











8' - 14' Adjustable Arc Nozzles (45° to 270°)

R-VAN14 8' - 14'					
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h
270° 	30	13	0.84	0.64	0.76
	35	13	0.87	0.66	0.74
	40	14	0.92	0.60	0.71
	<b>45</b>	<b>14</b>	<b>0.94</b>	<b>0.62</b>	<b>0.70</b>
	50	15	1.11	0.63	0.73
210° 	30	13	0.65	0.64	0.76
	35	13	0.68	0.66	0.74
	40	14	0.72	0.60	0.71
	<b>45</b>	<b>14</b>	<b>0.73</b>	<b>0.62</b>	<b>0.70</b>
	50	15	0.86	0.63	0.73
180° 	30	13	0.56	0.64	0.76
	35	13	0.58	0.66	0.74
	40	14	0.61	0.60	0.71
	<b>45</b>	<b>14</b>	<b>0.63</b>	<b>0.62</b>	<b>0.70</b>
	50	15	0.74	0.63	0.73
90° 	30	13	0.28	0.64	0.76
	35	13	0.29	0.66	0.74
	40	14	0.31	0.62	0.71
	<b>45</b>	<b>14</b>	<b>0.32</b>	<b>0.61</b>	<b>0.70</b>
	50	15	0.37	0.63	0.73
55	15	0.39	0.67	0.77	

R-VAN14 2.4 to 4.6m						METRIC
Nozzle	Pressure bar	Radius m	Flow l/m	Precip mm/h	Precip mm/h	
270° 	2.1	4.0	3.18	16	19	
	2.4	4.0	3.29	17	19	
	2.8	4.3	3.48	15	18	
	<b>3.1</b>	<b>4.3</b>	<b>3.56</b>	<b>16</b>	<b>18</b>	
	3.4	4.6	4.20	16	19	
210° 	2.1	4.0	2.46	16	19	
	2.4	4.0	2.57	17	19	
	2.8	4.3	2.73	15	18	
	<b>3.1</b>	<b>4.3</b>	<b>2.76</b>	<b>16</b>	<b>18</b>	
	3.4	4.6	3.26	16	19	
180° 	2.1	4.0	2.12	16	19	
	2.4	4.0	2.20	17	19	
	2.8	4.3	2.31	15	18	
	<b>3.1</b>	<b>4.3</b>	<b>2.38</b>	<b>16</b>	<b>18</b>	
	3.4	4.6	2.80	16	19	
90° 	2.1	4.0	1.06	16	19	
	2.4	4.0	1.10	17	19	
	2.8	4.3	1.17	16	18	
	<b>3.1</b>	<b>4.3</b>	<b>1.21</b>	<b>15</b>	<b>18</b>	
	3.4	4.6	1.40	16	19	
3.8	4.6	1.48	17	20		

8' - 14' Full Circle Nozzles (360°)





R-VAN14-360 8' - 14'					
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h
360° 	30	13	1.10	0.63	0.72
	35	13	1.12	0.64	0.74
	40	14	1.22	0.60	0.69
	<b>45</b>	<b>14</b>	<b>1.27</b>	<b>0.62</b>	<b>0.72</b>
	50	15	1.41	0.60	0.70
55	15	1.45	0.62	0.72	





R-VAN14-360 2.4 to 4.6m						METRIC
Nozzle	Pressure bar	Radius m	Flow l/m	Precip mm/h	Precip mm/h	
360° 	2.1	4.0	4.16	16	18	
	2.4	4.0	4.24	16	19	
	2.8	4.3	4.62	15	18	
	<b>3.1</b>	<b>4.3</b>	<b>4.81</b>	<b>16</b>	<b>18</b>	
	3.4	4.6	5.34	15	18	
3.8	4.6	5.49	16	18		

Note: All R-VAN nozzles tested on 4" (10.2 cm) pop-ups  
 ■ Square spacing based on 50% diameter of throw  
 ▲ Triangular spacing based on 50% diameter of throw


Performance data taken in zero wind conditions  
 R-VAN24 and R-VAN24-360: "Do not reduce the radius below 17' (5.2 m)  
 R-VAN18 and R-VAN18-360: "Do not reduce the radius below 13' (4.0 m)  
 R-VAN14 and R-VAN14-360: "Do not reduce the radius below 8' (2.4 m)


### 13' - 18' Adjustable Arc Nozzles (45° to 270°)

R-VAN18 13' - 18'					
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
270° 	30	16	1.26	0.65	0.75
	35	16	1.35	0.64	0.74
	40	17	1.42	0.63	0.73
	<b>45</b>	<b>17</b>	<b>1.51</b>	<b>0.64</b>	<b>0.73</b>
	50	18	1.57	0.60	0.69
210° 	30	16	0.98	0.63	0.73
	35	16	1.05	0.68	0.78
	40	17	1.10	0.63	0.73
	<b>45</b>	<b>17</b>	<b>1.17</b>	<b>0.64</b>	<b>0.77</b>
	50	18	1.22	0.62	0.72
180° 	30	16	0.85	0.65	0.75
	35	16	0.91	0.64	0.74
	40	17	0.98	0.63	0.73
	<b>45</b>	<b>17</b>	<b>1.01</b>	<b>0.64</b>	<b>0.73</b>
	50	18	1.07	0.60	0.69
90° 	30	16	0.42	0.65	0.75
	35	16	0.47	0.64	0.74
	40	17	0.50	0.63	0.73
	<b>45</b>	<b>17</b>	<b>0.50</b>	<b>0.64</b>	<b>0.73</b>
	50	18	0.54	0.60	0.69
55	18	0.58	0.60	0.69	

R-VAN18 4.0 to 5.5m						METRIC
Nozzle	Pressure bar	Radius m	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
270° 	2.1	4.9	4.77	17	19	
	2.4	4.9	5.11	16	19	
	2.8	5.2	5.38	16	19	
	<b>3.1</b>	<b>5.2</b>	<b>5.72</b>	<b>16</b>	<b>19</b>	
	3.4	5.5	5.94	15	18	
210° 	2.1	4.9	3.71	16	19	
	2.4	4.9	3.97	17	20	
	2.8	5.2	4.16	16	19	
	<b>3.1</b>	<b>5.2</b>	<b>4.43</b>	<b>16</b>	<b>20</b>	
	3.4	5.5	4.62	16	18	
180° 	2.1	4.9	3.22	17	19	
	2.4	4.9	3.44	16	19	
	2.8	5.2	3.71	16	19	
	<b>3.1</b>	<b>5.2</b>	<b>3.82</b>	<b>16</b>	<b>19</b>	
	3.4	5.5	4.05	15	18	
90° 	2.1	4.9	1.59	17	19	
	2.4	4.9	1.78	16	19	
	2.8	5.2	1.89	16	19	
	<b>3.1</b>	<b>5.2</b>	<b>1.89</b>	<b>16</b>	<b>19</b>	
	3.4	5.5	2.04	15	18	
3.8	5.5	2.20	15	18		

### 13' - 18' Full Circle Nozzles (360°)

R-VAN18-360 13' - 18'					
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
360° 	30	16	1.65	0.62	0.72
	35	16	1.67	0.63	0.73
	40	17	1.80	0.60	0.69
	<b>45</b>	<b>17</b>	<b>1.85</b>	<b>0.62</b>	<b>0.71</b>
	50	18	2.05	0.61	0.70
55	18	2.11	0.63	0.72	

R-VAN18-360 4.0 to 5.5m						METRIC
Nozzle	Pressure bar	Radius m	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
360° 	2.1	4.9	6.25	16	18	
	2.4	4.9	6.32	16	19	
	2.8	5.2	6.81	15	18	
	<b>3.1</b>	<b>5.2</b>	<b>7.00</b>	<b>16</b>	<b>18</b>	
	3.4	5.5	7.76	15	18	
3.8	5.5	7.99	16	18		

**Note:** All R-VAN nozzles tested on 4" (10.2 cm) pop-ups  
 ■ Square spacing based on 50% diameter of throw  
 ▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions  
 R-VAN24 and R-VAN24-360: "Do not reduce the radius below 17" (5.2 m)  
 R-VAN18 and R-VAN18-360: "Do not reduce the radius below 13" (4.0 m)  
 R-VAN14 and R-VAN14-360: "Do not reduce the radius below 8" (2.4 m)





### Did you know?





#### You can use R-VAN Nozzles and 5000 Series MPR Rotors on the same zone!

- Matched precipitation rate (MPR) from 8' to 35'
- Superior coverage – >0.70 DU[LQ]
- Thick, wind-resistant streams – near to far





17' - 24' Adjustable Arc Nozzles (45° to 270°)

R-VAN24		17' - 24'				
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h	
270° 	30	19	1.80	0.64	0.74	
	35	20	1.95	0.63	0.72	
	40	22	2.31	0.61	0.71	
	<b>45</b>	<b>23</b>	<b>2.52</b>	<b>0.61</b>	<b>0.71</b>	
	50	24	2.82	0.63	0.73	
55	24	2.88	0.64	0.74		
210° 	30	19	1.40	0.64	0.74	
	35	20	1.52	0.63	0.72	
	40	22	1.80	0.61	0.71	
	<b>45</b>	<b>23</b>	<b>1.96</b>	<b>0.61</b>	<b>0.71</b>	
	50	24	2.19	0.63	0.73	
55	24	2.24	0.64	0.74		
180° 	30	19	1.20	0.64	0.74	
	35	20	1.30	0.63	0.72	
	40	22	1.54	0.61	0.71	
	<b>45</b>	<b>23</b>	<b>1.68</b>	<b>0.61</b>	<b>0.71</b>	
	50	24	1.88	0.63	0.73	
55	24	1.92	0.64	0.74		
90° 	30	19	0.60	0.64	0.74	
	35	20	0.65	0.63	0.72	
	40	22	0.77	0.61	0.71	
	<b>45</b>	<b>23</b>	<b>0.84</b>	<b>0.61</b>	<b>0.71</b>	
	50	24	0.94	0.63	0.73	
55	24	0.96	0.64	0.74		

R-VAN24		5.2 to 7.3m				METRIC
Nozzle	Pressure bar	Radius m	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
270° 	2.1	5.8	6.81	16	19	
	2.4	6.1	7.38	16	18	
	2.8	6.7	8.74	15	18	
	<b>3.1</b>	<b>7.0</b>	<b>9.54</b>	<b>15</b>	<b>18</b>	
	3.4	7.3	10.67	16	19	
3.8	7.3	10.90	16	19		
210° 	2.1	5.8	5.30	16	19	
	2.4	6.1	5.75	16	18	
	2.8	6.7	6.81	15	18	
	<b>3.1</b>	<b>7.0</b>	<b>7.42</b>	<b>15</b>	<b>18</b>	
	3.4	7.3	8.29	16	19	
3.8	7.3	8.48	16	19		
180° 	2.1	5.8	4.54	16	19	
	2.4	6.1	4.92	16	18	
	2.8	6.7	5.83	15	18	
	<b>3.1</b>	<b>7.0</b>	<b>6.36</b>	<b>15</b>	<b>18</b>	
	3.4	7.3	7.12	16	19	
3.8	7.3	7.27	16	19		
90° 	2.1	5.8	2.27	16	19	
	2.4	6.1	2.46	16	18	
	2.8	6.7	2.91	15	18	
	<b>3.1</b>	<b>7.0</b>	<b>3.18</b>	<b>15</b>	<b>18</b>	
	3.4	7.3	3.56	16	19	
3.8	7.3	3.63	16	19		

17' - 24' Full Circle Nozzles (360°)

R-VAN24-360		17' - 24'				
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h	
360° 	30	19	2.35	0.63	0.72	
	35	20	2.52	0.61	0.70	
	40	22	3.13	0.62	0.72	
	<b>45</b>	<b>23</b>	<b>3.48</b>	<b>0.63</b>	<b>0.73</b>	
	50	24	3.61	0.60	0.70	
	55	24	3.74	0.62	0.72	

R-VAN24-360		5.2 to 7.3m				METRIC
Nozzle	Pressure bar	Radius m	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
360° 	2.1	5.8	8.90	16	18	
	2.4	6.1	9.54	15	18	
	2.8	6.7	11.85	16	18	
	<b>3.1</b>	<b>7.0</b>	<b>13.17</b>	<b>16</b>	<b>19</b>	
	3.4	7.3	13.67	15	18	
	3.8	7.3	14.16	16	18	

Note: All R-VAN nozzles tested on 4" (10.2 cm) pop-ups

- Square spacing based on 50% diameter of throw
- ▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions

- R-VAN24 and R-VAN24-360: "Do not reduce the radius below 17' (5,2 m)
- R-VAN18 and R-VAN18-360: "Do not reduce the radius below 13' (4,0 m)
- R-VAN14 and R-VAN18-360: "Do not reduce the radius below 8' (2,4 m)

R-VAN Requires Half the Models to Cover 45° to 360°



Offering Valuable Bottom-Line Savings

- Shorter zone run times save water and energy
- Lower precipitation rates reduce wasteful runoff and costly erosion
- Fewer nozzles needed to cover any area, reducing your inventory costs

### Strip Nozzles (Left Corner, Side, Right Corner)

R-VAN-LCS 5' x 15'					
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h
Left Corner Strip	30	4'x14'	0.18	0.62	0.62
	35	5'x15'	0.22	0.56	0.56
	40	5'x15'	0.23	0.59	0.59
	<b>45</b>	<b>5'x15'</b>	<b>0.24</b>	<b>0.62</b>	<b>0.62</b>
	50	5'x15'	0.25	0.64	0.64
	55	6'x16'	0.28	0.56	0.56

R-VAN-LCS 1.5 x 4.6m METRIC					
Nozzle	Pressure bar	Size m	Flow l/m	Precip mm/h	Precip mm/h
Left Corner Strip	2.1	1.2x4.3	0.68	16	16
	2.4	1.5x4.6	0.83	14	14
	2.8	1.5x4.6	0.87	15	15
	<b>3.1</b>	<b>1.5x4.6</b>	<b>0.91</b>	<b>16</b>	<b>16</b>
	3.4	1.5x4.6	0.95	16	16
	3.8	1.8x4.9	1.06	14	14

R-VAN-SST 5' x 30'					
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h
Side Strip	30	4'x28'	0.36	0.62	0.62
	35	5'x30'	0.44	0.56	0.56
	40	5'x30'	0.46	0.59	0.59
	<b>45</b>	<b>5'x30'</b>	<b>0.48</b>	<b>0.62</b>	<b>0.62</b>
	50	5'x30'	0.50	0.64	0.64
	55	6'x32'	0.56	0.56	0.56

R-VAN-SST 1.5 x 9.1m METRIC					
Nozzle	Pressure bar	Size m	Flow l/m	Precip mm/h	Precip mm/h
Side Strip	2.1	1.2x8.5	1.36	16	16
	2.4	1.5x9.1	1.67	14	14
	2.8	1.5x9.1	1.74	15	15
	<b>3.1</b>	<b>1.5x9.1</b>	<b>1.82</b>	<b>16</b>	<b>16</b>
	3.4	1.5x9.1	1.89	16	16
	3.8	1.8x9.8	2.12	14	14

R-VAN-RCS 5' x 15'					
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h
Right Corner Strip	30	4'x14'	0.18	0.62	0.62
	35	5'x15'	0.22	0.56	0.56
	40	5'x15'	0.23	0.59	0.59
	<b>45</b>	<b>5'x15'</b>	<b>0.24</b>	<b>0.62</b>	<b>0.62</b>
	50	5'x15'	0.25	0.64	0.64
	55	6'x16'	0.28	0.56	0.56

R-VAN-RCS 1.5 x 4.6m METRIC					
Nozzle	Pressure bar	Size m	Flow l/m	Precip mm/h	Precip mm/h
Right Corner Strip	2.1	1.2x4.3	0.68	16	16
	2.4	1.5x4.6	0.83	14	14
	2.8	1.5x4.6	0.87	15	15
	<b>3.1</b>	<b>1.5x4.6</b>	<b>0.91</b>	<b>16</b>	<b>16</b>
	3.4	1.5x4.6	0.95	16	16
	3.8	1.8x4.9	1.06	14	14

Note: All R-VAN nozzles tested on 4" (10.2 cm) pop-ups  
Performance data taken in zero wind conditions

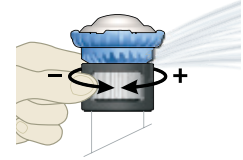
— Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS  
▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

### Easy Adjustments

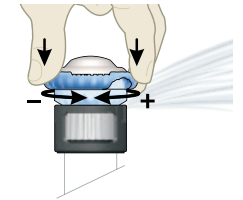
#### Adjustable Arc Nozzles

R-VAN14, R-VAN18, R-VAN24

#### RADIUS ADJUSTMENT



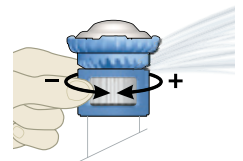
#### ARC ADJUSTMENT



#### Full Circle Nozzles

R-VAN14-360, R-VAN18-360, RVAN24-360

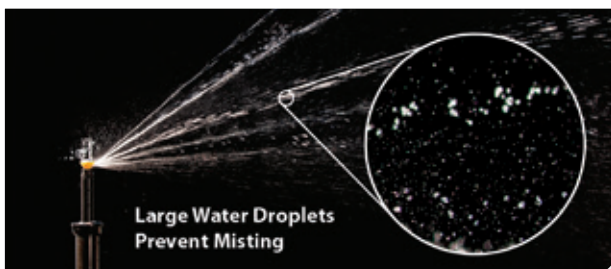
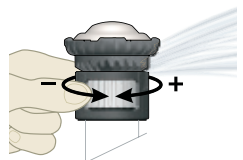
#### RADIUS ADJUSTMENT



#### Strip Nozzles

R-VAN-LCS, R-VAN-RCS, R-VAN-SST

#### SIZE ADJUSTMENT



### Improving Watering Efficiencies Up to 30%

- Gentle, rotating streams create uniform coverage at lower precipitation rates
- Multi-stream technology optimizes absorption for healthier lawns
- Larger droplets and thicker streams cut through wind and keep water in target zone