NutraDrip
Irrigation Systems

SUBSURFACE DRIP IRRIGATION

WHY NutraDrip Irrigation Systems ?

Irrigation

Subsurface Drip Irrigation (SDI) allows you to water efficiently, directly to the root zone, irrigate 100% of your field, no missed corners, and provides even water distribution throughout the entire field.

Fertigation

Apply nutrients directly to the root zone by running liquid fertilizers through SDI.

Conservation

95% water use efficiency. Irrigate evenly throughout the entire field, and grow more with less. Every drop counts. SDI drastically reduces water loss due to evaporation.

Design

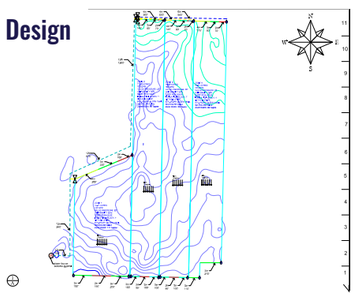
Subsurface drip irrigation with NutraDrip begins with a custom design that will guarantee your system will operate uniformly for your farm. For this, we will discuss your needs, vision for your business or farm, field geography, water source, soil type, crops and cultivation process.

Operate

SDI systems should not be difficult to operate. Our intent is to teach you and ensure you have the tools you need to operate your system. We are always available for support, and to share updated technology and information.

Install

With your NutraDrip Irrigation System, you will find high quality products installed by knowledgeable and efficient crews. This is a critical process to ensure proper function of components, and longevity of your system.



Maintain

System longevity is important to us all. Longevity starts with the design, but maintenance is another important component. Custom maintenance options are available whenever needed. Spring startup and winterization are most common; however, additional services are available as needed.

Support

You are the reason we do what we do. We bring you alongside us as we continually learn and stay up to date on new technology. NutraDrip hosts field days, agronomy meetings, webinars, and publishes relevant information to help support you and your system and empower you to farm using best practices and hit your goals.

SDI

SUBSURFACE DRIP IRRIGATION

is defined as the application of water below the soil surface by micro-irrigation emitters. SDI has been used commercially for irrigating many crops since the early 1990's.

Common spacings today are 30", 40" and 60". The dripline is typically buried 10 to 16 inches deep depending upon soil type and germination conditions.

In addition to the water savings provided by drip irrigation, field trials have shown an increase in nitrogen use efficiency of up to 47%. This results in more of the fertilizer being taken up by the plant, preventing the leaching of excess nutrients from the soil to the groundwater below. The system has also shown to help decrease the emission of greenhouse gasses.

SUBSURFACE DRIP IRRIGATION REDUCES CULTIVATION COSTS

SDI is the most efficient irrigation system using less water and fertilizer, and saving operational expenses. Drip is well adapted to 'No-till, Strip-till, and Minimum till' systems reducing cultivation costs.

Precise application of nutrients to root system.

Less fertilizer.

Use on-farm nutrients to fertilizer forage crops

Reduces synthetic fertilizer cost.

Soil surface stays dry.

Less weed growth.

Using SDI with strip or no-till streamlines crop management strategy.

Reduces time for ground preparation cultivation and crop residue management.

SDI irrigates 100% of the land.

No dry corners as with center pivot irrigation.

HIGHEST WATER USE EFFICIENCY

Water loss through evaporation, runoff and deep percolation are virtually eliminated.

ADAPTS FOR FIELD SIZE, SHAPE & TOPOGRAPHY

Odd shaped, small, and steep fields are not an issue with Netafim SDI solutions.

IMPROVES CROP QUALITY & BOTTOM LINE RESULTS

Water and nutrients are used more efficiently, resulting in reduced input costs, and produces a more uniform crop and higher yields.

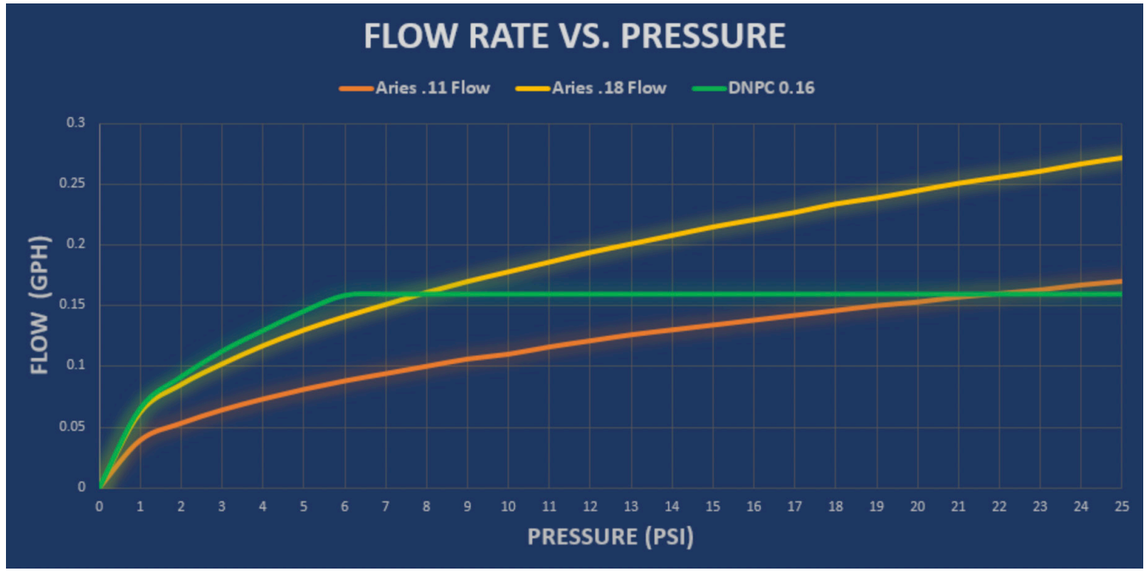
LONG LASTING PERFORMANCE

A high-quality drip system can last 25 years or more, when properly maintained.

NETAFIM™

50+ YEARS IN DRIP
30+ YEARS IN WASTEWATER

NETAFIM™ EMMITTERS



ARIES

- non-pressure compensated (non-PC) drip line
- as the pressure increases the flow increases so it is used in fields that has uniform slopes, where typically the drip line is going downhill on a consistent basis

DRIP NET PC

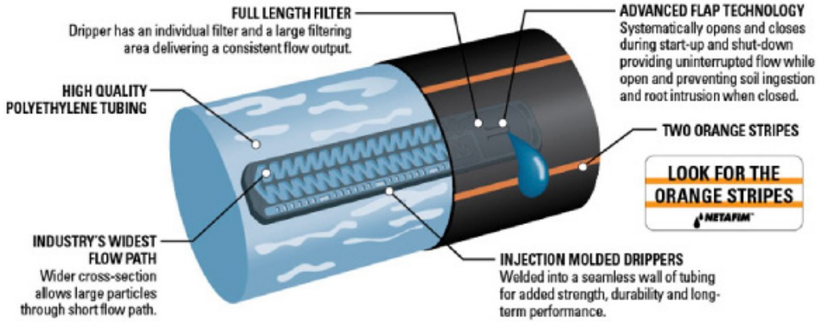
- a pressure compensated drip line
- typically used in rolling topography or fields that have very long run lengths

DRIP NET VS ARIES

ARIES

Aries is a non-pressure compensated (non-PC) dripline, meaning as the pressure increases, the flow increases. When you're irrigating orchards, vineyards and field crops on flat topographies with less than ideal water conditions, Aries™ drip Lines with extra-robust drippers can outlast any dripper in its category, giving you an irrigation system that works perfectly - season after season.

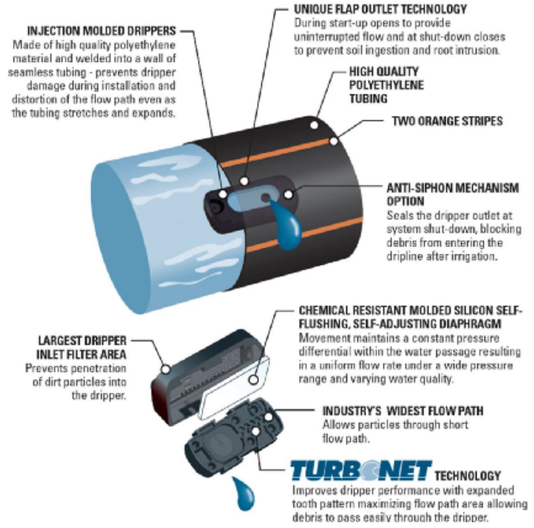
Aries™ Technical



DRIP NET

DripNet PC™ integral pressure compensated self-cleaning drip lines deliver the optimal cost-performance ratio when irrigating sloping terrain, uneven topographies and long crop rows.

DripNet PC™ Technical



IN-SEASON FERTIGATION

H20+FERTILIZER = MAXIMUM EFFICIENCY POTENTIAL

WATER CONSERVATION

By applying freshwater mix. Coordinating timing of nutrient distribution directly to the root zone, via SDI, evaporation is almost totally eliminated. No moisture on soil surface means less weed growth and less cultivation or herbicide sprays.

ENERGY CONSERVATION

Typically, SDI gives the ability to reduce overall amount of nutrients being applied, because it is applied with precise timing coordinated with plant uptake.

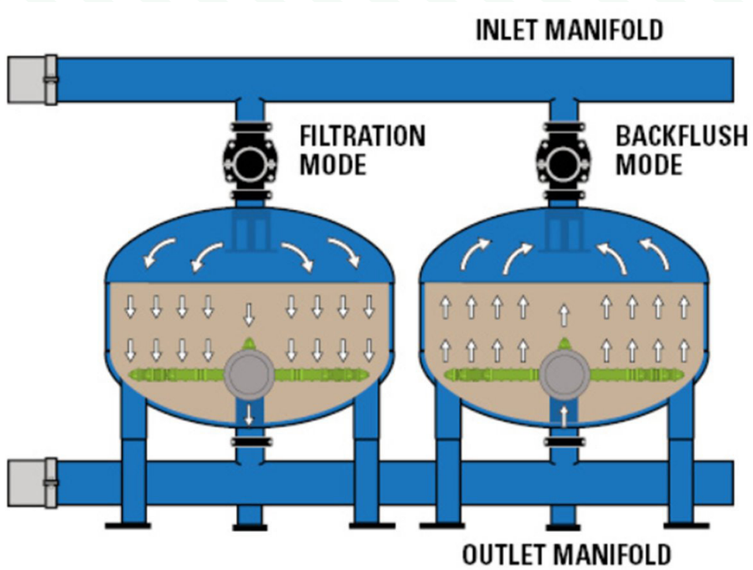
NUTRIENT CONSERVATION

Coordinating timing of nutrient distribution with plant uptake can reduce the amount of nutrients being applied. With drip, nutrients are applied directly to the root zone becoming quickly available to the crop.

DEMA PUMPS

FILTRATION

The filter system protects the drip system from the fine sand and other small particles that can plug the emitters. A well-conceived filter system provides the maximum operating life of the SDI system.



NutraDrip Irrigation Systems

AGRONOMY

KNOWLEDGE & CONSULTATION

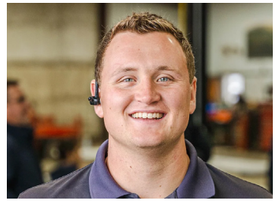
KOERTLAND BEYER
Research & Development / Water Quality

JASON MASCHHOFF
Agronomist / Business Development

MILES PETERSON
Agronomist

KURT GRIMM
COO

TIM WOLF
Agronomist for Netafim USA



TAYLOR ZELTWANGER
Sales Rep (ND, SD, MN) & Service Technician

AGRONOMY 365

NLAg Next Level Ag, LLC

IrriWatch

Sentek

Soiltech

RAVAH TECH

AquaSpy®

groguru

galcon

NETAFIM™ An Orbia business.

GREEN LIGHTNING™ NITROGEN

DIAMOND K

DEMA

ICL

AguaDulce World Leader in Alkaline Water & Soil Treatment

LABS

SENSORS

CONTROLLERS

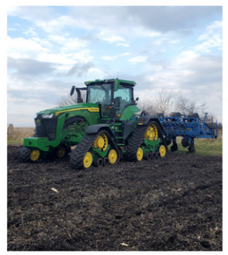
FERTIGATION

WATER QUALITY

1 PRE RIPPING & ROCK PICKING

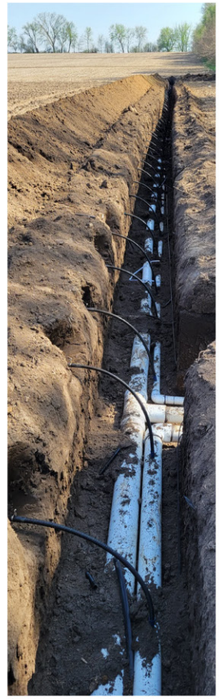
2 TAPE STAGING

3 PLOWING & WHEEL PACKING

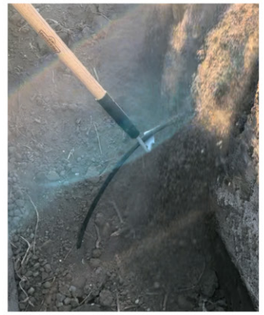


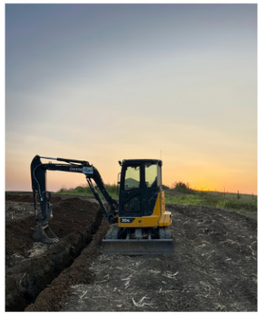
4 TRENCHING

5 CONNECTIONS & RISERS



6 BACKFILLING





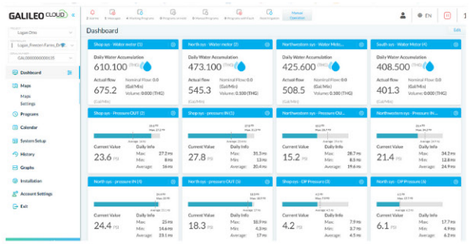
PUMPS

WELL SETUPS

MEDIA FILTERS

CONTROLS

CONTROLS



NUTRADRIP SERVICE

DISC FILTERS

AGRONOMY RESULTS

MEET THE TEAM

NutraDrip Irrigation Systems

KURT GRIMM
COO

TAMI MINGE
Accounting

WYATT BEYER
Sales Rep (IA) & Field Technician

TRENT STRAHM
Sales Rep (KS, MO, IA)

TRAVIS ROKEY
Sales Rep (MO, OK) & Field Technician

MILES PETERSON
Agronomist

TED GRIMM
CFO & Sales Manager

HOLLY EDELMAN
HR

DOUG GRIMM
Sales Rep

TREVOR HALBMAIER
Sales Rep (NE) & Service Technician

JOEL SCHESSER
Service Manager

MARGARITO DICHA SALINAS
Regional Service Lead, Project Manager

MICHELE RODVELT
CFO

JASON MASCHHOFF
Agronomist / Business Development

KOERTLAND BEYER
Research & Development / Water Quality

HANNAH GRIMM
Marketing

TAYLOR ZELTWANGER
Sales Rep (ND, SD, MN) & Service Technician

ANTHONY KOEHL
Field Technician

MARISSA GRIMM
Field Technician

BRETT DICK-WOLFE
Field Technician

LEO PALAFOX
Field Technician, Agronomic Engineer

SETH MILLER
Estimating

MARCELLO SALAS
Field Technician

JOSUE CARRASCO
Field Technician

NERI ALBERTO
Field Technician

LOGAN METZGER
Field Technician

BRANDON WETTSTEIN
Field Technician

PIERRE JORDAAN
Field Technician

ALEXIS HERNANDEZ
Field Technician, Agricultural Engineer in Irrigation

EDGAR GENARO
Field Technician, Agricultural Engineer in Irrigation

PABLO AMBROSIO
Field Technician

EDUARDO DESIDERIO
Field Technician

KEVIN BENNETT
Irrigation Advocate, Field Technician

CARLOS ENRIQUE
Controllers, Electrical Engineer

LUPITA MARTINEZ
Field Technician, Masters in Soil Science

MANUEL VEGA
Field Technician

FRANCISCO GOMEZ
Field Technician

EDGAR MUNOZ
Field Technician

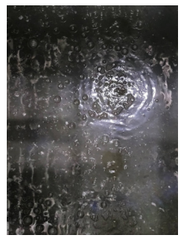
ILHUITL BARRANCO
Field Technician

MANURE MANAGEMENT

Manure doesn't have to be a waste product. With the right filtration system, you can transform manure into a liquid product to pump back through your drip irrigation system. This allows you to repurpose waste and utilize the nutrients still available for your crop.

PIT AERATION

Aeration is the process of mixing air, or creating bubbles, into the manure to promote the growth of aerobic bacteria. This process fights the formation of odor-producing bacteria, while simultaneously boosting the breakdown of the organic material.



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YOUTUBE

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NutraDrip

Irrigation Systems

2991 GOLDFINCH RD.
HIAWATHA, KS 66434

785-547-5209 | WWW.NUTRADRIP.COM

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