

# SUBSURFACE DRIP IRRIGATION

## WHY CHOOSE A NETAFIM DRIP IRRIGATION SYSTEM?

Pioneered by Netafim in 1965, drip irrigation is an established irrigation technology that delivers water and nutrients directly to the plant root zone, minimizing waste and improving crop performance. For decades, drip irrigation has been used as a proven method for watering high-value vegetable crops, but it wasn't until the 1990s that drip irrigation expanded to larger scale use in row crops. Since 1995 over 30 billion feet of dripline has been installed into row crop fields in the United States. The success of drip irrigation has been attributed to many factors. The primary reason has been the evolution of equipment developed during the past 20 years - advanced equipment that allows a grower with little or no experience to succeed.

### WHAT IS DRIP IRRIGATION?

Drip irrigation is more than an irrigation method, it is a management tool that allows producers to apply the precise amount of water directly to the root zone, to improve control of fertilizer application, eliminate run-off and evaporation and drive consistently higher yields through improved plant health.

With a subsurface drip irrigation (SDI) system, driplines are buried below the soil surface enabling water and nutrients to easily reach each plant's root zone.

### WHAT CAN DRIP IRRIGATION DO FOR MY FARM?

As a field management tool, drip irrigation gives the grower control over the root zone environment of crops. Growers worldwide are experiencing the numerous benefits of drip irrigation both in the field and in your pocket.



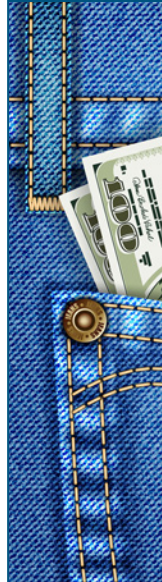
DRIP IRRIGATED CORN ON THE RIGHT  
CENTER PIVOT IRRIGATED CORN ON THE LEFT

#### BENEFITS IN THE FIELD



- ▶ **MORE IRRIGATED ACRES**  
Drip irrigation adapts to almost any field size, shape and topography - uniformly irrigating up to 100% of the field
- ▶ **IMPROVED PLANT NUTRITION**  
Fertilizer is applied directly to the root zone - even if the soil is already wet
- ▶ **IMPROVED WEED CONTROL**  
Drier soil surface reduces weed growth
- ▶ **HIGHER YIELDS**  
Uniform water and fertilizer application results in more consistent growth, improved crop quality and higher overall yields
- ▶ **REDUCED PLANT STRESS**  
Consistent soil moisture levels reduces soil cracking and promotes dense and active root zones

#### BENEFITS IN YOUR POCKET











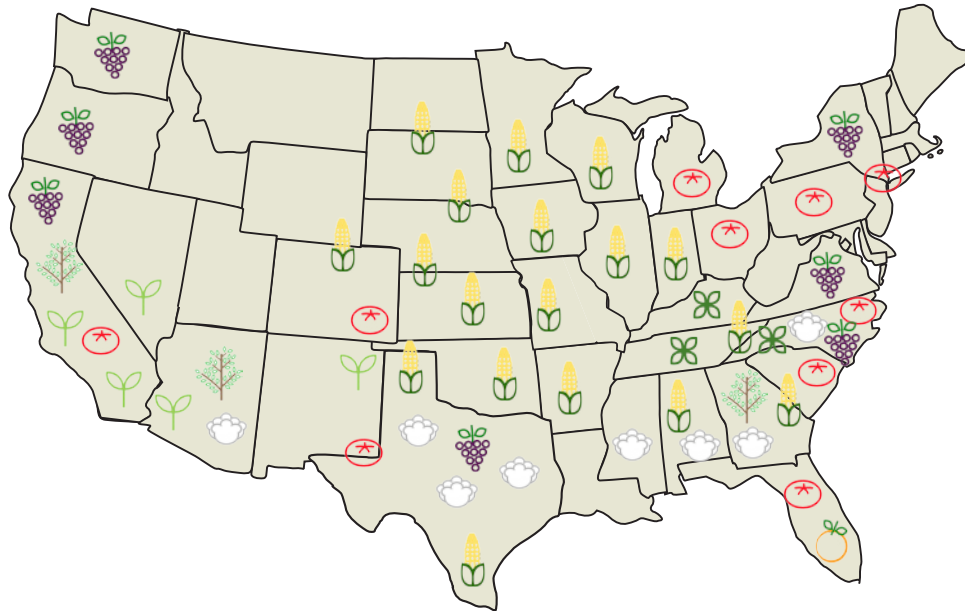
- ▶ **REDUCED WATER USAGE**  
Decreased evaporation, run-off and uniform distribution can reduce water use by up to 40%
- ▶ **REDUCED ENERGY USE**  
Drip operates at a lower pressure than conventional systems reducing energy costs
- ▶ **REDUCED INPUT COSTS**  
Water and nutrients are used more efficiently when delivered directly to the root zone
- ▶ **REDUCED INSURANCE COSTS**  
SDI has little exposure to weather damage and vandalism
- ▶ **LONG LASTING PERFORMANCE**  
A properly maintained drip system can last 25 years or more

## WHERE IS DRIP IRRIGATION BEING USED?

Drip irrigation is being used by growers across the nation as shown on the map below. As water supplies become limited, growers are increasingly turning to drip irrigation to reduce input costs and improve their bottom line through increased yields.

### DRIP IRRIGATED CROPS:

-  NUTS
-  VEGETABLES/  
TOMATOES
-  CORN
-  ALFALFA
-  CITRUS
-  VINEYARDS
-  COTTON
-  TOBACCO



## WHAT ARE THE MAIN COMPONENTS OF A DRIP IRRIGATION SYSTEM?

It's simple, for nearly 50 years, Netafim's sole focus has been to develop innovative field-proven drip irrigation products that increase yields, reduce costs and result in more profitable farming. Leveraging technological expertise, industry experience and agronomic know-how, Netafim continues to develop innovative products designed to overcome the unique challenges of today's modern farm.

### 1 NETAFIM PRESSURE CONTROL VALVES

Simple, reliable design with control function options provide superb hydraulic performance.

### 2 NETAFIM FILTRATION SYSTEM

Provides clean water to the irrigation system ensuring optimum performance and system life.

### 3 NETAFIM FERTILIZER INJECTION SYSTEM

Regulates water and fertilization through the system preventing fertilizer waste and reducing overall input costs.

### 4 NETAFIM WATER METERS

Deliver accurate flow measurements which alert growers to any potential problems.

### 5 NETAFIM AIR/VACUUM AIR VENTS

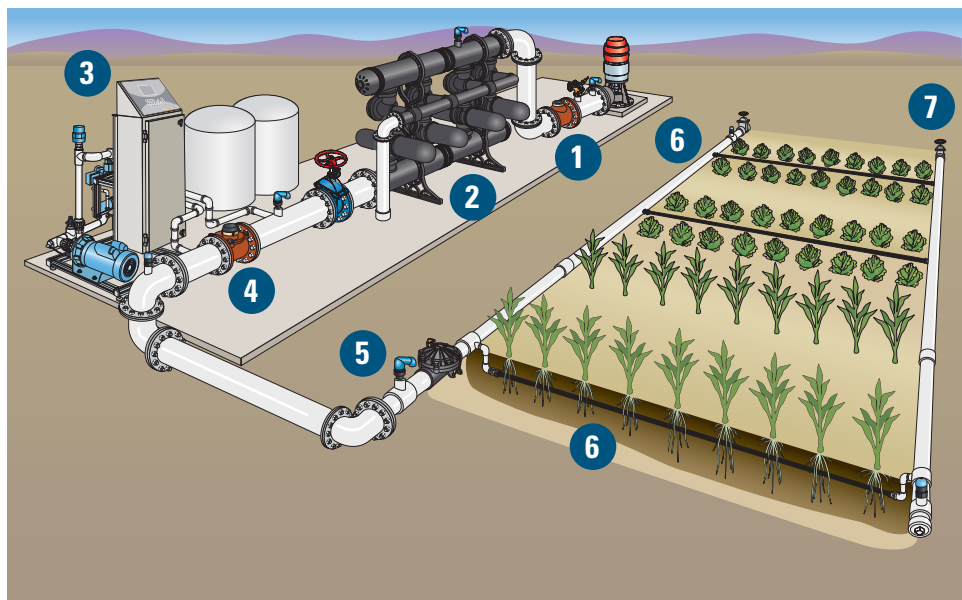
Removes air and protects the irrigation system.

### 6 NETAFIM DRIPLINES

Netafim emitters provide the highest clog-resistance and uniformity in the industry.

### 7 NETAFIM FLUSH LINE

Flushes multiple driplines at the same time removing debris and improving system performance.



We're ready to show you how a Netafim drip irrigation system can help drive consistently higher yields with improved plant health.

For more information, call (888) 638-2346 or visit [www.netafimusa.com](http://www.netafimusa.com).



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