

**LEADERS IN DESIGN - AUSTRALIAN MADE**

# **TRAILCO®**

## **TP110 TP125**

### **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. The TP110 uses 110mm Diameter hose and the TP125 uses 125mm Diameter hose.**



**Options: (Hose Diameter - Length)**

*110mm - 200m      125mm - 200m*

*110mm - 250m      125mm - 250m*

*110mm - 340m      125mm - 340m*

*110mm - 400m      125mm - 394m*

| PERFORMANCE TABLE TRAILCO TP110 & TP125 TURBO POLYREELS |             |      |                      |       |          |     |                |     |                      |      |                                       |       |                          |      |                   |      |      |      |                          |      |                   |      |      |      |      |      |    |
|---|-------------|------|----------------------|-------|----------|-----|----------------|-----|----------------------|------|---------------------------------------|-------|--------------------------|------|-------------------|------|------|------|--------------------------|------|-------------------|------|------|------|------|------|----|
| SPRINKLER   | Nozzle Dia. |      | Sprinkler Pressure * |       | Output * |     | Wetted Width * |     | Approx. Lane Spacing |      | Full Circle Precipitation Rate (avg.) |       | 340 METRE (16.9 CHN) RUN |      |                   |      |      |      | 394 METRE (19.6 CHN) RUN |      |                   |      |      |      |      |      |    |
|   |             |      |                      |       |          |     |                |     |                      |      |                                       |       | Approx. area             |      | Gross Application |      |      |      | Approx. area             |      | Gross Application |      |      |      |      |      |    |
|   | mm          | ins  | kPa                  | PSI   | l.p.s    | GPM | m              | ft. | m                    | ft.  | mmph                                  | p.p.h | ha                       | Ac   | mm                | ins  | mm   | ins  | mm                       | ins  | ha                | Ac   | mm   | ins  | mm   | ins  | mm |
| NELSON<br>SR150R<br>21°                                 | 21.8        | 0.86 | 483                  | 70    | 7.58     | 100 | 80             | 262 | 52                   | 170  | 6.2                                   | 24    | 1.76                     | 4.36 | 17.0              | 0.67 | 34.0 | 1.34 | 2.05                     | 5.05 | 10.0              | 0.39 | 14.7 | 0.58 | 29.4 | 1.16 |    |
|   |             |      | 552                  | 80    | 8.11     | 107 | 83             | 272 | 54                   | 177  | 6.2                                   | 24    | 1.83                     | 4.53 | 17.5              | 0.69 | 35.1 | 1.38 | 2.12                     | 5.25 | 10.3              | 0.41 | 15.1 | 0.60 | 30.3 | 1.19 |    |
|   | 24.6        | 0.97 | 483                  | 70    | 9.78     | 129 | 86             | 281 | 56                   | 183  | 7.0                                   | 27    | 1.89                     | 4.68 | 20.5              | 0.81 | 40.9 | 1.61 | 2.19                     | 5.42 | 12.0              | 0.47 | 17.7 | 0.70 | 35.3 | 1.39 |    |
|   |             |      | 552                  | 80    | 10.38    | 137 | 89             | 291 | 58                   | 189  | 6.9                                   | 27    | 1.96                     | 4.84 | 21.0              | 0.83 | 41.9 | 1.65 | 2.27                     | 5.61 | 12.3              | 0.49 | 18.1 | 0.71 | 36.2 | 1.42 |    |
|   | 27.4        | 1.08 | 483                  | 70    | 12.43    | 164 | 92             | 301 | 60                   | 196  | 7.7                                   | 30    | 2.03                     | 5.01 | 24.3              | 0.96 | 48.6 | 1.91 | 2.35                     | 5.81 | 14.3              | 0.56 | 20.9 | 0.82 | 41.9 | 1.65 |    |
|   |             |      | 552                  | 80    | 13.27    | 175 | 94             | 310 | 61                   | 202  | 7.8                                   | 31    | 2.09                     | 5.16 | 25.2              | 0.99 | 50.3 | 1.98 | 2.42                     | 5.98 | 14.8              | 0.58 | 21.7 | 0.85 | 43.4 | 1.71 |    |
|   | 30.0        | 1.18 | 483                  | 70    | 15.47    | 204 | 98             | 320 | 63                   | 208  | 8.5                                   | 34    | 2.16                     | 5.33 | 28.4              | 1.12 | 56.8 | 2.24 | 2.50                     | 6.17 | 16.7              | 0.66 | 24.5 | 0.97 | 49.1 | 1.93 |    |
|   |             |      | 552                  | 80    | 16.45    | 217 | 101            | 330 | 65                   | 215  | 8.5                                   | 34    | 2.22                     | 5.49 | 29.3              | 1.15 | 58.6 | 2.31 | 2.58                     | 6.37 | 17.2              | 0.68 | 25.3 | 1.00 | 50.6 | 1.99 |    |
| 32.0  | 1.26        | 483  | 70                   | 18.65 | 246      | 104 | 340            | 67  | 221                  | 9.1  | 36                                    | 2.29  | 5.66                     | 32.2 | 1.27              | 64.5 | 2.54 | 2.65 | 6.56                     | 19.0 | 0.75              | 27.8 | 1.10 | 55.7 | 2.19 |      |    |
|   |             | 552  | 80                   | 19.86 | 262      | 106 | 349            | 69  | 227                  | 9.2  | 36                                    | 2.35  | 5.81                     | 33.5 | 1.32              | 66.9 | 2.63 | 2.72 | 6.73                     | 19.7 | 0.77              | 28.9 | 1.14 | 57.7 | 2.27 |      |    |
| 34.0  | 1.34        | 483  | 70                   | 22.44 | 296      | 108 | 354            | 70  | 230                  | 10.1 | 40                                    | 2.38  | 5.89                     | 37.3 | 1.47              | 74.5 | 2.93 | 2.76 | 6.83                     | 21.9 | 0.86              | 32.2 | 1.27 | 64.3 | 2.53 |      |    |
|   |             | 552  | 80                   | 24.03 | 317      | 112 | 369            | 73  | 240                  | 9.9  | 39                                    | 2.49  | 6.14                     | 38.3 | 1.51              | 76.6 | 3.01 | 2.88 | 7.12                     | 22.5 | 0.89              | 33.0 | 1.30 | 66.1 | 2.60 |      |    |
| 35.8  | 1.41        | 483  | 70                   | 26.23 | 346      | 112 | 369            | 73  | 240                  | 10.9 | 43                                    | 2.49  | 6.14                     | 41.8 | 1.65              | 83.6 | 3.29 | 2.88 | 7.12                     | 24.6 | 0.97              | 36.1 | 1.42 | 72.1 | 2.84 |      |    |
|   |             | 552  | 80                   | 28.13 | 371      | 117 | 383            | 76  | 249                  | 10.8 | 43                                    | 2.58  | 6.38                     | 43.2 | 1.70              | 86.4 | 3.40 | 2.99 | 7.39                     | 25.4 | 1.00              | 37.3 | 1.47 | 74.5 | 2.93 |      |    |
| NELSON<br>SR200R<br>21°                                 | 32.8        | 1.29 | 552                  | 80    | 18.35    | 242 | 107            | 351 | 70                   | 228  | 8.4                                   | 33    | 2.36                     | 5.84 | 30.7              | 1.21 | 61.5 | 2.42 | 2.74                     | 6.77 | 18.1              | 0.71 | 26.5 | 1.04 | 53.0 | 2.09 |    |
|   |             |      | 621                  | 90    | 19.56    | 258 | 110            | 361 | 72                   | 235  | 8.5                                   | 33    | 2.43                     | 6.01 | 31.9              | 1.25 | 63.7 | 2.51 | 2.82                     | 6.96 | 18.7              | 0.74 | 27.5 | 1.08 | 55.0 | 2.16 |    |
|   | 37.1        | 1.46 | 552                  | 80    | 24.03    | 317 | 116            | 380 | 75                   | 247  | 9.4                                   | 37    | 2.56                     | 6.33 | 37.2              | 1.46 | 74.4 | 2.93 | 2.97                     | 7.33 | 21.9              | 0.86 | 32.1 | 1.26 | 64.2 | 2.53 |    |
|   |             |      | 621                  | 90    | 25.55    | 337 | 120            | 394 | 78                   | 256  | 9.3                                   | 37    | 2.65                     | 6.56 | 38.1              | 1.50 | 76.2 | 3.00 | 3.08                     | 7.60 | 22.4              | 0.88 | 32.9 | 1.30 | 65.8 | 2.59 |    |
| 39.6  | 1.56        | 552  | 80                   | 28.13 | 371      | 122 | 399            | 79  | 259                  | 10.0 | 39                                    | 2.69  | 6.64                     | 41.4 | 1.63              | 82.9 | 3.26 | 3.11 | 7.70                     | 24.4 | 0.96              | 35.8 | 1.41 | 71.5 | 2.82 |      |    |
|   |             | 621  | 90                   | 30.03 | 396      | 126 | 413            | 82  | 268                  | 9.9  | 39                                    | 2.78  | 6.87                     | 42.7 | 1.68              | 85.5 | 3.37 | 3.22 | 7.97                     | 25.2 | 0.99              | 36.9 | 1.45 | 73.8 | 2.90 |      |    |
| 42.2  | 1.66        | 552  | 80                   | 32.53 | 429      | 127 | 418            | 83  | 272                  | 10.5 | 41                                    | 2.82  | 6.96                     | 45.8 | 1.80              | 91.5 | 3.60 | 3.26 | 8.06                     | 26.9 | 1.06              | 39.5 | 1.55 | 79.0 | 3.11 |      |    |
|   |             | 621  | 90                   | 34.42 | 454      | 132 | 432            | 86  | 281                  | 10.4 | 41                                    | 2.91  | 7.19                     | 46.8 | 1.84              | 93.7 | 3.69 | 3.37 | 8.33                     | 27.6 | 1.09              | 40.4 | 1.59 | 80.8 | 3.18 |      |    |

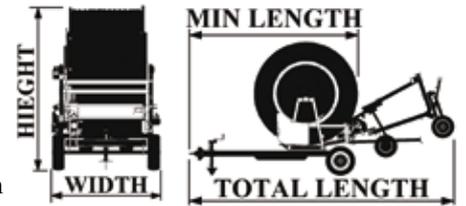
NOTE: APPROXIMATE LANE SPACINGS & GROSS APPLICATION CALCULATED USING .65 WIND FACTOR, (65% OF THE WETTED WIDTH/SPRINKLER DIAMETER)  
 \* Sprinkler performance is based on the Manufacturers data which has been obtained under ideal test conditions and may be adversely affected by wind or other factors.  
 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.
- HYDRAULIC LIFT SPRINKLER GANTRY** - Hydraulic raising and lowering of Sprinkler Carrier and Stabilising Legs by on board hand operated Two Way Pump.
- 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 3.74m  
 WIDTH 2.5m  
 Min LENGTH: 5.0m  
 Total LENGTH: 7.95m  
 WEIGHT: 4310kg (TP125 with 340m of Hose & Sprinkler Trolley)



- 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 Poly-ethylene 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).
  - SPRINKLER TROLLEY OPTIONS**
    - Optional vertical adjustment on front wheel.
    - Optional Five Wheel Sprinkler Trolley for maximum stability
  - COMPUTER CONTROL** - Exact Control of travel speed and various options including full shut-off, and remote pump shut-off give you precise control of your water distribution, producing even greater savings on both water and pumping costs.
  - HYDRAULIC CONTROL OF SPRINKLER CARRIER, JACK LEG, STABILISING LEGS & SLEW** - All machine functions powered by tractor hydraulics.

Issued 10 April 2012

**TRAILCO IRRIGATION (AUST.)**

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