LEADERS IN DESIGN - AUSTRALIAN MADE

TRAILCO®

TP90 Model "A"

TURBO POLYREEL

- Designed and Manufactured in Australia.
- Extreme Versatility
- Low Labour Requirement
- Portable
- Low Acreage Losses
- Excellent Water Uniformity
- Ability to Work Around Obstructions
- Uses Polyethylene Pressure Hose.

Options: (Hose Size x Length)

90mm x 200m	110mm x 200m
90mm x 250m	110mm x 250m
90mm x 300m	110mm x 320m
90mm x 350m	

PERFORMANCE TABLE **TRAILCO TP90 TURBO 'A' POLYREEL** **90mm Hose**

SPRINKLER	Nozzle Dia.		Sprinkler Pressure *		Output *		Wetted Width *		Approx. Lane Spacing		Full Circle Precipitation Rate (avg.)		200 METRE (10CHN) RUN						250 METRE (12.4CHN) RUN						300 METRE (15CHN) RUN					
													Approximate area per run		Gross Application 11 Hour Run		Gross Application 22 Hour Run		Approximate area per run		Gross Application 11 Hour Run		Gross Application 22 Hour Run		Approximate area per run		Gross Application 11 Hour Run		Gross Application 22 Hour Run	
	mm	ins	kPa	PSI	l.p.s	GPM	m	ft.	m	ft.	mmph	p.p.h	ha	Ac	mm	ins	mm	ins	ha	Ac	mm	ins	mm	ins	ha	Ac	mm	ins	mm	ins
NELSON SR150R 21°	21.8	0.86	483	70	7.58	100	80	262	52	170	6.2	24	1.04	2.57	28.9	1.14	57.8	2.28	1.30	3.21	23.1	0.91	46.3	1.82	1.56	3.85	19.3	0.76	38.6	1.52
			552	80	8.11	107	83	272	54	177	6.2	24	1.08	2.66	29.8	1.17	59.6	2.35	1.35	3.33	23.8	0.94	47.7	1.88	1.62	3.99	19.9	0.78	39.7	1.56
	24.6	0.97	483	70	9.78	129	86	281	56	183	7.0	27	1.11	2.75	34.8	1.37	69.6	2.74	1.39	3.44	27.8	1.10	55.7	2.19	1.67	4.13	23.2	0.91	46.4	1.83
			552	80	10.38	137	89	291	58	189	6.9	27	1.15	2.85	35.6	1.40	71.3	2.81	1.44	3.56	28.5	1.12	57.0	2.25	1.73	4.27	23.8	0.94	47.5	1.87
	27.4	1.08	483	70	12.43	164	92	301	60	196	7.7	30	1.19	2.95	41.3	1.62	82.5	3.25	1.49	3.68	33.0	1.30	66.0	2.60	1.79	4.42	27.5	1.08	55.0	2.17
			552	80	13.27	175	94	310	61	202	7.8	31	1.23	3.04	42.8	1.68	85.6	3.37	1.54	3.79	34.2	1.35	68.4	2.69	1.84	4.55	28.5	1.12	57.0	2.25
	30.0	1.18	483	70	15.47	204	98	320	63	208	8.5	34	1.27	3.13	48.3	1.90	96.6	3.80	1.58	3.92	38.7	1.52	77.3	3.04	1.90	4.70	32.2	1.27	64.4	2.54
			552	80	16.45	217	101	330	65	215	8.5	34	1.31	3.23	49.8	1.96	99.6	3.92	1.63	4.04	39.9	1.57	79.7	3.14	1.96	4.85	33.2	1.31	66.4	2.62
	32.0	1.26	483	70	18.65	246	104	340	67	221	9.1	36	1.35	3.33	54.8	2.16	109.6	4.32	1.68	4.16	43.9	1.73	87.7	3.45	2.02	4.99	36.5	1.44	73.1	2.88
			552	80	19.86	262	106	349	69	227	9.2	36	1.38	3.42	56.9	2.24	113.7	4.48	1.73	4.27	45.5	1.79	91.0	3.58	2.07	5.13	37.9	1.49	75.8	2.99

PERFORMANCE TABLE **TRAILCO TP90 TURBO 'A' POLYREEL** **110mm Hose**

SPRINKLER	Nozzle Dia.		Sprinkler Pressure *		Output *		Wetted Width *		Approx. Lane Spacing		Full Circle Precipitation Rate (avg.)		200 METRE (10CHN) RUN						250 METRE (12.4CHN) RUN						320 METRE (16CHN) RUN					
													Approximate area per run		Gross Application 11 Hour Run		Gross Application 22 Hour Run		Approximate area per run		Gross Application 11 Hour Run		Gross Application 22 Hour Run		Approximate area per run		Gross Application 11 Hour Run		Gross Application 22 Hour Run	
	mm	ins	kPa	PSI	l.p.s	GPM	m	ft.	m	ft.	mmph	p.p.h	ha	Ac	mm	ins	mm	ins	ha	Ac	mm	ins	mm	ins	ha	Ac	mm	ins	mm	ins
NELSON SR150R 21°	21.8	0.86	483	70	7.58	100	80	262	52	170	6.2	24	1.04	2.57	28.9	1.14	57.8	2.28	1.30	3.21	23.1	0.91	46.3	1.82	1.66	4.10	18.1	0.71	36.1	1.42
			552	80	8.11	107	83	272	54	177	6.2	24	1.08	2.66	29.8	1.17	59.6	2.35	1.35	3.33	23.8	0.94	47.7	1.88	1.72	4.26	18.6	0.73	37.2	1.47
	24.6	0.97	483	70	9.78	129	86	281	56	183	7.0	27	1.11	2.75	34.8	1.37	69.6	2.74	1.39	3.44	27.8	1.10	55.7	2.19	1.78	4.40	21.7	0.86	43.5	1.71
			552	80	10.38	137	89	291	58	189	6.9	27	1.15	2.85	35.6	1.40	71.3	2.81	1.44	3.56	28.5	1.12	57.0	2.25	1.84	4.56	22.3	0.88	44.6	1.75
	27.4	1.08	483	70	12.43	164	92	301	60	196	7.7	30	1.19	2.95	41.3	1.62	82.5	3.25	1.49	3.68	33.0	1.30	66.0	2.60	1.91	4.72	25.8	1.02	51.6	2.03
			552	80	13.27	175	94	310	61	202	7.8	31	1.23	3.04	42.8	1.68	85.6	3.37	1.54	3.79	34.2	1.35	68.4	2.69	1.97	4.86	26.7	1.05	53.5	2.11
	30.0	1.18	483	70	15.47	204	98	320	63	208	8.5	34	1.27	3.13	48.3	1.90	96.6	3.80	1.58	3.92	38.7	1.52	77.3	3.04	2.03	5.01	30.2	1.19	60.4	2.38
			552	80	16.45	217	101	330	65	215	8.5	34	1.31	3.23	49.8	1.96	99.6	3.92	1.63	4.04	39.9	1.57	79.7	3.14	2.09	5.17	31.1	1.23	62.3	2.45
	32.0	1.26	483	70	18.65	246	104	340	67	221	9.1	36	1.35	3.33	54.8	2.16	109.6	4.32	1.68	4.16	43.9	1.73	87.7	3.45	2.16	5.33	34.3	1.35	68.5	2.70
			552	80	19.86	262	106	349	69	227	9.2	36	1.38	3.42	56.9	2.24	113.7	4.48	1.73	4.27	45.5	1.79	91.0	3.58	2.21	5.47	35.5	1.40	71.1	2.80
	34.0	1.34	483	70	22.44	296	108	354	70	230	10.1	40	1.40	3.47	63.4	2.49	126.7	4.99	1.75	4.33	50.7	2.00	101.4	3.99	2.24	5.55	39.6	1.56	79.2	3.12
			552	80	24.03	317	112	369	73	240	9.9	39	1.46	3.61	65.1	2.56	130.2	5.12	1.83	4.52	52.1	2.05	104.1	4.10	2.34	5.78	40.7	1.60	81.4	3.20
	35.8	1.41	483	70	26.23	346	112	369	73	240	10.9	43	1.46	3.61	71.0	2.80	142.1	5.59	1.83	4.52	56.8	2.24	113.7	4.48	2.34	5.78	44.4	1.75	88.8	3.50
			552	80	28.13	371	117	383	76	249	10.8	43	1.52	3.75	73.4	2.89	146.8	5.78	1.90	4.69	58.7	2.31	117.4	4.62	2.43	6.00	45.9	1.81	91.8	3.61

NOTE: APPROXIMATE LANE SPACINGS CALCULATED USING .65 WIND FACTOR, (65% OF THE WETTED WIDTH/SPRINKLER DIAMETER)

* Sprinkler performance is based on the Manufacturers data which has been obtained under ideal test conditions and may be adversely affected by wind or other factors.

Trailco Irrigation makes no representation regarding droplet condition, uniformity or application rate.

FEATURES:

AUSTRALIAN MADE - Designed & Manufactured in Australia

TRAILCO TURBO DRIVE - The Turbine Drive provides the Trailco Polyreel the Power to Rewind the hose and the Sprinkler Carrier in tough conditions,

-The power is developed as a result of water flow, not pressure, which can allow the Turbo Polyreel to operate at low pressures, saving on energy costs.

- The Turbine has few moving parts to wear, less to go wrong. Simple and easy to use.
- Four Speed Automotive type Gear Box coupled to the Turbine provides the Turbo Polyreel with a wide range of travel speeds to suit your particular crop water requirements.
- The volume of water entering the Turbine is controlled by a Diverter Valve which when used with the Four Speed Gearbox, provides the Turbo Polyreel with Infinite range of travel speeds to suit differing crop water requirements.
- No Filters required for Turbine Drive.
- No exhaust water from Turbine Drive, all water is distributed through the sprinkler.

AUTOMATIC SPEED COMPENSATION – The Turbine Drive is fitted with a compensating mechanism that automatically compensates for the increase in the Reel Diameter at each layer of Hose, as it winds on the Reel ensuring uniform Travel Speed and uniform watering.

TACHOMETER – Fitted to Turbine for ease of setting Travel Speed.

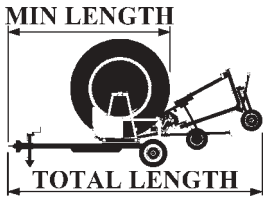
AUTOMATIC SHUT-OFF - At the end of irrigation run when the hose is completely rewound, the Sprinkler Carrier triggers the Shut-Off bar that stops the Hose Reel Turbine Drive. For maximum protection of hose and machine, this mechanism is also automatically triggered if the hose should over run the Hose Reel due to a mechanical failure while operating.

P.T.O. HOSE REWIND – Tractor P.T.O. Hose Reel Rewind Drive including P.T.O. Shaft for rewinding hose if required without operating Turbine Drive.

EASY TO SERVICE – All serviceable parts are located in a convenient position for ease of maintenance and adjustments.

DIMENSIONS:

HEIGHT 3.4m
WIDTH 2.3m
Min LENGTH: 4.5m
Total LENGTH: 6.58m



CLUTCH – When pulling out hose, the Turbine Drive is disengaged by means of a Dog Clutch (No Gear & Reduction Boxes turning). Saving on wear to Gears. Meaning longer operating life.

LONGER LIFE – All main parts, including Hose Reel and Frame, Main Chassis, Stabilising Legs, Lifting Arms & Sprinkler Carrier are Hot Dip Galvanised for maximum protection.

SPRINKLER CARRIAGE – The Sprinkler is mounted on a Three Wheel Carrier to give maximum stability and excellent tracking. The track width is adjustable to suit various Row Crop Spacings.

HOSE GUIDE – A Hose Guide Assembly ensures correct hose rewinding on the Reel (No Crowning), as it moves through a Guide Mechanism.

SCREW JACK & ADJUSTABLE HITCH – Connecting machine to Tractor Drawbar by the Screw Hack and Adjustable Hitch. The Jack is easily retracted out of the way before transporting.

POLYETHYLENE HOSE – Heavy Duty, Medium Density Polyethylene Hose is extremely durable and is manufactured in Australia.

OPTIONAL EXTRAS

SPRINKLER TILT COUPLING – Designed to assist in combating the effects of wind by varying trajectory angle of sprinkler. (e.g. the higher the wind velocity the lower the trajectory required to penetrate the wind).

COMPUTER TRAVEL CONTROL - Various computer control options can be fitted to the irrigator:

-Basic Computer: Computer travel control provides accurate water application, and allows delayed starts/stops.

-Computer + Dump: Allows a pressure sensitve pump to shut down at the end of run.

-Computer + Full Shutoff: Allows water to be shut off at the machine inlet.

SOLD & SERVICED BY:

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