



R52C Compact Booms

Models R52C/35, R52C/40, R52C/46 & R52C/52

Lane Spacing 35m to 72m (115' to 236')

4 models ranging in structural width from 35m to 52m (115' to 170'). Irrigation width up to 72m (236') with Nelson R55 VT sprinklers on each end.

Compact

With a folded width of 2.8 metres, the R52C is our narrowest stand-alone type boom, facilitating simple transport from field to field. The optional Travel Kit allows the boom to be towed safely and efficiently at speeds up to 25mph.

Lower Energy Requirement

Reduce operating costs with up to 30% less energy consumption than a raingun.

Gentle on Soil, Gentle on Crop

R52C Booms can be equipped with an extensive range of pressure regulators, sprinklers, and nozzles, providing the optimum droplet size for all types of soil and crop. Controlling droplet size reduces the risk of soil capping, maintaining the soils absorbency for subsequent irrigation or rain.

Uniformity

With low trajectory nozzles positioned closely and evenly along the Boom, the R52C disperses water with exceptional uniformity (even in windy conditions). Uniform water distribution promotes more even germination resulting in higher value harvests.

Lane Spacing Between Runs (m) and Pressure Requirements on the Boom (bar)

		End Nozzle Type						
		No Nozzle	PC-S3030	PC-R3030	R55 VT	Jumbo Teso	K1 Teso	Luxor
Boom Model	R52C/35	38m	44m	44m	55m	55m	60m	60m
		*2 bar	*2 bar	*2 bar	*2 bar	3 – 3.5 bar	3.5 – 4 bar	3.5 – 4 bar
	R52C/40	44m	48m	48m	60m	60m	65m	65m
		*2 bar	*2 bar	*2 bar	*2 bar	3 – 3.5 bar	3.5 – 4 bar	3.5 – 4 bar
	R52C/46	50m	54m	54m	66m	66m	71m	71m
		*2 bar	*2 bar	*2 bar	*2 bar	3 – 3.5 bar	3.5 – 4 bar	3.5 – 4 bar
	R52C/52	56m	60m	60m	72m	/	/	/
		*2 bar	*2 bar	*2 bar	*2 bar			

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

Maximum Field Slope Percentage for Booms with Centre Waterfeed

	Boom Model			
	R52C/35	R52C/40	R52C/46	R52C/52
Boom Pulling Uphill	3%	3%	3%	3%
Boom Pulling Downhill	2%	2%	2%	2%
Maximum Side Slope	2%	2%	2%	2%

Maximum Field Slope Percentage for Booms with Offset (Asymmetric) Waterfeed

	Boom Model			
	R52C/35	R52C/40	R52C/46	R52C/52
Boom Pulling Uphill	3%	3%	3%	3%
Boom Pulling Downhill	2%	2%	2%	2%
Maximum Side Slope	2%	2%	2%	2%

Boom Options (Availability per Model)

	Boom Model			
	R52C/35	R52C/40	R52C/46	R52C/52
Nelson Pressure Regulated S3030 Sprayjets	O	O	O	O
Nelson Pressure Regulated R3030 Rotators	O	O	O	O
Komet Pressure Regulated KPT Sprinklers	O	O	O	O
Offset Waterfeed - One End of Chassis	O	O	O	O
Offset Waterfeed - Both Ends of Chassis	O	O	O	O
End Nozzle – PC-S3030, PC-R3030 OR KPT-180	O	O	O	O
End Nozzle – Nelson R55 VT	O	O	O	O
End Nozzle – SIME K1 Teso	O	O	O	N/A
End Nozzle – SIME Luxor	O	O	O	N/A
Blanking Plates with Choice of Nozzle	O	O	O	O
In Line Filter – Bauer HK 89 OR HK108	O	O	O	O
Manual Raingun Mounting Kit	O	O	O	O
Hydraulic Raising Tower – 3.1m Clearance	O	O	O	O
Hydraulic Rotation of Boom	O	O	O	O
Electrohydraulic Operating Kit	O	O	O	O
Turf Wheel Kit and Turf Drawbars	O	O	O	O
Large Wheels – 11.5/80-15.3	O	O	O	O
Stopfin – Sizes Available 90, 100, 110, 120 & 125mm	O	O	O	O

O = Optional, S = Standard, N/A = Not Available

Boom Travel Speeds for Example Flow Rates – Metres per Hour / Feet per Minute

Model – Lane Spacing in m (ft) Structure Width in m (ft) Type of End Nozzle	Pressure on boom – bar (psi)	Flow rate in m ³ /hr (US gpm)	Application Rate – Millimeters / Inches				
			10 / 0.39	15 / 0.59	20 / 0.79	25 / 1.0	30 / 1.18
R52C/52 – 60m (197') 52m wide structure Nelson PCS or PCR3030 or KPT-180	2 (29)	30 (132)	50/164	33/108	25/82	20/66	17/56
		41 (180)	*68/223	45/148	34/112	27/89	23/75
		52 (229)	*86/282	58/190	43/141	35/115	29/95
R52C/52 – 72m (236') 50m wide structure Nelson R55VT 180 degree rotators	2 (29)	41 (180)	57/187	38/125	28/92	23/75	19/62
		52 (229)	*72/236	48/157	36/118	29/95	24/79
		65 (286)	*91/299	61/200	45/148	36/118	30/98
R52C/46 – 54m (177') 46m wide structure Nelson PCS or PCR3030 or KPT-180	2 (29)	30 (132)	56/184	37/121	28/92	22/72	19/62
		41 (180)	*76/249	51/167	38/125	30/98	25/82
		52 (229)	*96/315	64/210	48/157	38/125	32/105
R52C/46 – 66m (216') 46m wide structure Nelson R55VT 180 degree rotators	2 (29)	41 (150)	62/203	41/135	31/102	25/82	21/69
		52 (190)	*79/259	52/171	39/128	31/102	26/85
		65 (238)	*99/325	66/217	50/164	40/131	33/108
R52C/40 – 48m (157') 40m wide structure Nelson PCS or PCR3030 or KPT-180	2 (29)	30 (132)	62/203	42/138	31/102	25/82	21/69
		36 (158)	*74/243	49/161	37/121	30/98	25/82
		41 (180)	*85/279	57/190	43/141	34/112	28/92
R52C/40 – 60m (197') 40m wide structure Nelson R55VT 180 degree rotators	2 (29)	30 (132)	50/164	33/108	25/82	20/66	17/56
		41 (180)	*68/223	45/148	34/112	27/89	23/75
		52 (229)	*86/282	58/190	43/141	35/115	29/95
R52C/35 – 44m (144') 35m wide structure Nelson PCS or PCR3030 or KPT-180	2 (29)	30 (132)	*68/223	45/148	34/112	27/89	23/75
		36 (158)	*81/267	54/177	40/131	32/105	27/89
		41 (180)	*93/305	62/203	46/151	37/121	31/102
R52C/35 – 55m (180') 35m wide structure Nelson R55VT 180 degree rotators	2 (29)	30 (132)	55/180	36/118	27/89	22/72	19/62
		41 (180)	*74/243	50/164	37/121	30/98	25/82
		52 (229)	*93/305	62/203	47/154	37/121	32/105

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

*Always check the hosereel performance to see if high speeds are attainable.



R52C Boom Technical Data

	Boom Model			
	R52C/35	R52C/40	R52C/46	R52C/52
Boom structural length (L)	35m (115')	40m (131')	46m (151')	52m (170')
Lane spacing (I) with no end nozzle	38m (128')	44m (144')	50m (164')	56m (184')
Lane spacing (I) with end nozzle Nelson PCS or PCR3030	44m (141')	48m (157')	54m (177')	60m (197')
Lane spacing (I) with end nozzle Nelson R55VT	55m (180')	60m (197')	66m (216')	72m (236')
Lane spacing (I) with end nozzle K1 or Luxor	60m (197')	65m (213')	71m (233')	N/A
Band width (D) (Nelson S3030/R3030 OR Komet KPT)	12m/15m (39'/49')	12m/15m (39'/49')	12m/15m (39'/49')	12m/15m (39'/49')
Flow - m³/hr (US gpm)	22 – 60 (97 – 264)	22 – 65 (97 – 286)	22 – 72 (97 - 317)	12m/15m (39'/49')
Operating pressure with end PCS or PCR3030 or R55VT	0.7 – 2 bar (10 – 30 psi)	0.7 – 2 bar (10 – 30 psi)	0.7 – 2 bar (10 – 30 psi)	0.7 – 2 bar (10 – 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)	N/A
Quantity of outlets	14	16	18	20
Folded length without drawbars – m (ft)	6.2m (20'3")	6.2m (20'3")	6.2m (20'3")	6.2m (20'3")
Folded width without removing boom sections – m (ft)	2.5m (8'6")	2.8m (9'6")	2.8m (9'6")	2.8m (9'6")
Wheelbase – m (ft)	2.9m (12'6")	2.9m (12'6")	2.9m (12'6")	2.9m (12'6")
Track width (T) – m (inch)	1.5 – 3.0m (60" – 120")	1.5 – 3.0m (60" – 120")	1.5 – 3.0m (60" – 120")	1.5 – 3.0m (60" – 120")
Height from ground to nozzle –m (in)	1.5m (60")	1.5m (60")	1.5m (60")	1.5m (60")
Height from ground to top of structure – m (ft)	2.5m (8'2")	2.5m (8'2")	2.5m (8'2")	2.5m (8'2")
Height to top with 3.1m high crop – low / high m (ft)	4.32m/5.14m (14'2"/16'10")	4.32m/5.14m (14'2"/16'10")	4.32m/5.14m (14'2"/16'10")	4.32m/5.14m (14'2"/16'10")
*Weight – kg (imp lb)	*1310kg (2880lb)	*1325kg (2915lb)	*1370 kg (3015lb)	*1385 kg (3050lb)
Turning circle – m (ft)	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 Centre Waterfeed on both ends of the chassis.

