

Aqua-TraXX® PBX



Range

Thanks to the PBX technology, Aqua-TraXX® offers the widest most complete range of products on the market:

Diameter 16 mm (5/8")
- Wall thickness 5/6/7/8/10/12 and 15 mil

Diameter 22 mm (7/8")
- Wall thickness 7/8/10/12 and 15 mil

Emitter spacing
10/15/20/30/40/45/60 cm

9 different emitters
- 2,13 l/h @ 0,7 bar
- 1,41 l/h @ 0,7 bar
- 1,14 l/h @ 0,7 bar
- 0,87 l/h @ 0,7 bar
- 0,64 l/h @ 0,7 bar
- 0,57 l/h @ 0,7 bar
- 0,42 l/h @ 0,7 bar
- 0,38 l/h @ 0,7 bar
- 0,30 l/h @ 0,7 bar

Aqua-TraXX® PBX is an innovative drip tape guaranteeing precise uniform water and nutrient distribution to all plants.

The Aqua-TraXX® PBX flow path has been designed with a proportionally balanced cross-section (PBX) to optimise turbulence in the emitter to obtain:

Greater water speed;

High resistance to clogging;

Better flow path definition;

A wide range of products with low flow rates and very close emitters.

Aqua-TraXX® PBX drip tape offers the best performance on the market, with excellent emission uniformity and extraordinary quality.



Main features

Thanks to the innovative technology and high quality standards of the product, the characteristics of the Aqua-TraXX® PBX are unique on the market:

High mechanical resistance for quick easy installation (shorter laying times and therefore lower labour costs and less risk of damaging the product);

Extraordinary efficiency, allowing long lateral lines with very uniform water distribution and therefore high crop uniformity;

Durability and excellent reliability achieved through meticulous design and constant, precise control of the extrusion process;

High resistance to clogging thanks to the PBX technology;

Large outlet section produced using laser technology;

The large number of inlets per emitter ensures constant and uniform water distribution;

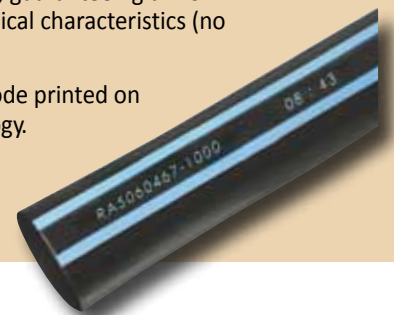
An inlet filter prevents sediment deposits from entering the emitter;

Excellent CV (Coefficient of Variation) thanks to the precision of the flow path which guarantees a completely turbulent flow;

Double blue stripes for easy identification;

Single extrusion process, guaranteeing uniform dimensions and mechanical characteristics (no welding, no seams);

Product identification code printed on tube with laser technology.



Applications

Aqua-TraXX® PBX is ideal for irrigating:

Extensive crops:

corn, sorghum, sugar beet, tobacco;

Horticultural crops:

- Solanaceae (tomatoes, potatoes, peppers, aubergines);
- Brassicaceae (cauliflower, broccoli, cabbage);
- Asteraceae (artichokes, lettuce, chicory);
- Cucurbitaceae (courgettes, melons, water melons, cucumbers, pumpkins);
- Liliaceae (asparagus, onions, garlic, leeks, shallots);
- Umbelliferae (fennel, parsley, celery);

Small fruit: strawberries, bilberries,

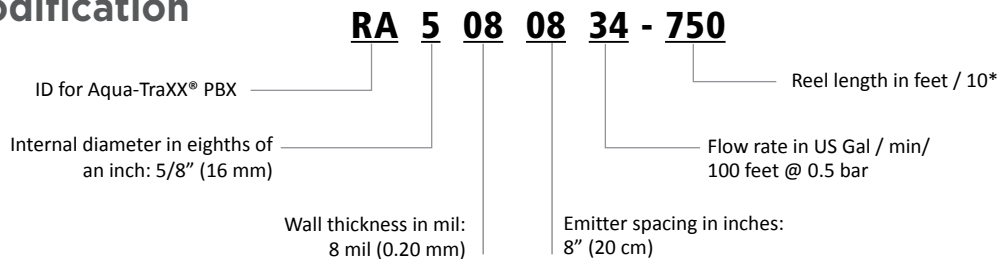
raspberries, blackberries, blackcurrants;

Medicinal plants.



Code	Emitter spacing (cm)	Individual emitter flow rate (l/h) @		Flow rate per meter (l/h/m) @		Required Filtration Mesh
		0,55 bar	0,7 bar	0,55 bar	0,7 bar	
Emitter (2,13 l/h)						
RAXxx04265-yyy	10	2,00	2,13	20,00	21,30	120-140
RAXxx08133-yyy	20	2,00	2,13	10,00	10,65	
Emitter (1,41 l/h)						
RAXxx04170-yyy	10	1,29	1,41	12,90	14,10	120-140
RAXxx06112-yyy	15	1,29	1,41	8,60	9,40	
RAXxx0884-yyy	20	1,29	1,41	6,45	7,05	
RAXxx1256-yyy	30	1,29	1,41	4,30	4,70	
RAXxx1642-yyy	40	1,29	1,41	3,23	3,53	
RAXxx2428-yyy	60	1,29	1,41	2,15	2,35	
Emitter (1,14 l/h)						
RAXxx04134-yyy	10	1,02	1,14	10,20	11,40	120-140
RAXxx0867-yyy	20	1,02	1,14	5,10	5,70	
RAXxx1245-yyy	30	1,02	1,14	3,40	3,80	
RAXxx1634-yyy	40	1,02	1,14	2,55	2,85	
RAXxx2422-yyy	60	1,02	1,14	1,70	1,90	
Emitter (0,87 l/h)						
RAXxx04100-yyy	10	0,76	0,87	7,60	8,70	140
RAXxx0667-yyy	15	0,76	0,87	5,07	5,80	
RAXxx0850-yyy	20	0,76	0,87	3,80	4,35	
RAXxx1234-yyy	30	0,76	0,87	2,53	2,90	
RAXxx1625-yyy	40	0,76	0,87	1,90	2,18	
RAXxx2417-yyy	60	0,76	0,87	1,27	1,45	
Emitter (0,64 l/h)						
RAXxx0650-yyy	15	0,57	0,64	3,80	4,27	140
RAXxx1225-yyy	30	0,57	0,64	1,90	2,13	
RAXxx1817-yyy	45	0,57	0,64	1,27	1,42	
Emitter (0,57 l/h)						
RAXxx0467-yyy	10	0,49	0,57	4,90	5,70	140
RAXxx0834-yyy	20	0,49	0,57	2,45	2,85	
RAXxx1222-yyy	30	0,49	0,57	1,63	1,90	
RAXxx1617-yyy	40	0,49	0,57	1,23	1,43	
RAXxx2411-yyy	60	0,49	0,57	0,82	0,95	
Emitter (0,42 l/h)						
RAXxx0825-yyy	20	0,38	0,42	1,90	2,10	200
RAXxx1613-yyy	40	0,38	0,42	0,95	1,05	
Emitter (0,38 l/h)						
RAXxx0822-yyy	20	0,34	0,38	1,70	1,90	200
RAXxx1611-yyy	40	0,34	0,38	0,85	0,95	
Emitter (0,30 l/h)						
RAXxx0817-yyy	20	0,27	0,30	1,35	1,50	200
RAXxx1608-yyy	40	0,27	0,30	0,68	0,75	

Codification



*apart from 5 mil, 7 mil and short reels for which length is expressed in metres/100.

The identification for Aqua-TraXX® PBX made in Romania is "PA"

TAPE AND DRIPLINE

Performance

The following tables indicate the maximum length of the lines in relation to inlet water pressure.

Note:

In determining the maximum length, the maximum inlet pressure as indicated in the “Technical Data” table must be respected.

Diameter 5/8” (16 mm) - Slope 0%

Code	Individual emitter flow rate @ 0,7 bar	Emitter spacing	Emission uniformity (EU)	Maximum Lateral Lengths in meters					
				@ 0,5 bar	@ 0,6 bar	@ 0,7 bar	@ 0,8 bar	@ 0,9 bar	@ 1,0 bar
RA5xx04265-yyy	2,13 l/h	10 cm	85%	54	62	66	66	67	67
			90%	51	52	52	53	53	
RA5xx08133-yyy	2,13 l/h	20 cm	85%	114	131	142	145	146	146
			90%	112	113	114	115	116	118
RA5xx04170-yyy	1,41 l/h	10 cm	85%	90	92	93	93	94	94
			90%	73	74	74	75	75	76
RA5xx06112-yyy	1,41 l/h	15 cm	85%	95	109	119	120	121	122
			90%	94	95	96	96	97	98
RA5xx0884-yyy	1,41 l/h	20 cm	85%	140	142	144	145	146	147
			90%	113	114	115	116	118	118
RA5xx1256-yyy	1,41 l/h	30 cm	85%	182	184	185	187	188	189
			90%	147	149	150	151	152	153
RA5xx04134-yyy	1,14 l/h	10 cm	85%	104	105	106	107	108	108
			90%	84	85	85	86	87	87
RA5xx0867-yyy	1,14 l/h	20 cm	85%	162	164	165	167	168	170
			90%	131	132	133	134	135	136
RA5xx1245-yyy	1,14 l/h	30 cm	85%	210	212	214	216	217	219
			90%	170	172	173	175	176	177
RA5xx1634-yyy	1,14 l/h	40 cm	85%	253	256	258	260	262	263
			90%	204	206	208	209	211	212
RA5xx04100-yyy	0,87 l/h	10 cm	85%	127	128	129	130	131	132
			90%	102	103	104	105	105	106
RA5xx0667-yyy	0,87 l/h	15 cm	85%	163	165	167	168	170	171
			90%	132	133	135	136	136	137
RA5xx0851-yyy	0,87 l/h	20 cm	85%	197	199	201	202	204	205
			90%	159	160	161	163	164	165
RA5xx1234-yyy	0,87 l/h	30 cm	85%	255	258	260	262	264	265
			90%	206	208	209	211	212	214
RA5xx1625-yyy	0,87 l/h	40 cm	85%	306	309	312	315	317	318
			90%	246	250	252	254	256	257
RA5xx0650-yyy	0,64 l/h	15 cm	85%	197	200	201	202	204	205
			90%	159	160	162	163	164	165
RA5xx1226-yyy	0,64 l/h	30 cm	85%	306	309	312	315	317	318
			90%	246	250	252	254	255	257
RA5xx0467-yyy	0,57 l/h	10 cm	85%	166	168	170	171	173	174
			90%	134	135	137	138	139	139
RA5xx0834-yyy	0,57 l/h	20 cm	85%	259	262	264	266	268	269
			90%	209	211	213	214	216	217
RA5xx1222-yyy	0,57 l/h	30 cm	85%	335	339	342	344	347	349
			90%	270	274	276	278	280	281
RA5xx1617-yyy	0,57 l/h	40 cm	85%	402	407	411	414	416	419
			90%	324	328	331	333	336	338
RA5xx0825-yyy	0,42 l/h	20 cm	85%	302	304	305	306	307	308
			90%	241	242	243	244	245	245
RA5xx1613-yyy	0,42 l/h	40 cm	85%	472	475	477	480	481	482
			90%	381	383	385	387	388	389
RA5xx0822-yyy	0,38 l/h	20 cm	85%	322	324	326	327	328	329
			90%	258	259	260	261	263	263
RA5xx1611-yyy	0,38 l/h	40 cm	85%	496	498	500	502	503	506
			90%	400	401	404	405	406	408
RA5xx0817-yyy	0,30 l/h	20 cm	85%	379	381	383	384	385	386
			90%	304	305	306	308	308	308
RA5xx1608-yyy	0,30 l/h	40 cm	85%	589	591	594	596	598	599
			90%	470	472	474	476	477	479

Irrloc software allows you to quickly design your irrigation system even on hilly or undulating terrains. Through Irrloc, you can also design the mainlines and you can display the emission uniformity on both the later lines and irrigation blocks. Free download: www.toro-ag.it.



Diameter 7/8" (22 mm) - Slope 0%

Code	Individual emitter flow rate @ 0,7 bar	Emitter spacing	Emission uniformity (EU)	Maximum Lateral Lengths in meters					
				@ 0,5 bar	@ 0,6 bar	@ 0,7 bar	@ 0,8 bar	@ 0,9 bar	@ 1,0 bar
RA7xx08133-yyy	2,13 l/h	20 cm	85%	174	175	176	177	179	181
			90%	140	141	142	143	144	145
RA7xx06112-yyy	1,41 l/h	15 cm	85%	194	224	245	246	249	251
			90%	192	194	197	198	200	201
RA7xx0867-yyy	1,14 l/h	20 cm	85%	288	291	294	296	298	301
			90%	233	235	237	239	240	242
RA7xx1245-yyy	1,14 l/h	30 cm	85%	373	378	381	384	387	389
			90%	302	305	307	309	311	313
RA7xx1634-yyy	1,14 l/h	40 cm	85%	448	453	456	460	464	466
			90%	361	365	368	370	373	375
RA7xx04100-yyy	0,87 l/h	10 cm	85%	225	227	229	231	233	234
			90%	181	183	185	186	187	188
RA7xx0667-yyy	0,87 l/h	15 cm	85%	291	294	296	300	301	303
			90%	234	237	239	241	243	244
RA7xx0851-yyy	0,87 l/h	20 cm	85%	349	354	357	359	362	364
			90%	282	285	287	289	291	293
RA7xx1234-yyy	0,87 l/h	30 cm	85%	452	457	461	465	468	470
			90%	365	368	372	375	378	381
RA7xx0467-yyy	0,57 l/h	10 cm	85%	295	298	302	304	306	308
			90%	238	241	243	245	246	249
RA7xx0834-yyy	0,57 l/h	20 cm	85%	460	464	468	472	475	478
			90%	370	374	379	382	383	387
RA7xx1222-yyy	0,57 l/h	30 cm	85%	595	601	606	610	615	608
			90%	478	486	490	494	497	500
RA7xx0825-yyy	0,42 l/h	20 cm	85%	528	531	534	536	538	539
			90%	426	428	431	433	434	435
RA7xx1613-yyy	0,42 l/h	40 cm	85%	822	827	831	833	836	838
			90%	664	667	670	672	674	676
RA7xx0822-yyy	0,38 l/h	20 cm	85%	566	569	571	573	574	576
			90%	457	459	461	462	463	465
RA7xx1611-yyy	0,38 l/h	40 cm	85%	876	885	889	891	894	896
			90%	706	713	717	719	721	723
RA7xx0817-yyy	0,30 l/h	20 cm	85%	664	668	671	673	674	677
			90%	536	539	541	543	544	546
RA7xx1608-yyy	0,30 l/h	40 cm	85%	1033	1038	1042	1046	1050	1052
			90%	833	837	840	843	847	849

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TAPE AND DRIPLINE

Technical and logistical data

Standard reels

Nominal diameter	Internal diameter	Wall thickness		Min pressure	Max pressure	Reel length	Reel weight	Reel gross weight*	Reel dimensions (Ø X h)
16 mm (5/8")	16,1 mm	5 mil	0,13 mm	0,3 bar	0,7 bar	4200 m	31,85 kg	32,80 kg	52,5 cm x 28 cm
		6 mil	0,15 mm	0,3 bar	0,8 bar	3048 m	27,21 kg	28,16 kg	52,5 cm x 28 cm
		7 mil	0,18 mm	0,3 bar	0,9 bar	2900 m	29,40 kg	30,35 kg	52,5 cm x 28 cm
		8 mil	0,20 mm	0,3 bar	1,0 bar	2286 m	26,33 kg	27,28 kg	52,5 cm x 28 cm
		10 mil	0,25 mm	0,3 bar	1,0 bar	1828 m	25,87 kg	26,82 kg	52,5 cm x 28 cm
		12 mil	0,30 mm	0,3 bar	1,0 bar	1554 m	26,07 kg	27,02 kg	52,5 cm x 28 cm
22 mm (7/8")	22,3 mm	15 mil	0,38 mm	0,3 bar	1,0 bar	1220 m	25,31 kg	26,26 kg	52,5 cm x 28 cm
		7 mil	0,18 mm	0,3 bar	0,7 bar	2100 m	28,45 kg	29,40 kg	52,5 cm x 28 cm
		8 mil	0,20 mm	0,3 bar	0,8 bar	1828 m	28,12 kg	29,07 kg	52,5 cm x 28 cm
		10 mil	0,25 mm	0,3 bar	1,0 bar	1341 m	25,56 kg	26,51 kg	52,5 cm x 28 cm
		12 mil	0,30 mm	0,3 bar	1,0 bar	1219 m	27,65 kg	28,60 kg	52,5 cm x 28 cm
15 mil	0,38 mm	0,3 bar	1,0 bar	914 m	25,58 kg	26,53 kg	52,5 cm x 28 cm		

*Gross weight includes packaging and pallet weight

	Container 20'	Container 40' HC	Truck 13,6 m
Quantity of reels	280	704	768

	Q.ty of reels	Dimensions (l x p x h)
Pallet	16	105x105x128 cm

Short reels

Nominal diameter	Internal diameter	Wall thickness		Min pressure	Max pressure	Reel length	Reel weight	Reel gross weight*	Reel dimensions (Ø X h)
16 mm (5/8")	16,1 mm	6 mil	0,15 mm	0,3 bar	0,8 bar	400 m	4,1 kg	4,3 kg	39,5 cm x 8,2 cm
		6 mil	0,15 mm	0,3 bar	0,8 bar	700 m	8,3 kg	8,6 kg	52,5 cm x 10 cm
		8 mil	0,20 mm	0,3 bar	1,0 bar	250 m	3,4 kg	3,6 kg	39,5 cm x 8,2 cm
		8 mil	0,20 mm	0,3 bar	1,0 bar	600 m	9,5 kg	9,8 kg	52,5 cm x 10 cm

*Gross weight includes packaging and pallet weight

Quantity of reels	Master pack	Pallet	Container 20'	Container 40' HC	Truck 13,6 m
250 m / 400 m	4	120	1.440	3.000	3.360
600 m / 700 m	3	48	840	2.112	2.304

	Dimensions (l x p x h)
Pallet	80x120x175 cm



Installation

- The double "blue" stripe must always face up during installation for warranty validity;
- Aqua-TraXX® can be installed underground, under black plastic film/mulch or on the surface;
- During installation avoid pulling, cutting, perforating or tearing it;
- If the soil is infested with insects which can damage the tube then some form of soil treatment must be considered;
- To avoid clogging, flush the main and secondary lines before connecting Aqua-TraXX®;
- When installing underground or under mulch, pressurize Aqua-TraXX® within 12 hours;
- Use only water-soluble fertilizers and flush the lines of residues before terminating irrigation;
- It is advisable to mount vacuum breaker valves on the sub mains to avoid the possibility of impurities being sucked back through the outlets of the Aqua-TraXX® during shutdown of the system;
- When using transparent mulch, Aqua-TraXX® must be laid underground. Drops of condensate on the bottom of the plastic may act as a magnifying glass, concentrating sunlight and possibly leading to holes.