



DRIPNET PC™ AS

COMPACT INTEGRAL PRESSURE-COMPENSATING, CONTINUOUSLY SELF-CLEANING, ANTI-SIPHON MECHANISM DRIPPER. HEAVY WALL DRIPPERLINE.

16009 - 20009 - 23009 - 27010

APPLICATIONS

- Sub-surface multi seasonal row crops

SPECIFICATIONS

- Pressure-compensating range: 0.4-2.5/3.0 bar (according to dripper flow rate)
- Dripper spacing: 0.15 to 4.0 (5cm increments)
- Anti-siphon mechanism
- Recommended filtration: 120 mesh
- TurboNet™ labyrinth with large water passage
- To be “welded” into heavy walled dripperlines (0.9, 1.0 and 1.2mm)
- Injected dripper, very low CV
- Injected silicon diaphragm
- Resistant to standard nutrients used in agriculture
- DripNet PC™ AS drippers meet ISO 9261 Standards with production certified by the Israel Standards Institute (SII)

FEATURES AND BENEFITS

- Pressure compensated: Precise and equal amounts of water are delivered over a broad pressure range. High uniformity of water and nutrient distribution along the laterals.
- Anti-siphon mechanism: Prevents contaminants from being drawn into the dripper.
- Continuous self flushing throughout operation ensuring uninterrupted dripper operation.
- Self-flushing system with wide filtration area improves resistance to clogging.
- TurboNet™ labyrinth assures wide water passages, large deep and wide cross section improves clogging resistance. Widest water passages within the dripper.
- The water is drawn into the dripper from the stream center, reducing the entrance of sediments.

DRIPPERS TECHNICAL DATA

FLOW RATE (L/H.)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGE DIMENSIONS WIDTH-DEPTH-LENGTH (MM.)	FILTRATION AREA (MM ²)	CONSTANT K	EXPONENT* X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.6	0.4 - 2.5	0.52 x 0.60 x 22	39	0.6	0	130/120
1.0	0.4 - 2.5	0.61 x 0.60 x 8	39	1.0	0	130/120
1.6	0.4 - 2.5	0.76 x 0.73 x 8	39	1.6	0	130/120
2.0	0.4 - 3.0	0.76 x 0.85 x 8	39	2.0	0	130/120
3.0	0.4 - 3.0	1.02 x 0.88 x 8	39	3.0	0	130/120
3.8	0.4 - 3.0	1.02 x 0.88 x 8	39	3.8	0	130/120

*Within working pressure range

DRIPPERLINE TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAX. FLUSHING PRESSURE (BAR)	KD	COIL LENGTH (M)
16009	14.2	0.9	16.0	2.5 - 3.0	3.9	0.72	500
20009	17.5	0.9	19.3	2.5 - 3.0	3.9	0.25	500
23009	20.8	1.0	22.8	2.5 - 3.0	3.9	0.20	350 - 400
27010	25.00	1.0	27.0	2.5 - 3.0	3.9	0.4	300

*Maximum working pressure is defined by the dripper and not by the dripperline wall thickness

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DRIPNET PC™ AS 16009 - MAX. LATERAL LENGTH (METRE) AT DIFFERENT INLET PRESSURE

DRIPNET PC™ AS 16009 - I.D. 14.2MM - KD 0.72 - FLOW RATE 0.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	129	182	230	274	315	354	391	427	460
	1.5	159	224	284	339	390	438	485	528	571
	2.0	181	255	323	386	445	501	553	603	652
	2.5	198	281	355	425	490	551	609	664	718

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 16009 - I.D. 14.2MM - KD 0.72 - FLOW RATE 1.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	92	130	165	197	226	255	282	307	331
	1.5	114	161	204	243	280	315	349	381	411
	2.0	129	183	232	277	320	360	398	434	469
	2.5	142	201	255	305	352	396	438	478	517

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 16009 - I.D. 14.2MM - KD 0.72 - FLOW RATE 1.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	68	96	122	145	167	188	208	227	245
	1.5	84	118	150	180	207	232	258	281	304
	2.0	95	135	171	205	236	265	294	320	347
	2.5	104	148	188	225	259	292	323	353	382

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 16009 - I.D. 14.2MM - KD 0.72 - FLOW RATE 2.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	59	83	105	126	145	163	180	196	212
	1.5	72	102	130	155	179	202	223	243	263
	2.0	82	116	148	177	204	230	254	278	300
	2.5	90	128	162	195	224	253	280	306	331
	3.0	97	138	175	210	242	272	302	329	356

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 16009 - I.D. 14.2MM - KD 0.72 - FLOW RATE 3.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	45	64	81	97	112	125	138	151	164
	1.5	55	79	100	120	138	155	172	187	203
	2.0	63	89	114	136	157	177	196	214	231
	2.5	69	98	125	150	173	195	215	236	255
	3.0	74	106	134	161	186	210	232	254	275

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 16009 - I.D. 14.2MM - KD 0.72 - FLOW RATE 3.8 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	39	55	69	83	95	108	119	131	141
	1.5	47	67	86	103	118	133	147	161	174
	2.0	54	77	97	117	135	152	168	184	199
	2.5	59	84	107	128	148	167	185	203	219
	3.0	64	91	115	138	160	180	199	218	236

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 20009 - MAX. LATERAL LENGTH (METRE) AT DIFFERENT INLET PRESSURE

DRIPNET PC™ AS 20009 - I.D. 17.5MM - KD 0.25 - FLOW RATE 0.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	213	292	362	426	485	540	593	643	691
	1.5	264	362	449	528	602	671	736	798	859
	2.0	300	413	512	603	688	767	842	914	982
	2.5	330	454	564	665	757	845	928	1006	1082

DRIPNET PC™ AS 20009 - I.D. 17.5MM - KD 0.25 - FLOW RATE 1.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	153	210	260	307	349	389	427	464	498
	1.5	189	260	323	380	433	483	530	576	619
	2.0	215	296	368	434	495	552	606	658	708
	2.5	237	326	406	478	545	608	668	725	780

DRIPNET PC™ AS 20009 - I.D. 17.5MM - KD 0.25 - FLOW RATE 1.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	113	155	192	227	258	288	316	343	369
	1.5	139	192	238	281	320	357	393	426	458
	2.0	159	219	272	321	366	408	449	487	524
	2.5	174	241	299	353	403	450	494	536	577

DRIPNET PC™ AS 20009 - I.D. 17.5MM - KD 0.25 - FLOW RATE 2.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	98	134	166	196	224	250	274	297	320
	1.5	120	166	206	243	277	309	340	369	397
	2.0	137	189	236	278	317	354	389	422	454
	2.5	151	208	259	306	349	390	428	465	500
	3.0	163	224	280	330	377	421	462	502	540

DRIPNET PC™ AS 20009 - I.D. 17.5MM - KD 0.25 - FLOW RATE 3.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	75	103	128	151	172	193	211	230	247
	1.5	93	128	159	188	214	239	262	284	306
	2.0	105	146	181	214	244	273	300	326	350
	2.5	116	160	200	236	269	300	330	359	386
	3.0	125	173	215	254	290	324	356	387	417

DRIPNET PC™ AS 20009 - I.D. 17.5MM - KD 0.25 - FLOW RATE 3.8 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	64	89	110	130	148	165	182	197	212
	1.5	79	110	136	161	184	205	226	245	263
	2.0	90	125	156	184	210	235	258	280	301
	2.5	99	137	171	203	231	258	284	309	332
	3.0	107	148	185	218	249	279	306	333	358

DRIPNET PC™ AS 23009 - MAX. LATERAL LENGTH (METRE) AT DIFFERENT INLET PRESSURE

DRIPNET PC™ AS 23009 - I.D. 20.8MM - KD 0.2 - FLOW RATE 0.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	288	394	488	574	653	728	799	867	931
	1.5	356	488	605	712	811	904	993	1076	1157
	2.0	406	557	691	814	927	1034	1134	1231	1323
	2.5	446	613	761	896	1021	1139	1250	1357	1459

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 23009 - I.D. 20.8MM - KD 0.2 - FLOW RATE 1.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	207	283	351	414	471	525	576	625	671
	1.5	255	351	435	513	584	652	715	776	834
	2.0	291	400	497	586	668	745	818	887	954
	2.5	320	440	547	645	736	820	901	977	1051

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 23009 - I.D. 20.8MM - KD 0.2 - FLOW RATE 1.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	152	209	260	306	348	388	426	463	497
	1.5	188	259	322	379	432	482	529	574	617
	2.0	214	295	367	433	493	551	605	656	706
	2.5	236	325	404	477	544	607	666	724	778

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 23009 - I.D. 20.8MM - KD 0.2 - FLOW RATE 2.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	132	181	225	265	302	336	370	401	431
	1.5	163	224	278	328	374	417	458	498	535
	2.0	185	255	318	375	427	477	524	569	612
	2.5	204	281	350	413	471	526	578	627	674
	3.0	220	303	377	445	508	567	623	677	728

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 23009 - I.D. 20.8MM - KD 0.2 - FLOW RATE 3.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	101	139	173	204	232	259	285	309	332
	1.5	125	172	214	253	288	322	354	383	413
	2.0	142	197	244	289	329	368	404	438	472
	2.5	157	216	269	318	363	405	445	483	520
	3.0	169	233	290	343	391	437	480	522	561

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 23009 - I.D. 20.8MM - KD 0.2 - FLOW RATE 3.8 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	87	119	148	175	200	223	245	266	286
	1.5	107	148	184	217	248	277	304	329	355
	2.0	122	169	210	248	283	316	347	377	406
	2.5	134	185	231	273	311	348	382	416	447
	3.0	145	200	249	294	336	375	413	448	482

Minimum considered pressure: 0.4 bar

DRIPNET PC™ AS 27010 - MAX. LATERAL LENGTH (METRE) AT DIFFERENT INLET PRESSURE

DRIPNET PC™ AS 27010 - I.D. 25.0MM - KD 0.04 - FLOW RATE 0.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	450	595	722	838	944	1045	1140	1231	1319
	1.5	559	740	898	1042	1175	1301	1419	1533	1641
	2.0	640	846	1027	1192	1345	1488	1625	1754	1879
	2.5	705	933	1133	1315	1483	1642	1792	1936	2073

Minimum considered pressure: 0.4 bar Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800m lateral length

DRIPNET PC™ AS 27010 - I.D. 25.0MM - KD 0.04 - FLOW RATE 1.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	325	429	521	604	682	754	823	889	952
	1.5	403	533	648	752	848	938	1024	1106	1185
	2.0	461	610	741	860	970	1074	1172	1266	1356
	2.5	508	672	817	949	1070	1184	1294	1397	1496

Minimum considered pressure: 0.4 bar Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800m lateral length

DRIPNET PC™ AS 27010 - I.D. 25.0MM - KD 0.04 - FLOW RATE 1.6 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	240	317	386	448	505	559	610	659	705
	1.5	298	395	479	557	628	695	758	819	878
	2.0	341	451	548	637	719	795	869	938	1005
	2.5	375	497	605	702	793	877	958	1035	1108

Minimum considered pressure: 0.4 bar Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800m lateral length

DRIPNET PC™ AS 27010 - I.D. 25.0MM - KD 0.04 - FLOW RATE 2.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	208	275	334	388	438	484	529	572	612
	1.5	258	342	416	483	544	603	658	711	761
	2.0	295	391	475	552	623	690	753	814	871
	2.5	325	431	524	609	687	761	830	897	961

Minimum considered pressure: 0.4 bar Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800m lateral length

DRIPNET PC™ AS 27010 - I.D. 25.0MM - KD 0.04 - FLOW RATE 3.0 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	160	212	258	300	338	374	408	441	472
	1.5	199	264	320	373	420	466	508	549	588
	2.0	227	302	367	426	481	533	582	628	673
	2.5	251	332	404	470	530	587	642	693	742

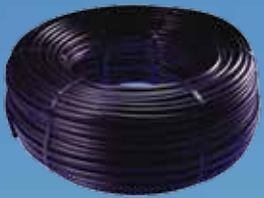
Minimum considered pressure: 0.4 bar Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800m lateral length

DRIPNET PC™ AS 27010 - I.D. 25.0MM - KD 0.04 - FLOW RATE 3.8 L/H

FLAT TERRAIN	PRESSURE (BAR)	DISTANCE BETWEEN DRIPPERS (METRE)								
		0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	1.0	138	182	222	258	290	322	351	379	406
	1.5	171	227	276	320	361	400	437	472	506
	2.0	195	259	315	366	413	458	500	540	579
	2.5	215	286	348	404	456	505	551	596	638

Minimum considered pressure: 0.4 bar Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800m lateral length

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