



BRIGGS

IRRIGATION

R46 HOSEREEL MOUNTED BOOM (LANE SPACING 40m TO 66m)



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
R46/35	38m *2 bar	44m *2 bar	44m *2 bar	55m *2bar	55m 3 – 3.5 bar	60m 3.5 - 4 bar	60m 3.5 - 4 bar
R46/40	44m *2 bar	48m *2 bar	48m *2 bar	60m *2bar	60m 3 – 3.5 bar	65m 3.5 - 4 bar	65m 3.5 - 4 bar
R46/46	50m *2 bar	54m *2 bar	54m *2 bar	66m *2 bar	X	X	X

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

R46/46 WITH OFFSET WATERFEED (ASYMETRIC)



R46/46 WITH STANDARD CENTRE WATERFEED



CHARTS SHOWING MAXIMUM FIELD SLOPE IN PERCENT

BOOMS WITH CENTRAL WATERFEED

	R46/35	R46/40	R46/46
Boom Pulling Uphill	6%	6%	6%
Boom Pulling Downhill	4%	4%	4%
Maximum Side Slope	3%	3%	3%

BOOMS WITH OFFSET WATERFEED (ASYMETRIC)

	R46/35	R46/40	R46/46
Boom Pulling Uphill	3%	3%	3%
Boom Pulling Downhill	4%	4%	4%
Maximum Side Slope	3%	3%	2%

R46/46 IN TRANSPORT POSITION



R46 CHASSIS WITH CENTRE WATERFEED



BOOM OPTIONS AVAILABLE

BOOM MODEL

	R46/35	R46/40	R46/46
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	O	N/A
SLURRY NOZZLE KIT	O	N/A	N/A
STOPFIN - SIZES AVAILABLE 90, 100, 110, 120 & 125MM	O	O	O

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

R46 BOOM FEATURES

- Up to 66m irrigated width with Nelson R55A Rotators (2 bar pressure requirement)
- Up to 54m irrigated width with Nelson PCS3000 180° Spinners or PCR3000 180° Rotators (1 - 2 bar pressure requirement depending on regulator pressure)
- Option of 'offset waterfeed' (1.8 to 2.2m track) or 'centre waterfeed' (1.5 to 4.4m track).
- Boom mounted on turntable allowing up to 30 degrees of boom angle. (not full circle)
- Transport bracket kit to remove 3rd and end sections and transport them under the 1st sections.
- Stainless steel (grade 304) 3rd and end sections for good strength to weight ratio.
- Reduced width models available to suit different irrigated widths.
- Large diameter water tubes for high flow rates and reduced friction loss in the structure.
- Lightweight, strong and easy to fold and unfold.
- Can be moved run to run without folding the boom.

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 ³ /hr (imp gpm)	Application rate (mm)					
			7.5	10	15	20	25	30
R46/35 - 44m (144') 35m wide structure with end Nelson PCS or PCR3000	2 (30)	30 (110)	*91	68	45	34	27	23
		36 (132)	*107	*81	54	40	32	27
		44 (161)	*132	*99	66	50	40	31
R46/35 - 58m (190') 35m wide structure with end K1 or Luxor impact sprinklers	4 (60)	38 (140)	*88	66	44	33	26	22
		47 (170)	*107	*80	53	40	32	27
		55 (200)	*125	*94	63	47	38	31
R46/40 - 48m (157') 40m wide structure with end Nelson PCS or PCR3000	2 (30)	30 (110)	*83	62	42	31	25	21
		36 (132)	*98	74	49	37	30	25
		44 (161)	*121	*91	61	45	36	30
R46/40 - 60m (197') 40m wide structure with with end Nelson R55A Rotators	2 (30)	38 (140)	*85	64	42	32	25	21
		47 (170)	*103	77	52	39	31	26
		55 (200)	*121	*91	61	45	36	30
R46/46 - 54m (177') 46m wide structure with end Nelson PCS or PCR3000	2 (30)	36 (132)	*88	66	44	33	26	22
		44 (161)	*108	*81	54	40	32	27
		52 (190)	*128	*96	64	48	38	32
R46/46 - 66m (216') 46m wide structure with end Nelson R55A Rotators	2 (30)	38 (140)	77	58	39	29	23	19
		47 (170)	*94	70	47	35	28	23
		55 (200)	*110	*83	55	41	33	28

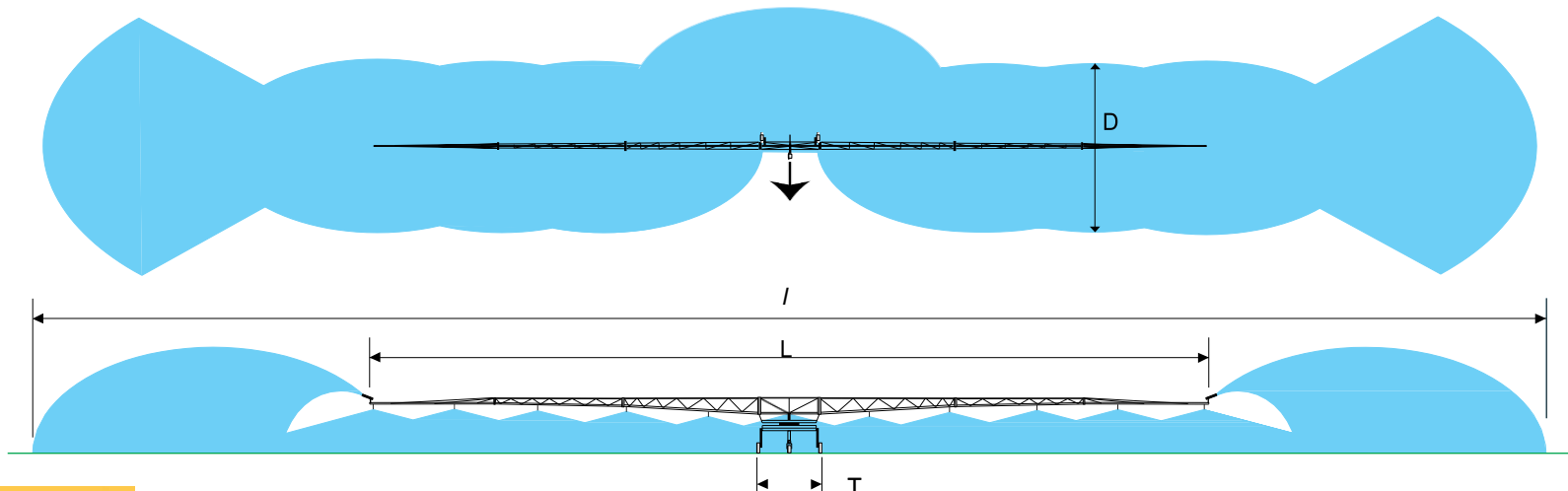
These flow rates are examples only – There are a wide range of flow rates for each model.
*Always check the hoses performance to see if high speeds are attainable.

Briggs Boom Technical Data For R46 Hosereel Mounted Booms

	Boom Model		
	R46/35	R46/40	R46/46
Boom Structural length (L)	35m (115')	40m (131')	46m (151')
Lane spacing (I) with no end nozzle	38m (125')	44m (144')	50m (164')
Lane spacing (I) with end nozzle Nelson PCS or PCR3000	44m (144')	48m (157')	54m (177')
Lane spacing (I) with end nozzle Nelson R55A	55m (180')	60m (196')	66m (216')
Lane spacing (I) with end nozzle K1 or Luxor	60m (196')	65m (213')	N/A
Band width (D) (Nelson S3000/R3000)	12m/15m (39'/49')	12m/15m (39'/49')	12m/15m (39'/49')
Flow range - m ³ /hr (imp gpm)	25 - 60 (90 - 220)	25 - 60 (90 - 220)	25 - 60 (90 - 220)
Operating pressure with end PCS or PCR3000 or R55A	1 - 2 bar (15 - 30 psi)	1 - 2 bar (15 - 30 psi)	1 - 2 bar (15 - 30 psi)
Operating pressure with end sprinkler K1 or Luxor	3 - 4 bar (45 - 60 psi)	3 - 4 bar (45 - 60 psi)	3 - 4 bar (45 - 60 psi)
Quantity of outlets	14	16	18
Folded length - m (ft)	6m (20')	6m (20')	6m (20')
Folded width working position with 2.2m / 2.5m centre section - m (ft)	3.8m / 4.1m (12' 6" / 13' 5")	4.05m / 4.35m (13' 2" / 14' 4")	4.15m/4.45m (13' 7" / 14' 8")
Transport width with 2.2 / 2.5m centre - m (ft) 3 rd & 4 th section removed	3.5m / 3.8m (11' 6" / 12' 6")	3.5m / 3.8m (11' 6" / 12' 6")	3.5m / 3.8m (11' 6" / 12' 6")
* Transport width with 2.2 / 2.5m centre - m (ft) 2 nd , 3 rd , 4 th sections removed	2.9m / 3.2m (9' 6" / 10' 6")	2.9m / 3.2m (9' 6" / 10' 6")	2.9m / 3.2m (9' 6" / 10' 6")
Track width STANDARD CHASSIS - m (inch)	1.5 - 4.2m (60" - 165")	1.5 - 4.2m (60" - 165")	1.5 - 4.2m (60" - 165")
Track width OFFSET (ASYMETRIC) CHASSIS - m (inch)	1.5 - 2.2m (60" - 86")	1.5 - 2.2m (60" - 86")	1.5 - 2.2m (60" - 86")
Height to nozzle in centre of boom -m (in)	1.5m (60")	1.5m (60")	1.5m (60")
Weight with centre pull / offset chassis - kg (imp lb)	545 / 595kg (1200 / 1310lb)	595 / 645kg (1310 / 1420lb)	605 / 655kg (1330 / 1440lb)

Figures are for reference purposes only and are not binding. We reserve the right to alter specifications without prior notice.

* Optional transport bracket kit is required to attain these dimensions



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