



Rodney Industries

2025



RI 20

TRAVELLING IRRIGATORS

MACHINE DETAILS &
PERFORMANCE DATA



RI 20

RI RANGE

Rotor Drive Travelling Irrigator



OPERATING PRESSURE

345 - 483
kPa



FLOW RATE

1.73 - 7.12
L/S



WETTED WIDTH

44 - 67
Mtrs



TRAVEL DISTANCE PER RUN

126
Mtrs



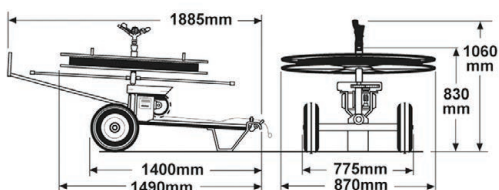
STANDARD EQUIPMENT

- Water-jet powered rotary driving arms acting through high quality worm reduction drive to cable winch.
- Heavy duty welded steel chassis all hot dip galvanized.



RI 20 with wheels

...Mass: 135 kg (including hose)



FREIGHT INFORMATION

The RI 20 is despatched on a skid and requires a forklift for loading and unloading.



Basic Irrigator With Skid

Code

Without Hose Kit & Sprinkler

RI020S

Complete Irrigator With Skid

Code

1 1/2" x 67m Hose Kit
Hose connection to irrigator end only
Nelson F80 Full Circle Sprinkler with 8.7mm
Main Nozzle

RI020KS

Basic Irrigator With Wheels

Code

Without Hose Kit & Sprinkler

RI020W

Complete Irrigator With Skid

Code

1 1/2" x 67m Hose Kit
Hose connection to irrigator end only
Nelson F80 Full Circle Sprinkler with 8.7mm
Main Nozzle

RI020KS

Nozzle Options

Code

8.7mm

8DRN1132

9.5mm

8DRN38

11.1mm

8DRN716

11.9mm

8DRN1532

12.7mm

8DRN12

14.3mm

8DRN916

15.1mm

8DRN1932

15.9mm

8DRN58

17.5mm

8DRN1116

Seal Kits

Code

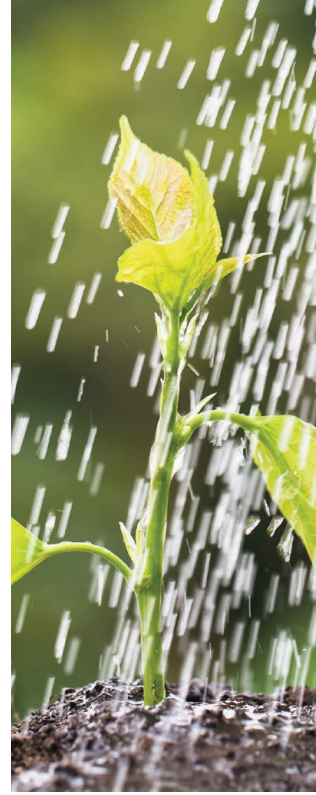
Seal Kit to Suit RI10 & RI20

TCAKIT

RI 20

PERFORMANCE SPECIFICATIONS

Sprinkler and Hose	Nozzle Diam. Mm (ins)	Sprinkler Pressure kPa (psi)	Flow Rate l/sec (gpm)	Friction Loss in Hose kPa (psi)	Sprinkler Wetted Width m (ft)	Average Application Rate/hr mm (points)	Depth of water Applied Per Run @ Travel Speed mm (inches)
 Nelson F80V Sprinkler 67m x 40mm Hose	8.7 (11/32)	345 (50)	1.73 (22.8)	14 (2.0)	44.0 (144)	4.7 (18.5)	35.3 (1.39) @ 4m/hr
		483 (70)	2.05 (27.0)	16 (2.3)	48.6 (160)	4.5 (17.7)	37.6 (1.48) @ 4m/hr
	9.5 (3/8)	345 (50)	2.02 (26.7)	16 (2.3)	45.6 (150)	5.1 (20.0)	399 (1.57) @ 4m/hr
		483 (70)	2.38 (31.5)	24 (3.5)	50.6 (166)	4.9 (19.2)	42.4 (1.67) @ 4m/hr
	10.3 (13/32)	345 (50)	2.34 (30.9)	24 (3.5)	47.4 (156)	5.4 (21.4)	44.2 (1.74) @ 4m/hr
		483 (70)	2.77 (36.6)	31 (4.5)	52.4 (172)	5.3 (20.8)	47.8 (1.88) @ 4m/hr
	11.1 (7/16)	345 (50)	2.64 (34.8)	28 (4.1)	49.4 (162)	5.7 (22.3)	48.0 (1.89) @ 4m/hr
		483 (70)	3.14 (41.5)	40 (5.8)	54.8 (180)	5.5 (21.6)	51.6 (2.03) @ 4m/hr
	11.9 (15/32)	345 (50)	2.99 (39.5)	36 (5.2)	51.2 (168)	6.0 (23.5)	52.6 (2.07) @ 4m/hr
		483 (70)	3.55 (46.9)	47 (6.8)	56.6 (186)	5.8 (22.8)	56.4 (2.22) @ 4m/hr
	12.7 (1/2)	345 (50)	3.37 (44.5)	46 (6.7)	53.0 (174)	6.3 (24.7)	57.2 (2.25) @ 4m/hr
		483 (70)	3.40 (52.8)	66 (9.6)	58.4 (192)	6.1 (24.1)	61.5 (2.42) @ 4m/hr
	13.5 (17/32)	345 (50)	3.76 (49.6)	58 (8.4)	54.8 (180)	6.6 (25.8)	61.7 (2.43) @ 4m/hr
		483 (70)	4.46 (58.9)	80 (11.6)	60.4 (198)	6.4 (25.3)	66.5 (2.62) @ 4m/hr
	14.3 (9/16)	345 (50)	4.17 (55.0)	70 (10.2)	56.0 (184)	6.9 (27.3)	66.8 (2.63) @ 4m/hr
		483 (70)	4.94 (65.2)	98 (14.2)	62.2 (204)	6.7 (26.3)	71.4 (2.81) @ 4m/hr
	15.1 (19/32)	345 (50)	4.59 (60.6)	85 (12.3)	58.8 (192)	7.0 (27.6)	70.6 (2.78) @ 4m/hr
		483 (70)	5.45 (72.0)	120 (17.4)	63.8 (208)	7.1 (28.0)	77.5 (3.05) @ 4m/hr
	15.9 (5/8)	345 (50)	5.02 (66.2)	101 (14.7)	61.6 (202)	6.9 (27.3)	73.4 (2.89) @ 4m/hr
		483 (70)	5.96 (78.7)	144 (20.8)	65.2 (214)	7.3 (28.9)	82.3 (3.24) @ 4m/hr
	17.5 (11/16)	345 (50)	6.01 (79.3)	146 (21.2)	61.6 (202)	8.3 (32.7)	879 (3.46) @ 4m/hr
		483 (70)	7.12 (94.0)	201 (29.2)	670 (220)	8.3 (32.6)	95.8 (3.77) @ 4m/hr





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