

DAN-Flipper

Flipper



Stabilizer

The DAN-Flipper is a low-volume sprinkler specifically for frost mitigation in fruit and grape cultivation. The unique design of the DAN-Flipper ensures that the water is sprayed over a long, narrow strip. The system must be started before a harmful temperature is reached; a table has been drawn up for determining the starting temperature.

APPLICATION

Frost mitigation in fruit and grape cultivation, cherry cultivation under glass

CHARACTERISTICS

- ✓ Low water consumption
- ✓ Up to 70% water savings compared with conventional irrigation
- ✓ Minimum risk of water overload
- ✓ Effective protection width of 1-1.2 meters
- ✓ Mounting on a carrier post using a 'support hook'
- ✓ Between 2002 and 2005, the Flipper was supplied with a 7 mm clamp fitting
- ✓ From 2005 the Flipper has 'sealing lips' so that the sprinkler head cannot fly off during the frost period

Flow rate and range (at 2 bar)

Nozzle	Flipper	Flow rate	Spray	Sprinkler spacing	Width
(Colour)	(Colour)	(l/h)	(m)	(m)	(m)
Black	Black	25	7	6	1-1,2
Violet	Black	35	7,5	7	1-1,2
Brown	Brown	45	8	9	1-1,2

Recommended starting temperatures at different dew point temperatures

Dew point (C°)	-9	-8	-7	-6	-5	-4	-3	-2	-1,5
Starting temp. C°)	4	3,5	3	3	2	1,5	1	0,5	0,5

TECHNICAL DATA

Flow rate	: see table
Radius	: see table
Rec. working pressure	: 2.0 bar
Working pressure	: 1.5 – 3 bar (with increasing flow rate)
Discharge	: 160 cm
Filtration	: 130 micron
	: 80 micron with automatic filters
Connection	: barb 4/7mm
Option	: pressure-compensated version by means of flow controller

INSTALLATION & MAINTENANCE

Installation

- ✓ Since 2005 the DAN-Flipper is equipped with 'closing tabs' so that the spray head cannot come loose during a frost period.
- ✓ Installation of the sprinkler 5 cm above the post.
- ✓ In order to achieve the range indicated, the sprinkler must be installed 1 meter above the crop.
- ✓ In most cases the same pump flow rate, filters and supply lines can be used with the DAN-Flipper as for drip irrigation.
- ✓ A 32 or 25 mm PE line is generally sufficient as supply line.
- ✓ Use a 16 mm line for the last +/- 40 meters in order to achieve a high water velocity.

Maintenance

- ✓ For cleaning of the sprinklers, please refer to information sheet "Installation and maintenance of sprinkler system", section: Cleaning instructions.
- ✓ Check at regular intervals whether the sprinklers are set to the correct working pressure.
- ✓ Check the function of your installation and flippers before the frost period.

