

# NETAKIT™

Netafim™, the pioneer and global leader of drip- and micro-irrigation, understands the growing complexity of the micro-irrigation industry. On the one hand, growers need more and more solutions to meet their diverse applications, crop types and plot sizes. On the other hand, they are finding it difficult to navigate through the seemingly endless list of available choices and suppliers.

## COVERING ALL IRRIGATION BASES

Recognizing these rapidly-evolving industry changes, Netafim offers NetaKit. A comprehensive, all-in-one irrigation solution for growers of all sizes, NetaKit is redefining irrigation-system acquisition. Bringing several Netafim systems under one umbrella, NetaKit simplifies the search, purchase and installation process for growers, providing them with a user-friendly, cost-efficient single-vendor offering that meets their unique requirements.

## COMPACT, ALL-IN-ONE PACKAGING

Each NetaKit system comes in a single, compact package that includes all of the “hardware” needed to get things up and running – valves, filters, connectors, dripperlines/sprinklers, distribution pipes and accessories. Equipped with a detailed yet user-friendly instruction manual along with system-specific irrigation information, NetaKit ensures easy, rapid and efficient installation.

Working across a range of low and high pressures, NetaKit systems utilize diverse energy sources, including solar/diesel, electrical pump and gravity, to keep energy costs down. Part of Netafim’s market-leading line of drip- and micro-irrigation solutions, NetaKit also increases water savings while promoting sustainable productivity.

## HIGHLIGHTS

- Comprehensive offering
- Efficient, compact packaging
- All-in-one system “hardware”
- Easy-to-install units
- Low-cost energy sources
- Low-risk, field-proven systems
- Multi-application, -crop, -size plot coverage

## BENEFITS

- Higher quality yields
- Greater water savings
- Lower energy costs
- Increased cost efficiency

### NETAKIT SYSTEMS

Designed to address the varied needs of Netafim customers identified over time, NetaKit comprises several systems covering different parts of the irrigation process across myriad applications, crops and plot sizes:

<b>DripK</b>	Drip irrigation system for open-field vegetable/row-crop plots and orchards ranging from 250 m <sup>2</sup> to 10000 m <sup>2</sup> (1.0 ha)
<b>SprinkK</b>	Sprinkler system for open-field vegetable/row-crop plots of up to 1.0 ha
<b>HeadK</b>	Complete head control system for drip, sprinkler/micro-sprinkler and other irrigation systems for open-field, orchard and greenhouse crops
<b>NutriK</b>	Complete Nutrigation™ systems for open-field and orchard crops



## FDS 500

A COMPLETE DRIP IRRIGATION SYSTEM PER 500 M<sup>2</sup>

### APPLICATIONS

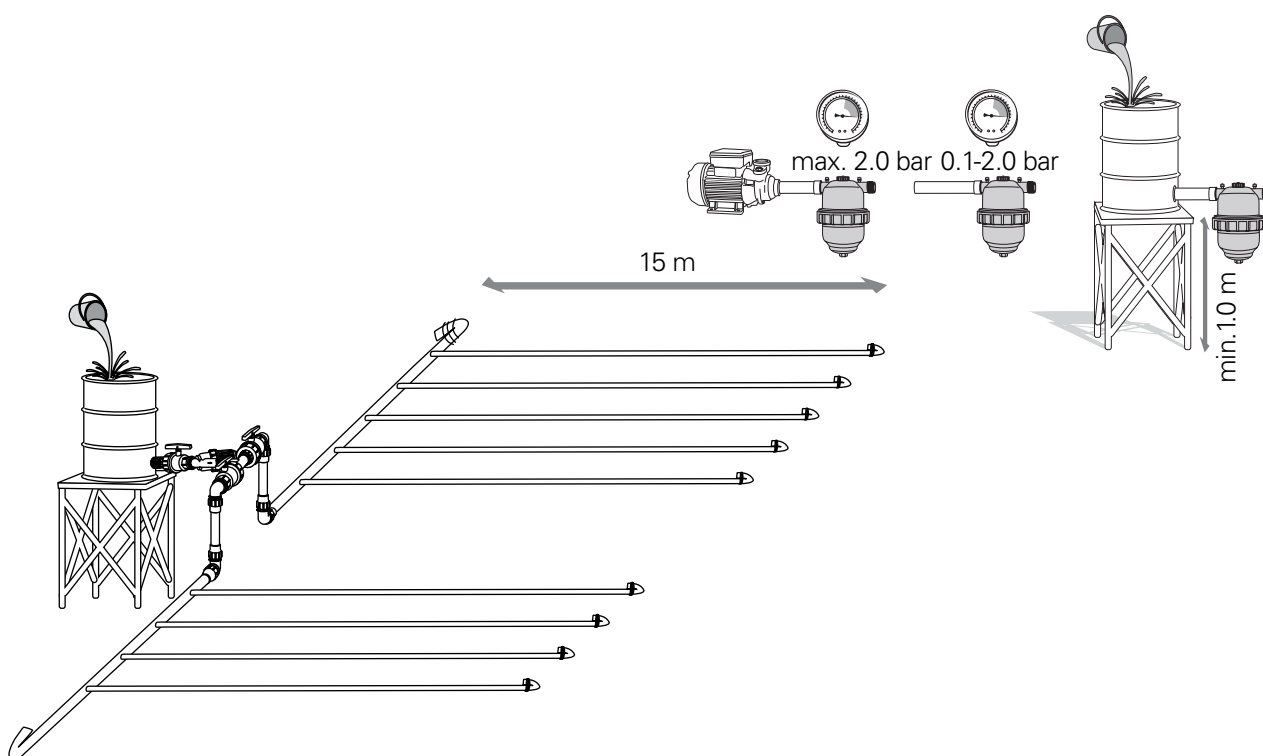
Irrigation of all row crop and vegetable types grown on 500 m<sup>2</sup> fields.

### BENEFITS AND FEATURES

- **Higher and better yield:** Precise and water efficient application directly to the root zone, improves water and fertilizer distribution.
- **Healthy and sustainable crops:** Reduces weed growth, evaporation and run-off, eliminates wetting of the foliage thereby reducing fungal diseases,
- **Labor and time saving:** All products/ parts needed for installation and operation are included, easy to use, assemble and operate, can be easily disassembled and stored.
- **Reliable performance:** Integrating durable drippers for several seasons' performance, dripperlines wall thickness allows for multi-seasonal use (layout and retrieval). Netafim™ drippers are manufactured, at the highest levels of quality in compliance with ISO 9261 International Standard.

### SPECIFICATIONS

- Designed for irrigation of 500 m<sup>2</sup> with 1.0 m dripperline spacing.
- Working pressure range: 0.1 to 2.0 bar.
- The system can be operated by water pressure using a pump or atmospheric pressure (over 0.1 bar).
- The system includes all needed components for field installation and operation.
- System head control must be installed in the highest point of the irrigated field.
- The system is designed for installation in fields with maximum 2% slope.
- Dripper flows, irrigation rates and scheduling at different working pressures will follow in the table below.
- It can be fully or two shift-operated, depending on the water amounts per hour available to the user.



## LOGISTIC DATA

- Catalog number: 42000-001200
- Box packaging size: 0.54 x 0.54 x 0.46 meter
- Average box weight: 19.4 Kg
- Pallet packaging size: 1.14 x 1.14 x 2.10 meter
- Average pallet weight: 323 Kg
- Number of irrigation kits per pallet: 16 kits

## SYSTEM COMPONENTS

FDS 500 • 42000-001200	
COMPONENTS	UNITS
MICRODRIP 8 2.00 L/H 0.30 M 250 M	2
PE IRRIGATION PIPE 25/4 25 M FDS	1
TANK OUTLET 1" BUTZI PP	1
PLASTIC FEMALE COUPLER 1"	1
PLASTIC NIPPLE 1"*1"	1
NMV PVC BALL VLV 1 UNION 1" FFT BSP	3
FILTER 1" BSP 120 MESH BRWN L	1
TEE SWIVEL FEMALE 1"M* 1"F *1"M	1
NUT LOCK FITT. ELBOW 25*1" MALE	2
NUT LOCK COUPLING 25*25	2
NUT LOCK FITT. END LINE 25 MM	2
NARROW TEFLON	2
MINI PUNCH 3.5	1
PRESS FIT FEMALE START CONN. 4X6.5 BROWN	40
PRESS FIT MALE CONN. F/MICRO TUBE 8 MM BWN	40
BARB COUPLING BROWN CONN. 8 MM	40
MIC MALE PLUG	10
END LINE MICRODRIP 8 MM 20/BAG	2

FDS CONNECTORS BAG (SPARE PARTS) • 42000-003500	
COMPONENTS	UNITS
BARB-F CONN. BROWN	20
BARB-M CONN. BROWN F/MICRO TUBE 8 MM	20
BARB COUPLING BROWN CONN. 8 MM	20
MALE PLUG	5

## TECHNICAL DATA

Dripper hourly flow rate respective to working pressures and precipitation rates according to dripper and dripperline spacing:

PRESSURE (BAR)	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
FLOW RATE (L/H)	0.65	0.91	1.28	1.56	1.79	2.00	2.19	2.36	2.52	2.67	2.81
PRECIPITATION RATE (MM/H) WITH DRIPPERLINES EACH 1.0 M	2.16	3.03	4.25	5.19	5.97	6.66	7.29	7.86	8.39	8.89	9.36

To calculate irrigation time per day divide to total water amount required by the system's precipitation rate, for example: crop requirement of 5 mm per day will be divided by precipitation rate (based on the working pressure) to obtain the total number of hours required for irrigation.

Hourly water amount respective to working pressures when the whole system is operated simultaneously or when the system is operated in two halves:

PRESSURE (BAR)	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
TOTAL FLOW RATE (M <sup>3</sup> /H) WHEN ALL 500 M DRIPPERLINE WILL BE USED	1.08	1.51	2.13	2.59	2.99	3.33	3.64	3.93	4.20	4.44	4.68
FLOW RATE 1/2 AREA (M <sup>3</sup> /H) WHEN 250 M DRIPPERLINE WILL BE USED	0.54	0.76	1.06	1.30	1.49	1.67	1.82	1.96	2.10	2.22	2.34