



# BRIGGS

## IRRIGATION

### FOUR WHEEL CHASSIS BOOMS (LANE SPACING 50m TO 96m)



**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
R50/2	54m *2 bar	58m *2 bar	58m *2 bar	70m *2bar	68m 3 – 3.5 bar	75m 3.5 - 4 bar	75m 3.5 - 4 bar
R57/2	60m *2 bar	64m *2 bar	64m *2 bar	77m *2bar	75m 3 – 3.5 bar	82m 3.5 - 4 bar	82m 3.5 - 4 bar
R60/2	64m *2 bar	68m *2 bar	68m *2 bar	80m *2bar	78m 3 – 3.5 bar	85m 3.5 - 4 bar	85m 3.5 - 4 bar
R64/2	68m *2 bar	72m *2 bar	72m *2 bar	84m *2bar	82m 3 – 3.5 bar	90m 3.5 - 4 bar	90m 3.5 - 4 bar
R76	80m *2 bar	84m *2 bar	84m *2 bar	96m *2 bar	X	X	X

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

### CHART SHOWING MAXIMUM FIELD SLOPE IN PERCENT

#### BOOMS WITH CENTRAL WATERFEED

	R50/2	R57/2	R60/2	R64/2	R76
Boom Pulling Uphill	6%	6%	6%	6%	3%
Boom Pulling Downhill	4%	4%	4%	4%	2%
Maximum Side Slope	3%	3%	3%	2%	1%

#### BOOMS WITH OFFSET (ASYMETRIC) WATERFEED

	R50/2	R57/2	R60/2	R64/2	R76
Boom Pulling Uphill	3%	3%	3%	3%	2%
Boom Pulling Downhill	4%	4%	4%	4%	2%
Maximum Side Slope	3%	3%	3%	2%	1%

#### BOOM OPTIONS AVAILABLE

#### BOOM MODEL

	R50/2	R57/2	R60/2	R64/2	R76
NELSON PRESSURE REGULATED S3000 SPRAYJETS	O	O	O	O	O
NELSON PRESSURE REGULATED R3000 ROTATORS	O	O	O	O	O
OFFSET WATERFEED ONE END OF CHASSIS	O	O	O	O	O
OFFSET WATERFEED - BOTH ENDS OF CHASSIS	O	O	O	O	O
END NOZZLE - PCS3000 OR PCR3000	O	O	O	O	O
END NOZZLE - NELSON R55A	O	O	O	O	O
END NOZZLE - SIME K1 TESO	O	O	O	O	N/A
END NOZZLE - SIME LUXOR	O	O	O	O	N/A
BLANKING PLATES WITH CHOICE OF NOZZLE	O	O	O	O	O
IN LINE FILTER - BAUER HK 89 OR HK108	O	O	O	O	O
MANUAL RAINGUN MOUNTING KIT	O	O	O	O	N/A
SEMI AUTOMATIC RAINGUN MOUNTING KIT	O	O	O	O	N/A
HYDRAULIC RAISING TOWER - 2.1M CLEARANCE	O	O	O	O	S
HYDRAULIC RAISING TOWER - 3.1M CLEARANCE	O	O	O	O	O
HYDRAULIC ROTATION OF BOOM	O	O	O	O	O
ELECTRO HYDRAULIC OPERATING KIT	O	O	O	O	O
TURF WHEEL KIT AND TURF DRAWBARS	O	O	O	O	O
LARGE WHEELS - 11.5/80-15.3	O	O	O	O	O
DROP PIPE KIT - ( MINIMUM 0.75M SPACING)	O	O	O	N/A	N/A
SLURRY NOZZLE KIT	O	O	O	O	N/A
STOPFIN - SIZES AVAILABLE 90, 100, 110, 120 & 125MM	O	O	O	O	O

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

## 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
R50/2 - 58m (190') 50m wide structure with end Nelson PCS or PCR3000	2 (30)	30 (110)	69	52	34	26	21	17
		36 (132)	*81	61	41	31	24	20
		44 (161)	*100	75	50	38	30	25
R50/2 - 72m (236') 50m wide structure with end K1 or Luxor impact sprinklers	4 (60)	41 (150)	76	57	38	28	23	19
		52 (190)	*96	72	48	36	29	24
		65 (238)	*121	*91	61	45	36	30
R57/2 - 60m (197') 57m wide structure with end Nelson PCS or PCR3000	2 (30)	41 (150)	*91	68	45	34	27	23
		49 (180)	*109	*82	55	41	33	27
		57 (210)	*127	*95	64	48	38	32
R57/2 - 75m (246') 57m wide structure with with end Nelson R55A Rotators	2 (30)	41 (150)	73	55	36	27	22	18
		52 (190)	*92	69	46	35	28	23
		65 (238)	*116	*87	58	44	35	29
R60/2 - 64m (210') 60m wide structure with end Nelson PCS or PCR3000	2 (30)	41 (150)	*85	64	43	32	26	21
		52 (190)	*109	*81	54	40	32	27
		65 (238)	*136	*103	68	51	41	34
R60/2 - 80m (262') 60m wide structure with with end Nelson R55A Rotators	2 (30)	52 (190)	*86	65	43	32	26	22
		65 (238)	*109	*82	55	41	33	27
		80 (293)	*132	*99	66	49	40	33
R64/2 - 72m (236') 64m wide structure with end Nelson PCS or PCR3000	2 (30)	52 (190)	*96	72	48	36	29	24
		65 (238)	*121	*91	61	45	36	30
		80 (293)	*146	*111	73	55	44	37
R64/2 - 90m (295') 64m wide structure with end K1 or Luxor impact sprinklers	4 (60)	52 (190)	77	58	38	29	23	19
		65 (238)	*97	73	48	36	29	24
		80 (293)	*117	*88	59	44	35	29
R76 - 84m (275') 76m wide structure with end Nelson PCS or PCR3000	2 (30)	52 (190)	52	62	41	31	25	21
		65 (238)	*104	78	52	39	31	26
		80 (293)	*126	*94	63	47	38	31
R76 - 96m (315') 76m wide structure with end Nelson R55A Rotators	2 (30)	52 (190)	72	54	36	27	22	17
		65 (238)	*91	68	45	34	27	23
		80 (293)	*110	*82	55	41	33	27

These flow rates are examples only – There are a wide range of flow rates for each model.

\*Always check the hose reel performance to see if high speeds are attainable.

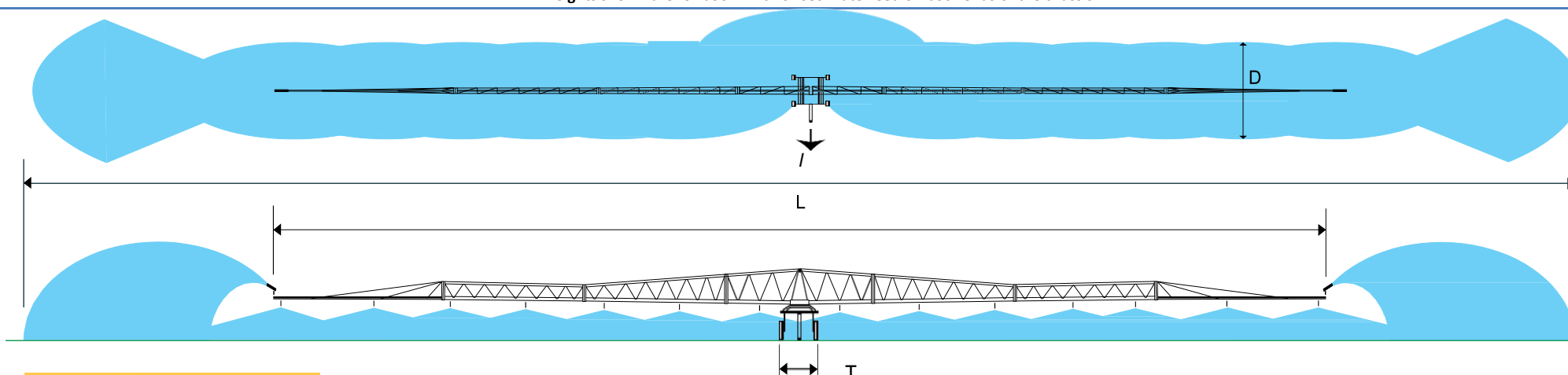


## BRIGGS BOOM TECHNICAL DATA (FOR ALL 4 WHEEL CHASSIS MODELS)

	Boom Model				
	R50/2	R57/2	R60/2	R64/2	R76 HIGH CROP-2.1m
Boom structural length (L)	50m (154')	57m (187')	60m (197')	64m (210')	76m (250')
Lane spacing (I) with no end nozzle	54m (177')	60m (197')	68m (223')	68m (223')	80m (262')
Lane spacing (I) with end nozzle Nelson PCS or PCR3000	58m (190')	64m (210')	68m (223')	72m (236')	84m (275')
Lane spacing (I) with end nozzle Nelson R55A	70m (230)	77m (252)	80m (262')	84m (275')	96m (315')
Lane spacing (I) with end nozzle K1 or Luxor	75m (246')	268m (236')	85m (278')	90m (295')	N/A
Band width (D) (Nelson S3000/R3000)	12m/15m (39'/49')	12m/15m (39'/49')	12m/15m (39'/49')	12m/15m (39'/49')	12m/15m (39'/49')
Flow - m <sup>3</sup> /hr (imp gpm)	22 – 72 (80 – 264)	22 – 72 (80 – 264)	22 – 82 (80 – 300)	22 – 82 (80 – 300)	22 – 82 (80 – 300)
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)	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)	3 – 4 bar (45 – 60 psi)	N/A
Quantity of outlets	18	20	22	22	26
Folded length – m (ft)	7.4m (24'7")	7.4m (24'7")	7.4m (24'7")	7.4m (24'7")	7.4m (24'7")
Folded width – m (ft)	3.5m (11'6")	3.65m (12')	3.65m (12')	3.65m (12')	3.9m (12'8")
Wheelbase (T) – m (ft)	3.8m (12'6")	3.8m (12'6")	3.8m (12'6")	3.8m (12'6")	3.8m (12'6")
Track width – m (inch)	1.5 – 2.2m (60" – 86")	1.5 – 2.2m (60" – 86")	1.5 – 2.2m (60" – 86")	1.5 – 2.2m (60" – 86")	1.5 – 2.2m (60" – 86")
Height to nozzle –m (in)	1.5m (60")	1.5m (60")	1.5m (60")	1.5m (60")	1.5 – 2.1m (60" – 82")
Height to top of structure – m (ft)	2.93m (9'6")	2.93m (9'6")	2.93m (9'6")	2.93m (9'6")	3.6m (15')
Height to top of structure with 3.1m high crop – m (ft)	4.6m (15')	4.6m (15')	4.6m (15')	4.6m (15')	4.6m (15')
*Weight – kg (imp lb)	*1660 kg (3650lb)	*1860 kg (4090lb)	*1865kg (4110lb)	*1870kg (4120lb)	*2050kg (4520lb)
Turning Circle – m (ft)	7.2m (23'6")	7.2m (23'6")	7.2m (23'6")	7.2m (23'6")	7.2m (23'6")

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

\*Weights shown are for boom with offset Waterfeed on both ends of the chassis.



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