



# 7 SERIES MICRO SPRINKLERS



## SPINNER

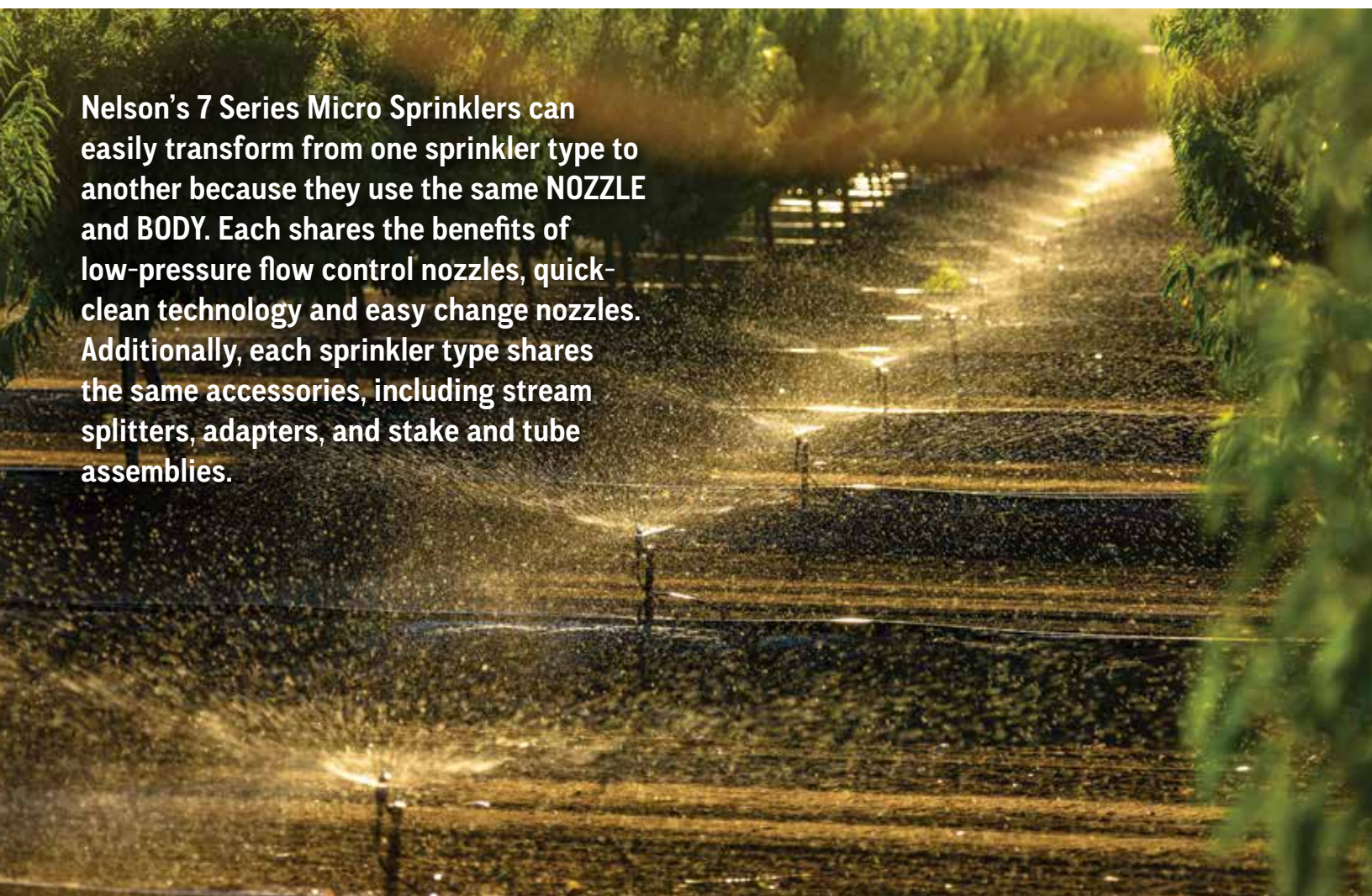
15-50 psi (1.0-3.4 bar)  
8.5-75 gph (32-285 lph)  
9-16' (2.7-4.9 m)



## ROTATOR®

25-50 psi (1.7-3.4 bar)  
11.7-51.1 gph (45-150 lph)  
15-22' (4.5-6.7 m)

Nelson's 7 Series Micro Sprinklers can easily transform from one sprinkler type to another because they use the same **NOZZLE** and **BODY**. Each shares the benefits of low-pressure flow control nozzles, quick-clean technology and easy change nozzles. Additionally, each sprinkler type shares the same accessories, including stream splitters, adapters, and stake and tube assemblies.







**SAID AND DONE - THE S7 SPINNER DELIVERS LOWER ENERGY AND LABOR COSTS AND A HIGHER LEVEL OF QUALITY, RELIABILITY AND DURABILITY THAN ANY OTHER MICRO SPRINKLER. THE R7 ROTATOR® PROVIDES LOW APPLICATION RATE FULL COVERAGE IRRIGATION WITH THE HIGHEST UNIFORMITY.**



#### **FLOW REGULATION AT LOWER PRESSURE**

7FC flow control nozzles are flow regulating from 15-50 PSI.



#### **QUICK-CLEAN TECHNOLOGY**

Simply turn, flush and reconnect sprinkler — save time and money by reducing labor.



#### **SUPERIOR WEAR LIFE**

Designed with heavy-duty ball at the top of the spin plate, ensuring durability and longevity.

# S7 SPINNER



NOZZLE	7FC NOZZLE
*30 Black	*09 (8.5) GPH Orange
*35 Orange	*11 GPH Blue
*40 Blue	*14 GPH Purple
*45 Purple	*18 GPH Yellow
*50 Green	*24 GPH Red
*55 Yellow	
*60 Light Red	
*65 Gray	
*70 White	
*78 Dk. Blue	

STANDARD **12890-XXXX**  
FLOW CONTROL **12891-XXXX**

BLUE PLATE	PURPLE PLATE	BLACK PLATE	TAN PLATE
Without Tab = <b>21</b>	Without Tab = <b>23</b>	Without Tab = <b>25</b>	Without Tab = <b>27</b>
With Tab = <b>22</b>	With Tab = <b>24</b>	With Tab = <b>26</b>	With Tab = <b>28</b>

## PLATE DESCRIPTIONS:

(Please see the S7 Literature for recommended pressures.)

**BLUE:** Greatest throw radius, recommended with all nozzles except \*30 and \*35.

**PURPLE:** For low pressure and low flow, recommended with only \*35 and 8.5 FC nozzles.

**BLACK:** Mid-range radius and flat trajectory, use with \*35 to \*60, and 8.5, 11, 14, 18, and 24 FC nozzles.

**TAN:** Short radius and flat trajectory, use with \*35 to \*55, and 8.5, 11, 14, 18, and 24 FC nozzles.



DESCRIPTION	Standard S7 Assy including Plate & Nozzle	S7 Assembly including Plate & FCN Nozzle	QC x 1/2 MNPT 13064-001	QC x 3/8 MNPT 13064-002
BOX	12x12x10"	12x12x10"	12x12x10"	12x12x8"
QTY/BOX	600	600	1400	1500
LBS/BOX	17	17	14	11



### S7 Plate Without Tab

Blue #12716-001  
Purple #13184-001  
Black #13448-001  
Tan #13729-001



### S7 Plate With Tab

Blue #12716-002  
Purple #13184-002  
Black #13448-002  
Tan #13729-002

Flow Control  
7FC Nozzle  
#12720-0xx



\*(xx = 8.5 (09), 11, 14, 18, & 24 GPH)



Standard  
1TN Nozzle  
#12721-0xx

\*(xx = 35, 40, 45, 50, 55, 60, 65, 70, 78)

QC x 1/2  
MNPT  
#13064-001

QC x 3/8  
MNPT  
#13064-002



Adapter for  
SuperNet Stake,  
QC x .256" OD Tube  
#12882-001

QC x Acme with Screen  
(Connects to 1/2 PVC-4,  
1/2 PVC-5, FT2, FT3) #12972



One-Sided S7 Stream Splitter  
#13149



Two-Sided S7 Stream Splitter  
#13150



Trellis Clip (pg. 5)  
#13862



# UQC-4 & UQC-5 UNIVERSAL MOUNTING OPTIONS

1. Start with **UQC Assembly** (INCLUDES UQC ADAPTER + TUBE & LTO)

Tube Size	Part Number	Tube Length
4mm	13092-012	12 (30 cm)
	13092-018	18 (45 cm)
	13092-024	24 (61 cm)
	13092-030	30 (76 cm)
	13092-048	48 (122 cm)
5mm	13091-024	24 (61 cm)
	13091-030	30 (76 cm)
	13091-048	48 (122 cm)
	13091-072	72 (183 cm)

2. Then order the other components B (STAKE), E (OTHER) separately. Or order all components individually.  
Recommended Max flow for 4 mm = 20 gph (76 lph); or 5 mm = 40 gph (151 lph)

HANGING S7 FROM POLY LATERALS	ROD STAKE FOR 7 SERIES	PVC STAKE FOR 7 SERIES
	<p>14000 Universal Rod Stake Install</p>	<p>13784 Universal Tubing Guide</p>

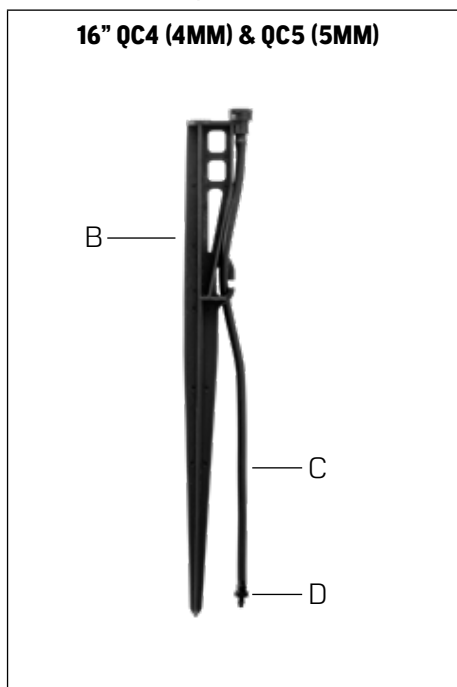
<b>A</b>	<b>ADAPTER</b>	4 mm UQC-4 Adapter: QC x 4 mm Barb (12990-002) 5 mm UQC-5 Adapter: QC x 5 mm Barb (12990-001)	
<b>B</b>	<b>STAKE</b> Supplied by others (1/2" PVC pipe serves as a weight)	4 & 5 mm option: 6.3mm x 24" (61 cm) Steel (9726-024), or Fiberglass (10040-024)	1/2" PVC 16" (40 cm) (11259-216) 22" (56 cm) (11259-222)
<b>C</b>	<b>TUBE &amp; LTO</b>	4 mm option: 112" (9960-912) / 18" (9960-918) / 24" (9960-924) / 30" (9960-930) / 48" (9960-948) 5 mm option: 24" (11283-024) / 30" (11283-030) / 48" (11283-048) / 72" (11283-072)	
<b>D</b>	<b>LTO</b>	4 mm option: 4 mm Barb x Barb (10080) 5 mm option: 5 mm Barb x Barb (12023)	
	Hanging bracket (13395)	6.3 & 8 mm Universal Rod Stake Adapter (13608)	
<b>E</b>	<b>OTHER</b>		NA
<b>F</b>	<b>TUBING COILS</b>	4 mm option: 4 mm x 328' (100 m) (10081) / 4 mm x 1000' (305 m) (10082-002) 5 mm option: 5 mm x 328' (100 m) (9284-002) / 5 mm x 1000' (305 m) (9284)	

## QC4 & QC5 STAKE & TUBE MOUNTING OPTION

- Order **QC Stake & Tube Assembly** (INCLUDES 16" STAKE + TUBE & LTO)

16" (40 cm Stake) Assy	Part number	Tube Length & Size
QC4	12983-030	30" (76 cm) 4mm
	12983-048	48" (122 cm) 4mm
QC5	12982-030	30" (76 cm) 5mm
	12982-048	48" (122 cm) 5mm

Or order all components individually. **Recommended Max flow for 4 mm = 20 gph (76 lph); or 5 mm = 40 gph (151 lph)**

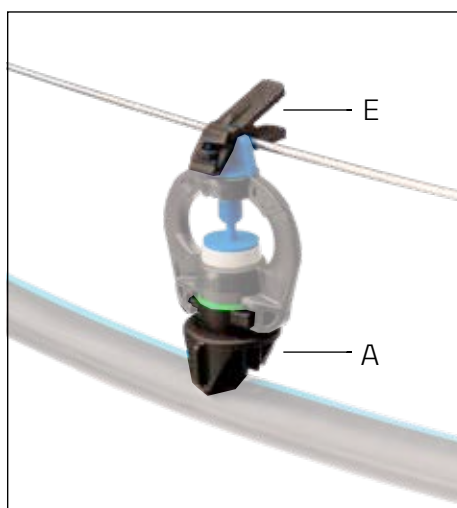


<b>B</b>	<b>STAKE</b>	16" (40 cm) x QC (12981-002)
<b>C</b>	<b>TUBE &amp; LTO</b>	<b>4 mm</b> option: 30" (9960-930) / 48" (9960-948) <b>5 mm</b> option: 30" (11283-030) / 48" (11283-048) / 72" (11283-072)
<b>D</b>	<b>LTO</b>	<b>4 mm</b> option: 4 mm Barb x Barb (10080) <b>5 mm</b> option: 5 mm Barb x Barb (12023)



## UQC-4 & UQC-5 TRELLIS CLIP SYSTEM

- Order **UQC Adapter & Trellis Clip**



<b>A</b>	<b>ADAPTER</b>	<b>4 mm</b> UQC-4 Adapter: QC x 4 mm Barb (12990-002) <b>5 mm</b> UQC-5 Adapter: QC x 5 mm Barb (12990-001)
<b>E</b>	<b>CLIP</b>	Trellis Clip (13862)

**IMPORTANT: REFER TO MOUNTING INSTRUCTIONS TO ENSURE SPRINKLER REMAINS UPRIGHT**

# S7 SPINNER PERFORMANCE

S7 SPINNER W/ **BLUE** PLATE (RECOMMENDED PRESSURE RANGE 15-40 PSI / 1.0-2.8 BAR) — TAB RADIUS 3.5-6' (1.1-1.8 M)

NOZZLE	PRESSURE IN PSI																PRESSURE IN BAR											
	15		20		25		30		35		40		45		50		1.0		1.5		2.0		2.5		3.0		3.5	
	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)
<div>🍊</div> *35 Orange									11.7	13	12.5	13	13.3	13	14.0	12							45	3.8	49	3.8	54	3.7
<div>🌊</div> *40 Blue	9.4	11	10.9	12	12.2	13	13.4	14	14.6	14	15.5	14	16.6	14	17.5	13	35	3.2	43	3.8	50	4.2	56	4.3	62	4.2	67	3.9
<div>🍇</div> *45 Purple	12.0	12	13.9	13	15.6	14	17.2	14	18.6	14	19.9	14	21.2	15	22.3	14	45	3.5	55	4.0	64	4.3	72	4.5	79	4.4	85	4.2
<div>🌿</div> *50 Green	14.6	12	16.9	14	18.9	15	20.8	15	22.5	15	24.1	15	25.6	15	27.2	14	54	3.8	67	4.3	77	4.4	87	4.7	95	4.6	103	4.3
<div>🟡</div> *55 Yellow	17.6	13	20.4	14	22.9	15	25.1	15	27.1	15	29.0	15	30.9	16	32.7	15	65	3.9	80	4.3	93	4.5	105	4.7	115	4.7	124	4.7
<div>🔴</div> *60 Light Red	21.2	13	24.5	14	27.6	15	30.2	16	32.7	16	35.1	16	37.3	16	39.4	16	79	3.9	97	4.3	113	4.6	126	4.8	139	4.9	150	4.8
<div>🌫</div> *65 Gray	27.4	13	31.8	14	35.7	15	39.2	16	42.4	16	45.4	16	48.3	16	51.1	16	102	3.9	126	4.4	146	4.7	164	5.0	180	5.0	195	5.0
<div>⬜</div> *70 White	31.9	13	37.0	15	41.4	15	45.5	16	49.2	16	52.8	16	56.0	16	59.1	16	119	3.9	146	4.5	169	4.8	190	5.0	208	4.9	226	4.7
<div>🟦</div> *78 Dark Blue	40.5	13	47.0	15	52.7	15	57.8	16	62.6	16	67.0	16	71.2	16	75.3	15	151	4.0	186	4.6	215	4.9	241	5.0	265	4.9	287	4.5
<div>🍊</div> 8.5 Orange 7FC	8.2	11	8.5	11	8.8	11	8.8	10	8.7	10	8.5	9	8.2	9	7.8	9	31	3.3	33	3.1	34	3.0	33	2.9	32	2.9	29	3.0
<div>🌊</div> 11 Blue 7FC	11.3	11	11.7	12	11.7	12	11.3	12	10.7	12	10.1	12	9.9	12	9.8	11	42	3.4	45	3.5	43	3.6	40	3.6	37	3.5	37	3.3
<div>🍇</div> 14 Purple 7FC	14.4	12	14.8	14	14.7	14	14.4	14	13.8	14	13.4	13	13.1	13	12.9	12	54	3.8	56	4.1	55	4.2	52	4.2	50	3.9	49	3.6
<div>🟡</div> 18 Yellow 7FC	17.9	13	18.6	14	18.6	15	18.2	15	17.5	15	17.3	14	17.3	14	17.4	13	67	3.9	71	4.3	69	4.5	66	4.4	65	4.2	66	3.7
<div>🔴</div> 24 Red 7FC	23.4	13	24.9	14	25.6	15	25.7	15	25.3	15	24.1	15	23.5	15	23.4	14	88	4.0	95	4.3	98	4.5	94	4.5	89	4.4	89	4.0

S7 SPINNER W/ **PURPLE** PLATE — TAB RADIUS 3-3.5' (0.9-1.1 M)

NOZZLE	PRESSURE IN PSI										PRESSURE IN BAR							
	15		20		25		30		35		1.0		1.5		2.0		2.5	
	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)
<b>*35</b> Orange	7.5	10	8.7	10	9.8	11	10.8	11	11.7	11	28	3	35	3.4	40	3.4	45	3.4
<b>8.5</b> Orange 7FC	8.2	10	8.5	10	8.8	10	8.8	9	8.7	9	31	3	33	3	34	3	33	2.7

7FC FLOW CONTROL NOZZLE Cv\*

<b>8.5</b> Orange 7FC	0.024
<b>11</b> Blue 7FC	0.024
<b>14</b> Purple 7FC	0.036
<b>18</b> Yellow 7FC	0.030
<b>24</b> Red 7FC	0.016

\*Manufacturer's Coefficient of Variation

S7 SPINNER W/ **BLACK** PLATE — TAB RADIUS 4-5.5' (1.2-1.7 M)

NOZZLE	PRESSURE IN PSI												PRESSURE IN BAR											
	15		20		25		30		35		40		1.0		1.5		2.0		2.5		2.75			
	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)		
<div></div> <div><b>*35</b> Orange</div>	7.5	7	8.7	7	9.8	7	10.8	7	11.7	8	12.5	8	28	2.1	35	2.1	40	2.2	45	2.4	47	2.5		
<div></div> <div><b>*40</b> Blue</div>	9.4	7	10.9	8	12.2	8	13.4	8	14.6	8	15.5	8	35	2.1	43	2.3	50	2.4	56	2.4	59	2.4		
<div></div> <div><b>*45</b> Purple</div>	12.0	8	13.9	9	15.6	9	17.2	9	18.6	9	19.9	9	45	2.4	55	2.6	64	2.7	72	2.7	75	2.7		
<div></div> <div><b>*50</b> Green</div>	14.6	8	16.9	9	18.9	9	20.8	10	22.5	10	24.1	10	54	2.5	67	2.7	77	2.9	87	2.9	91	2.9		
<div></div> <div><b>*55</b> Yellow</div>	17.6	9	20.4	9	22.9	10	25.1	10	27.1	10	29.0	10	65	2.6	80	2.9	93	3.1	105	3.1	110	3.1		
<div></div> <div><b>*60</b> Light Red</div>	21.2	9	24.5	10	27.6	10	30.2	11	32.7	11	35.1	11	79	2.7	97	3	113	3.2	126	3.3	133	3.3		
<div></div> <div><b>8.5</b> Orange 7FC</div>	8.2	8	8.5	7	8.8	7	8.8	7	8.7	7	8.5	7	31	2.5	33	2.2	34	2.1	33	2.1	32	2.1		
<div></div> <div><b>11</b> Blue 7FC</div>	11.3	8	11.7	8	11.7	8	11.3	8	10.7	8	10.1	8	42	2.4	45	2.4	43	2.4	40	2.4	39	2.4		
<div></div> <div><b>14</b> Purple 7FC</div>	14.4	8	14.8	8	14.7	8	14.4	8	13.8	8	13.4	8	54	2.4	56	2.4	55	2.4	52	2.4	51	2.4		
<div></div> <div><b>18</b> Yellow 7FC</div>	17.9	9	18.6	9	18.6	9	18.2	9	17.5	9	17.3	9	67	2.7	71	2.7	69	2.7	66	2.7	65	2.7		
<div></div> <div><b>24</b> Red 7FC</div>	23.4	10	24.9	10	25.6	10	25.7	10	25.3	10	24.1	10	88	3	95	3	98	3	94	3	92	3		

GPH=Flow in Gallons per Hour, R=Radius in feet. The use of an ACME stake adapter with a screen insert may reduce flow rate by 1-2% for nozzle sizes \*60 through \*78.

S7 SPINNER W/ TAN PLATE

NOZZLE	PRESSURE IN PSI												PRESSURE IN BAR											
	15		20		25		30		35		40		1.0		1.5		2.0		2.5		2.75			
	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	GPH	R (FT)	LPH	R (M)	LPH	R (M)	LPH	R (M)			LPH	R (M)		
<div></div> *35 Orange	7.5	6	8.7	6	9.8	6	10.8	6	11.7	7	12.5	7	28	17	35	17	40	18	45	18	49	19		
<div></div> *40 Blue	9.4	6	10.9	6	12.2	7	13.4	7	14.6	7	15.5	8	35	17	43	18	50	19	56	20	62	21		
<div></div> *45 Purple	12.0	7	13.9	7	15.6	7	17.2	7	18.6	8	19.9	8	45	21	55	21	64	22	72	22	79	22		
<div></div> *50 Green	14.6	7	16.9	8	18.9	8	20.8	8	22.5	9	24.1	9	54	21	67	22	77	24	87	24	95	25		
<div></div> *55 Yellow	17.6	7	20.4	8	22.9	9	25.1	9	27.1	9	29.0	9	65	21	80	23	93	25	105	26	115	27		
<div></div> *60 Light Red	21.2	8	24.5	9	27.6	9	30.2	9	32.7	9	35.1	10	79	25	97	26	113	26	126	27	139	27		
<div></div> 8.5 Orange 7FC	8.2	6	8.5	6	8.8	6	8.8	6	8.7	6	8.5	6	31	19	33	19	34	19	33	18	32	18		
<div></div> 11 Blue 7FC	11.3	6	11.7	6	11.7	7	11.3	7	10.7	7	10.1	7	42	18	45	19	43	19	40	20	37	20		
<div></div> 14 Purple 7FC	14.4	7	14.8	7	14.7	7	14.4	7	13.8	7	13.4	7	54	21	56	22	55	22	52	23	50	23		
<div></div> 18 Yellow 7FC	17.9	7	18.6	7	18.6	8	18.2	8	17.5	8	17.3	8	67	21	71	22	69	22	66	23	65	23		
<div></div> 24 Red 7FC	23.4	8	24.9	8	25.6	9	25.7	8	25.3	8	24.1	8	88	24	95	25	98	26	94	26	89	26		







For one-sprinkler-per-tree solutions, look to the modularity of the 7 Series.



Use the S7 Spinner's optional break-off tab and short-range plate options for tree starting.



The 7 Series Quick Clean (QC) technology reduces irrigator hours — simply turn, flush and reconnect.



The S7 in a hanging configuration is a great solution for organic tree fruit growers.



The S7 is an excellent alternative to foggers for cooling fruit crops.



Use stake install tool 13429 to pre-make holes for the QC4 and QC5 stakes. This ensures that the stakes will be installed straight.



848 Airport Road, Walla Walla, Washington 99362 U.S.A.  
Tel: +1 509.525.7660 / Fax: +1 509.525.7907  
[info@nelsonirrigation.com](mailto:info@nelsonirrigation.com) / [nelsonirrigation.com](http://nelsonirrigation.com)

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