

PCJ - LCNL Drippers

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

Applications:

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

Specifications:

- Working pressure : 0.7 to 4.0 bar
- TurboNet™ labyrinth with large water passages.
- 6 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
- Anti-drain (LCNL) 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 (mm ²)	Constant K	Exponent* x	Shut-off pressure (bar)	Base code color	Cap color code
		Width (mm.)	Depth (mm.)	Length (mm.)						
1.2	0.7 - 4.0	0.67	0.77	35.0	2.0	1.2	0	0.12	brown	black
2.0	0.7 - 4.0	1.03	0.75	35.0	2.3	2.0	0	0.12	red	black
3.0	0.7 - 4.0	1.03	1.08	35.0	2.3	3.0	0	0.12	blue	black
4.0	0.7 - 4.0	1.32	0.95	35.0	2.3	4.0	0	0.12	gray	black
8.0	0.7 - 4.0	1.60	1.05	35.0	2.3	8.0	0	0.12	green	black
12.0	0.7 - 4.0	1.60	1.05	17.5	2.3	12.0	0	0.12	fuchsia	black

* within the working pressure range

PCJ-LCNL dripper is distinguished by the rings around the bottom of the dripper
 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-LCNL dripper - PE pipe 16/2.5 - I.D. 13.60 mm. - Inlet pressure 2.5 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	148	252	338	413	545	864	1205
2.0	106	181	243	298	393	624	870
3.0	82	140	188	229	303	480	670
4.0	68	116	155	191	252	402	560
8.0	43	74	100	122	162	258	360
12.0	33	58	77	95	126	201	280

PCJ-LCNL dripper - PE pipe 20/2.5 - I.D. 17.40 mm. - Inlet pressure 2.5 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	249	407	537	651	851	1335	1855
2.0	179	294	387	470	614	963	1340
3.0	138	226	299	362	474	744	1035
4.0	114	188	248	301	395	618	860
8.0	73	121	159	193	254	399	555
12.0	57	94	124	150	197	309	430

PCJ-LCNL dripper - PE pipe 25/2.5 - I.D. 22.20 mm. - Inlet pressure 2.5 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	378	619	817	991	1295	2034	2825
2.0	304	473	611	735	951	1479	2050
3.0	235	365	473	567	735	1143	1585
4.0	195	304	393	472	612	951	1320
8.0	126	195	253	304	393	612	845
12.0	86	142	188	228	299	471	655

*Minimum pressure considered : 0.8 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-LCNL dripper with 3 mm.barb outlet	1.2	21520-000900	13000	57 x 28 x 27	14.3
		2.0	21520-001000			
		3.0	21520-001200			
		4.0	21520-001400			
		8.0	21520-001600			
	PCJ-LCNL dripper with 4 mm.barb outlet	1.2	21520-002900	13000	57 x 28 x 27	14.3
		2.0	21520-003000			
		3.0	21520-003200			
		4.0	21520-003400			
		8.0	21520-003600			
	PCJ-LCNL dripper with nipple outlet	1.2	21520-001060	13000	57 x 28 x 27	14.3
		2.0	21520-001100			
		3.0	21520-001300			
		4.0	21520-001500			
		8.0	21520-001700			
		12.0	21520-001770			

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