# VORTEX FOGGER

## Nebulisers

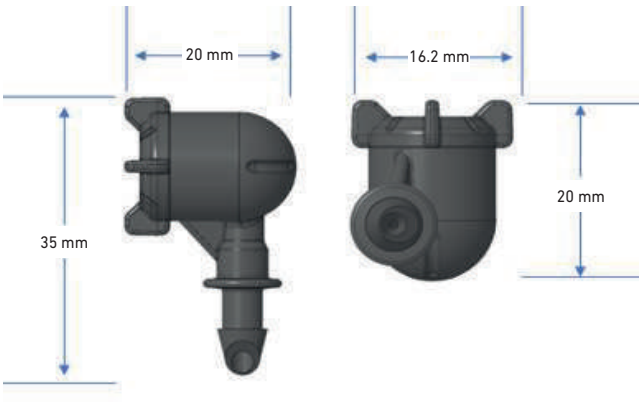
The Vortex nebuliser is suitable wherever a very fine, low pressure and low flow rate nebulisation is required. Nebulisers are traditionally used for cooling the air and foliage and for irrigating plants during the germination phase. Furthermore, in agriculture, nebulisation is used as an effective vehicle for pesticide, fungicide and disinfectant treatments, on both tree and herbaceous crops. This system applies in particular to vineyards, orchards and olive tree groves, as well as in nurseries, greenhouses and vegetable crops, even in the case of organic farming. The high uniformity of coverage offered by nebulisation makes it possible to improve the distribution of plant-protection products, reducing the use and dispersion of the active ingredient, with considerable economic and environmental benefits

## FEATURES

- Simple two-part design (body + nozzle)
- It produces a fine spray (mist) at a low operating pressure (170 kPa/1.7 bar)
- Used both where there are no pressure pumps and with existing systems designed for drip irrigation that traditionally operate at low pressure (100-250 kPa /1.0-2.5 bar)
- The body is offered in two colours:
  - Grey: offers the ability to divert heat and keep the temperature of the water mist low
  - Black: allows to significantly reduce the visual impact
- The Vortex Fogger produces a finer mist as the operating pressure increases. The flow rate of each nozzle also increases as the operating pressure increases.

## SPECIFICATIONS

- Flow rates (@ 170 kPa / 1.7 bar):
  - 8 l/h Green nozzle (0.43 mm)
  - 12 l/h Black nozzle (0.76 mm)
  - 16 l/h Red nozzle (1.07 mm)
- Min. Pressure: 100 kPa / 1.0 bar
- Max: Pressure: 500 kPa / 5.0 bar
- Nominal pressure: 170 kPa / 1.7 bar
- Recommended filtration:
  - 8 l/h - 120 mesh/125 micron
  - 12 l/h and 16 l/h - 80 mesh/200 micron
- Horizontal coverage (@ 100-500 kPa / 1.0-5.0 bar)
  - Green nozzle: 1.9 m -2.7 m
  - Black nozzle: 2.6 m - 2.9 m
  - Red nozzle: 2.45 m - 3.1 m
- Vertical coverage @ 2.0m from the ground (@ 100-500 kPa / 1.0-5.0 bar)
  - Green nozzle: 0.5 m - 1.0 m
  - Black nozzle: 0.5m - 1.2m
  - Red nozzle: 0.5m - 1.3m




8 l/h


12 l/h


16 l/h

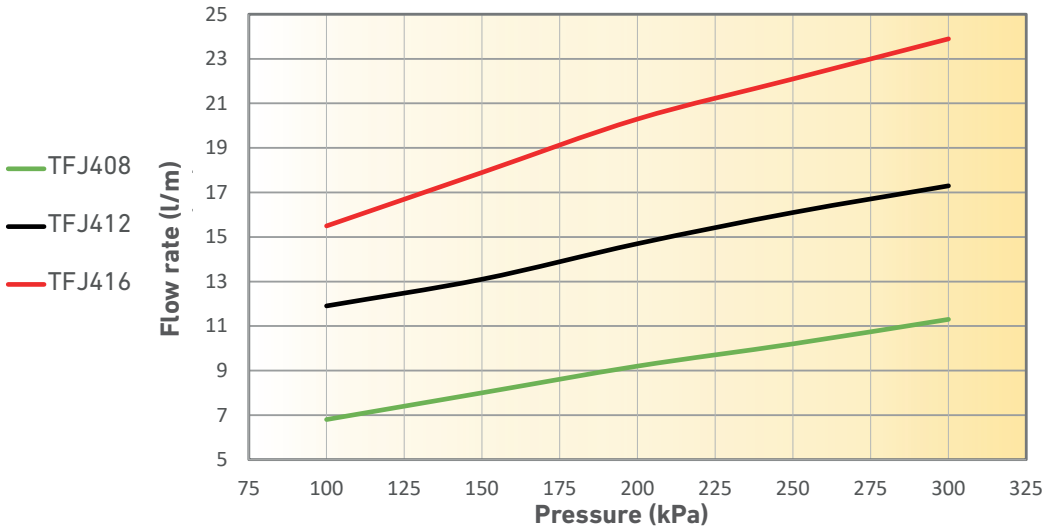
# INSTALLATION

- Insert it directly into the PE hose by drilling a 3.0mm hole or insert it into a PE microtube with an internal diameter of 4.0mm.
  - Inlet: 4.0mm barbed connection
  - Microtube: 4.0 mm ID.
  - Recommended drilling: 3.0 mm
- The nebulisers can be operated in any direction (orientation).
- For cooling, install the nebuliser with a horizontal spray.
- For propagation, install at a height of 1.2-2.0 m and direct it downwards.

## Technical Data - Pressure and Flow

| Pressure (kPa) | TFJ408 (l/h) | TFJ412 (l/h) | TFJ416 (l/h) |
|---|---|---|---|
| **100** | 6.8 | 11.9 | 15.5 |
| **150** | 8.0 | 13.1 | 17.9 |
| **200** | 9.2 | 14.7 | 20.3 |
| **250** | 10.2 | 16.1 | 22.1 |
| **300** | 11.3 | 17.3 | 23.9 |
| **350** | 12.1 | 18.5 | 25.5 |
| **400** | 12.9 | 19.6 | 27.0 |
| **450** | 13.4 | 20.3 | 28.1 |
| **500** | 14.0 | 21.2 | 29.4 |
| **Filtration** | **125 Micron** | **200 Micron** | |

## PRESSURE - FLOW RATE




## Codification

| Model | Description |
|---|---|
| TFJ408 | 4.0 mm barbed VORTEX FOGGER nebuliser, flow rate 8 l/h, Green nozzle, Black body |
| TFJ408-G | 4.0 mm barbed VORTEX FOGGER nebuliser, flow rate 8 l/h, Green nozzle, Grey body |
| TFJ412 | 4.0 mm barbed VORTEX FOGGER nebuliser, flow rate 12 l/h, Black nozzle, Black body |
| TFJ412-G | 4.0 mm barbed VORTEX FOGGER nebuliser, flow rate 12 l/h, Black nozzle, Grey body |
| TFJ416 | 4.0 mm barbed VORTEX FOGGER nebuliser, flow rate 16 l/h, Red nozzle, Black body |
| TFJ416-G | 4.0 mm barbed VORTEX FOGGER nebuliser, flow rate 16 l/h, Red nozzle, Grey body |