

PCJ - HCNL Drippers

On-line compact pressure compensated dripper with high anti-drain feature

Applications:

Greenhouses, nurseries, citrus, orchards, deciduous and trees irrigation.

Specifications:

- Working pressure : 1.5 to 4.0 bar
- TurboNet™ labyrinth with large water passages.
- 4 different flow rates
- 3 different outlets: nipple, barb to 3 mm ID and barb to 4 mm ID
- To be "inserted» into thick- walled pipes (1.0 and 1.2 mm.)
- Injected dripper, very low CV.
- Injected silicon diaphragm
- Resistant plastic material with UV protection

Features and Benefits:

- PC system, patented pressure differential system maintains uniform flow rate at different inlet working pressure (within the recommended working pressure range), ensuring exact distribution of the water and fertilizers.
- Self-flushing system, improves resistance to clogging.
- Large , wide and deep flow path cross-section to minimize clogging
- High Anti-drain (HCNL) system eliminates drainage and refill effect, thus improving efficiency in pulse irrigation.
- Dripper can be positioned exactly where required.
- Number of drippers can be increased so as to increase water quantity supply aimed at meeting tree growth rate requirement.
- Allows the installation of "spider assembly", splitting the drip supply to a number of drip outlets



Flow rate (l/h.)	Working pressure range (bar)	Water passages dimensions			Filtration area (mm²)	Constant K	Exponent* x	Shut-off pressure (bar)	Base code color	Cap color code
		Width (mm.)	Depth (mm.)	Length (mm.)						
1.2	1.5 - 4.0	0.67	0.77	35.0	2.0	1.2	0	0.18	light brown	black
2.0	1.5 - 4.0	1.03	0.75	35.0	2.3	2.0	0	0.18	pink	black
3.0	1.5 - 4.0	1.03	1.08	35.0	2.3	3.0	0	0.18	light blue	black
4.0	1.5 - 4.0	1.32	0.95	35.0	2.3	4.0	0	0.18	light gray	black

* within the working pressure range

When inserting drippers in 1.0 mm. walled PE tubes , maximum recommended working pressure is 3.5 bar
When inserting drippers in 1.2 mm. walled PE tubes , maximum recommended working pressure is 4.0 bar

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Performance Data

PCJ-HCNL dripper - PE pipe 16/2.5 - I.D. 13.60 mm. - Inlet pressure 3.0 bar - Kd 0.39

Maximum lateral length (meter)

Flow rate (l/h.)	Spacing between drippers (m.)						
	0.25	0.50	0.75	1.00	1.50	3.00	5.00
1.2	142	242	323	396	522	831	1160
2.0	102	174	233	286	377	600	840
3.0	78	134	180	220	291	462	650
4.0	65	111	149	183	243	387	540

PCJ-HCNL dripper - PE pipe 20/2.5 - I.D. 17.40 mm. - Inlet pressure 3.0 bar - Kd 0.13

Maximum lateral length (meter)

Flow rate (l/h.)	Spacing between drippers (m.)						
	0.25	0.50	0.75	1.00	1.50	3.00	5.00
1.2	238	390	515	623	815	1281	1780
2.0	171	281	371	450	588	924	1285
3.0	132	217	287	347	455	714	995
4.0	110	180	239	289	378	594	830




PCJ-HCNL dripper - PE pipe 25/2.5 - I.D. 22.20 mm. - Inlet pressure 3.0 bar - Kd 0.10

Maximum lateral length (meter)

Flow rate (l/h.)	Spacing between drippers (m.)						
	0.25	0.50	0.75	1.00	1.50	3.00	5.00
1.2	362	593	782	948	1239	1947	2705
2.0	260	427	564	684	894	1407	1955
3.0	200	329	435	528	690	1086	1510
4.0	166	274	362	439	575	903	1260

*Minimum pressure considered : 1.5 bar . All the lengths are calculated in a plain area
For more information , please contact Netafim™ Technical Department , or connect to our website at www.netafim.com

Packaging Data

Dripper picture	Dripper model	Flow rate (l/h.)	Catalog number	Quantity/box (units)	Box dimensions (cm.x cm.x cm.)	Box weight (kg.)
	PCJ-HCNL dripper with 3 mm barb outlet	1.2	21520-004100	13000	56 x 28 x 27	14.3
		2.0	21520-004400			
		3.0	21520-004700			
		4.0	21520-005000			
	PCJ-HCNL dripper with 4 mm barb outlet	1.2	21520-004220	13000	56 x 28 x 27	14.3
		2.0	21520-004500			
		3.0	21520-004800			
		4.0	21520-005100			
	PCJ-HCNL dripper with nipple outlet	1.2	21520-004000	13000	56 x 28 x 27	14.3
		2.0	21520-004300			
		3.0	21520-004600			
		4.0	21520-004900			

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