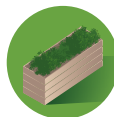




EN INSTRUCTIONS



UNIVERSAL



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## HOW TROPF-BLUMAT WORKS

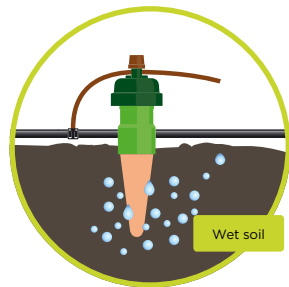
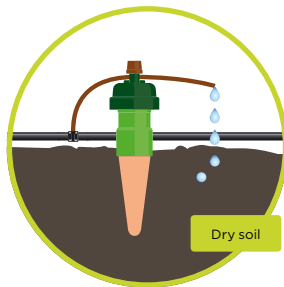
Tropf-Blumat is a fully automatic plant watering system which functions without the need for a timer. Each Tropf-Blumat is both a sensor and a dripper and reacts to the soil moisture content. If the soil becomes dry, the pressure in the Tropf-Blumat goes down, causing a valve to open and water-

ring to begin. When the soil is sufficiently moist again, the release of water is automatically stopped. **Each Tropf-Blumat reacts completely independently.** Therefore the plants are watered individually, according to whether or not they are thirsty and come rain or shine.

At least 1 Tropf-Blumat is installed in each plant or container and then connected to the shared feeding tube. A correctly installed system need not be readjusted for the whole season.

### WARRANTY

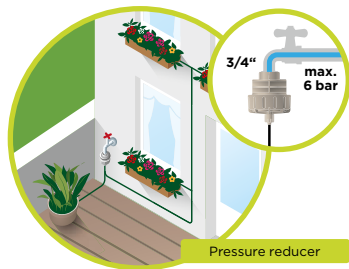
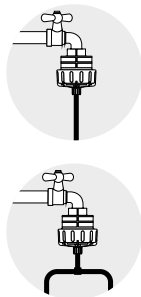
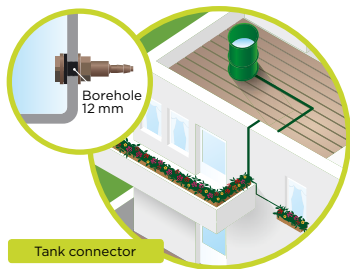
All Blumat products are covered by a 2-year warranty from the date of purchase. Should you not be entirely satisfied with a product, please send us the faulty part together with proof of purchase.



## WATER CONNECTION

The water supply is connected with the pressure reducer or tank connector. The pressure reducer is connected directly to a tap or to a domestic water system (pump with expansion tank) and regulates the pressure at 1 bar. Therefore you can also look after balcony plants and hanging baskets at heights of up to 4 m. The tank connector is fitted to any container. This container must be at least 0.5 m higher than the Tropf-Blumat system for every 5 m of tube but no more than

14 metres higher. With one water connection you can operate a system of up to 60 metres (250 Tropf-Blumat inserts). If you fit the tee provided with the product immediately downstream of the pressure reducer, you can operate systems of up to 2 x 60 m (500 Tropf-Blumat inserts). Heat the feeding tube before installation (in hot water or sunshine) so that it is easier to fit. Do not kink the tube!



## SIMPLE INSTALLATION

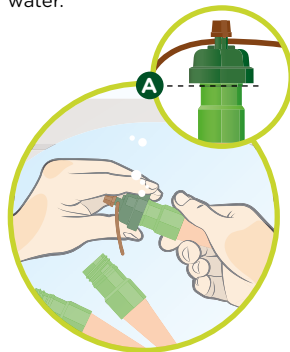
## STEP 1

Unscrew the green watering head and place the ceramic sensor in the water for at least 15 minutes.



## STEP 2

Then screw back together **underwater**, tightening firmly down to the ring (A). The sensor must be completely filled with water.



## STEP 3

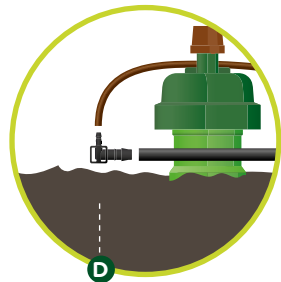
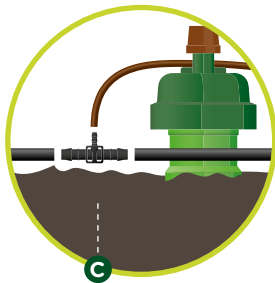
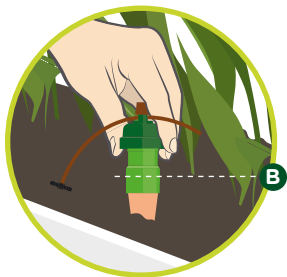
Now that the Tropf-Blumat is filled with water and screwed back together, leave it in the water for at least 15 minutes.



## STEP 4

**IMPORTANT:** It is essential to water the soil several times before fitting the individual Tropf-Blumat inserts.

Insert the Tropf-Blumat in the soil near the roots, pushing it down to the depth indicated (**B**) and leaving a gap of about 20 to 25 cm between each insert. Make sure it is firmly anchored in the earth. Put the Tropf-Blumat with the end-piece (**D**) at the end of the installation. If necessary, take off the T-piece (**C**) and replace it with the end-piece (**D**).



## STEP 5

## CONNECTION TO THE FEEDING TUBE

Take the feeding tube and cut off pieces of the appropriate length and use them to connect the individual Tropf-Blumat inserts. Take the tube pieces and push them firmly onto the T-pieces of the Tropf-Blumat inserts. Make sure the tube is firmly seated. **Do not use lubricants (grease, soap, etc.) when pushing on the pieces!**

## STEP 6 - CORRECT TROPF-BLUMAT SETTING

**IMPORTANT:** All the Tropf-Blumat inserts must be „closed“ before adjusting the setting. Turn on the tap. There must be no drips coming from anywhere.

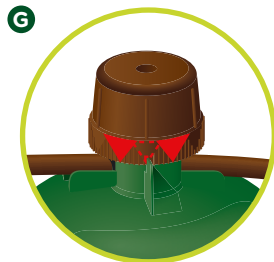
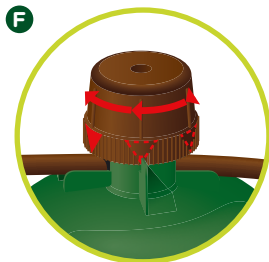
Begin by positioning the last Tropf-Blumat of the system, evacuating the air from the feeding tube. Open the adjustment screw by turning it anticlockwise. Water will now run out of the drip tube which must extend about 8 cm out of the Tropf-Blu-

mat (E). Then close the adjustment screw again, turning it slowly clockwise and leaving just one drop of water sitting on the drip tube. Then close the adjustment screw further, turning it by another 2 arrows (1/4 turns) clockwise (F). The Tropf-Blumat

must not release any water if the soil is wet.

### **i** CHECKS

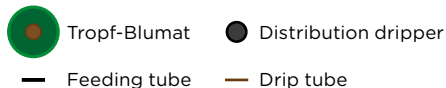
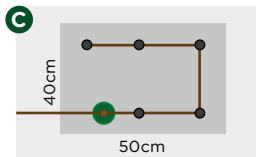
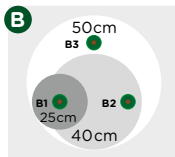
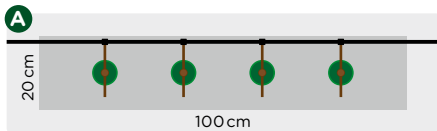
After installation check the water discharge for about 1-2 weeks and, if necessary, adjust the setting by opening (= more water) or closing (= less water). In most cases the setting will only need to be adjusted by **1/2 an arrow** (G).





## REQUIRED QUANTITY OF TROPF-BLUMAT

1 Tropf-Blumat will water a diameter of approx. 20-25 cm of soil.



### WHAT YOU NEED:

**A** e.g. to water balcony flower boxes:

100cm in length: min. 4 Tropf-Blumat

80cm in length: min. 3 Tropf-Blumat

60cm in length: min. 2 Tropf-Blumat

**B** e.g. to water tubs and planters:

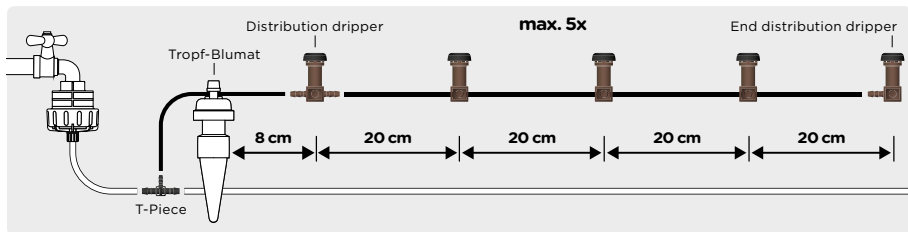
Up to 25cm Ø: 1 Tropf-Blumat (B1)

25 to 40cm Ø: 2 Tropf-Blumat (B2)

40 to 50cm Ø: 3 Tropf-Blumat (B3)

**C** Distribution drippers can also be used in relatively **large pots, containers or beds** instead of additional Tropf-Blumat inserts. 1 Tropf-Blumat and 5 distribution drippers will water an area measuring 40 cm in width and 50 cm in length.

## USE OF DISTRIBUTION DRIPPERS



Take the thin drip tube and cut off pieces approx. 20 cm long. Then connect a maximum of 5 distribution drippers together and fit the end distribution dripper at the end of the chain. Lay the chain of distribution drippers anywhere around the roots of the plants. It is important to leave a distance of approx. 8 cm between the Tropf-Blumat and the nearest distribution dripper. First set the Tropf-Blumat as instructed in **Step 6** and then connect the chain with the Tropf-Blumat. The black screw need not be adjusted unless a distribution dripper can be seen to be releasing less water. In this case loosen the black screw by one turn. Unscrew completely and clean once a year.



## WHAT SHOULD I DO IF...

### ... THERE IS NO WATER IN THE SENSOR?

**Causes:** air intake, poor screw fitting, drip tube kinked, poor anchorage in soil, water supply cut off.

**Solution:** refill Tropf-Blumat with water and screw tight down to marking ring.

### ... THE WATERING DIAMETER IS TOO SMALL?

**Cause:** drip tube too short. The water is getting through to the ceramic sensor too quickly.

**Solution:** lengthen drip tube to 8 cm.

### ... THE TROPF-BLUMAT DOESN'T TURN OFF?

**Cause:** low air temperature (can be the case after cold nights), Tropf-Blumat turns off slower

**Solution:** close adjustment screw by about 1/2 a marking.

### ... THERE IS NO WATER COMING OUT OF THE DRIP TUBE?

**Cause:** tube blocked, gummed up or intake kinked.

**Solution:** take the drip tube out slightly and squeeze out the flat part with your fingers.

### PREPARING FOR WINTER

Empty the tank before winter and remove the pressure reducer. Wash down the insides and outsides of all the Tropf-Blumat inserts with water, removing encrusted soil from the cones with sandpaper. All the tubes can be left outside. Store the pressure reducer and Tropf-Blumat inserts in a frost-free location.

### FERTILISATION

Slow-release fertilisers are recommended, preferably added to the soil when planting. Alternatively, add fertiliser to the plants once a month with a watering can.

### IMPORTANT:

**Always leave the tap open/re-fill the water tank in time.** Even in rainy weather. If the water supply is cut off for a longer period of time, the roots could draw the water out of the sensor.

**Do not be deceived if the surface of the earth is dry.** The water spreads out underground in the shape of an onion. In most cases, only the surface of the soil under the drip tube is visibly moist.

The Tropf-Blumat watering system has been specially developed for outdoor plants and may not be used indoors. Protect plants from falling over and do not place on moisture-sensitive ground. Any water which may escape must not cause damage (e.g. flow into cellar rooms).

## ACCESSORIES

Tropf-Blumat



inkl. T-Piece 8-3-8

Tropf-Blumat Maxi



For large plants

1Bar - 3/4"



Pressure Reducer

Ø 8mm



Tank Connector

Ø 8mm



Feeding Tube black/white

Ø 8/8mm



Shut-Off Valve

Ø 3mm



Drip Tube

Ø 8 + 3mm



Hose Security Clamp

# ACCESSORIES

Ø 8/8 mm



Hose Union

Ø 8/8 mm



Elbow

Ø 8/8/8 mm + 8/3 mm



Tee + End-Piece

Ø 3/3 mm



Mini-Hose Union

Ø 3/3/3 mm



Mini-Tee

Ø 3 mm



Distribution Dripper



Support for feeding tube and  
distribution dripper

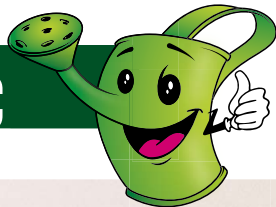
Blumat Digital



Professional watering monitor



# Blumat<sup>®</sup> CLASSIC



CLASSIC



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info@blumat.com