

The following table shows the maximum number of sprinkler heads that can be connected to a single lateral of LDPE tubing with nominal ID of 13 19, 25 or 32mm.

Calculations are based on inlet pressure at the Rotor Rain Plus head of 150 kPa and maximum friction loss of 40 kPa.

Theoretical figures are based on a single lateral on flat ground and do not account for losses that may result from fittings such as joiners, tees, elbows etc.

Data should not be used to design a series of laterals connected to submain.

This data is for use as a ready reckoner only and does not replace professional system design.

The second table shows the maximum run length for a single lateral of LDPE tubing with nominal ID of 13 19, 25 or 32mm based on head spacing from first table.

**ROTOR RAIN PLUS STANDARD - MAXIMUM HEADS**

|             | Pipe ID | BROWN 0.8 mm (27 lph) |       |       |       | DARK BLUE 0.9 mm (35 lph) |       |       |       | GREY 1.1 mm (54 lph) |       |       |       | BLACK 1.2 mm (65 lph) |       |       |       | ORANGE 1.4 mm (87 lph) |       |       |       |
|-------------|---------|-----------------------|-------|-------|-------|---------------------------|-------|-------|-------|----------------------|-------|-------|-------|-----------------------|-------|-------|-------|------------------------|-------|-------|-------|
|             |         | 13 mm                 | 19 mm | 25 mm | 32 mm | 13 mm                     | 19 mm | 25 mm | 32 mm | 13 mm                | 19 mm | 25 mm | 32 mm | 13 mm                 | 19 mm | 25 mm | 32 mm | 13 mm                  | 19 mm | 25 mm | 32 mm |
| Spacing (m) | 2m      | 26                    | 49    | 79    | 121   | 22                        | 42    | 67    | 102   | 16                   | 31    | 50    | 78    | 14                    | 28    | 45    | 68    | 12                     | 23    | 37    | 57    |
|             | 2.5m    | 24                    | 46    | 73    | 112   | 20                        | 39    | 62    | 95    | 15                   | 29    | 46    | 72    | 13                    | 26    | 42    | 63    | 11                     | 21    | 34    | 53    |
|             | 3m      | 22                    | 43    | 69    | 106   | 19                        | 36    | 58    | 89    | 14                   | 27    | 44    | 68    | 12                    | 24    | 39    | 59    | 10                     | 20    | 32    | 49    |
|             | 3.5m    | 21                    | 40    | 65    | 99    | 18                        | 35    | 55    | 85    | 13                   | 25    | 42    | 63    | 11                    | 23    | 37    | 56    | 9                      | 19    | 30    | 46    |
|             | 4m      | 20                    | 38    | 62    | 94    | 17                        | 33    | 53    | 80    | 12                   | 24    | 40    | 60    | 11                    | 22    | 35    | 53    | 9                      | 18    | 29    | 44    |
|             | 4.5m    | 19                    | 37    | 59    | 90    | 16                        | 31    | 50    | 77    | 12                   | 23    | 38    | 58    | 10                    | 21    | 33    | 51    | 8                      | 17    | 28    | 42    |
|             | 5m      | 18                    | 36    | 57    | 87    | 15                        | 30    | 48    | 75    | 11                   | 23    | 36    | 56    | 10                    | 20    | 32    | 49    | 8                      | 16    | 27    | 40    |
|             | 5.5m    | 18                    | 34    | 55    | 84    | 15                        | 29    | 47    | 72    | 11                   | 22    | 35    | 54    | 10                    | 19    | 31    | 48    | 8                      | 16    | 26    | 39    |
|             | 6m      | 17                    | 33    | 53    | 82    | 14                        | 28    | 45    | 70    | 11                   | 21    | 34    | 52    | 9                     | 19    | 30    | 47    | 8                      | 15    | 25    | 38    |
|             | 6.5m    | 17                    | 33    | 52    | 80    | 14                        | 27    | 44    | 68    | 10                   | 20    | 33    | 51    | 9                     | 18    | 29    | 46    | 7                      | 15    | 24    | 37    |

**ROTOR RAIN PLUS STANDARD - MAXIMUM RUN LENGTH (m)**

|             | Pipe ID | BROWN 0.8 mm (27 lph) |       |       |       | DARK BLUE 0.9 mm (35 lph) |       |       |       | GREY 1.1 mm (54 lph) |       |       |       | BLACK 1.2 mm (65 lph) |       |       |       | ORANGE 1.4 mm (87 lph) |       |       |       |
|-------------|---------|-----------------------|-------|-------|-------|---------------------------|-------|-------|-------|----------------------|-------|-------|-------|-----------------------|-------|-------|-------|------------------------|-------|-------|-------|
|             |         | 13 mm                 | 19 mm | 25 mm | 32 mm | 13 mm                     | 19 mm | 25 mm | 32 mm | 13 mm                | 19 mm | 25 mm | 32 mm | 13 mm                 | 19 mm | 25 mm | 32 mm | 13 mm                  | 19 mm | 25 mm | 32 mm |
| Spacing (m) | 2m      | 51                    | 97    | 157   | 241   | 43                        | 83    | 133   | 203   | 31                   | 61    | 99    | 155   | 27                    | 55    | 89    | 135   | 23                     | 45    | 73    | 113   |
|             | 2.5m    | 59                    | 114   | 182   | 279   | 49                        | 97    | 154   | 237   | 37                   | 72    | 114   | 179   | 32                    | 64    | 104   | 157   | 27                     | 52    | 84    | 132   |
|             | 3m      | 65                    | 128   | 206   | 317   | 56                        | 107   | 173   | 266   | 41                   | 80    | 131   | 203   | 35                    | 71    | 116   | 176   | 29                     | 59    | 95    | 146   |
|             | 3.5m    | 73                    | 139   | 227   | 346   | 62                        | 122   | 192   | 297   | 45                   | 87    | 146   | 220   | 38                    | 80    | 129   | 195   | 31                     | 66    | 104   | 160   |
|             | 4m      | 79                    | 151   | 247   | 375   | 67                        | 131   | 211   | 319   | 47                   | 95    | 159   | 239   | 43                    | 87    | 139   | 211   | 35                     | 71    | 115   | 175   |
|             | 4.5m    | 85                    | 166   | 265   | 404   | 71                        | 139   | 224   | 346   | 53                   | 103   | 170   | 260   | 44                    | 94    | 148   | 229   | 35                     | 76    | 125   | 188   |
|             | 5m      | 89                    | 179   | 284   | 434   | 74                        | 149   | 239   | 374   | 54                   | 114   | 179   | 279   | 49                    | 99    | 159   | 244   | 39                     | 79    | 134   | 199   |
|             | 5.5m    | 98                    | 186   | 302   | 461   | 82                        | 159   | 258   | 395   | 60                   | 120   | 192   | 296   | 54                    | 104   | 170   | 263   | 43                     | 87    | 142   | 214   |
|             | 6m      | 101                   | 197   | 317   | 491   | 83                        | 167   | 269   | 419   | 65                   | 125   | 203   | 311   | 53                    | 113   | 179   | 281   | 47                     | 89    | 149   | 227   |
|             | 6.5m    | 110                   | 214   | 337   | 519   | 90                        | 175   | 285   | 441   | 64                   | 129   | 214   | 331   | 58                    | 116   | 188   | 298   | 45                     | 97    | 155   | 240   |

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The second table shows the maximum run length for a single lateral of LDPE tubing with nominal ID of 13 19, 25 or 32mm based on head spacing from first table.

**ROTOR RAIN PLUS STANDARD - MAXIMUM HEADS**

|             | Pipe ID | RED 1.6 mm (116 lph) |       |       |       | LIGHT BLUE 1.8 mm (149 lph) |       |       |       | YELLOW 2.0 mm (184 lph) |       |       |       | PURPLE 2.3 mm (247 lph) |       |       |       | OLIVE 2.5 mm (291 lph) |       |       |       |
|-------------|---------|----------------------|-------|-------|-------|-----------------------------|-------|-------|-------|-------------------------|-------|-------|-------|-------------------------|-------|-------|-------|------------------------|-------|-------|-------|
|             |         | 13 mm                | 19 mm | 25 mm | 32 mm | 13 mm                       | 19 mm | 25 mm | 32 mm | 13 mm                   | 19 mm | 25 mm | 32 mm | 13 mm                   | 19 mm | 25 mm | 32 mm | 13 mm                  | 19 mm | 25 mm | 32 mm |
| Spacing (m) | 2m      | 9                    | 19    | 31    | 47    | 8                           | 16    | 26    | 40    | 7                       | 14    | 23    | 35    | 6                       | 11    | 18    | 29    | 5                      | 10    | 17    | 26    |
|             | 2.5m    | 9                    | 17    | 28    | 43    | 7                           | 15    | 24    | 37    | 6                       | 13    | 21    | 32    | 5                       | 10    | 17    | 27    | 4                      | 9     | 15    | 24    |
|             | 3m      | 8                    | 16    | 26    | 41    | 7                           | 14    | 22    | 35    | 6                       | 12    | 19    | 30    | 5                       | 10    | 16    | 25    | 4                      | 9     | 14    | 22    |
|             | 3.5m    | 8                    | 15    | 25    | 39    | 6                           | 13    | 21    | 33    | 5                       | 11    | 18    | 28    | 4                       | 9     | 15    | 23    | 4                      | 8     | 13    | 21    |
|             | 4m      | 7                    | 14    | 24    | 37    | 6                           | 12    | 20    | 31    | 5                       | 11    | 17    | 27    | 4                       | 9     | 14    | 22    | 4                      | 8     | 13    | 20    |
|             | 4.5m    | 7                    | 14    | 23    | 35    | 6                           | 12    | 19    | 29    | 5                       | 10    | 16    | 26    | 4                       | 8     | 14    | 21    | 3                      | 7     | 12    | 19    |
|             | 5m      | 7                    | 13    | 22    | 34    | 5                           | 11    | 18    | 28    | 5                       | 10    | 16    | 25    | 4                       | 8     | 13    | 21    | 3                      | 7     | 12    | 18    |
|             | 5.5m    | 6                    | 13    | 21    | 33    | 5                           | 11    | 18    | 28    | 5                       | 9     | 15    | 24    | 4                       | 8     | 13    | 20    | 3                      | 7     | 11    | 18    |
|             | 6m      | 6                    | 13    | 20    | 32    | 5                           | 11    | 17    | 27    | 5                       | 9     | 15    | 23    | 3                       | 7     | 12    | 19    | 3                      | 6     | 11    | 17    |
|             | 6.5m    | 6                    | 12    | 20    | 31    | 5                           | 10    | 17    | 27    | 4                       | 9     | 15    | 23    | 3                       | 7     | 12    | 19    | 3                      | 6     | 11    | 17    |

**ROTOR RAIN PLUS STANDARD - MAXIMUM RUN LENGTH (m)**

|             | Pipe ID | RED 1.6 mm (116 lph) |       |       |       | LIGHT BLUE 1.8 mm (149 lph) |       |       |       | YELLOW 2.0 mm (184 lph) |       |       |       | PURPLE 2.3 mm (247 lph) |       |       |       | OLIVE 2.5 mm (291 lph) |       |       |       |
|-------------|---------|----------------------|-------|-------|-------|-----------------------------|-------|-------|-------|-------------------------|-------|-------|-------|-------------------------|-------|-------|-------|------------------------|-------|-------|-------|
|             |         | 13 mm                | 19 mm | 25 mm | 32 mm | 13 mm                       | 19 mm | 25 mm | 32 mm | 13 mm                   | 19 mm | 25 mm | 32 mm | 13 mm                   | 19 mm | 25 mm | 32 mm | 13 mm                  | 19 mm | 25 mm | 32 mm |
| Spacing (m) | 2m      | 17                   | 37    | 61    | 93    | 15                          | 31    | 51    | 79    | 13                      | 27    | 45    | 69    | 11                      | 21    | 35    | 57    | 9                      | 19    | 33    | 51    |
|             | 2.5m    | 22                   | 42    | 69    | 107   | 17                          | 37    | 59    | 92    | 14                      | 32    | 52    | 79    | 12                      | 24    | 42    | 67    | 9                      | 22    | 37    | 59    |
|             | 3m      | 23                   | 47    | 77    | 122   | 20                          | 41    | 65    | 104   | 17                      | 35    | 56    | 89    | 14                      | 29    | 47    | 74    | 11                     | 26    | 41    | 65    |
|             | 3.5m    | 27                   | 52    | 87    | 136   | 20                          | 45    | 73    | 115   | 17                      | 38    | 62    | 97    | 13                      | 31    | 52    | 80    | 13                     | 27    | 45    | 73    |
|             | 4m      | 27                   | 55    | 95    | 147   | 23                          | 47    | 79    | 123   | 19                      | 43    | 67    | 107   | 15                      | 35    | 55    | 87    | 15                     | 31    | 51    | 79    |
|             | 4.5m    | 31                   | 62    | 103   | 157   | 26                          | 53    | 85    | 130   | 22                      | 44    | 71    | 116   | 17                      | 35    | 62    | 94    | 13                     | 31    | 53    | 85    |
|             | 5m      | 34                   | 64    | 109   | 169   | 24                          | 54    | 89    | 139   | 24                      | 49    | 79    | 124   | 19                      | 39    | 64    | 104   | 14                     | 34    | 59    | 89    |
|             | 5.5m    | 32                   | 71    | 115   | 181   | 27                          | 60    | 98    | 153   | 27                      | 49    | 82    | 131   | 21                      | 43    | 71    | 109   | 16                     | 38    | 60    | 98    |
|             | 6m      | 35                   | 77    | 119   | 191   | 29                          | 65    | 101   | 161   | 29                      | 53    | 89    | 137   | 17                      | 41    | 71    | 113   | 17                     | 35    | 65    | 101   |
|             | 6.5m    | 38                   | 77    | 129   | 201   | 32                          | 64    | 110   | 175   | 25                      | 58    | 97    | 149   | 19                      | 45    | 77    | 123   | 19                     | 38    | 71    | 110   |