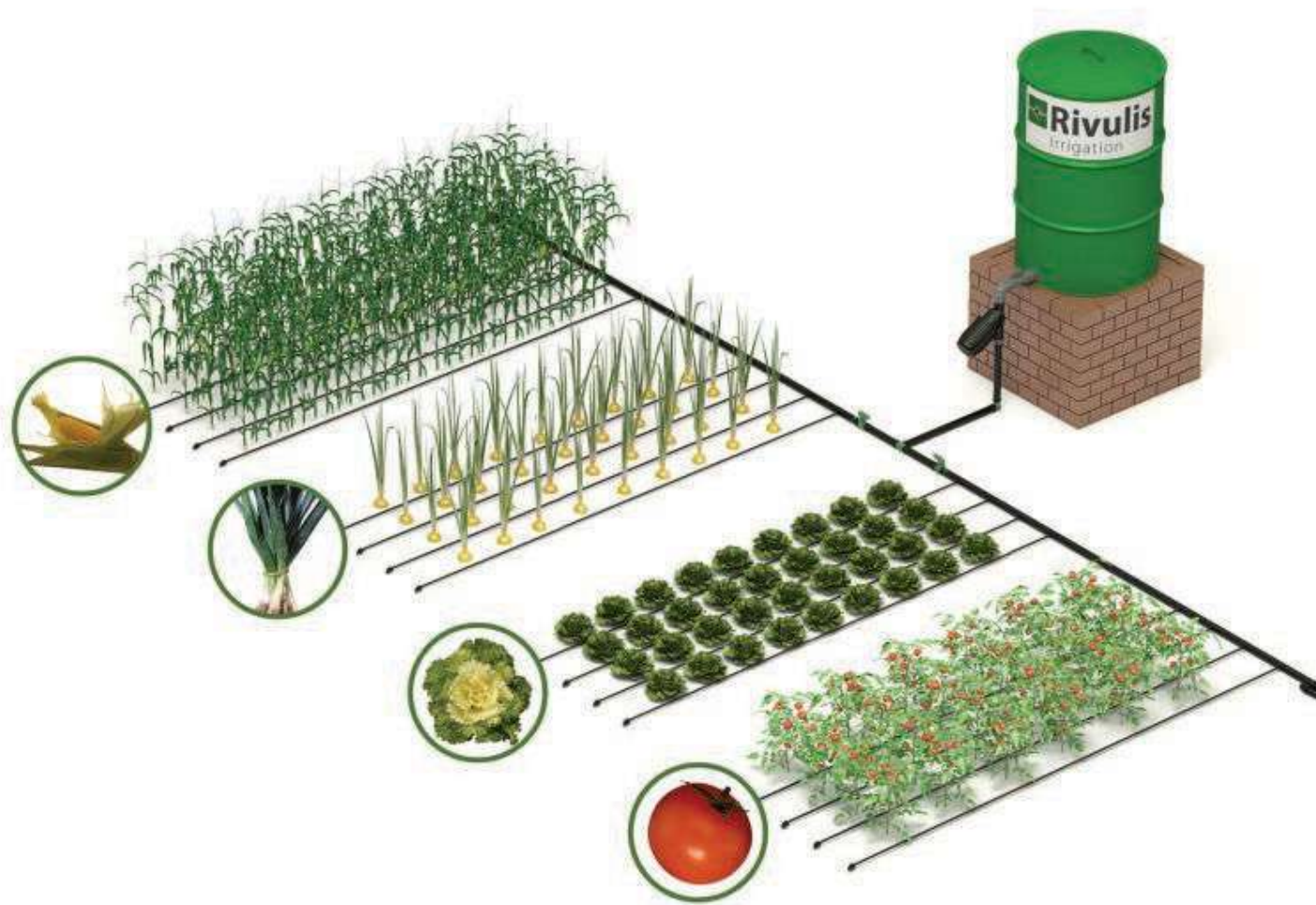


Gravity Fed Drip Irrigation Kit



 **Rivulis**
Irrigation

Rivulis DK-G Gravity Fed Drip Irrigation Kit



Rivulis DK-G Gravity Fed Drip Irrigation Kit

The system offers many benefits:

- Higher yields and improved crop quality
- Precise water and fertilizer application
- Increases water use efficiency, reduces evaporation and run-off
- Excellent water distribution uniformity
- Easy installation, operation and maintenance
- Modular kit assemblies for different plot size
- Emitter highly resistant to clogging even in low flow rates due to:
 - Double large inlet filter
 - Large cross section labyrinth
 - Two water outlet holes
- All products and parts needed for installation and operation are included (except the water tank)

Rivulis DK-G Gravity Fed Drip Irrigation Kit

3 kit options:

101049411: Rivulis DK100-G Gravity Fed Drip Irrigation Kit (8/32/1.2/0.30)
101049412: Rivulis DK250-G Gravity Fed Drip Irrigation Kit (8/32/1.2/0.30)
101049413: Rivulis DK500-G Gravity Fed Drip Irrigation Kit (8/32/1.2/0.30)



Rivulis DK-G Gravity Fed Drip Irrigation Kit

Characterization:

- Area sizes:

Size (m ²)	Submain length (m)	Lateral length (m)
100	10	10
250	20	12.5
500	40	12.5

- Specifications:

Dripline diameter	8mm
ID	6.4mm
Wall thickness	32mil / 0.81mm
Dripper spacing	30cm
Drip line color	Brown
Recommends drip line length	12.5m

Rivulis DK-G Gravity Fed Drip Irrigation Kit

Technical data:

Pressure (water tank height)	P = 1.0 meter	P = 1.5 meter	P = 2.0 meter
Dripper flow rate (lph)	0.36	0.45	0.54
Application rate (flow rate divided by the dripper spacing) (mm/h)	1.2	1.5	1.8
Total flow rate of full plot with 1m lateral spacing, 100m ² , 250m ² , 500m ² (lph)	120, 300, 600	150, 375, 750	180, 450, 900
Total flow rate of half plot with 1m lateral spacing, 100m ² , 250m ² , 500m ² (lph)	60, 150, 300	75, 187.5, 375	90, 225, 450

Calculated irrigation time - example:

Pressure (water tank height)	P = 1.0 meter	P = 1.5 meter	P = 2.0 meter
Irrigation time for 5 mm/day (hours)	4.2	3.3	2.8
Irrigation time for 6 mm/day (hours)	5.0	4.0	3.3
Irrigation time for 7 mm/day (hours)	5.8	4.7	3.9

To calculate irrigation time per day divide required application by the plot's application rate

For example:

Crop requirement of 6mm per day will be divided by application rate (based on the water tank height) to obtain the total number of hours required for irrigation

Components

SKU	Description	DK100-G	DK250-G	DK500-G
101018741	WATER TANK OUTLET – THREADED OUTLET ADAPTOR 3/4" 5169	1	1	1
101004617	BLACK PLASTIC VALVE 3/4" THREADED FEMALE-MALE	1	1	1
101018530	ELBOW 3/4" THREADED FEMALE-FEMALE	1	1	1
101044244	F6100 FILTER IN-LINE 3/4" BSP 100mic	1	1	1
101003920	BARBED ADAPTOR 20x3/4" THREADED FEMALE BLACK	1	1	1
101049328	LDPE 20/2.5 BLACK-15 m	1		
101023651	LDPE 20/2.5 BLACK-25 m		1	
101018381	LDPE 20/2.5 BLACK-30 m			1
101003930	BARBED ELBOW 20 mm BLACK	1	1	1
101003963	BARBED TEE 20x20x20 mm BLACK	1	1	1
101025522	HYDROBLOOM BROWN 8/32/1.2/0.30 – 25m (2OUT)	4	10	20
101004591	DRIPLINES VALVE BARBED 20x20 mm	2	2	2
101030574	BARBED BROWN COUPLING 8x8 mm	20	25	30
101045210	LINE END CLAMP 20 mm	2	2	2
101022746	MINI PUNCH DRIPPER PUNCH 3.7 mm	1	1	1
101002308	TEFLON THREADED SEAL TAPE	2	2	2
101001888	BARBED COUPLING 20x20 mm BLACK	3	4	5
101049410	LINE END 8 mm, RING 16 mm	20	25	30
101049409	DK-G BRUSH FOR FILTER CLEANING	1	1	1

Packaging 100 – 1 box + 1 roll

101049411

Long Description: Rivulis DK100-G Gravity Fed Drip Irrigation Kit (8/32/1.2/0.30)

Short Description : DK100-G 8/32/1.2/0.30 Gravity kit



**Box C-1 – L385mm x W380mm x H270mm
4 HydroBloom Rolls +
Accessories
Weight – 3.1 kg**



**LDPE 20/2.5 – 15 meters
Weight – 1.1 kg**

Packaging 250 – 1 box + 1 roll

101049412

Long Description: Rivulis DK250-G Gravity Fed Drip Irrigation Kit (8/32/1.2/0.30)

Short Description : DK250-G 8/32/1.2/0.30 Gravity kit



**Box C-3 – L490mm x W355mm x H355mm
10 HydroBloom Rolls +
Accessories
Weight – 6.2 kg**



**LDPE 20/2.5 – 25 meters
Weight – 1.8 kg**

Packaging 500 – 2 boxes + 1 roll

101049412

Long Description: Rivulis DK500-G Gravity Fed Drip Irrigation Kit (8/32/1.2/0.30)

Short Description : DK500-G 8/32/1.2/0.30 Gravity kit



Box C-3 – L490mm x W355mm x H355mm
10 HydroBloom Rolls +
Accessories
Weight – 6.2 kg



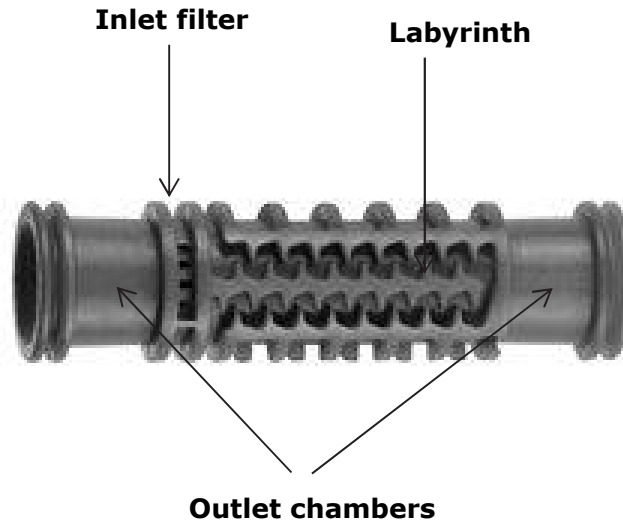
Box C-3 – L490 x W355 x H355
10 HydroBloom Rolls
Weight – 5.8 kg



LDPE 20/2.5 – 30 meters
Weight – 2.2 kg

Hydrogol 8mm - dripper

- Round emitter with two large inlet filters
- Efficient labyrinth enables uniform flow rate and high clogging resistance
- Two water outlet chambers, one on each side of the emitter
- Manufactured from high quality materials



Installation



Kit includes 1 or 2 boxes + 1 LDPE roll



Kit components



Kit components - Accessories



Locate the water tank at height of
minimum 1.0 m





Drill hole of 25mm

3/4" Outlet installation



1. Take-apart the nut



View from inside the water tank



2. Insert the male threaded adaptor from the inside of the tank



3. Thread the nut



Tighten the nut



Bind a threaded tape on the outlet thread – clockwise direction



Connect the 3/4" ball valve



Connect the 3/4" elbow to the valve



Assemble the 3/4" filter to the elbow
Follow the direction arrow marked on the filter



Attach the 20mm x 3/4"F barbed adaptor to the filter



Connect the 20mm LDPE pipe to the 20mm x 3/4"F adaptor and ensure it will reach the ground



Attach a 20mm barbed elbow to the other side of the 20mm LDPE pipe

Connect another 20mm LDPE pipe to the elbow and lay out the pipe all the way to the head of the plot



Insert the 20mm barbed tee into the 20mm LDPE pipe



Connect the 20mm LDPE distribution pipe to both sides of the tee, ensure the distribution pipe length will be according to the design



Cut the 20mm distribution LDPE pipe 25-30cm away from the T, both sides, and connect the 20mm barbed valves



Close the ends of the LDPE pipe with 20mm line end



Laying the 8mm dripline along the bed, dripline length according to the design



Punch 3.7mm holes with the mini punch in the 20mm distribution LDPE pipe in spacing of 1.0 meter or according to row spacing, maximum holes per side according to the design



Connect the 8mm barbed coupling to the 8mm dripline



Insert the connected 8mm barbed coupling into the 3.7mm hole in the 20mm LDPE pipe



Fold and close the 8mm driplines end with a 16mm ring



The system is ready for start-up

System start-up

I

1. Close the 3/4" ball valve.
2. Fill the water drum with clean water.



System start-up

II

1. Disassemble the filter and clean the screen with the brush (15).
2. Make sure that the filter screen is placed properly inside the filter housing.
3. Re-assemble the filter.



System start-up

III

1. Open the ball valve and fill the system with water.
2. Open one end of the 20mm distribution line and flush all debris.
3. Reclose the distribution line with a 20mm line end (10).
4. Open the other side of the distribution line and repeat steps 1-3.



System start-up

IV

1. Open the dripline-end and flush the dripline, one by one.
2. Refold and close the dripline.
3. Repeat the same procedure with all driplines.
4. Check the entire system and make sure it is leak-free.

Now the system is ready for start-up.





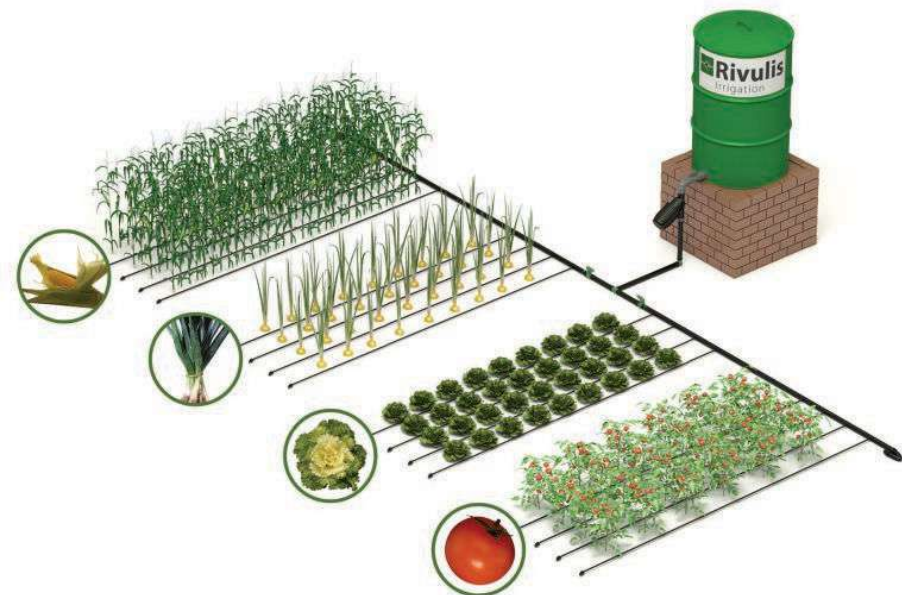






Gravity Fed Drip Irrigation Kit - Marketing Materials

- Data sheet
- Instructions for installation, operation and maintenance
- Presentation
- Branded stickers for carton box
- Design models
- SKUs list and BOMs



End

