

# RI-10 / RI-20 / RI-30 TRAVELLING IRRIGATORS

## **Applications**

- **TURF WATERING** -  
*Playing fields, parks and gardens, lawn cemeteries, golf courses, race courses.*
- **AGRICULTURE** -  
*Small crops, nurseries, turf farms.*
- **DUST CONTROL** -  
*Mining and building sites.*

## **Features**

- Australian designed and manufactured
- Spare parts and backup services available
- Hot dip galvanized
- Self - propelled
- Auto stop
- Heavy duty design
- Integral hose reel (RI-20/30)
- Adjustable speed
- Power to handle all conditions
- Positive drive via winch cable & anchor
- Easy to operate



**RI-10**



**RI-20**

**RI-30**



# RI-10 / R TRAVELLING

## MODEL

## SPECIFICATIONS

### RI-10



SPRINKLER:	Nelson F70V Sprinkler
HOSE:	55 metres x 25mm (1 inch)
FLOW RATE:	0.69 to 1.37 litres per second
OPERATING PRESSURE RANGE:	245 to 345 kPa
TRAVEL DISTANCE PER RUN:	110 metres
WETTED WIDTH:	34 to 40 metres
DRIVING MECHANISM:	Water-jet powered rotary driving arms acting through high quality worm reduction drive to cable winch
CONSTRUCTION:	Heavy duty welded steel chassis all hot dip galvanized

### RI-20



SPRINKLER:	Nelson F80V Sprinkler
HOSE:	67 metres x 40mm (1 1/2 inch)
FLOW RATE:	1.73 to 7.12 litres per second
OPERATING PRESSURE RANGE:	345 to 483 kPa
TRAVEL DISTANCE PER RUN:	130 metres
WETTED WIDTH:	51 to 69 metres
DRIVING MECHANISM:	Water-jet powered rotary driving arms acting through high quality worm reduction drive to cable winch
CONSTRUCTION:	Heavy duty welded steel chassis all hot dip galvanized
OPTION:	Choice of skid or front wheels

### RI-30



SPRINKLER:	NELSON P85 Sprinkler
HOSE:	100 metres x 50mm (2 inch) Angus Hi-Flow
FLOW RATE:	1.7 to 7.3 litres per second
OPERATING PRESSURE RANGE:	413 to 551 kPa
TRAVEL DISTANCE PER RUN:	200 metres
WETTED WIDTH:	46 to 70 metres
DRIVING MECHANISM:	Powerful piston type water motor with lever action drive to large diameter cable winch
CONSTRUCTION:	Heavy duty welded steel chassis all hot dip galvanized
HOSE REEL:	Vertical type for easy layout and rewind



*Sprinklers*



F70V



F80V



P85

# I-20 / RI-30 G IRRIGATORS



## PERFORMANCE DATA

RI-10

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 mm (inches) @ Travel Speed
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

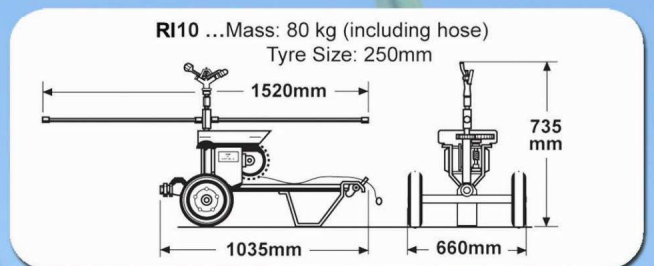
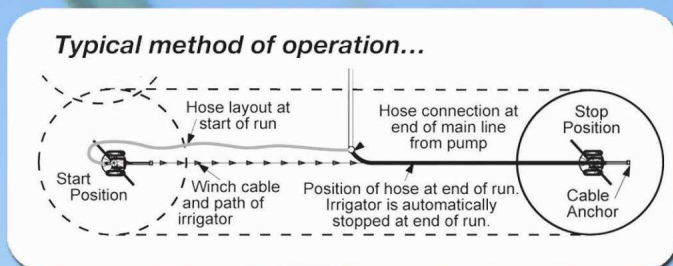
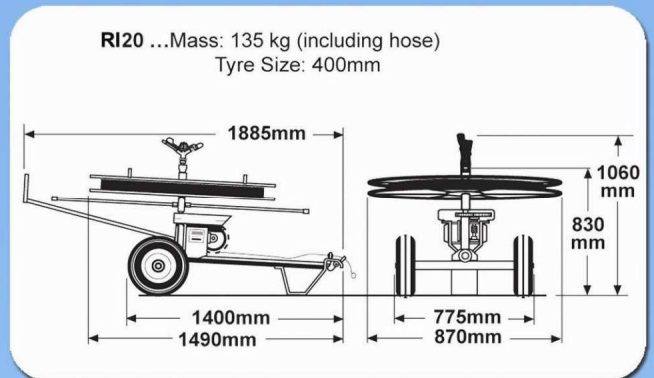
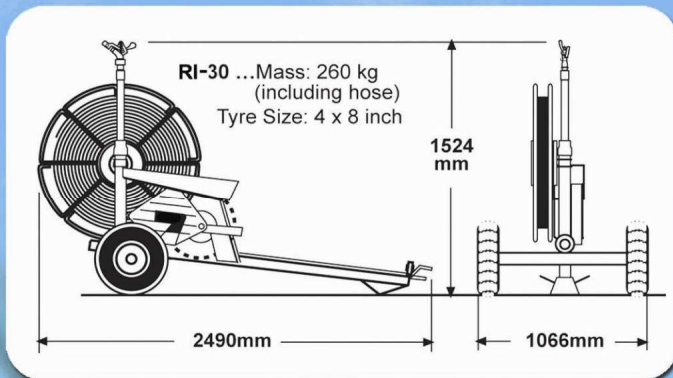
RI-20

Nozzle Diam. Mm (ins)	Sprinkler Pressure kPA (psi)		Flow Rate l/sec (gpm)		Friction Loss in Hose kPa (psi)		Average Application Rate/hr mm (points)		Depth of water Applied Per Run mm (inches) @ Travel Speed			
	40mm	50mm	40mm	50mm	40mm	50mm	40mm	50mm	40mm	50mm		
8.7 (11/32)	345 (50)	483 (70)	1.73 (22.8)	2.05 (27.0)	14 (2.0)	16 (2.3)	44.0 (144)	48.6 (160)	4.7 (18.5)	4.5 (17.7)	35.3 (1.39) @ 4m/hr	37.6 (1.48) @ 4m/hr
	345 (50)	483 (70)	2.02 (26.7)	2.38 (31.5)	16 (2.3)	24 (3.5)	45.6 (150)	50.6 (166)	5.1 (20.0)	4.9 (19.2)	39.9 (1.57) @ 4m/hr	42.4 (1.67) @ 4m/hr
9.5 (3/8)	345 (50)	483 (70)	2.34 (30.9)	2.77 (36.6)	24 (3.5)	31 (4.5)	47.4 (156)	52.4 (172)	5.4 (21.4)	5.3 (20.8)	44.2 (1.74) @ 4m/hr	47.8 (1.88) @ 4m/hr
	345 (50)	483 (70)	2.64 (34.8)	3.14 (41.5)	28 (4.1)	40 (5.8)	49.4 (162)	54.8 (180)	5.7 (22.3)	5.5 (21.6)	48.0 (1.89) @ 4m/hr	51.6 (2.03) @ 4m/hr
10.3 (13/32)	345 (50)	483 (70)	2.99 (39.5)	3.55 (46.9)	36 (5.2)	47 (6.8)	51.2 (168)	56.6 (186)	6.0 (23.5)	5.8 (22.8)	52.6 (2.07) @ 4m/hr	56.4 (2.22) @ 4m/hr
	345 (50)	483 (70)	3.37 (44.5)	3.40 (52.8)	46 (6.7)	66 (9.6)	53.0 (174)	58.4 (192)	6.3 (24.7)	6.1 (24.1)	57.2 (2.25) @ 4m/hr	61.5 (2.42) @ 4m/hr
11.1 (7/16)	345 (50)	483 (70)	3.76 (49.6)	4.46 (58.9)	58 (8.4)	80 (11.6)	54.8 (180)	60.4 (198)	6.6 (25.8)	6.4 (25.3)	61.7 (2.43) @ 4m/hr	66.5 (2.62) @ 4m/hr
	345 (50)	483 (70)	4.17 (55.0)	4.94 (65.2)	70 (10.2)	98 (14.2)	56.0 (184)	62.2 (204)	6.9 (27.3)	6.7 (26.3)	66.8 (2.63) @ 4m/hr	71.4 (2.81) @ 4m/hr
11.9 (15/32)	345 (50)	483 (70)	4.59 (60.6)	5.45 (72.0)	85 (12.3)	120 (17.4)	58.8 (192)	63.8 (208)	7.0 (27.6)	7.1 (28.0)	70.6 (2.78) @ 4m/hr	77.5 (3.05) @ 4m/hr
	345 (50)	483 (70)	5.02 (66.2)	5.96 (78.7)	101 (14.7)	144 (20.8)	61.6 (202)	65.2 (214)	6.9 (27.3)	7.3 (28.9)	73.4 (2.89) @ 4m/hr	82.3 (3.24) @ 4m/hr
12.7 (1/2)	345 (50)	483 (70)	6.01 (79.3)	7.12 (94.0)	146 (21.2)	201 (29.2)	61.6 (202)	67.0 (220)	8.3 (32.7)	8.3 (32.6)	87.9 (3.46) @ 4m/hr	95.8 (3.77) @ 4m/hr
	345 (50)	483 (70)	6.01 (79.3)	7.12 (94.0)	146 (21.2)	201 (29.2)	61.6 (202)	67.0 (220)	8.3 (32.7)	8.3 (32.6)	87.9 (3.46) @ 4m/hr	95.8 (3.77) @ 4m/hr

RI-30

Nozzle Diam. Mm (ins)	Sprinkler Pressure kPA (psi)		Flow Rate l/sec (gpm)		Friction Loss in Hose kPa (psi)		Average Application Rate/hr mm (points)						
	40mm	50mm	40mm	50mm	40mm	50mm	11hr Run	23hr Run	47hr Run				
8.7 (11/32)	413 (60)	551 (80)	1.68 (22.2)	1.93 (25.5)	9 (1.3)	12 (1.7)	46 (152)	51 (166)	4.0 (15.6)	4.0 (15.6)	10 (0.40)	21 (0.84)	44 (1.73)
	413 (60)	551 (80)	1.99 (26.3)	2.30 (30.0)	12 (1.8)	16 (2.3)	48 (158)	52 (172)	4.4 (17.3)	4.4 (17.3)	12 (0.46)	24 (0.96)	50 (1.95)
9.5 (3/8)	413 (60)	551 (80)	2.35 (31.0)	2.70 (35.7)	17 (2.4)	22 (3.2)	51 (166)	55 (180)	4.8 (19.0)	4.8 (19.0)	13 (0.52)	27 (1.08)	56 (2.20)
	413 (60)	551 (80)	2.68 (35.4)	3.11 (41.1)	21 (3.1)	30 (4.3)	52 (172)	57 (186)	5.1 (19.9)	5.1 (19.9)	14 (0.57)	30 (1.19)	62 (2.43)
10.3 (13/32)	413 (60)	551 (80)	3.07 (40.5)	3.55 (46.8)	28 (4.1)	37 (5.4)	54 (178)	59 (194)	5.4 (21.3)	5.4 (21.3)	16 (0.62)	33 (1.31)	68 (2.67)
	413 (60)	551 (80)	3.48 (45.9)	4.03 (53.2)	38 (5.5)	56 (8.0)	56 (184)	61 (200)	5.8 (22.7)	5.8 (22.7)	18 (0.69)	36 (1.43)	74 (2.93)
11.1 (7/16)	413 (60)	551 (80)	3.90 (51.5)	4.53 (59.8)	43 (6.3)	65 (9.5)	58 (190)	63 (206)	6.1 (23.9)	6.1 (23.9)	19 (0.75)	40 (1.56)	82 (3.22)
	413 (60)	551 (80)	4.36 (57.5)	5.06 (66.7)	59 (8.6)	79 (11.5)	59 (194)	65 (212)	6.4 (25.2)	6.4 (25.2)	21 (0.81)	43 (1.70)	88 (3.48)
11.9 (15/32)	413 (60)	551 (80)	5.30 (69.9)	6.12 (80.8)	88 (12.7)	114 (16.6)	63 (206)	68 (222)	7.0 (27.7)	7.0 (27.7)	24 (0.94)	50 (1.96)	102 (4.0)
	413 (60)	551 (80)	6.38 (84.2)	7.33 (96.7)	117 (17.0)	147 (21.4)	65 (212)	70 (230)	8.0 (31.6)	8.0 (31.6)	28 (1.10)	58 (2.29)	119 (4.7)
12.7 (1/2)	413 (60)	551 (80)	6.38 (84.2)	7.33 (96.7)	117 (17.0)	147 (21.4)	65 (212)	70 (230)	8.0 (31.6)	8.0 (31.6)	28 (1.10)	58 (2.29)	119 (4.7)
	413 (60)	551 (80)	6.38 (84.2)	7.33 (96.7)	117 (17.0)	147 (21.4)	65 (212)	70 (230)	8.0 (31.6)	8.0 (31.6)	28 (1.10)	58 (2.29)	119 (4.7)

# TRAVELLING IRRIGATORS



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