



# BRIGGS

## IRRIGATION

### R18, R24, R30 & R40 HOSEREEL MOUNTED BOOMS (LANE SPACING 18m TO 60m)



Chart showing lane spacing between runs (m) and pressure requirements on the boom (bar)

Boom Model	End Nozzle Type						
	No nozzle	PCS3000	PCR3000	R55A	Jumbo teso	K1 teso	Luxor
<b>R18</b>	22m *2 bar	26m *2 bar	26m *2 bar	38m *2bar	36m 3 – 3.5 bar	44m 3.5 - 4 bar	44m 3.5 - 4 bar
<b>R24</b>	28m *2 bar	30m *2 bar	30m *2 bar	44m *2bar	42m 3 – 3.5 bar	50m 3.5 - 4 bar	50m 3.5 - 4 bar
<b>R30</b>	34m *2 bar	38m *2 bar	38m *2 bar	50m *2 bar	48m 3 – 3.5 bar	54m 3.5 - 4 bar	54m 3.5 - 4 bar
<b>R40</b>	44m *2 bar	48m *2 bar	48m *2 bar	60m *2 bar	X	X	X

\*The pressure requirement of 2 bar assumes all the standard nozzles are fitted with 1.4 bar pressure regulators.

**R40 WITH OFFSET WATERFEED (ASYMETRIC) – ‘TOP HOOK LIFT’**



**R40 WITH STANDARD CENTRE WATERFEED ‘T-BAR LIFT’**



## CHARTS SHOWING MAXIMUM FIELD SLOPE IN PERCENT

### BOOMS WITH CENTRAL WATERFEED

	R18 & R24	R30	R40
Boom Pulling Uphill	6%	6%	6%
Boom Pulling Downhill	4%	4%	4%
Maximum Side Slope	3%	3%	3%

### BOOMS WITH OFFSET WATERFEED (ASYMETRIC)

	R18 & R24	R30	R40
Boom Pulling Uphill	3%	3%	3%
Boom Pulling Downhill	4%	4%	4%
Maximum Side Slope	3%	3%	2%

VR4 90/500 WITH R40 CENTRE WATERFEED



R30 SLURRY CHASSIS & NOZZLE KIT



### BOOM OPTIONS AVAILABLE

### BOOM MODEL

	R18 & R24	R30	R40
NELSON PRESSURE REGULATED S3000 SPRAYJETS	O	O	O
NELSON PRESSURE REGULATED R3000 ROTATORS	O	O	O
OFFSET WATERFEED	O	O	O
END NOZZLE - PCS3000 OR PCR3000	O	O	O
END NOZZLE - NELSON R55A	O	O	O
END NOZZLE - SIME K1 TESO	O	O	N/A
END NOZZLE - SIME LUXOR	O	O	N/A
BLANKING PLATES WITH CHOICE OF NOZZLE	O	O	O
IN LINE FILTER - BAUER HK 89 OR HK108	O	O	O
TURF WHEEL KIT	O	O	O
DROP PIPE KIT - ( MINIMUM 0.75M SPACING)	O	N/A	N/A
SLURRY NOZZLE KIT & HEAVY DUTY SLURRY CHASSIS	O	O	O
STOPFIN - SIZES AVAILABLE 75, 82, 90, 100, 110, 120 & 125MM	O	O	O

O = optional, S = standard, N/A = not available

## R18,R24, R30, R40 BOOM FEATURES

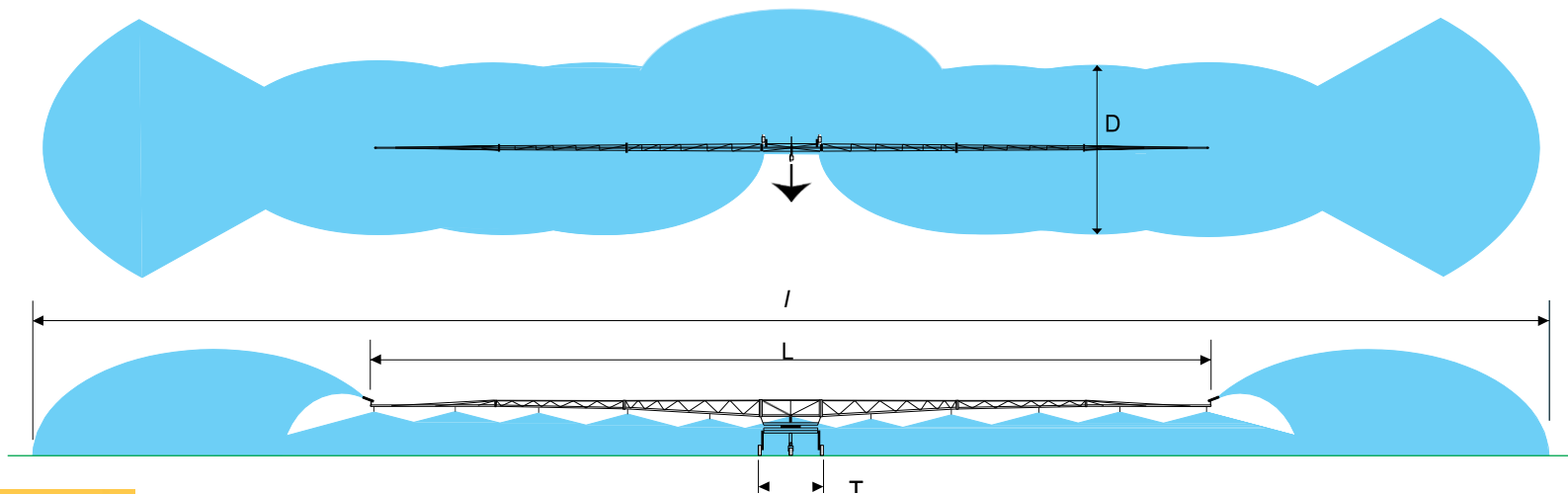
- Up to 60m irrigated width on R40 with Nelson R55A Rotators (2 bar pressure requirement).
- Up to 48m irrigated width on R40 with Nelson PCS3000 180° Spinners or PCR3000 180° Rotators (1 - 2 bar pressure requirement depending on regulator pressure).
- Large choice of sprinklers, sprayjets, slurry options.
- Option of 'offset waterfeed' (1.5 to 2.2m track) or 'standard centre waterfeed' (1.5 to 4.2m track).
- Boom mounted on turntable allowing full 360° rotation on the standard chassis OR up to 30 degrees of boom angle (not full circle) on the optional 'Heavy Duty Chassis'.
- Suitable for mounting on our range of R1/1, R2, VR3, VR4 & VR5 hoses with hose lengths from 200m up to 520m.
- Mild steel and hot dipped galvanised boom sections throughout.
- Reduced width models available to suit different irrigated widths.
- Lightweight, strong and easy to fold and unfold.
- Boom sections must be folded when being moved from run to run on standard chassis but can remain open on 'Heavy Duty Chassis' with 'Top Lift Hooks'.

Chart Showing Boom Travel Speeds For Example Flow Rates (metres/hour)								
Boom size / lane spacing in metres (feet)	Pressure on boom in bar (psi)	Flow rate in m <sup>3</sup> /hr (imp gpm)	Application rate (mm)					
			7.5	10	15	20	25	30
R18/24m (79') 18m wide structure with end S3000 sprayjets or R3000 Rotators	2 (30)	16 (59)	90	68	45	34	28	22
		22 (81)	120	91	61	46	37	30
R24 / 30m (98') 24m wide structure with end S3000 sprayjets or R3000 Rotators	2 (30)	22 (81)	96	73	48	37	29	24
		27 (99)	120	92	60	46	36	30
R30 / 36m (118') 29m wide structure with end S3000 sprayjets or R3000 Rotators	2 (30)	27 (99)	102	76	51	38	30	25
		36 (132)	132	98	66	49	39	33
R30 / 48m (157') 29m wide structure with end sprinklers (Jumbo, K1 or Luxor)	4 (60)	36 (132)	98	74	49	37	30	25
		41 (150)	114	85	57	43	34	28
R40 / 48m (157') 40m wide structure with end S3000 sprayjets or R3000 Rotators	2 (30)	36 (132)	98	74	49	37	30	25
		41 (150)	114	85	57	43	34	28
R40 / 60m (157') 40m wide structure with end Nelson R55A Rotators	2 (30)	41 (150)	91	68	45	34	27	23
		47 (170)	103	77	52	39	31	24
		55 (200)	121	91	61	45	36	30



## BRIGGS BOOM TECHNICAL DATA FOR R18, R24, R30 & R40 HOSEREEL MOUNTED BOOMS

	R18	R24	R30	R40
Boom length (L)	18m (59')	24m (79')	29m (95')	40m (131')
Lane spacing (I) with no end nozzle	22m (72')	28m (92')	34m (111')	44m (144')
Lane spacing (I) with end nozzle PCS or PCR3000	26m (85')	30m (98')	38m (125')	48m (157')
Lane spacing (I) with end nozzle R55A	38m (125')	44m (144')	50m (164')	60m (197')
Lane spacing (I) with end nozzle K1 or Luxor	44m (144')	50m (164')	54m (177')	n/a
Band width (D) (Nelson S3000/R3000)	12m/15m (39'/49')			
Flow - m <sup>3</sup> /hr (imp gpm)	14 – 30 (51 – 110)	14 – 44 (51 – 160)	14 – 50 (51 – 184)	20 – 50 (51 – 184)
Operating pressure with PCS, PCR or Nelson R55A	1 – 2.5 bar (15 – 37 psi)	1 – 2.5 bar (15 – 37 psi)	1 – 2.5 bar (15 – 37 psi)	1 – 2.5 bar (15 – 37 psi)
Operating pressure with Jumbo, K1 or Luxor	3 - 4 bar (45 – 60 psi)	3 - 4 bar (45 – 60 psi)	3 - 4 bar (45 – 60 psi)	3 - 4 bar (45 – 60 psi)
Quantity of outlets	9	11	13	17
Folded length - m (ft)	5m (16'5")	5m (16'5")	5m (16'5")	5.5m (18')
Folded width with 1.5m centre section - m (ft)	2.4m (7'11")	3.0m (9'10")	3.0m (9'10")	n/a
Folded width with 1.9m centre section - m (ft)	2.8m (9'3")	3.4m (11'2")	3.4m (11'2")	3.1m (10'2")
Folded width with 2.2m centre section - m (ft)	3.1m (10'2")	3.7m (12'2")	3.7m (12'2")	3.4m (11'2")
Track width (T) – m (inch) standard chassis / offset	1.5 – 4.2m (60" – 84") / 1.5 – 2.4m (60" – 96")			
Height to nozzle – m (ft)	1.5m (4'11") - **2.28m (7'5") for high crop version in high position			1.5m (4'11")
Height to top of structure – m (ft)	2.12m (7') - **2.9m (9'6") for high crop version in high position			2.37m (7'8")
Weight with standard chassis	400 kg	450 kg	460 kg	620kg
Figures are for reference purposes only and are not binding. We reserve the right to alter specifications without prior notice. ** High crop version available for R18, R24, R30 booms only with standard centre pull chassis.				



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