



Advanced  
Automation  
Systems



# Cu Cyclone PC™

Copper Oxide Infused  
Flat PC Emitter

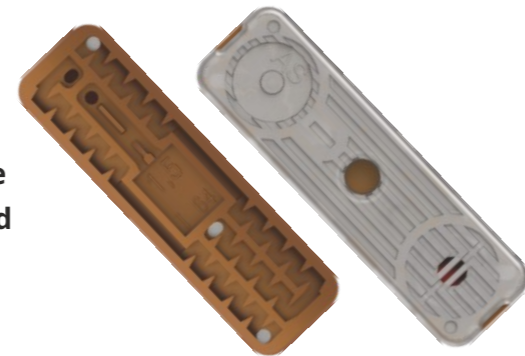
Ultra slim high-tech concept, that fits any hose diameter.  
Provides high accuracy and clog-free performance with the  
Cu compound and AS technology



# Cu Cyclone PC™

## Copper Oxide Infused Flat PC Emitter

**Ultra slim high-tech concept, that fits any hose diameter. Provides high irrigation accuracy and consistent clog-free performance with the combination of copper oxide compound and anti-siphon technology**



### Copper Oxide Compound

Our Cu Emitter Line™, provides a solid defense against root intrusion in SDI installations. The copper oxide compound which our emitters contain, act as a barrier to roots and invasive underground rhizomes of the plants. Moreover, the Cu compound that we use inhibits the growth of algae, bacteria, and fungi development, reducing the risk of clogging in the emitters and dripline. The Cu Emitter Line™ products use the same injection moulding process as the non Cu emitters, since the PE compound contains the active copper oxide ingredients.

### Pressure Compensating (PC)

PC emitters incorporate a silicon membrane which enables the delivery of precise and equal amounts of water over a broad pressure range. Cu Cyclone PC™ emitters are designed for any kind of SDI application.

### Anti-Siphon (AS) and Non-Drain (ND)

The Anti-Siphon (AS) system is a specially designed mechanism that prevents suction of dirt and impurities into the emitter. The AS feature enables Cu Cyclone PC™ to be installed underground (SDI), perfectly maintaining its irrigation characteristics and its multi-year durability.

With the Non-Drain system the dripline remains full of water during irrigation intervals,

ensuring immediate and uniform irrigation along the dripline.

ND emitters eliminate drainage of the dripline, which is very important in SDI. In order to achieve the Non-Drain function, the emitter closes when the pressure is below 0,1 bar.

### Emitter Characteristics

Cu compound infused emitter that prevents root intrusion and inhibits the growth of algae, bacteria, and fungi development.

Wide range of flow rates from 1,0 to 3,8 l/h.

Designed for a wide range of wall thicknesses starting from 12 mil up to 47 mil (0,3 mm - 1,2 mm).

Suitable for driplines with internal diameter (ID) from 13,5 mm and on.

State of the art flat PC, AS, ND emitter technology.

Continuous self cleaning mechanism ensures non-clogging uninterrupted operation.

Excellent emission uniformity.

Excellent flow coefficient.

Low friction losses due to the ultra slim design of the emitter.

Injected molded emitters with excellent Coefficient of Variation (CV), less than 5%.

### SDI Applications

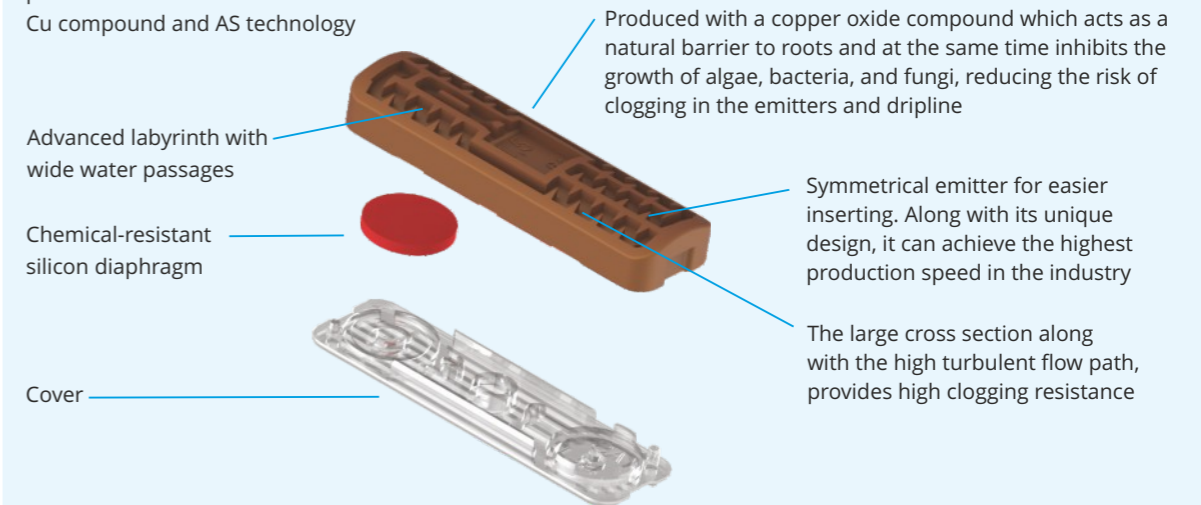
Suitable for all kind of SDI applications, from 5 to more than 15 years, depending on the dripline thickness.

### Cu Cyclone PC™ Design Characteristics

#### Cu Compound and AS technology

Ultra slim high-tech concept, that fits any hose diameter. Provides high accuracy and clog-free performance with the combination of Cu compound and AS technology

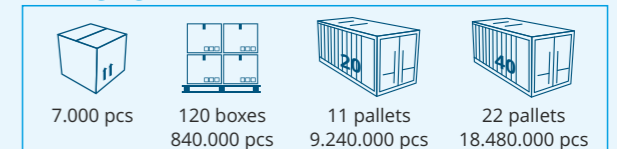
Cu Cyclone PC™ emitters have been tested by independent institutes worldwide and achieved the highest ranking for CV, emission uniformity, flow accuracy and clogging resistance



#### Actual Size



#### Packaging

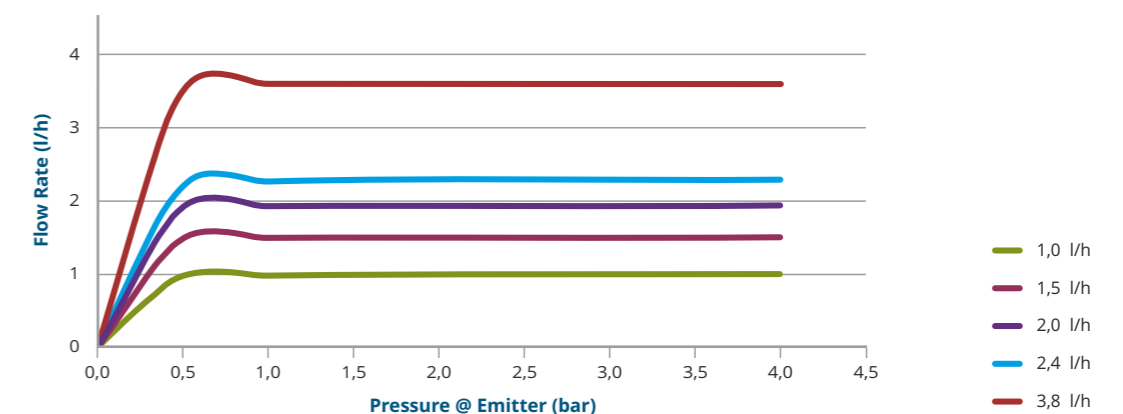


### Cu Cyclone PC™ Emitter Specifications

Nominal Flow Rate (l/h)	Constant k (bar)	Exponent (x)	Water Passage Width x Depth x Length (mm)	Filtration Area (mm <sup>2</sup> )	Recommended Filtration (mesh/micron)
1,0	1,0	0,0	0,82 x 0,76 x 139	37,37	150/100
1,5	1,5	0,0	1,06 x 0,85 x 132	37,37	150/100
2,0	1,9	0,0	1,08 x 0,88 x 93,5	37,37	120/130
2,4	2,3	0,0	1,19 x 0,90 x 89,6	37,37	120/130
3,8	3,6	0,0	1,30 x 0,90 x 78,7	37,37	120/130

Pressure range: 0,7 - 4,0 bar

### Cu Cyclone PC™ Emitter Flow Curves







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