### Greenhouse **Irrigation Solutions**

Giving your crops a lot more than just water

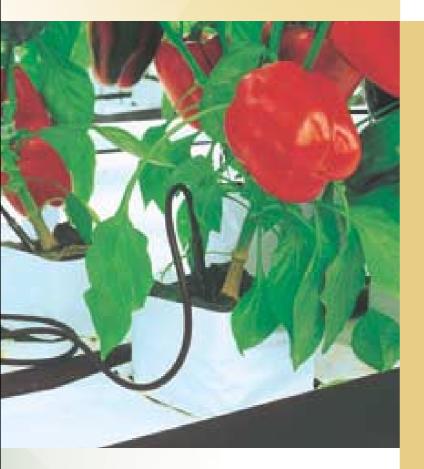


AGRO-TECHNOLOGY





# High tech irrigation could be the most cost-effective system in your greenhouse.



By applying the full power of our knowledge, experience and global resources, Netafim delivers irrigation solutions that far surpass industry standards. As a greenhouse grower, you belong to a high-tech world. Today's most effective products and sophisticated technologies are at your disposal. Making the right decisions is crucial.

Irrigation technology is one of the elements fundamental to the success of your greenhouse. Yet compared with a new or upgraded greenhouse project, a comprehensive irrigation system requires a lower investment, in comparative terms. That's why it makes good, sound sense to work with the best - and that means Netafim, pioneer and global leader in irrigation technology.

### Resources that help us understand your needs.

Netafim works closely with farmers and growers on five continents. We develop and manufacture a wide range of irrigation products recognized worldwide for quality and performance.

## **Growing in soilless cultures**

### **Challenge:**

Most soilless substrates require frequent irrigation to maintain the air-water ratio. The use of small growing containers requiring low frequency irrigation is increasing. Result - reduced water quantities for crops.

### Solution:

Relatively small spacing between drippers. Low flow rates. Anti drain properties.

Uniform irrigation with short application options.

### **Canals and Gutters**

For ground-based or suspended containers needing frequent pulse irrigation:

### **Uniram CNL**

High-precision compensating dripper (anti drain). Shuts down at the end of the irrigation cycle



without emptying sub-mains and laterals. Simultaneous reopening of drippers ensures uniform irrigation throughout the greenhouse.

### **Potted Plants and Rock Wool Cubes**

Each plant pot or rock wool cube is an independent growing unit. To ensure equal and precise water and nutrients, every unit needs its own compensating dripper

### **PCJ-CNL**

### For compensating and focused irrigation with flow rate unaffected by work pressures.

A compact on-line dripper with a drop-leading stake is the optimal irrigation solution for this growing technology. Anti drain model prevents irrigation lines from emptying and refilling between irrigation applications. Addition of a drop-leading stake helps growers customize droplet size suited to the type and dimension of the pot or rock wool cube as well as the plant's age and irrigation regime.





### **Microsprinkler Irrigation Solutions**

### **Challenge:**

To find the right solution for your specific structure, gable width, breadth of bed per gable, etc. Also essential, the correct interface for frequent or auxiliary irrigation, germination, contact cooling and more.

#### **Solution:**

Field-proven high tech microsprinkler irrigation for every requirement.



SpinNet

### **SpinNet**

Bridgeless (non-leaking) microsprinkler with a flat trajectory and full overlap irrigation. Featuring excellent distribution uniformity and acid resistance (AA).



Bridge micro sprinkler for full overlap irrigation, as well as for tunnels and benches.



CoolNet

### GyroNet

Micro sprinkler with a wide variety of flow rates 27 - 300 L/H; very high efficiency; anti-insect, acid resistant; low-pressure consumption.

### SuperNet

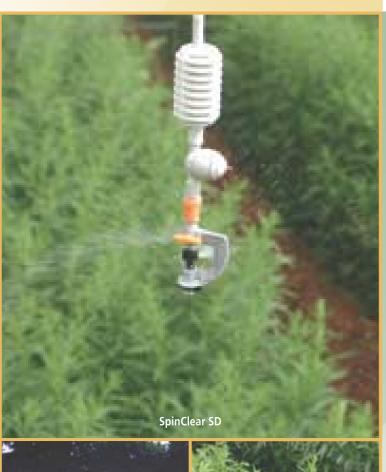
Regulated micro sprinkler with a wide variety of flow rates and very high efficiency; anti-insect, acid-resistant, robust plastics; low-pressure consumption.

### CoolNet

A supreme fogger that works on standard irrigation system pressure. Via pulsing, temperature can be substantially reduced and humidity elevated. Acid resistant. Fogs at any pressure. Can also be used for chemical applications.

### AD (anti drainage) Valve

Oblique type operated by a membrane and a spring. Fast and accurate. Acid resistant. Four different pressure levels available.







SuperNet

GyroNet

### **Growing in soil**

### **Drip Irrigation Solutions**

### **Challenge:**

Vegetables and flowers cultivated in sandy or light soils require irrigation several times a day.

### **Solution:**

Frequent and pulse irrigation for surface and subsurface applications.

### **Uniram Integral Anti Drain Dripper**

- High precision filter in every dripper.
- Anti siphon fitting prevents vacuum at the end of irrigation; stops sand and impurities entering the system
- Root entry barriers
- Enhanced self cleaning
- Operates equally well in soil and soilless substrates without replacing irrigation equipment



Vegetables and flowers cultivated in medium to heavy soil require low frequency irrigation.

### **Dripline 2000 Integral Dripper**

Exceptionally thick walls ensure wide adaptability to pressure changes and high durability.

### Tiran Integral Dripper

The effective answer for irrigating with low quality water. Wide water passages prevent clogging.



Medium to heavy soil irrigation

### **Nursery Irrigation**

### **Challenge:**

Choosing the right solutions for the growing environment and stage of production (rooting, germination, etc).



#### Solution:

Nursery

Overhead irrigation - the system preferred by most nurseries. **Spin Clear SD** and **Jet Clear SD** static emitters deliver highly uniform results for narrow bench irrigation.

### **Agro-technical Solutions**

In hot climates, the cooling and humidifying of greenhouses without wetting foliage, is crucial.

### Cooling

### Coolnet

A super-fine mist sprayer highly suitable for rooting. Does not wet crop leaves. Operates at accepted working pressures. Delivers an ultra-small drop size of 80 microns at a pressure of 4 bars. Used in extremely short water bursts, it can reduce the ambient temperature by 5-10°C (depending on atmospheric conditions, relative humidity and/or temperature).

**Benefits:** • Grey color prevents overheating of cooling accessories.

- Non-return mechanism stops dripping,
- Heightens flexibility
- Smaller pump size saves energy and costs.
- Easy to use, maintain and clean.
- High corrosion resistance.

### **Roof washing**

Glass, polycarbonate and polyethylene greenhouses require a solution for ensuring maximum radiation in cloudy conditions, and for cooling.

**N-85** sprinkler or **GyroNet** impact plastic sprinkler with one or two nozzles delivers 300 to 850L/H at 2.5 Bar, and highly uniform results.

| Name                                     | Address  | Telephone & Fax                                |
|--|--|--|
| Netafim Antilles Sarl                    | Netafim Antilles, M.B.E 149<br>Mangot Vulcin, 97232<br>Lamentin, Martinique  | Tel:+596 696 747118<br>Fax:+596 596 58 0881    |
| Netafim Argentina S.A.                   | California 1275, 1168 Capital Federal,<br>Argentina  | Tel:+54 11 4303 3733<br>Fax:+54 11 4302 6861   |
| Netafim Australia Pty. Ltd.              | Melbourne - Head Office, 213-217 Fitzgerald Road,<br>Lavarton north, Vic. 3026,<br>P.O. Box 248, Laverton Vic 3028 Australia | Tel:+61 3 93698777<br>Fax:+61 3 93693865       |
| Netafim Brazil Ltd                       | Rua Salvador Scaglioni, 135,<br>JD.Orestes Lopes de Camargo<br>Ribeirao Preto, SP, CEP 14066-446, Brazil                     | Tel:+55 16 601 8011<br>Fax:+55 16 601 8026     |
| Netafim China PTY                        | Room 2610, Wen Hua Palace, in The<br>Working People's Cultural Palace,<br>Beijing, 100006, China                             | Tel:+86 10 65237521<br>Fax:+86 10 65237522     |
| Netafim Czech s.r.o.                     | Alesova 827, 438 01 Zatec, Czech Republic  | Tel:+420 415 711789<br>Fax:+420 415 711379     |
| Netafim France SAS                       | Z.A.C. des Chabauds<br>Rue Gustave Eiffel, 13320 Bouc-Bel-Air, France  | Tel:+33 4 42 94 07 50<br>Fax:+33 4 42 94 07 60 |
| Netafim Deutschland GmbH                 | Netafim Deutchland Gmbh, Sontraerstrasse 11,<br>60386, Frankfurt Am Main, Germany  | Tel:+49 6942 3586<br>Fax:+49 6942 3576         |
| Netafim Hellas S.A.                      | Netafim Hellas, 6 Queen Sophia Ave.<br>106 74 Athens, Greece   | Tel:+30 210 7256601<br>Fax:+30 210 7256602     |
| Netafim Irrigation India<br>Pvt. Ltd.    | Netafim Irrigation India Pvt. Ltd. 268-270,<br>Gidc Savli, Manjusar, Vadodara 391 775 India                                  | Tel:+91 2667 264 601<br>Fax:+91 2667 264 600   |
| Netafim Indonesia                        |  | Tel:+62 213103990<br>Fax:+62 213150156         |
| Netafim Israel                           | Netafim Kibbutz Iftach<br>D.N. Marom Hagalil 13840, Israel   | Tel:+972 4 6955560/45<br>Fax:+972 4 6904445    |
| IMaGo S.R.L.                             | Imago, Via Pian Di Rocco 26,<br>16042 Carasco. Genova, Italy   | Tel:+39 185 351122<br>Fax:+39 185 351125       |
| Netafim Japan Co. Ltd                    | 16 Shiguma Bldg. 5-10, Nihonbashi Nakasu,<br>Chuo-Ku, Tokyo 103-0008, Japan  | Tel:+81 3 36636510<br>Fax:+81 3 36636320       |
| Netafim Korea Ltd                        | 8fl, Yeosunkyo B/D, 36-1, Hannam1-Dong,<br>Yongsan-Gu, Seoul 140-210, South Korea  | Tel:+82 2 7909961<br>Fax:+82 2 7909962         |
| Netafim Mexico, S.A. de C.V              | Ruben Dario 13 - Piso 2 Col. Bosques De<br>Chapultepec, Mexico D.F. 11580, Mexico  | Tel:+52 55 5203 2164<br>Fax:+52 55 5203 2142   |
| Netafim Philippines Branch               | SJRDC Bldg, Insular Village, Lanang,<br>Davao City, Philippines  | Tel:+63 822348280/1<br>Fax:+63 822348279       |
| Netaf <mark>im</mark> Irygacja SP. ZO.O. | Skierniewice 96100, Ul.Rybickiego 10,<br>Poland  | Tel:+48 46 8332266<br>Fax:+48 46 8333484       |
| Netafim Russia                           | Novoalekseevskaya str. 21, bldg. 1<br>Moscow, Russia   | tel: 7-095-7257706/7<br>fax: 7-095-7257708     |
| Netafim Slovakia s.r.o.                  | Bratislavska 49, 91702, Trnava,<br>Slovak Republic   | Tel:+421 33 5512626<br>Fax:+421 33 5511094     |
| Netafim South Africa                     | Netafim S.A., Netafim House,<br>P.O. Box 129, Kraaifontein, 7569 South Africa  | Tel:+27 21 9870477<br>Fax:+27 21 987 0161      |
| Netafim Thailand Ltd                     | 5th Floor, TPS Building 1023, Pattanakarn Road,<br>Suanluang, Bangkok 10250, Thailand  | Tel:+66 2717 8167/72<br>Fax:+66 2717 8158      |
| Netafim Turkey Ltd                       | Ragit Galip Cad. 71/2, G. O. P , Ankara, Turkey  | Tel:+90 312 4471837<br>Fax:+90 312 4472659     |
| Netafim Ukraine                          | Staronovodnitskaya str. 8b apt.9<br>Kiev, Ukraine  | tel:+380-44-2948965<br>fax:+380-44-2543630     |
| Netafim Irrigation Inc.                  | Netafim USA, 5470 East Home Avenue,<br>Fresno, CA 93727 U.S.A.   | Tel:+1 559 453 6800<br>Fax:+1 559 453 6803     |
| Netafim Central Asia                     | 1 Passage, Suleymanov str. 28<br>700070, Tashkent, Uzbekistan  | tel: 99-871-1526307<br>fax: 99-871-1207161     |
| Headquarters: Netafim (A C S )           |  |  |

Headquarters: Netafim (A.C.S.)

161 Arlozorov St. Tel Aviv 64922, Israel

Tel:+972 3 691777 ■ Fax:+972 3 6911962 ■ postmaster@netafim.com ■ www.netafim.com

### **Corporate Greenhouse Division**

Kibbutz Magal, D.N Hefer 38845, Israel ■ Tel:+972 4 6287563 ■ Fax:+972 4 6287717 ■ greenhouse@netafim.com



