.5psi		Roll length (m)
Name	Mil	(Inch)	(Inch)	GPH	GPM	GPH	GPM	ft
	- 10 11	4"	58	0.97	79	1.32	4,593'	
BlueDrip [®]	#5 5/8" BlueDrip* #6 7/8"	5/8″	6"	39	0.65	53	0.88	9,186'
		7/8″	8"	29	0.48	40	0.67	3,280'
	#8		8	29	0.40	40	0.07	6,889'

Pressure performances



Distance performances

Inside Dia: 16mm 1.0bar@each spacing



Run Length - 10cm: 70m / 15cm: 95m / 20cm: 110m







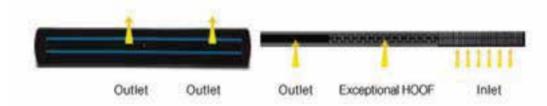


SilverDrip®

Main Features

- Exceptional HOOF type of channel-It makes excellent pressure-reducing(patent).
- High clogging resistance with double internal filters.
- Same price in different spacing(10~20cm).
- Superior CV & EU with linear type. (not emitter type)





Specifications & Technical Data

SilverDrip® Flow Rate: 0.8/ 1.0/ 1.2/ 1.6LPH(1bar)

Products		Wall Inside thickness Dia		Spacing	Working press ure	mitter Flow	Rate (LPH)		Roll length		
Name	Mil	(mm)	(mm)	(cm)	(cm)	(bar)	0.8 LPH	1.0 LPH	1.2 LPH	1.6LPH	(m)
	#6	0.15		10	0.4	0.50	0.60	0.70	0.90	1,400	
CilvarDring®	#0	0.13	16	10 15	0.6	0.60	0.75	0.95	1.20	2,800	
SilverDrip®	що.	0.20	22		0.8	0.70	0.90	1.15	1.40	1,000	
#	#8	0.20		20	1.0	0.80	1.00	1.20	1.60	2,100	

SilverDrip®Flow Rate: 0.21/ 0.26/ 0.32/ 0.42GPH(/hole@14.5psi)

Products	Products I		Spacing	Flow Rate/100' @8psi		Flow Rate/100'@14.5psi		Roll length
Name	Mil	Inch	Inch	GPH	GPM	GPH	GPM	ft
#6 SilverDrip® #8		4"	70	1.17	95	1.58	4,593'	
	5/8"	6"	47	0.78	63	1.06	9,186'	
	"0	7/8"	- "		0.50	40	0.70	3,280'
	#8		8"	35	0.58	48	0.79	6,889'

- * Above table is based on 0.32 GPH(/hole@14.5psi)
- * Other roll length and specifications are available to meet customer's needs.
- * CIT Test (EU: 92~94%, CU: 95~96%)







Main Features

- High clogging resistance.
- Excellent CV & EU.





Specifications & Technical Data

GreenDrip® Flow Rate: 1.3 / 2.0 LPH (1bar)

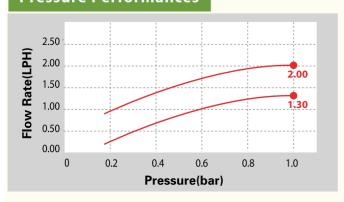
Products		Wall Inside thickness Dia		Spacing	Working pressure	Emitter Flow	Rate (LPH)	Roll length
Name	Mil	(mm)	(mm)	(cm)	(bar)	1.3 LPH	2.0 LPH	(m)
GreenDrip®	#6	0.15	16	10	0.4	0.75	1.45	1,400
				15(option) 20 30	0.6	1.00	1.70	2,800
	#8	0.20			0.8	1.15	1.85	1,000
					1.0	1.30	2.00	2,100

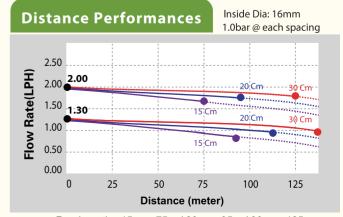
GreenDrip® Flow Rate: 0.34/ 10.52 GPH (/hole @14.5psi)

Products		Inside Dia	Spacing	Flow Rate/100' @8psi		Flow Rate/10	00'@14.5psi	Roll length (ft)	
Name	Mil	(Inch)	(Inch)	GPH	GPM	GPH	GPM	industrial conditions	
#6	5.40.8	4" (option)	74	1.24	103	1.72	4,593'		
		6" (option)	50	0.83	69	1.14	9,186'		
Green Drip®		5/8″	8"	37	0.62	51	0.86	3,280'	
#8		12"	25	0.41	34	0.57	6,889'		

^{*} Other roll length and specifications are available to meet customer's needs.

Pressure Performances





Run Length - 15cm : 75m / 20cm : 95m / 30cm : 125m

^{*} CIT Test (EU: 92~94%, CU: 95~96%)















Main Features

- Various spacing between emitters for many applications.
- Accurate spacing between emitters.
- High clogging resistance.
- Integrated filter inlet and self cleaning characteristic





Specifications & Technical Data

GoldenDrip® Flow Rate: 1.45LPH (1bar)

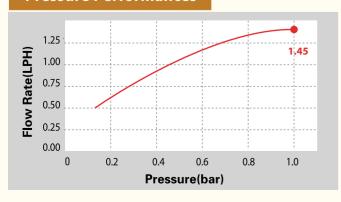
Pro ducts		Wa ll thickness	Inside Dia	Spacing	Working pressure	Emitter Flow Rate	Roll length
Name	Mil	(mm)	(mm)	(cm)	(bar)	(LPH)	(m)
#8 GoldenDrip® #12	# 0	0.20	16	20, 30	0.4	0.85	1,000
	#0				0.6	1.05	
	#12	0.30			0.8	1.25	
					1.0	1.45	

GoldenDrip® Flow Rate: 0.38GPH (/hole @14.5psi)

Products		Inside Dia	Spacing	Flow Rate/100' @8psi		Fle Rate/100	ow @14.5psi	Roll length (ft)
Name	Mil	(Inch)	(Inch)	GPH	GPM	GPH	GPM	
#8 GoldenDrip® #12	5/8"	8"	42	0.70	57	0.96		
		12"	28	0.47	38	0.64	3,280'	
		8"	42	0.70	57	0.96	3,200	
	#12	#12	12"	28	0.47	38	0.64	

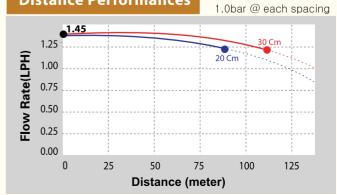
^{*} Other roll length and specifications are available to meet customer's needs.

Pressure Performances



Distance Performances

Inside Dia: 16mm



Run Length - 20cm : 88m / 30cm : 113m

^{*} CIT Test (EU: 92~94%, CU: 95~96%)







Substitution for Inline drip

SuperDrip®

Main Features

- Wastes smaller water volume than inline drip.
- Higher DU (Distribution Uniformity) than inline drip.
- Longer length of run than inline drip.
 (To be installed Maximum: 100M)
- Superior to unit price than inline drip.
- Longer roll length than inline drip.
- Unique type all over the world





Specific	 . О Та	abai	المه	2040

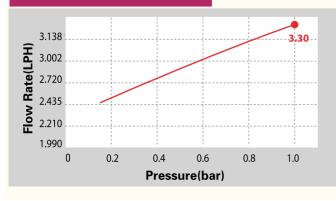
	openications at recimination batta				SuperDrip	Flow Rate:	3.3 LPH (Tbar)
Prod	ucts	Wall thickness	Inside Dia	Spacing	Working pressure	Emitter Flow Rate	Roll length
Name	Mil	(mm)	(mm)	(cm)	(bar)	(LPH)	(m)
	#8	0.20			0.5	2.25	1,000
SuperDrip®	#18	0,45	16	20, 30	1.0	3.30	1,000
SuperDrip	π10	0.43	10	20, 30	1.5	4.05	
#25	#25	0.63			2.0	4.80	600

SuperDrip® Flow Rate: 0.87GPH (/hole @14.5psi)

								<u> </u>		
	Products Inside Dia Spacing Flow Rate/100' @8psi		Flow Rate/100'@14.5psi		Roll length (ft)					
Na	ıme	Mil	(Inch)	(Inch)	GPH	GPM	GPH	GPM	non length (it)	
	#8 SuperDrip®			8"	119	1.98	131	2.18	2 2001	
Cupan				12"	79	1.32	87	1.45	3,280'	
Super	Drip				5/8"	8"	119	1.98	131	2.18
	#25		12"	79	1.32	87	1.45	1,968'		

^{*} Other roll length and specifications are available to meet customer's needs.

Pressure Performances





^{*} CIT Test (EU: 92~94%, CU: 95~96%)











White colored drip tape with double layer

Main Features

- Greatly reduced heat absorption
- Reduced product melting by sunlight
- Design for use in high temperatures
- Reduce temperature rise in contents
- Reduced contraction and expansion



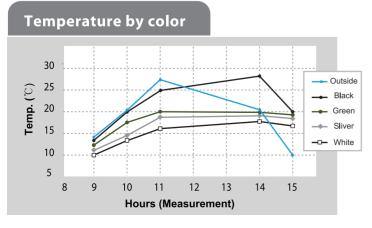


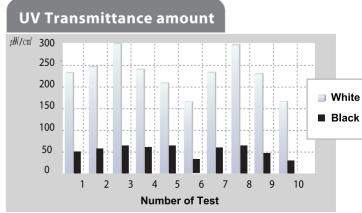
Application

- Available for emitter type of drip irrigation tape (GreenDrip, GoldenDrip)

Standard Specifications

Produ	Pro ducts		Wall Inside Dia		Working pressure	Emitter Flow Rate	Roll length
Name	Mil	(mm)	(mm)	(cm)	(bar)	(LPH)	(m)
	#8	0.20				1.30	
	#10	0.25				1,000	
WhiteDrip®	#12	0.30	16	20, 30	1.0	1.45	
	#15	0.38				2.00	
	#25	0.63				3.30	600











Drip tape connectors







Mini Valve (Tape Valve) 16 x 13mm

DC-4



Start LD with Rubber Ring 16 x 13mm

DC -7



16 x 13mm

DC -10



Fast Tape Valve 16 x 13mm

DC -13



Mini Valve IV (Helix out type) 16 x 13mm

DC-2



Tape Adaptor (Tape-Tape) 16 x 16mm

DC -5



Rubber Ring 16 x 13mm

DC-8



16 x 13mm

DC-11



Mini Valve II (Tape Valve) 16 x 13mm

DC -14



Drip tape end 16mm

DC-3



Tape Joiner(PE -Tape) 16 x 13mm

DC -6

Flush Valve 16 x 13mm



16 x 13mm

DC -12



Mini Valve III (Helix out type) 16 x 13mm

*Other connectors are available to meet customer's needs.











Main Features

- * The dripper design integrates three elements to minimize clogging:
- Protected cross-shaped water inlet.
- Flushing mechanism of regulating diaphram.
- Strong turbulent flow in labyrinth with continualcleaning and flushing.
- Large water passages.
- Particularly wide and precise regulating range.
- Color-coded for identification of flow rate and model.
- Standard 5mm nipple for woodpecker protection and pot application.
- Chemical-resistant plastic structure for precision, durability and longevity.



Primary Applications

Trees, shrubs and flowerbeds, subsurface or surface installation, for long laterals.

Technical Data

* Nominal flow rate : 2.0, 4.0, 8.0LPH

* Regulating pressure range: 0.35~2.8Bar

* CV less than 4%

* Anti-drainage

- Opening pressure: 0.28Bar

- Closing pressure: 0.14Bar

Technical Data

* PC+CNL : brown housing

* PC : Black housing

2.0LPH: White cover4.0LPH: Green cover

- 8.0LPH: Black cover















Dripper connector

	Arrow Dripper		Mani Holder	Connect	ion Hose
AD - 1	AD-2	AD-3		CH-1	CH-2
•				- Black color	- White color
				- 3/5 - 200M	- 3/5 - 200M
- 2 LPH	- 2 LPH	- 2 LPH	- 4 way	- 4/7 - 200M	- 4/7 - 200M













GoldenSpray® is the spray watering system that consist of a flat flexible hose that can be easily installed at furrow. It's more efficient than traditional spray ing systems or hard hose drip systems. Since it lays out flat and straight without coiling, installation takes less time and less cost that other systems, which in turn bring you more crop yield at a cheaper cost.

Advantages & Benefits

- Normal pressure operating range of 0.1 to 0.5kg/cm² can lower energy and save sprinkler system cost by 90%.
- Lays out flat and straight without coiling up like hard hose, making for faster and easier installation and retrieve in the field.
- Easy moving anywhere.
- Wide range of spray patterns and trajectory.
- High performance & easy installation.
- Easy to eliminate on clogging.
- * Please be sure that customer must use filter

0.80 0.65 0.50 0.35 0.20 0.00 0 20 40 60 80 Distance (meter)

Test Date: 4/07/2006 Product: GoldenSpray A Run Length: 30m

Center for irrigation technology (California State University Fresno,

CA, 93740-8021 USA)

Flow rate (GoldenSpray® A)

─────────────────────────────────────	0.5	0.5	0.5	0.5
Hose Length (m)	10	30	50	80
Flow Rate (LPM)	16	50	75	118

Performances

Туре	Tube Width (mm)	Distance of Spray (within, m)	Operating Pressure (bar)	Wall Thickness (mm)	Roll Length (m/roll)
GoldenSpray® A	60	4~5	0.5	0.20	200
GoldenSpray® B	60	3	0.5	0.20	200
GoldenSprav® C	40	3~5	1.0	0.30	100
GoldenSprav® D	60	6~8	1.0	0.30	100







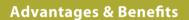






- GoldenSpray® "Fin type" is upgraded version.
- The fins of hose is prevented from twisting and elongation.
- It is convenient to water on a large area in a wide area.





- Sprayed water particles are fine, and there is little change in the jet port due to water pressure.
- The water spout is not clogged easily.
- Excellent durability and low cost.





Performances Tube Distance of Wall Roll Operating Width Pressure **Thickness** Length **Type Spray** (mm) (m) (kg/cm^2) (mm) (m/roll) GoldenSpray D-1 60 (70) 5~8 0.3~0.5 0.2 200 GoldenSpray D-2 0.21 200 60 (70) 6~8 0.5~0.8 GoldenSpray D-3 60 (70) 10~11 0.8~1.0 0.35 100









GoldenLayflat®





GoldenLayflat® is the suitable layflat, house for water transfer, slurry, water containing sand and general drainage at reasonably high pressure.

Features

- Outstanding flexibility and simple installation.
- Long endurance due to high strength against pressure.
- No light penetration, no moss or microorganism.

Applications

- Drip Irrigation
- Sprinkler Irrigation
- General Water Delivery

Instructions







 Prepare clips for wa connecting hose.

then prepare a sharp cutter

Cut the hose along the shape of clip and tear one end along the clip guide.







Insert the bottom through the hole cut and assemble the gasket and saddle or the top of hose as picture shown.

Fasten the adapter with o-ring for connecting additional valves and couplers.

Standard Specifications

	Size	I.D	Thickness (mm)	Working Pressure	Burst Pressure	Weight(kg/ roll)
	(inch)	(mm)	±0.1	(kgf/cm²)	(kgf/cm²)	Tolerance: ±5%
PVC	1.5	40±2	1.4	5	18	21
GoldenLayflat®	2	52±2	1.4	4.5	14	27
	2.5	65±2	1.5	4	14	36
	3	77±2	1.5	4	13	45
	4	103±2	1.5	4	12	54
	6	153±2	1.8	3	10	102
	8	207±2	2.1	3	9	180
EVA	2	52±2	1	4	12	15
GoldenLayflat®	3	77±2	1	3	10	23
	4	103±2	1	3	8	32
	6	153±2	1.26	2	6	62









Tarpaulin Layflat Hose

Main Features

- Economic price with Good performance
- Light weight & easy to handle
- Maintaining UV stability.



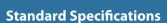
- Working pressure: 0.8~1.0 bar - Burst pressure: 3.0 bar (Single Layer)

5.0 bar (Double Layer)









	Size (mm)	Inside Dia (mm)	Thickness (mm) Tolerance: ±0.1	Working pressure (kgf/ ^{cm²})	Burst Pressure (kgf/cm²)	Roll length (M/roll)
	2	52±2	0.32	1	3	100
	3	77±2	0.32	1	3	100
SINGLE – layer	4	103±2	0.32	1	3	100
	5	128±2	0.32	1	3	100
	6	153±2	0.32	1	3	100
	2	52±2	0.42	1	5	100
	3	77±2	0.42	1	5	100
DOUBLE – layer	4	103±2	0.42	1	5	100
	5	128±2	0.42	1	5	100
	6	153±2	0.42	1	5	100







Fitting













Disc Filter & Disc Filter Accessories















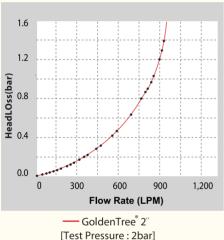
GoldenTree® **Disc Filter**



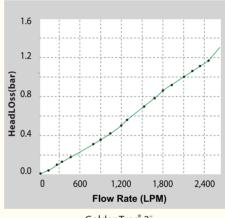
- Small and medium flow of irrigation system in greenhouses, small/medium farm fields.
- Strongly built virgin resins body enables resistance for high pressure.
- Long lasting and strong designed in closure system.
- Wide range of flow rates.
- High quality raw materials of disc elements resulted in fine filtration.
- Perfect pressure sealing at low and high pressures.
- Easy to install/remove/maintain and simple expansion of excising system.
- Long term opera tion with little maintenance or cleaning.
- Maximum cost efficiency.



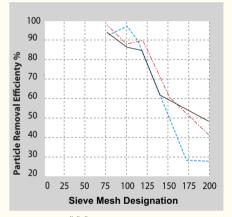
Performance



[Test Pressure: 2bar]



GoldenTree® 3 [Test Pressure: 2bar]



---- comany "A" 2" 120 Mesh Flow 413LPM GoldenTree*2"120 Mesh Flow 492LPM comany "B"2" 120 Mesh Flow 379LPM [Disc Filter Test Comparison]

Specifications & Technical Data

Inlet/Outlet Diameter	Flow Rate (max)	Working Pressure (max)	Disc Outside Diameter	Element Length	Filtration Degree	Weight (net)	Filtration Surface Area	Materials
1.5" (40mm)	15 ^{m³} /h	8bar	65mm	230mm	120mesh	1.5kg	469 cm²	
2" (50mm)	25 ^{m³} /h	8bar	130mm	248mm	120mesh	6kg	1,012 cm²	Virgin Resin
3" (75mm)	45 ^{m³} /h	8bar	130mm	496mm	120mesh	10kg	2,024 cm²	









Back Wash Screening Filter



Applications

- Filtration dirty water like reservoirs, ponds to supply irrigation field.
- Attached to the end of the pump suction line.

Specifications

- Recommended operating pressure: 3.5 ~ 4bar
- Flow rates for each jet : $1.2 \sim 1.8 \,\text{m}^3/\text{h}$
- Screen covering: 8mesh

Features

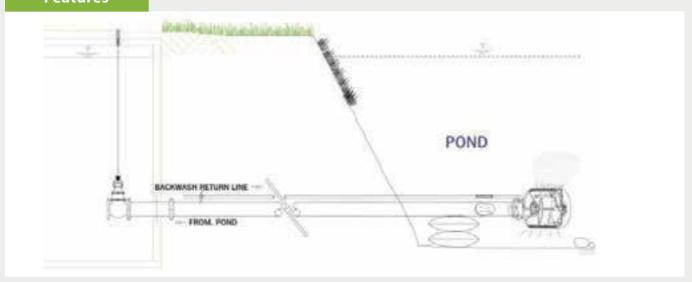
- Self-Cleaning pump suction screen is installed pump inlet line and removes debris.
- Rotaring bar with jets blasting away debris from screen.
- Less clogging
- Good spray uniformity.



Dimensions

- Flange: D100, 150, 200, 250, 300mm

Features









HDPE/LDPE Pipe

Main Features

- * Chemical stability, hygienic and fluidity.
- * Flexibility, light weight and suitability.
- * Corrosion resistance and impact resistance.
- * Low-temperature resistance.
- * Abrasion resistance and economical efficiency.
- * White LDPE pipe manufacturing.
- Making crops grow by temperature down for hose inside.
- Increasing thermal efficiency in green house by solar reflection.

Application

- Waterworks, agriculture and electric cable.
- Sewage/Waste water disposal and industry.
- Leisure industry and seawater.

PE Pipe Manufacturing



PE water pipe



PE pressure pipe



PE water pipe (roll)

Construction Business



Pipe installation



Pipe installation



Sprinkler main pipe installation

HDPE/PVC Saddle Starts



Saddle Ball Valve Socket



Saddle Socket



Saddle Ball Valve



Saddle for Spray



Barbed Saddle



Saddle Tape Valve



Saddle for Both



addle Start



Hole Cutter









Produc	ct	Outer Diameter (mm)	Wall Thickness (mm)	Length (m)	Weight (kg/m)
	25	25.0 ~ 25.3	2.3 ~ 2.7	100	0.16 ~ 0.19
	32	32.0 ~ 32.3	3.0 ~ 3.4	100	0.26 ~ 0.29
	40	40.0 ~ 40.4	3.7 ~ 4.2	100	0.40 ~ 0.45
	50	50.0 ~ 50.4	4.6 ~ 5.2	100	0.62 ~ 0.70
	63	63.0 ~ 63.4	5.8 ~ 6.5	40	0.99 ~ 1.10
	75	75.0 ~ 75.5	6.8 ~ 7.6	40	1.39 ~ 1.54
	90	90.0 ~ 90.6	8.2 ~ 9.2	6	2.00 ~ 2.24
	110	110.0 ~ 110.7	10.0 ~ 11.1	6	2.99 ~ 3.30
Water work	125	125.0 ~ 125.8	11.4 ~ 12.7	6	3.97 ~ 4.29
Service Pipe	140	140.0 ~ 140.9	12.7 ~ 14.1	6	4.98 ~ 5.34
(SDR 11)	160	160.0 ~ 161.0	14.6 ~ 16.2	6	6.34 ~ 7.00
	180	180.0 ~ 181.1	16.4 ~ 18.2	6	9.01 ~ 9.95
	200	200.0 ~ 201.2	18.2 ~ 20.2	6	9.99 ~ 10.91
	225	225.0 ~ 226.4	20.5 ~ 22.7	6	12.51 ~ 13.90
	250	250.0 ~ 251.5	22.7 ~ 25.1	6	15.40 ~ 16.96
	280	280.0 ~ 281.7	25.4 ~ 28.1	6	19.30 ~ 21.27
	315	315.0 ~ 316.9	28.6 ~ 31.6	6	24.45 ~ 26.91
	355	355.0 ~ 357.2	32.2 ~ 35.6	6	31.02 ~ 34.17
	400	400.0 ~ 402.4	36.3 ~ 40.1	6	39.40 ~ 43.36
	25	25 ~ 25.3	2.0 ~ 2.3	100	0.14 ~ 0.16
	32	32 ~ 32.3	2.4 ~ 2.8	100	0.21 ~ 0.25
	40	40 ~ 40.4	3.0 ~ 3.5	100	0.33 ~ 0.39
	50	50 ~ 50.4	3.7 ~ 4.2	100	0.51 ~ 0.58
				40	
63	63 ~ 63.4	4.7 ~ 5.3		0.82 ~ 0.92	
	75	75 ~ 75.5	5.6 ~ 6.3	40	1.16 ~1.30
90	90 ~ 90.6	6.7 ~ 7.5	6	1.67 ~ 1.86	
	110 ~ 110.7	8.1 ~ 9.1	6	2.46 ~ 2.76	
Water work	125	125 ~ 125.8	9.2 ~ 10.3	6	3.18 ~ 3.55
Service Pipe	140	140 ~ 140.9	10.3 ~ 11.5	6	3.99 ~ 4.44
(SDR 13.6)	160	160 ~ 161.0	11.8 ~ 13.1	6	5.22 ~ 5.78
	180	180 ~ 181.1	13.3 ~ 14.8	6	6.62 ~ 7.35
	200	200 ~ 201.2	14.7 ~ 16.3	6	8.13 ~ 8.99
	225	225 ~ 226.4	16.6 ~ 184	6	10.32 ~ 11.42
	250	250 ~ 251.5	18.4 ~ 20.4	6	12.72 ~ 14.07
	280	280 ~ 281.7	20.6 ~ 22.8	6	15.95 ~ 17.62
	315	315 ~ 316.9	23.2 ~ 25.7	6	20.20 ~ 22.34
	355	355 ~357.2	26.1 ~ 28.9	6	25.62 ~ 28.32
	400	400 ~ 402.4	29.4 ~ 32.5	6	32.52 ~ 35.88
	25	25 ~ 25.3	1.6 ~ 1.9	100	0.11 ~ 0.13
	32	32 ~ 32.3	2.0 ~ 2.3	100	0.18 ~ 0.21
	40	40 ~ 40.4	2.4 ~ 2.8	100	0.27 ~ 0.32
	50	50 ~ 50.4	3.0 ~ 3.4	100	0.42 ~ 0.48
	63	63 ~ 63.4	3.8 ~ 4.3	40	0.67 ~ 0.76
	75	75 ~ 75.5	4.5 ~ 5.1	40	0.95 ~ 1.07
	90	90 ~ 90.6	5.4 ~ 6.1	6	0.95 ~ 1.07
	110	110 ~ 110.7	6.6 ~ 7.4	6	1.36 ~ 1.54
	125	125 ~ 125.8	7.4 ~ 8.3	6	2.04 ~ 2.28
	140	140 ~ 140.9	8.3 ~ 9.3	6	2.60 ~ 2.91
later work				····	
ervice Pipe SDR 17)	160	160 ~ 161.0	9.5 ~ 10.6	6	3.26 ~ 3.65
,	180	180 ~ 181.1	10.7 ~ 11.9	6	4.27 ~ 4.76
	200	200 ~ 201.2	11.9 ~ 13.2	6	5.41 ~ 6.01
	225	225 ~ 226.4	13.4 ~ 14.9	6	6.68 ~ 7.41
	250	250 ~ 251.5	14.8 ~ 16.4	6	8.46 ~ 9.41
	280	280 ~ 281.7	16.6 ~ 18.4	6	10.39 ~ 11.51
	315	315 ~ 316.9	18.7 ~ 20.7	6	13.05 ~ 14.46
	355	355 ~ 357.2	21.1 ~ 23.4	6	16.54 ~ 18.30
	400	400 ~ 402.4	23.7 ~ 26.2	6	21.03 ~ 23.31





KOASIS 200[®]

Automatic Water, Fertilizer and Nutriment Supply System

Fertigation(Fertilization via a drip irrigation system with our KOASIS®) is the most efficient and advanced practice of fertilization. The right combination of water and nutrients is the important key for crop's high yield and quality.

KOASIS through a drip irrigation system delivers automatically precise amounts of water and fertilizer directly to the root zones, as often as necessary.



Main features & Product Advantages

- Capable of 8,000^{m²} fertigation and/or irrigation(Bigger capacity available by request).
- Regulating valves for manual operation.
- Automatic preventer for air -intake.
- Program protection by lock system.
- Improving fertilizer efficiency.
- Providing coast labor & time saving.
- Suitable for all types of irrigation systems.
- Increasing yield production and crop quality.
- User-friendly programming and easy operation(automatic & manual)

Specifications & Fertilizer Injection Capacity

- Dimension: 630(W) x 480(L) x 1,100(H) mm

- Weight: 75kg

Power Supply: 110-220V/60HzMotor - Pump: 750W, 1HPLCD size: 38mm x 70mm

- Inlet : 50mm(2")

- Outlet: 40mm(1 1/2")

- Maximum Irrigation Capacity: 11,700LPH

- Motor Pump: 750W, 1HP

Pressure(Bar)	Water(l/h)	Fertilizer(l/h)
0.7	11,700	145
1.0	10,600	130
1.2	9,900	120
1.5	8,500	110
1.8	8,000	100
2.0	6,600	90



- If there are just water and electricity, KOASIS® is able to be installed with easy way.
- Excellent A/S reaction system.
 (If system will be out of order, It will be solved by replacing just circuit-board.)







on which



KOASIS 1000[®]

Advantages & Benefits

- EC & pH control available
- Irrigation pump: 2HP
- Maximum Irrigation capacity: 22,000LPH
- Nutrient supply: Ventury type (30~300LPH) pH option



Main features

Content	Detail
Control type	Circulation interval control : Control interval time from start to end time
	Appointed time control : Control by user's setup
Irrigation type	Irrigation per each sector by setup time (Sec)
Fertilizer supply	Fertilizer A, B (Acid is optional)
Irrigation sector	Maximum 12 sectors by electronic valve
	Individual control is available per each sector by electronic valve
	EC / pH : EC/pH setup available per each sector
	Monitoring : Memorize irrigation time for 9 days
	Output test:
Program features	Test function for water, irrigation pump, fertilizer valve, electronic valve
	Emergency irrigation:
	Manual irrigation is available for 1 time except setup time
	Emergency stop: Stop system operation while emergency case
	With or without fertigation is available (Appointed item control)
	Hydro valve offer safe & continuous water supply from mixing tank
Hardware features	Aluminium frame, anti-corrosion control panel & Cabinet







KOASIS 5000[®]

Advantages & Benefits

- Max. 1ha fertilization & irrigation
- Independent programs (14 days cycles)
- 12 irrigation sectors & 3 to 5 fertili zer solenoid
- User friendly operation by touch screen (All languages)
- Precise control by Time, Flow rate, Solar & Humidity sensor



Main features

	So	oftware	SW - 2010 (Self - developed)
	Λ	Monitor	Color 7 " wide LCD, Touch Screen
		Time	Set irrigation time & Interval
	Control	Sector	Set each sector by Electric valve
	Control	Flow rate	Flow rate / Discharge (Option)
		Sensor	Accumulated solar irradiance
	Dat	a Saving	Portable USB (Personal PC)
			Set Max/Min EC/PH value for
CONTROL		Emergency Alarm	Emergency alarm & operation
PART		Alaiiii	stop
		Emergency	Whole irrigation 1 time/
		Irrigation	Part irrigation 1 time
	Program	Managomont	Water supplying, Pump, Valve /
		Management	Test function for electric valve
		Alarm	Notice instruction when error
		Notice	Occurs
		Monito ring	Check current EC & PH value /
		Wioriito ririg	Sector / Setting & Rest time
SENSOR	EC	Sensor	Sensor & Converter
(Option)	PH	l Sensor	Sensor & Converter



- PLC type



Everywhere you can do! (PC / Phone)



Remote Control (WIFI)





12 IRRIGATION SECTORS















Features

- No heating, Ultra-fine particles
- High effect preventive measures
- No remaining Chemicals
- Convenience and Effectiveness
- Good for Environment

Specification

Products	Com -	Spray	Effective	Weight	
Floducts	pressor		Area	vveignt	
GTSA-250E	3HP	2~3LPH	850 m ²	20kg	
GTSA-500E	5HP	3~4LPH	1650 m ²	30kg	
GTSA-1000E	10Hp	7~8LPH	3300 m ²	40kg	
GTSA-1500E	15HP	10~12LPH	4950 m ²	50kg	
GTSA-2000E	20HP	14~16LPH	6600 m ²	60kg	



Applications

Special Point	Explanation	Effect		
Vaporization on the	- Normal Temperature	- No change the Chemical Characteristics		
Normal Temperature	- No Heating method	- Good for Environment - Not make any pollution		
Ultra Atomizing Particles	- Light Ultra —fine Particles (4.3 畑~8.3畑) - Can floating for long time	- Use less Chemical and Effect more		
	No remaining Chemicals	 No Damage to electronic equipment, interior, papers, Furniture Ultra-fine particles can be quick photodecomposition 		





Smart Mini Sprinkler

Main Features

- Keep a max rotatory power with a minimized friction
- Guarantee of maximum product life by weatherization
- Keep spraying uniformity by reasonable shape
- Keep growing uniformity of plants by spraying uniformity





Nozzle Color	Product Code	Working	Maximum	Sprinkling Diameter by the Height from the Bottom		
Gray	SS/UD	Pressure	Flow Rate	2.0m	1.8m	1.5m
	SS	1.0kg/cm²	55LPH	5.8m	5.4m	5.2m
	UD	T.UKG/GIII	SSLFF	7.5m	7.3m	7.0m
90LPH	SS	4. El /om²	70LPH	6.0m	5.8m	5.4m
SULPH	UD	1.5kg/cm²		7.8m	7.6m	7.4m
	SS	2.0kg/cm²	87LPH	6.8m	6.0m	5.6m
	UD	Z.UKY/UII	O/LPH	8.0m	7.8m	7.6m

Nozzle Color	Product Code	Working	Maximum	Sprinkling Diam	eter by the Height fro	om the Bottom
Green	SS/UD	Pressure	Flow Rate	2.0m	1.8m	1.5m
	SS	1 Oka lom	67LDLI	6.0m	5.6m	5.4m
	UD	1.0kg/cm²	67LPH	8.0m	7.8m	7.4m
100LPH	SS	1 Elva /om²	85LPH	6.5m	6.0m	5.6m
IUULPH	UD	1.5kg/cm²		8.4m	8.2m	7.8m
	SS	O Oka /om²	100LPH	7.2m	6.4m	6.0m
	UD	2.0kg/cm²	TUULPH	8.6m	8.4m	8.0m

Nozzle Color	Product Code	Working	Working Maximum	Working Maximum Sprinkling Diameter by the Height from			om the Bottom
Orange	SS/UD	Pressure	Flow Rate	2.0m	1.8m	1.5m	
	SS	1 Oka /om²	85LPH	6.2m	5.8m	5.6m	
	UD	1.0kg/cm²	OOLPH	8.2m	8.0m	7.8m	
4201 DH	SS	1.5kg/cm²	103LPH	6.8m	6.2m	6.0m	
120LPH	UD	1.5Kg/GIII		8.8m	8.5m	8.1m	
	SS	O Oka /om²	1051011	7.4m	7.2m	6.2m	
	UD	2.0kg/cm²	125LPH	9.0m	8.7m	8.4m	

Nozzle Color	Product Code	Working	Maximum	Sprinkling Diam	eter by the Height fro	om the Bottom
Yellow	SS/UD	Pressure	Flow Rate	2.0m	1.8m	1.5m
	SS	1 Okra Jom²	55LPH	6.4m	6.0m	5.8m
	UD	1.0kg/cm²	SSLPH	8.5m	8.1m	8.0m
140LPH	SS	1 Elector	70LPH	7.0m	6.4m	6.2m
140LPH	UD	1.5kg/cm²		9.2m	9.0m	8.6m
	SS	O Oka /om²	07LDLI	7.6m	7.4m	6.4m
	UD	2.0kg/cm²	87LPH	9.4m	9.2m	8.8m

Nozzle Color	zzle Color Product Code		Maximum	Sprinkling Diame	eter by the Height fro	om the Bottom
Blue	SS/UD	Pressure	Flow Rate	2.0m	1.8m	1.5m
	SS	1.0kg/cm²	55LPH	6.0m	6.0m	5.8m
	UD	T.UKG/GIII	SSLPH	8.4m	8.0m	7.8m
200LPH	SS	1.5kg/cm²	70LPH	6.4m	6.4m	6.2m
ZUULPH	UD	T.SKY/GIII		8.8m	8.5m	8.0m
	SS	O Oka /om²	07LDLL	7.4m	7.4m	6.4m
	UD	2.0kg/cm²	87LPH	9.2m	8.8m	8.4m









Mini Sprinkler Fitting / Barb Connector

AC-01
Butterfly



-Valve type - Screw type

AC-02 Nipple



- For LD pipe

AC-03



- For HD pipe

AC-04 Connection hose



- 3/5 - 200M

- 4/7 - 200M

AC-05 Balance bar



AC-06 Connector-1 Way



- D20 x 13mm - D20 x 13/16mm

AC-07 Connector-2 Way



- D20 x 13mm - D20 x 16mm

AC-08 Connector-3 Way



- D20 x 13mm

AC-09 Connector



- D13 / 16 / 17

AC-10 Conncetor - Elbow



- D13 / 16 / 17

AC-11 Connector-2 Way



- D13 / 16 / 17

AC-12 Connector-3 Way



- D16 / 20 / 25 / 30 / 40 / 50

AC-13 Ventury



- 25 x 25mm

AC-14 Flow meter



- 25 x 15mm

AC-15 Pressure Gauge



- 0 ~ 10 bar

- 1/4

AC-16 Hand Crank Winder

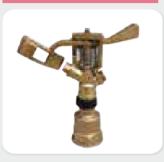
Impact Sprinkler





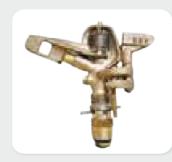
Impact Sprinkler

Impact Sprinkler



SP-01 Connection: D20

- For open field
- Impact sprinkler
- Full circle (360°)
- Cast-brass
- Connection: D20



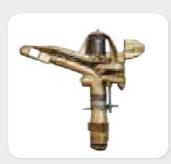
SP-02 Connection: D20

- For open field
- Impact sprinkler
- Full circle & Adjustable angle
- Angle range: 40°~320°
- Cast-brass
- Connection: D20



SP-03 Connection: D25

- For open field
- Impact sprinkler
- Full circle & Adjustable angle
- Angle range: 40°~320°
- Cast-brass
- Connection: D25



SP-04 Connection: D40

- For open field
- Impact sprinkler
- Full circle & Adjustable angle
- Angle range: 40°~320°
- Cast-brass
- Connection: D40

Technical Data (connection D20)

Nozzle (mm)	4.0x2.4		4.4x2.4		4.8x2.4	
Bar (kg/cm²)	Flow Rate (liter/min)	Flow Range (m)	Flow Rate (liter/min)	Flow Range (m)	Flow Rate (liter/min)	Flow Range (m)
2	18.7	25.2	23.3	26.0	25.0	27.0
3	23.7	27.0	26.6	28.0	31.6	29.0

Technical Data (connection D25)

Nozzle (mm)	zzle (mm) 5.8x4.6		6.3)	x4.6	7.0x	4.6
Bar (kg/ cm²)	Flow Rate (liter/min)	Flow Range (m)	Flow Rate (liter/min)	Flow Range (m)	Flow Rate (liter/min)	Flow Range (m)
3	61.4	37.0	68.4	38.0	79.0	39.4
4	71.2	41.0	79.3	43.4	91.6	45.6

Technical Data (connection D40)

Nozzle (mm)	10x	6.3	12.7>	(6.3
Bar (kg/cm²)	Flow Rate (liter/min)	Flow Range (m)	Flow Rate (liter/min)	Flow Range (m)
2.0	122	45	176	46.5
4.0	162	50	234	52
5.0	176	53	253	56







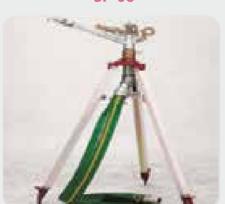


Impact Sprinkler Set / Fittings

SP-05



SP-06



SP-07



SET (D15, D20)

SET (D40, D50)

SP-09

ROLLER STAND

SP-08





BUTTERFLY BOLT (D40, D50)

Tying Machine

FB-150



Manual

FB-350



Automatic







Seed Tray



Specifications

- Wall Thickness: 1.0mm

- Color: Black or Silver

- Package: 100ea/box

- Box Size: 430 x 285 x 560mm

- 32 Cell

- 40 Cell

- 50 Cell

- 72 Cell

- 80 Cell

- 105 Cell

- 128 Cell

- 162 Cell

- 200 Cell

- 288 Cell

- 388 Cell

- 390 Cell

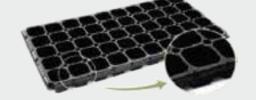
- 406 Cell

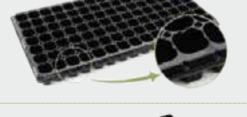
- 512 Cell

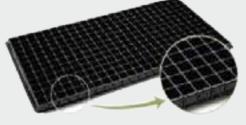
50 square cell for gardening

105 square cell for gardening

288 square cell for gardening

















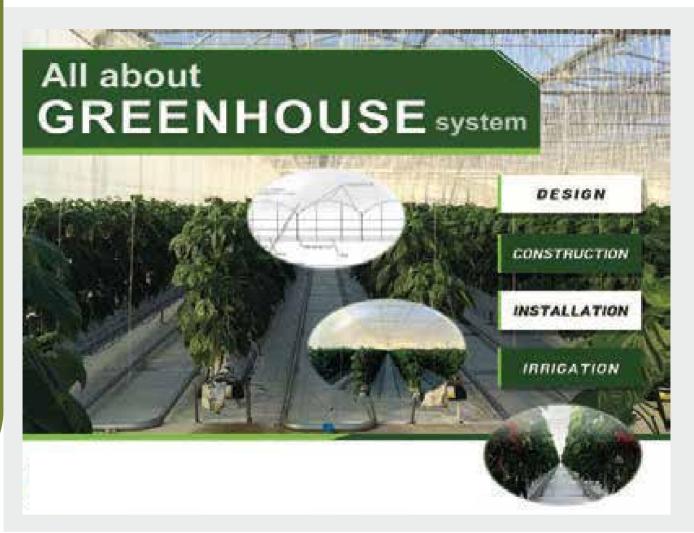








GREENHOUSE



GOLDEN TREE® Greenhouse projects can be found in all climate areas including hot, cold, moderate and tropical climates. Golden Tree experts are adopting Greenhouse Technologies that are best suited to a wide range of climates, market demands and customer requests. Golden Tree comprehensive services and solutions include Data Collection, Design, Installation, and After-Sales Service.





Greenhouse projects comprise integrated Information and Communication Technology(ICT) for all greenhouse systems including and crop types, geographic locations, greenhouse types, supporting technologies, etc.







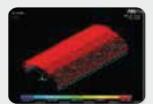


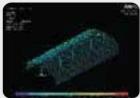
Greenhouse work process

Designing & Quotation



Structure simulation





Greenhouse structures

Golden TREE® supplies various greenhouse structures suitable for a wide range, variety of weather conditions. Golden Tree greenhouse structures meet international standards for snow, wind and vertical loads and are in compliance with korea and industey standards.









Greenhouse Applications

We offer innovative in-house systems and creative greenhouse planning and design directly from the source delivering fine-tuned solutions for:

- Heating Systems
- Control Syetems
- Irrigation Systems
- Automatic Fertigation Systems
- Project Design, Integration and installation
- Greenhouse Accessories

We take pride in our world-class integration capabilities that come from real-world agro-technology and greenhoues experience.









Agricultural Pipe

You hereby strongly recommend 'Agricultural Pipe' when you use PE pipe.

It is not necessary to use the thick and expensive water pipes because below 6 bar of working pressure on agriculture pipes are enough to operate.



Specifications

Pro	duct	Outer Diameter	PN	Wall Thickness	Weight	Length
FIU	duct	mm		mm	Kg/M	M
	D16 (LDPE)	16mm	2.5	1.0	0.046	500M / Roll
	D20 (LDPE)	20mm	2.5	1.2	0.069	300M / Roll
	D25 (LDPE)	25mm	2.5	1.4	0.100	200M / Roll
Agricultural	D32 (HDPE)	32mm	4.0	1.5	0.139	200M / Roll
Pipe	D50 (HDPE)	50mm	4.0	2.5	0.359	200M / Roll
	D30 (HDFL)	3011111	4.0	2.5	0.559	6M / 12M (Straight)
	D63 (HDPE)	63mm	4.0	2.5	0.457	6M / 12M (Straight)
	D75 (HDPE)	75mm	4.0	2.5	0.548	6M / 12M (Straight)



LD PE Pipe - White, Black

PIPE DIAMETER	Outer Diameter (mm)	Thickness (mm)	Length (mm)
D16	16 ~ 16.3	1.20	200
D20	20 ~ 20.3	1.60	200
D25	25 ~ 25.3	2.50	100
D32	32 ~ 32.3	3.00	100
D40	40 ~ 40.4	3.50	100









Irrigation fields









Stock for drip tapes





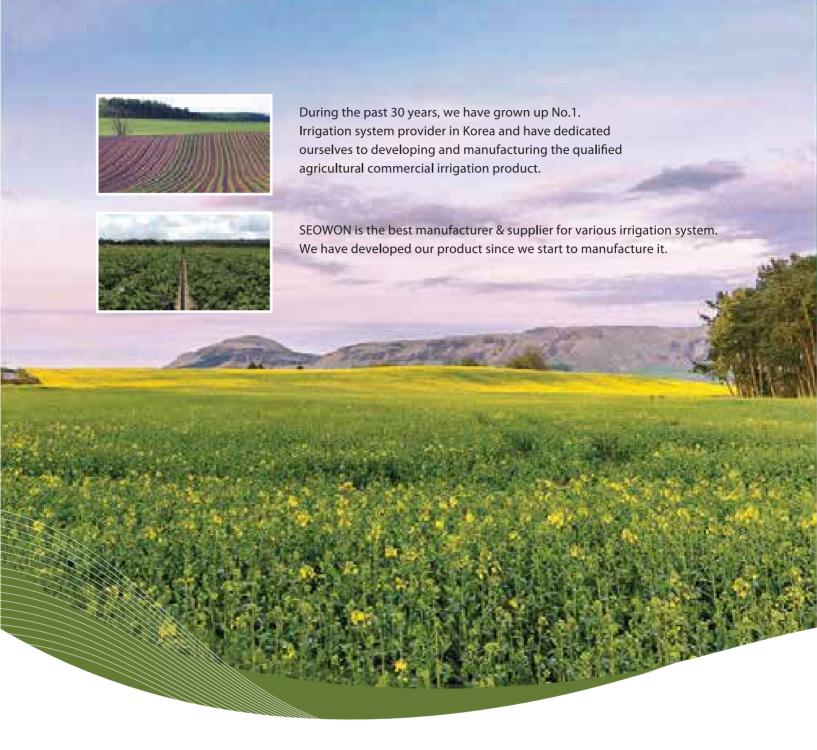


Stock for PIPE











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