



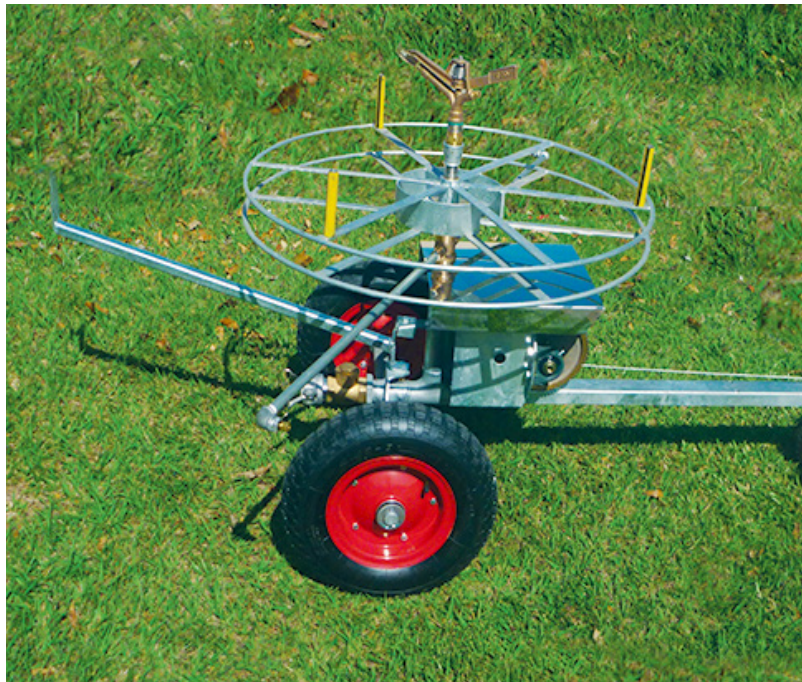
Rodney Industries

# RI RANGE TRAVELLING IRRIGATORS



2024

# RI RANGE TRAVELLING IRRIGATORS





**THE IDEAL SOLUTION  
FOR SMALL TO  
MEDIUM IRRIGATION  
NEEDS.**



**FROM GOLF COURSES  
TO PLAYING FIELDS,  
TURF FARMS TO  
MINING SITES.**



**Australian Designed**

**Australian Manufactured**



## THE SMALL BUT MIGHTY

Formally a part of the Southern Cross Range of irrigators, our RI Range consists of 3 smaller sized irrigators the RI 10, RI 20 and RI 30.

These Australian designed and manufactured irrigators boast hot dipped galvanizing to protect the machines from the harsh elements as well as increase their durability. They are simple to operate and have the power to handle all conditions.

Other features include:

- Self – propelled
- Auto stop
- Integral hose reel (RI-20/30 models)
- Adjustable speed
- Positive drive via winch cable & anchor

# RI 10

## Travelling Irrigator



**OPERATING PRESSURE**  
275 - 345  
kPa



**FLOW RATE**  
.73 - 1.4  
L/S



**WETTED WIDTH**  
32 - 40  
Mtrs



**TRAVEL DISTANCE PER RUN**  
100  
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.

### BASIC



- Basic irrigator without hose kit and sprinkler

### COMPLETE



- Complete irrigator with 1" x 55m Hose Kit
- Hose connection to irrigator end only
- Nelson F70 Sprinkler with 5.6mm Nozzle



# RI 10

## Travelling Irrigator



F70 Sprinkler

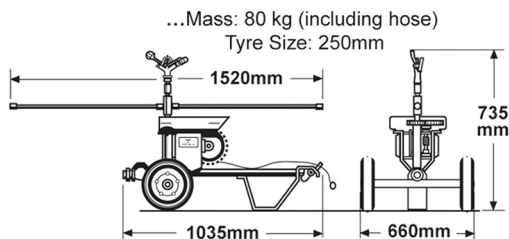
### NOZZLE OPTIONS



- 5.6mm
- 6.4mm
- 7.2mm
- 8.0mm

## 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 F70V Sprinkler 55m x 25mm Hose	5.6 (7/32)	275 (40)	0.73 (9.7)	55 (8.0)	32 (106)	3.7 (14.5)	11.7 (0.46) @ 7m/hr
		345 (50)	0.81 (10.6)	69 (10.0)	34 (110)	3.7 (14.7)	12.4 (0.49) @ 7m/hr
	6.4 (1/4)	275 (40)	0.90 (11.9)	90 (13.0)	33 (109)	4.3 (16.8)	14.0 (0.55) @ 7m/hr
		345 (50)	0.99 (13.1)	112 (16.2)	35 (114)	4.3 (16.9)	14.7 (0.58) @ 7m/hr
	7.2 (9/32)	275 (40)	1.08 (14.3)	135 (19.6)	34 (112)	4.9 (19.2)	16.3 (0.64) @ 7m/hr
		345 (50)	1.19 (15.7)	161 (23.4)	36 (119)	4.7 (18.6)	16.8 (0.66) @ 7m/hr
	8.0 (5/16)	275 (40)	1.30 (17.7)	165 (24.0)	38 (124)	5.5 (21.8)	18.0 (0.70) @ 7m/hr
		345 (50)	1.40 (19.7)	195 (28.3)	40 (131)	5.7 (22.8)	18.5 (0.72) @ 7m/hr



### FREIGHT INFORMATION

The RI 10 is despatched on a skid and requires a forklift for loading and unloading.

# RI 20

## 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.

### BASIC WITH WHEELS



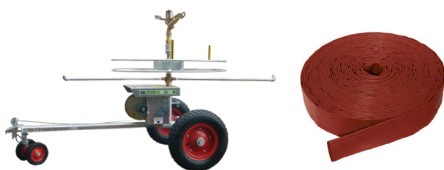
- Basic irrigator without hose kit and sprinkler

### BASIC WITH SKID



- Basic irrigator without hose kit and sprinkler

### COMPLETE WITH WHEELS



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

### COMPLETE WITH SKID



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



# RI 20

## Travelling Irrigator

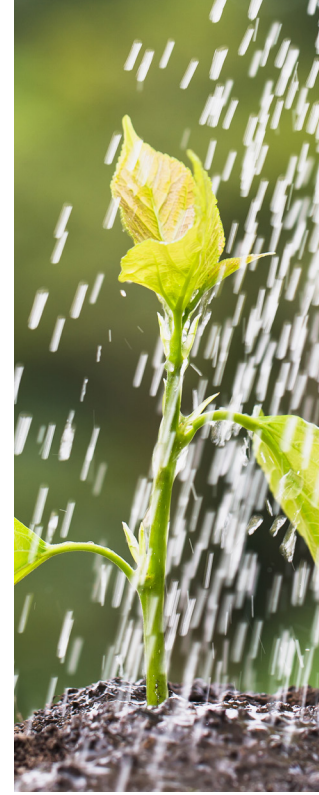


F80 Sprinkler

### NOZZLE OPTIONS



- 8.7mm
- 9.5mm
- 11.1mm
- 11.9mm
- 12.7mm
- 14.3mm
- 15.1mm
- 15.9mm
- 17.5mm

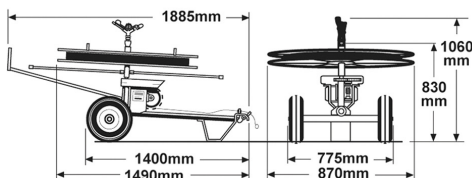


## Performance Specifications

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)	87.9 (3.46) @ 4m/hr	
	483 (70)	7.12 (94.0)	201 (29.2)	67.0 (220)	8.3 (32.6)	95.8 (3.77) @ 4m/hr	



...Mass: 135 kg (including hose)



## FREIGHT INFORMATION

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



# RI 30

## Travelling Irrigator



**OPERATING PRESSURE**

413 - 551  
kPa



**FLOW RATE**

1.7 - 7.3  
L/S



**WETTED WIDTH**

46 - 70  
Mtrs



**TRAVEL DISTANCE PER RUN**

200  
Mtrs

### STANDARD EQUIPMENT



- Powerful piston type water motor with lever action drive to large diameter cable winch.
- Heavy duty welded steel chassis all hot dip galvanized.
- Vertical type for easy layout and rewind.

### BASIC



- Basic irrigator without hose kit and sprinkler

### COMPLETE



- 100m x 2" Angus Hi-Flow Irrigator Hose
- 2" Hose connection on irrigator end only
- Nelson P85 Part Circle Sprinkler with 8.7mm main nozzle



# RI 30

## Travelling Irrigator



P85 Sprinkler

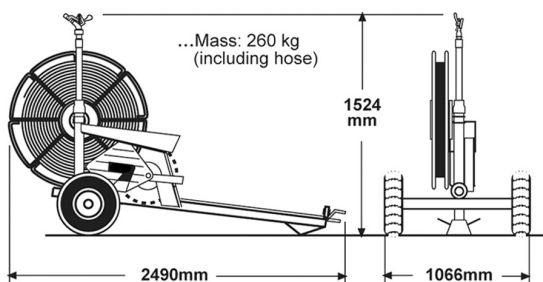
### NOZZLE OPTIONS



- 8.7mm
- 9.5mm
- 10.3mm
- 11.1mm
- 11.9mm
- 12.7mm
- 13.5mm
- 14.3mm
- 15.1mm
- 15.9mm
- 17.5mm

## 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)		
							11hr Run	23hr Run	47hr Run
Nelson P85 Sprinkler 100m x 50mm Hose (200m Spray Run)	8.7 (11/32)	413 (60)	1.68 (22.2)	9 (1.3)	46 (152)	4.0 (15.6)	10 (0.40)	21 (0.84)	44 (1.73)
		551 (80)	1.93 (25.5)	12 (1.7)	51 (166)	4.0 (15.6)	11 (0.42)	23 (0.89)	46 (1.81)
	9.5 (3/8)	413 (60)	1.99 (26.3)	12 (1.8)	48 (158)	4.4 (17.3)	12 (0.46)	24 (0.96)	50 (1.95)
		551 (80)	2.30 (33.0)	16 (2.3)	52 (172)	4.4 (17.3)	12 (0.49)	26 (1.02)	53 (2.08)
	10.3 (13/32)	413 (60)	2.35 (31.0)	17 (2.4)	51 (166)	4.8 (19.0)	13 (0.52)	27 (1.08)	56 (2.20)
		551 (80)	2.70 (35.7)	22 (3.2)	55 (180)	4.8 (19.0)	14 (0.55)	29 (1.14)	59 (2.33)
	11.1 (7/16)	413 (60)	2.68 (35.4)	21 (3.1)	52 (172)	5.1 (19.9)	14 (0.57)	30 (1.19)	62 (2.43)
		551 (80)	3.11 (41.1)	30 (4.3)	57 (186)	5.1 (19.9)	15 (0.61)	32 (1.27)	66 (2.60)
	11.9 (15/32)	413 (60)	3.07 (40.5)	28 (4.1)	54 (178)	5.4 (21.3)	16 (0.62)	33 (1.31)	68 (2.67)
		551 (80)	3.55 (46.8)	37 (5.4)	59 (194)	5.4 (21.3)	17 (0.66)	35 (1.39)	72 (2.83)
	12.7 (1/2)	413 (60)	3.48 (45.9)	38 (5.5)	56 (184)	5.8 (22.7)	18 (0.69)	36 (1.43)	74 (2.93)
		551 (80)	4.03 (53.2)	47 (6.8)	61 (200)	5.8 (22.7)	19 (0.73)	39 (1.53)	80 (3.13)
	13.5 (17/32)	413 (60)	3.90 (51.5)	43 (6.3)	58 (190)	6.1 (23.9)	19 (0.75)	40 (1.56)	82 (3.22)
		551 (80)	4.53 (59.8)	65 (9.5)	63 (206)	6.1 (23.9)	20 (0.80)	42 (1.67)	87 (3.42)
	14.3 (9/16)	413 (60)	4.36 (57.5)	59 (8.6)	59 (194)	6.4 (25.2)	21 (0.81)	43 (1.70)	88 (3.48)
		551 (80)	5.06 (66.7)	79 (11.5)	65 (212)	6.4 (25.2)	22 (0.87)	46 (1.82)	94 (3.71)
	15.9 (5/8)	413 (60)	5.30 (69.9)	88 (12.7)	63 (206)	7.0 (27.7)	24 (0.94)	50 (1.96)	102 (4.0)
		551 (80)	6.12 (80.8)	114 (16.6)	68 (222)	7.0 (27.7)	25 (1.00)	53 (2.10)	109 (4.3)
17.5 (11/16)	413 (60)	6.38 (84.2)	117 (17.0)	65 (212)	8.0 (31.6)	28 (1.10)	58 (2.29)	119 (4.7)	
	551 (80)	7.33 (96.7)	147 (21.4)	70 (230)	8.0 (31.6)	29 (1.16)	61 (2.42)	126 (4.9)	



### FREIGHT INFORMATION

The RI 30 is despatched on a skid and requires a forklift for loading and unloading.





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