

The TORO logo is a red square with the word "TORO" in white, bold, sans-serif capital letters.

AQUA-TRAXX[®] PREMIUM DRIP TAPE



AQUA-TRAXX[®]



AQUA-TRAXX[®] AZUL[™]



AQUA-TRAXX[®] FLOWCONTROL[™]

THE EVOLUTION OF PRECISION | Market demands, weather patterns and resource availability change every day, so precision agriculture practices must evolve to stay ahead. From increasing yield and improving quality to making the best use of available resources, irrigation technology is evolving too. Each step gives you more precise control over the time, energy and water you invest in your crop.

Toro Aqua-Traxx[®] Drip Tape is an innovative step in the evolution of drip irrigation. Aqua-Traxx[®], the original drip tape, can help you improve yield, water-use efficiency, and crop quality by putting water and fertiliser right where you need them. Aqua-Traxx[®] FlowControl[™] is the only flow-regulating drip tape available giving you increased uniformity and control wherever you grow. And the new Aqua-Traxx[®] Azul[™] drip tape offers an innovative emitter design that protects the labyrinth from debris and maximises clog resistance and performance.

AQUA-TRAXX®

THE ORIGINAL DRIP TAPE

Aqua-Traxx premium drip tape can help you increase yield, water-use efficiency and improve crop quality by putting water and fertiliser right where you need them. Choose emitter spacing from 10 cm to 90 cm (4" to 36") – with no cost increase – for precise placement and flexibility when designing your system. Find the perfect tape for your application with a wide variety of available flow rates, wall thicknesses and internal diameters, most requiring just 140-mesh (105 micron) filtration. Aqua-Traxx® increases durability, uniformity and reliability, setting it apart from ordinary drip tapes.



FEATURES

- Designed and moulded with the PBX Advantage for increased durability, clog resistance and uniform output.
- Available in three diameters and six wall thicknesses.
- Easily identifiable double blue stripe to aid in correct installation.
- Each coil laser etched with code and manufacture date for easy in-field identification.
- Precision laser incised outlet slit provides superior accuracy and consistency.

THE PBX ADVANTAGE

Aqua-Traxx premium drip tape is designed and moulded with a high level of precision, resulting in manufacturing consistency over 97 percent. With Toro, you get greater reliability and more uniform output compared to ordinary tapes: that's the PBX Advantage.



Precision-moulded emitters resist clogging and promote uniform output

Proportionally Balanced Cross-Section (PBX) increases flow turbulence and velocity

Engineering-grade virgin resins and seamless construction add durability

NEW

AQUA-TRAXX® AZUL™

SUPERIOR CLOG RESISTANCE | THROUGH INNOVATIVE EMITTER DESIGN

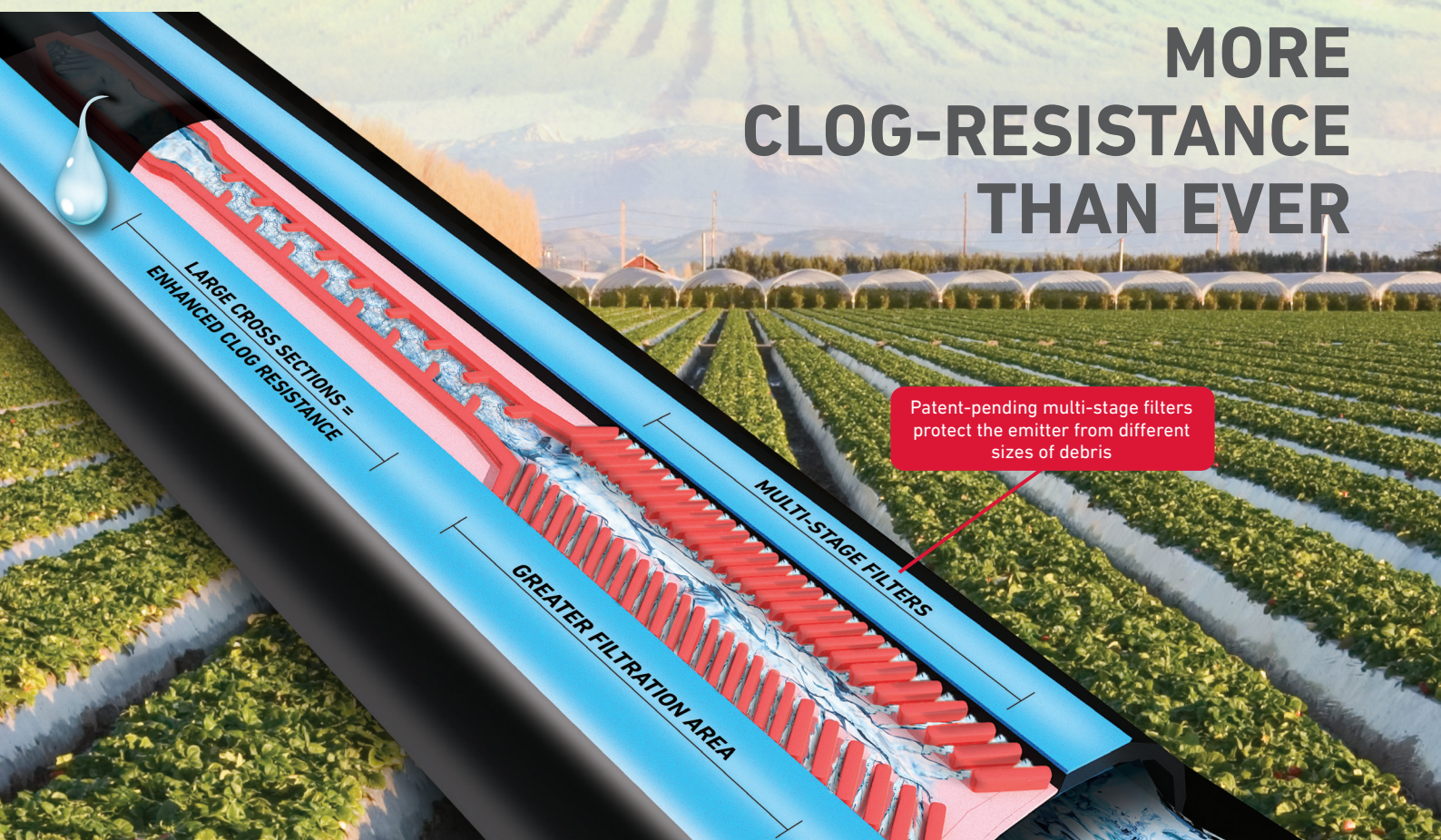
The new Toro Aqua-Traxx® Azul™ drip tape offers an innovative emitter design that protects the labyrinth from debris and maximises clog resistance and performance. Now you get the same great quality and performance you expect from Aqua-Traxx with even more clog resistance and less worry.



FEATURES

- Enhanced clog resistance with 120 mesh filtration requirement.
- Greater filtration area with patent-pending Multi-Stage Filters.
- Optimised flow passages further resist clogging.
- Available in 0.49 0.76 and 1.02 Lph emitter flow rates.
- The same superior quality and processes as the original Aqua-Traxx.

MORE CLOG-RESISTANCE THAN EVER



AQUA-TRAXX® AND AQUA-TRAXX® AZUL™ PRODUCT SPECIFICATIONS

AQUA-TRAXX® AND AQUA-TRAXX® AZUL™ FLOW RATES

Emitter Flow Part Number	Outlet Spacing		Emitter Flow Rate				Q-100				Emitter Exponent	Filtration Requirement
			gph		lph		gpm/100 ft		lph/1 meter			
	in	cm	@ 8 psi	@ 10 psi	@ 0.55 bar	@ 0.7 bar	@ 8 psi	@ 10 psi	@ 0.55 bar	@ 0.7 bar	<i>mesh</i> (micron)	
0.26 Lph (0.07 gph) emitter												
AAx0817	8	20	0.07	0.08	0.26	0.30	0.17	0.20	1.30	1.47	0.55	200 (80)
AAx1609	16	40	0.07	0.08	0.26	0.30	0.09	0.10	0.65	0.74		
0.34 Lph (0.09 gph) emitter												
AAx0822	8	20	0.09	0.10	0.34	0.38	0.22	0.25	1.66	1.88	0.55	200 (80)
AAx1611	16	40	0.09	0.10	0.34	0.38	0.11	0.13	0.83	0.94		
0.38 Lph (0.10 gph) emitter												
AAx0825	8	20	0.10	0.11	0.38	0.43	0.25	0.28	1.86	2.11	0.55	200 (80)
AAx1613	16	40	0.10	0.11	0.38	0.43	0.13	0.14	0.93	1.05		
0.49 Lph (0.13 gph) emitter												
AAx0467	4	10	0.13	0.15	0.51	0.57	0.67	0.75	4.99	5.58	0.5	120 (125)
AAx0644	6	15	0.13	0.15	0.51	0.57	0.44	0.50	3.33	3.72		
AAx0834	8	20	0.13	0.15	0.51	0.57	0.34	0.37	2.50	2.79		
AAx1222	12	30	0.13	0.15	0.51	0.57	0.22	0.25	1.66	1.86		
AAx1617	16	40	0.13	0.15	0.51	0.57	0.17	0.19	1.25	1.40		
AAx1814	18	45	0.13	0.15	0.51	0.57	0.14	0.17	1.11	1.24		
AAx2411	24	60	0.13	0.15	0.51	0.57	0.11	0.12	0.83	0.93		
0.76 Lph (0.20 gph) emitter												
AAx04100	4	10	0.20	0.22	0.76	0.85	1.00	1.12	7.47	8.36	0.5	120 (125)
AAx0667	6	15	0.20	0.22	0.76	0.85	0.67	0.75	4.99	5.58		
AAx0850	8	20	0.20	0.22	0.76	0.85	0.50	0.56	3.74	4.18		
AAx1234	12	30	0.20	0.22	0.76	0.85	0.34	0.37	2.50	2.79		
AAx1625	16	40	0.20	0.22	0.76	0.85	0.25	0.28	1.87	2.09		
AAx1822	18	45	0.20	0.22	0.76	0.85	0.22	0.25	1.67	1.86		
AAx2417	24	60	0.20	0.22	0.76	0.85	0.17	0.19	1.25	1.40		
1.02 Lph (0.27 gph) emitter												
AAx04134	4	10	0.27	0.30	1.01	1.13	1.34	1.50	9.99	11.16	0.5	120 (125)
AAx0690	6	15	0.27	0.30	1.01	1.13	0.90	1.00	6.66	7.44		
AAx0867	8	20	0.27	0.30	1.01	1.13	0.67	0.75	4.99	5.58		
AAx1245	12	30	0.27	0.30	1.01	1.13	0.45	0.50	3.33	3.72		
AAx1634	16	40	0.27	0.30	1.01	1.13	0.34	0.37	2.50	2.79		
AAx1830	18	45	0.27	0.30	1.01	1.13	0.30	0.33	2.22	2.48		
AAx2422	24	60	0.27	0.30	1.01	1.13	0.22	0.25	1.67	1.86		
0.57 Lph (0.15 gph) emitter												
AAx0650	6	15	0.15	0.17	0.57	0.63	0.50	0.56	3.73	4.17	0.5	140 (105)
AAx1225	12	30	0.15	0.17	0.57	0.63	0.25	0.28	1.86	2.08		
AAx1817	18	45	0.15	0.17	0.57	0.63	0.17	0.19	1.24	1.39		
1.27 Lph (0.34 gph) emitter												
AAx04168	4	10	0.34	0.37	1.27	1.42	1.68	1.87	12.48	13.95	0.5	120 (125)
AAx06112	6	15	0.34	0.37	1.27	1.42	1.12	1.25	8.33	9.31		
AAx0884	8	20	0.34	0.37	1.27	1.42	0.84	0.94	6.24	6.98		
AAx1256	12	30	0.34	0.37	1.27	1.42	0.56	0.62	4.16	4.65		
AAx1642	16	40	0.34	0.37	1.27	1.42	0.42	0.47	3.12	3.49		
AAx1838	18	45	0.34	0.37	1.27	1.42	0.38	0.42	2.78	3.10		
AAx2428	24	60	0.34	0.37	1.27	1.42	0.28	0.31	2.08	2.33		
2.01 Lph (0.53 gph) emitter												
AAx04265	4	10	0.53	0.59	2.01	2.24	2.65	2.96	19.75	22.08	0.5	120 (125)
AAx08133	8	20	0.53	0.59	2.01	2.24	1.33	1.48	9.87	11.04		
AAx1288	12	30	0.53	0.59	2.01	2.24	0.88	0.99	6.58	7.36		
AAx1666	16	40	0.53	0.59	2.01	2.24	0.66	0.74	4.94	5.52		
AAx2444	24	60	0.53	0.59	2.01	2.24	0.44	0.49	3.29	3.68		
AAx3629	36	90	0.53	0.59	2.01	2.24	0.29	0.33	2.19	2.45		

AQUA-TRAXX® AND AQUA-TRAXX® AZUL™ PRODUCT SPECIFICATIONS

WALL THICKNESS									
Diameter	Wall Thickness	Pressure				Reel Length		Reel Weight	
		psi		bar		ft	meters	lbs	kg
		min	max ¹	min	max ¹				
16mm (5/8") 0.635"	5 mil	4	10	0.3	0.7	13,000	3,962	72	33
	6 mil	4	12	0.3	0.8	10,000	3,048	64	29
	8 mil	4	15	0.3	1.0	7,500	2,286	66	30
	10 mil	4	15	0.3	1.0	6,000	1,829	63	29
	12 mil	4	15	0.3	1.0	5,100	1,554	63	29
	15 mil	4	15	0.3	1.0	4,000	1,219	63	29
22mm (7/8") 0.880"	6 mil	4	12	0.3	0.7	7,380	2,250	68	31
	8 mil	4	15	0.3	1.0	6,000	1,829	72	33
	10 mil	4	15	0.3	1.0	4,400	1,341	71	32
	12 mil	4	15	0.3	1.0	4,000	1,219	72	33
	15 mil	4	15	0.3	1.0	3,000	914	66	30
28mm (1 1/8") 1.130"	10 mil	4	15	0.3	1.0	4,200	1,280	66	30
	12 mil	4	15	0.3	1.0	3,300	1,006	62	28
	15 mil	4	15	0.3	1.0	3,000	914	71	31

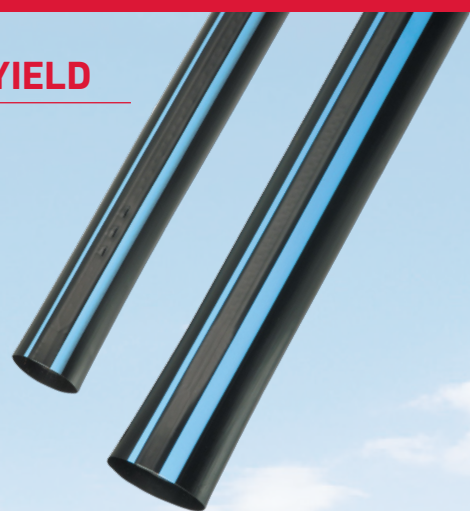
AQUA-TRAXX LENGTH OF RUN DATA

Emitter Flow Part Number	Q-1 lph/1 m @ kPa	5/8" (16 mm) Diameter Length of Run (metres) @ 70 kPa for 90% EU						7/8" (22 mm) Diameter Length of Run (metres) @ 70 kPa for 90% EU						1-1/8" (28 mm) Diameter Length of Run (metres) @ 70 kPa for 90% EU					
		SLOPE						SLOPE						SLOPE					
		Uphill		Flat		Downhill		Uphill		Flat		Downhill		Uphill		Flat		Downhill	
Q-1		2%	1%	0	1%	2%		2%	1%	0	1%	2%		2%	1%	0	1%	2%	
AAx01609	0.65																		
AAx01611	0.83																		
AAx02411	0.83																		
AAx01613	0.93																		
AAx01814	1.11																		
AAx01817	1.24																		
AAx01617	1.25																		
AAx02417	1.25																		
AAx0817	1.30																		
AAx0822	1.66																		
AAx01222	1.66																		
AAx01822	1.67																		
AAx02422	1.67																		
AAx0825	1.86																		
AAx01225	1.86																		
AAx01625	1.87																		
AAx02428	2.08																		
AAx03629	2.19																		
AAx01830	2.22																		
AAx0834	2.50																		
AAx01034	2.50																		
AAx01234	2.50																		
AAx01634	2.50																		
AAx01838	2.78																		
AAx01642	3.12																		
AAx02444	3.29																		
AAx0644	3.33																		
AAx01245	3.33																		
AAx0650	3.73																		
AAx0850	3.74																		
AAx01256	4.16																		
AAx01666	4.94																		
AAx0467	4.99																		
AAx0667	4.99																		
AAx0867	4.99																		
AAx01069	5.06																		
AAx0884	6.24																		
AAx01288	6.58																		
AAx0690	6.66																		
AAx04100	7.47																		
AAx06112	8.33																		
AAx08133	9.87																		
AAx04134	9.99																		
AAx04168	12.48																		
AAx04265	19.75																		

AQUA-TRAXX® FLOWCONTROL™

THE NEXT LEVEL OF UNIFORMITY, EFFICIENCY AND YIELD

Aqua-Traxx FlowControl premium drip tape is the only flow-regulating drip-tape available – giving you more control and uniformity wherever you farm. The innovative emitter design provides flexibility to increase or decrease flow while maintaining a uniform output across changing elevations. Now you have more control over how much water your crops get, especially in long runs or hilly terrain, where water pressure can vary throughout the run.



FEATURES

- Designed and moulded with the PBX Advantage for increased durability, clog resistance and uniform output.
- Flexibility to increase and decrease flow without sacrificing uniformity.
- Available in three diameters and four wall thicknesses.
- Emitter spacing from 15-60 cm with no cost increase, for precise placement and flexibility when designing your system.
- All flow rates require just 150-mesh filtration.

PRODUCT SPECIFICATIONS

FLOWCONTROL™ FLOW RATES

Emitter Flow Part Number	Outlet Spacing	Emitter Flow Rate		Emitter Exponent	Filtration Requirement	
	cm	lph @ 70 kPa	lph/1 metre @ 70 kPa		mesh	micron
0.76 Lph (0.20 gph) emitter				0.3	150	98
AAFCXxx0667	15	0.76	4.99			
AAFCXxx0850	20	0.76	3.74			
AAFCXxx1234	30	0.76	2.50			
AAFCXxx1625	40	0.76	1.87			
AAFCXxx1822	45	0.76	1.67			
AAFCXxx2417	60	0.76	1.25			
1.01 Lph (0.27 gph) emitter				0.3	150	98
AAFCXxx0690	15	1.01	6.66			
AAFCXxx0867	20	1.01	4.99			
AAFCXxx1245	30	1.01	3.33			
AAFCXxx1634	40	1.01	2.50			
AAFCXxx1830	45	1.01	2.22			
AAFCXxx2422	60	1.01	1.67			

FLOWCONTROL™ WALL THICKNESS

Diameter	Wall Thickness	Operating Pressure				Length	Weight
		kPa		bar			
		min	max [†]	min	max [†]	metres	kg
16mm (5/8") 0.635"	8 mil	28	110	0.3	1.1	2,286	30
	10 mil	28	172	0.3	1.7	1,829	29
	12 mil	28	172	0.3	1.7	1,554	29
	15 mil	28	172	0.3	1.7	1,219	29
22mm (7/8") 0.880"	8 mil	28	103	0.3	1.0	1,829	33
	10 mil	28	138	0.3	1.4	1,341	32
	12 mil	28	138	0.3	1.4	1,219	33
	15 mil	28	152	0.3	1.5	914	30

"X denotes the diameter - 5 for 5/8" and 7 for 7/8".

"xx denotes mil (1/1000th of an inch) thickness.

Metric outlet spacing expressed in nominal length.

† Coefficient of Variation (CV) less than 3%.

↑ Maximum pressure within laterals while operating or flushing.

Not all configurations are available in all regions

OTHER THINGS TO KNOW

AQUA-TRAXX® CODE BUILDER

AA/AAFC5100867-600

Aqua-Traxx® with the
PBX Advantage

Aqua-Traxx® with
Flow Control™

Tube Diameter
(5/8"-16mm)

Wall Thickness
(10 mil)

Emitter Spacing
(08"- 20 cm)

Flow Rate
(0.67 gpm per 100')

Roll Length
(600 ft x 10' = 6000')

KEY

PART NUMBER: AA/AAFC5100867-600

AA= Aqua-Traxx with the PBX Advantage AAFC = Aqua-Traxx FlowControl™

5 = Diameter (5/8")

10 = Wall Thickness (10mil)

08 = Emitter Spacing (08")

67 = Flow Rate (0.67 gpm/100')

600 = Roll Length (6000 feet roll)

•X denotes the diameter. 5 for 5/8", 7 for 7/8" and 9 for 1 1/8"

••xx denotes mil (1/1000th of an inch) thickness.

Metric outlet spacing expressed in nominal length.

Gph and gpm represent US gallons

Coefficient of Variation (CV) Less than 3%.

* Maximum pressure within laterals while operating or flushing

Not all configuration are available in all regions



MAXIMISE SYSTEM PERFORMANCE

Toro's FREE drip irrigation design software, AquaFlow™, allows you to see how different products will perform for your unique application. AquaFlow will calculate emission uniformity (EU) and generate color-coded Uniformity Maps to help illustrate how each product will perform - allowing you to select the right product for each application. The fewer colors displayed, the more even the irrigation uniformity. In the example shown at the side FlowControl provides superior uniformity compared to standard drip tapes and increases EU by 4.1%, resulting to lesser irrigation runtime.

Visit aquaflow.toro.com to do your own comparison and learn how FlowControl can improve your system's performance



PRO-LOC™ FITTINGS, ENGINEERED FOR USE WITH AQUA-TRAXX

Easy to install Pro-Loc fittings offer a comprehensive range of configurations including couplings, layflat take-offs and valve options. Engineered for use with Aqua-Traxx drip tape, Pro-Loc fittings are designed to last for the life of the irrigation system. For best system results, always demand genuine Toro Pro-Loc fittings.





WHEN WE SAY COUNT ON IT, WE MEAN IT

With an expanding population, growers around the world are looking to technologies that help increase productivity of existing land and maximise precious water resources. Toro's drip irrigation solutions help growers of permanent, field and row crops around the world realise substantial benefits in yield, quality and water savings from the precise application of water and nutrients.

Australian made irrigation for Australian growers

With manufacturing facilities in South Australia, you can be certain Toro irrigation products are manufactured to withstand the harsh Australian environment.

Market demand, weather patterns and resource availability change every day, so precision agriculture practices must evolve to stay ahead. From increasing yield and improving quality to making the best use of available resources, irrigation technology is evolving, with more precise control over the time, energy and water you invest in your crop.

Toro Aqua-Traxx® drip tape are innovative steps in the evolution of drip irrigation, providing unmatched clog resistance, durability and precision placement of your valuable water and fertiliser.



Visit toro.com.au or call
1300 130 898 for more information or
to find your nearest Toro dealer.

Visit driptips.toro.com to learn
more about drip irrigation and how
it can help you.



TORO AUSTRALIA
53 Howards Road
Beverly SA 5009

toro.com.au 1300 130 898
info.au@toro.com
PO Box 40, Kilkeny SA 5009