



Advanced
Automation
Systems



Cu Turbo Compact™

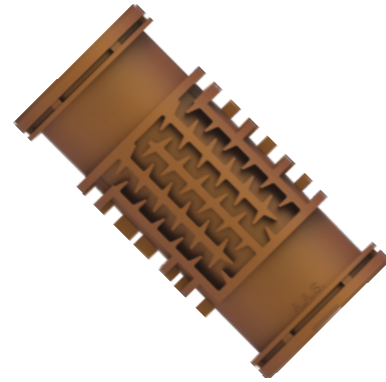
Copper Oxide Infused
Cylindrical Turbulent Emitter

Compact and extremely durable emitter, developed for a wide range of deep buried multi seasonal subsurface applications

Cu Turbo Compact™

Copper Oxide Infused Cylindrical Turbulent Emitter

Compact and extremely durable emitter. Developed for a wide range of deep buried, multi seasonal subsurface applications, for more than 15 years, depending on dripline thickness.



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.

Emitter Flow Path

One of the most important elements in the design of an emitter is the flow path. Its width, depth and length determine the flow rate of the emitter in liters per hour but most importantly determines their anti-clogging ability. A highly turbulent flow design creates multiple vortexes inside the flow path and therefore prevents clogging.

Emitter Characteristics

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

Available in two flow rates 2,0 and 4,0 l/h. Suitable for driplines with 16 mm diameter. The recommended wall thickness is 0,65 to 1,20 mm (25 - 47 mil)

Manufactured from the finest raw materials that provide durability and long-lasting performance.

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

Specially designed labyrinth creates high turbulent flow, therefore preventing clogging of the emitter.

Very high resistance to agrochemicals and hard field conditions.

Advanced water inlet design, increases filtering area and prevents particle insertion in the emitter, thus enhancing the anti-clogging performance.

Excellent for effluent water reuse.

SDI Applications

Suitable for deep buried multi seasonal SDI installations, for more than 15 years, depending on dripline thickness.

Cu Turbo Compact™ Design Characteristics

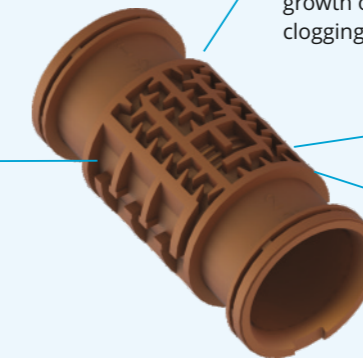
Compact and Durable Emitter

Compact and extremely durable emitter. Developed for a wide range of deep buried multi seasonal subsurface applications for more than 15 years

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

Produced with a copper oxide compound which acts as a natural barrier to roots and at the same time inhibits the growth of algae, bacteria, and fungi, reducing the risk of clogging in the emitters and dripline

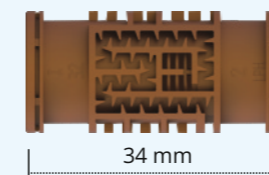
Symmetrical emitter for easier inserting and drilling. Along with its unique design, it can achieve the highest production speed in the industry



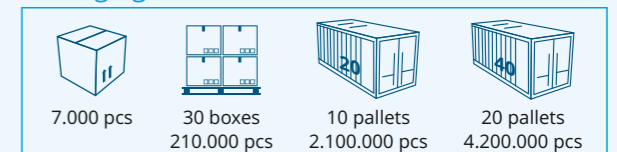
Advanced water inlet design with industry leading filtration area

The large cross section along with the high turbulent flow path, provides high clogging resistance

Actual Size



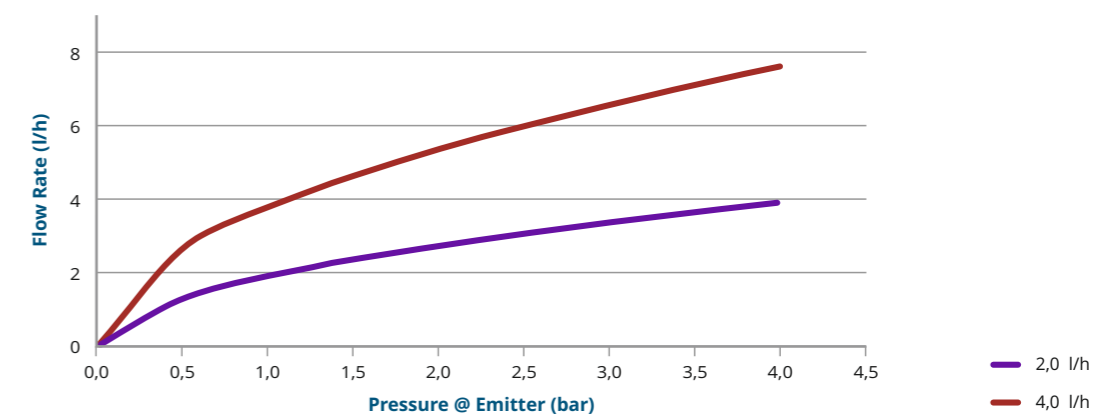
Packaging



Cu Turbo Compact™ Emitter Specifications

Nominal Flow Rate (l/h @ 1bar)	Constant k (bar)	Exponent (x)	Water Passage Width x Depth x Length (mm)	Filtration Area (mm ²)	Recommended Filtration (mesh/micron)
2,0	1,98	0,49	0,95 x 1,00 x 197	20,80	120/130
4,0	3,97	0,49	1,03 x 1,35 x 143	53,00	120/130

Cu Turbo Compact™ Emitter Flow Curves





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