

INSTRUCTIONS

HortoKit® is the best solution for gravity powered or low pressure drip irrigation of small orchards. This system is based on drip irrigation technology powered by water' force of gravity or connected to water supply networks with max pressure of 1,0 bar.

The kit has been designed for "Do it yourself" irrigation systems; it's easy to install and it allows to optimise water use, maximizing the quality and quantity of the crops.

Features

- Suitable for irrigation of all kind of vegetables or crops
- Designed for irrigation of surfaces of 250, 500 and 1000 mq
- Gravity powered with minimum pressure of 0,10 bar
- Installation on flat grounds or on slight slopes ones
- The kit includes all the accessories for system installation.

Options

- Linkable to water supply network with max pressure of 1,0 bar
- Working with mechanical or electronic programmer
- Extendable with modular kit of 100 mq



PRODUCT CODE	IRRIGABLE AREA	IRRIGABLE AREA WITH EXTENDABLE KIT
HOKIT250	250 mq	350 - 450 mq
HOKIT500	500 mq	600 - 700 mq
HOKIT1000	1.000 mq	1.100 - 1.200 mq

BOX



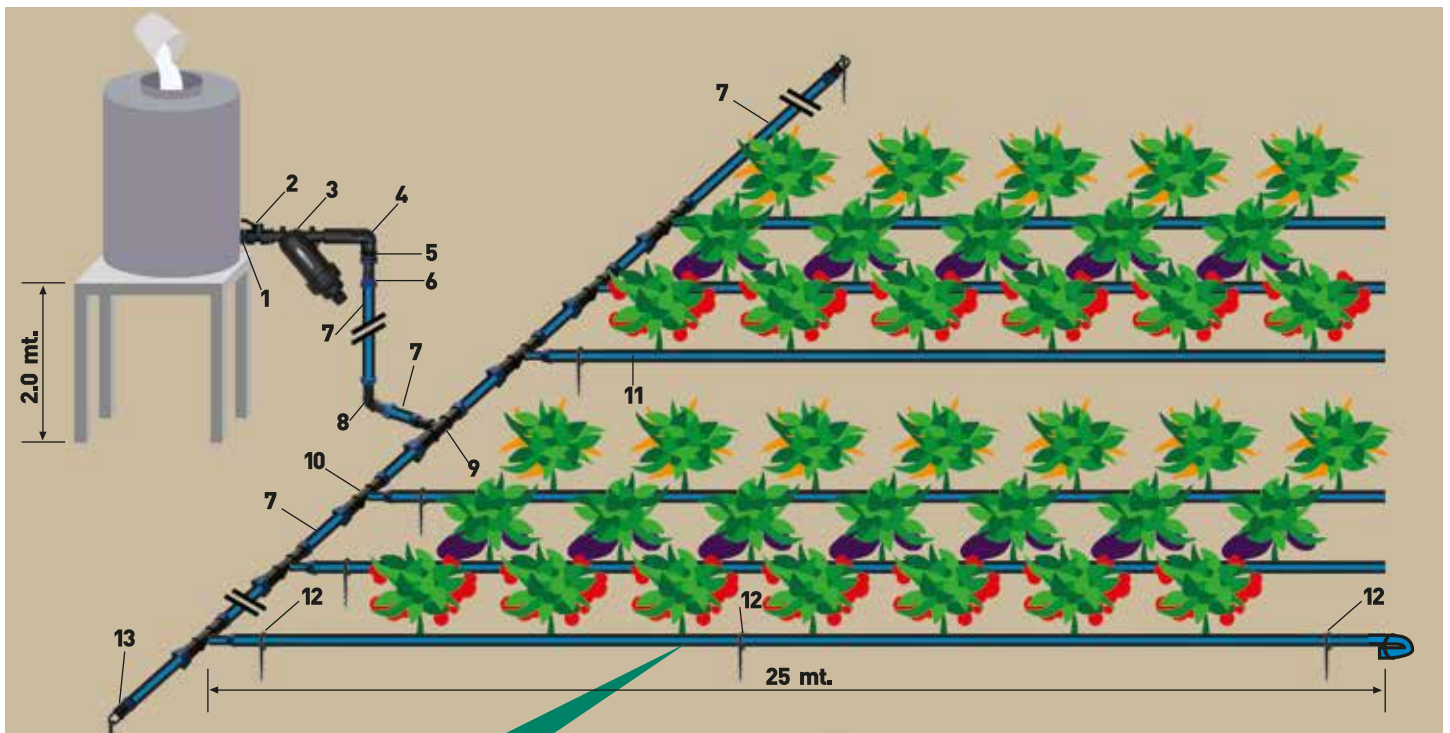
EXTENDABLE KIT 100 mq

Benefits

- Reduction of water consumption of about 70%
- Uniformity in the distribution of water and fertilizers
- Plant nutrition directly to the root side
- The installation is aimed for multi-season crops
- Increased irrigation efficiency and crop growth
- Fast and easy installation

Kit contents

- Aquadrop flat drip line
diam. 16 mm - dripper spacing 30 cm
- Main pipe for water supply
- 120 mesh screen filter - 130 micron
- Complete accessories set
for installation making
- Various components
- Spares parts for eventful repairs



1

1 pc.

**TANK ADAPTOR DIAM. 1"**

A) Wind Teflon (16) on the threading and plug it to tank adaptor.

2

1 pc.

**FEMALE FEMALE VALVE DIAM. 1"**

B) Screw the valve down to tank adaptor.

3

1 pc.

**120 MESH SCREEN FILTER DIAM. 1"**

C) Wind threading with Teflon (16) and plug the filter to the valve following arrow direction.

4

1 pc.

**90° FEMALE FEMALE ELBOW DIAM. 1"**

D) Screw the elbow down to filter.

5

1 pc.

**REDUCING COUPLING MALE 1" - 3/4" FEMALE**

E) Wind thread with Teflon (16) and screw it up to elbow.

6

1 pc.

**RING MALE ADAPTOR DIAM. 3/4" MALE - 22**

F) Wind thread with Teflon (16) and plug it into reducing coupling.

7

25 mt.

**FLEXIBLE HOSE DIAM. 22 - Mt. 25**

G) Unwind $\varnothing 22$ mm hose from the reel and cut enough length piece until it reaches the soil. Then, plug the hose in the fitting and pull the ring to fix it.

8

1 pc.

**90° RING ELBOW DIAM. 22-22**

H) Mount elbow on the vertical pipe; cut $\varnothing 22$ mm flexible hose with useful length piece, until it reaches installation head and opposite edge of the elbow.

9

1 pc.

**RING TEE DIAM. 22-22-22**

I) Plug flexible hose to central fitting. Cut $\varnothing 22$ flexible hose in two pieces both of 50cm, and eight pieces of 100cm each. Plug 2 pieces of 50cm each on the tee edges.

10

10 pc.

**REDUCING RING TEE DIAM. 22-16-22**

L) Plug flexible hose of 100cm to reducing tee side edges.

11

250 mt.

**AQUADROP DIAM. 16, 8mil - DG30**

M) Unwind $\varnothing 16$ drip line; cut 10 pieces of 25 mt. each and plug them to the reducing tee edges; close the line with a twist or with end line plug.

12

32 pc.

**SPIKES DIAM. 16mm**

N) Bend and adjust installation head by fixing it with enclosed spikes. Then, fix drip lines (11) on three different positions.

13

2 pc.

**END LINE RING PLUG DIAMETER 16mm**

O) Fix end line plugs on the two edges and on the ground with enclosed spikes.

14

1 pc.

**RING COUPLING DIAM. 22-22**

P) Use in case of more joints.

15

1 pc.

**RING COUPLING DIAM. 16-16**

Q) Use in case of more joints.

16

1 roll

**TEFLON th. 0,075mm, 12 mt.**

R) Apply on all threads.

WARNING

- Installation must be done with precaution by accompanying the unwinding of the pipe to avoid excessive tensions, rubbing on the ground, cuts, abrasions or wrinkles;
- Aquadrop must be installed with blue stripe up to limit sediments at dripper inlets;
- Make sure that working pressure is between 0,2 and 1,0 bar;
- After starting the irrigation system check for leaks on the fittings and provide tighten properly;
- Periodically remove the filter and wash the internal cartridge with clean water;
- Following table shows water quantities emitted from drip line for each mt. at the different working pressure.

Pressure (bar)	0,2	0,4	0,6	0,8	1,0
Flow Rate (lt/h)	0,9	1,2	1,5	1,8	2,1
Water quantities (mm/h) with drip lines per meter	3,0	4,0	5,0	6,0	7,0

