

# PCJ™ HF on line bubbler

On line compact pressure-compensated high flow emitter, for permanent irrigation such as landscape, trees, fruit trees with large treetops.



Pressure-compensated



Anti-drain mechanism (optional)



Self-flushing mechanism

## / Benefits & Features

- |                               |  |
|-------------------------------|--|
| → Pressure-compensated        | Precise and equal amounts of water delivered over a broad pressure range, ensuring 100% uniformity of water and nutrient distribution along the laterals.  |
| → Anti-drain mechanism (LCNL) | Eliminates drainage and refill effect, and improves efficiency in pulse irrigation even in steep topography (optional).  |
| → Continuously self-flushing  | Flushes debris throughout operation, while ensuring constant emitter operation even in challenging water qualities.  |
| → Flexible location           | Emitters can be positioned exactly where required. Number of emitters can be increased to increase the water quantities applied.<br>Allows the installation of "spider assembly", splitting the drip supply to a number of drip outlets. |

## / Specifications

- Pressure-compensated range according to tables below.
- Recommended filtration: 130 micron / 120 mesh. Filtration method selected based on the kind and concentration of dirt particles contained in the water. Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone should be installed before the main filter. Where sand/silt/clay solids exceed 100 ppm, pre treatment it should be applied following Netafim™ expert instructions.
- Internal very large water passages.
- Insertable into thick wall blank PE pipes (0.90, 1.00, 1.20 mm).
- Injected bubbler, very low CV with injected silicon diaphragm.
- High UV resistant. Resistant to standard nutrients used in agriculture.
- 4 different outlets: nipple, nipple with assembled cap, barb to 3 mm ID, barb to 4 mm ID micro-tube.

## → Bubbler technical data

### PCJ™ HF bubblers

Flow rate* (l/h)	Working pressure range (bar)	Water passages dimensions (mm)	Filtration area (mm <sup>2</sup> )	Constant K	Exponent* X	Base code color	Cap color code
20	1.0 – 4.0	1.4 x 1.1	2.0	20	0	Orange	Black
25	1.0 – 4.0	1.4 x 1.1 + 0.4 x 2.1	2.0	25	0	Orange	Light grey
30	1.0 – 4.0	1.4 x 1.1 + 0.7 x 2.1	2.0	30	0	Orange	Brown
35	1.0 – 4.0	1.4 x 1.1 + 1.0 x 2.1	2.0	35	0	Orange	Light blue
40	1.3 - 4.0	1.4 x 1.1 + 1.0 x 2.6	2.0	40	0	Orange	Blue

\*Within working pressure range

## → Bubbler technical data

### PCJ™ HF LCNL bubblers

Flow rate* (l/h)	Working pressure range (bar)	Water passages dimensions (mm)	Filtration area (mm <sup>2</sup> )	Constant K	Exponent* X	Shut off pressure (bar)	Base code color **	Cap color code
20	1.0 – 4.0	1.4 x 1.1	2.0	20	0	0.12	Orange	Black
25	1.0 – 4.0	1.4 x 1.1 + 0.4 x 2.1	2.0	25	0	0.12	Orange	Light grey
30	1.0 – 4.0	1.4 x 1.1 + 0.7 x 2.1	2.0	30	0	0.12	Orange	Brown
35	1.0 – 4.0	1.4 x 1.1 + 1.0 x 2.1	2.0	35	0	0.12	Orange	Light blue
40	1.3 - 4.0	1.4 x 1.1 + 1.0 x 2.6	2.0	40	0	0.12	Orange	Blue

\*Within working pressure range

\*\*LCNL bubblers is distinguished by the rings around the barb water inlet connector

## → Kd (minor loss), insertion barb within distribution pipe

Pipe definition	Inside diameter (mm)	Kd
12/4	9.80	1.65
16/4	13.20	0.39
20/4	17.00	0.13
25/4	21.20	0.10
12010	10.60	1.61
16010 - 16012	14.20	0.37
20010 - 20012	17.50	0.12

## → Bubblers package data

Model	Quantity p/box (units)	Box dimensions (cm x cm x cm)	Box weight (kg)	Boxes per pallet (units)	Pallet size (cm x cm x cm)	Pallet weight (kg)
PCJ™ HF bubblers	9500	57 x 28 x 27	14.0	32	114 x 114 x 112	448