

# CF IRRIGATION

SEPTEMBER 29, 2025

WISH-119628

CUSTOMER : ARCH FRINK

REINKE  
8 TOWER - 1292 FT  
SYSTEM 650 GPM @ 26 PSI  
SENNINGER UP3 I-WOB2  
KOMET 10 PSI REGULATORS  
NO ENDGUN  
ELEVATION 10 FT UP, 10 FT DOWN

LEGAL : SE STANLEY

710 WEST AVENUE A

CIMARRON, KANSAS 67835

(620)510-1326

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## WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATIC CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, POOR QUALITY OF WATER WITH ABRASIVES, CORROSIVES, AND/OR SOLIDS WHICH CAN CAUSE PLUGGING AND JAMMING, AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE WESTERN IRRIGATION SUPPLY HOUSE, INC., MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

REINKE

SEPTEMBER 29, 2025

WISH-119628

DEALER

CF IRRIGATION  
 710 WEST AVENUE A  
 CIMARRON, KANSAS 67835

IRRIGATOR

ARCH FRINK  
 SE STANLEY

					SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOTAL TARGET GPM	650.00	FRICTION FACTOR USED	135					
TOP OF PIVOT PRESSURE	26.00	TOTAL LENGTH	1292.00	1	157.25	6.415	15	
NO ENDGUN		NUMBER OF TOWERS	8	2	156.00	6.415	16	
NUMBER OF OUTLETS	133	NUMBER OF SPRINKLERS	132	3	156.00	6.415	16	
				4	156.00	6.415	16	
SENNINGER UP3 I-WOB2 - LOW ANGLE 9 GROOVE BLUE PADS				5	156.00	6.415	16	
KOMET KPR-X 10 PSI PRESSURE REGULATORS				6	156.00	6.415	16	
DROPS AVERAGE 6.5 FT OF .75 I.D. PREMIUM BLUE FLEXIBLE HOSE - SENNINGER MAG WEIGHT				7	156.00	6.415	16	
ELEVATION IS 10 FT UP AND 10 FT DOWN				8	156.00	6.415	16	
				OH	23.00	5.79	2	
					19.75	3.79	3	

## CAUTIONS AND WARNINGS

1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.
2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.
3. This system designed for minimum pressure. Failure to deliver indicated pressure at the top of pivot point will adversely affect regulator and/or sprinkler/spray performance. Elevations, pipe sizes and type of drop pipe must be as shown.

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
1		10.00	-	-	-	-	-	-	-	1
2	19.50	19.50	0.23	0.84	25.69	10.91	I-WOB2 UP3 6 GOLD	1	KPRX10	
3	9.50	29.00	0.21	0.84	25.44	10.91	I-WOB2 UP3 6 GOLD	2	KPRX10	
4	9.50	38.50	0.28	0.84	25.21	10.91	I-WOB2 UP3 6 GOLD	3	KPRX10	
5	9.50	48.00	0.35	0.84	25.02	10.91	I-WOB2 UP3 6 GOLD	4	KPRX10	
6	9.50	57.50	0.42	0.84	24.85	10.91	I-WOB2 UP3 6 GOLD	5	KPRX10	
7	9.50	67.00	0.49	0.84	24.70	10.91	I-WOB2 UP3 6 GOLD	6	KPRX10	
8	9.50	76.50	0.56	0.84	24.58	10.91	I-WOB2 UP3 6 GOLD	7	KPRX10	
9	9.50	86.00	0.63	0.84	24.49	10.91	I-WOB2 UP3 6 GOLD	8	KPRX10	
10	9.50	95.50	0.70	0.84	24.43	10.91	I-WOB2 UP3 6 GOLD	9	KPRX10	
11	9.50	105.00	0.77	0.84	24.39	10.91	I-WOB2 UP3 6 GOLD	10	KPRX10	
12	9.50	114.50	0.84	0.84	24.38	10.91	I-WOB2 UP3 6 GOLD	11	KPRX10	
13	9.50	124.00	0.91	0.84	24.40	10.91	I-WOB2 UP3 6 GOLD	12	KPRX10	
14	9.50	133.50	0.98	0.98	24.44	10.90	I-WOB2 UP3 6.5 GOLD	13	KPRX10	
15	9.50	143.00	1.05	0.98	24.51	10.90	I-WOB2 UP3 6.5 GOLD	14	KPRX10	
16	9.50	152.50	1.36	1.31	24.53	10.88	I-WOB2 UP3 7.5 LIME	15	KPRX10	
TOWER 1	157.25	157.25								
17	13.50	166.00	1.46	1.49	24.40	10.87	I-WOB2 UP3 8 LAVENDER	16	KPRX10	
18	9.50	175.50	1.28	1.31	24.19	10.88	I-WOB2 UP3 7.5 LIME	17	KPRX10	
19	9.50	185.00	1.35	1.31	23.95	10.88	I-WOB2 UP3 7.5 LIME	18	KPRX10	
20	9.50	194.50	1.42	1.49	23.73	10.87	I-WOB2 UP3 8 LAVENDER	19	KPRX10	
21	9.50	204.00	1.49	1.49	23.53	10.87	I-WOB2 UP3 8 LAVENDER	20	KPRX10	
22	9.50	213.50	1.56	1.49	23.37	10.87	I-WOB2 UP3 8 LAVENDER	21	KPRX10	
23	9.50	223.00	1.63	1.69	23.23	10.85	I-WOB2 UP3 8.5 LAVENDER	22	KPRX10	
24	9.50	232.50	1.70	1.69	23.12	10.85	I-WOB2 UP3 8.5 LAVENDER	23	KPRX10	
25	9.50	242.00	1.77	1.69	23.03	10.85	I-WOB2 UP3 8.5 LAVENDER	24	KPRX10	
26	9.50	251.50	1.84	1.88	22.97	10.84	I-WOB2 UP3 9 GREY	25	KPRX10	
27	9.50	261.00	1.91	1.88	22.94	10.84	I-WOB2 UP3 9 GREY	26	KPRX10	
28	9.50	270.50	1.98	1.88	22.93	10.84	I-WOB2 UP3 9 GREY	27	KPRX10	
29	9.50	280.00	2.05	2.10	22.96	10.82	I-WOB2 UP3 9.5 GREY	28	KPRX10	
30	9.50	289.50	2.12	2.10	23.00	10.82	I-WOB2 UP3 9.5 GREY	29	KPRX10	
31	9.50	299.00	2.19	2.10	23.08	10.82	I-WOB2 UP3 9.5 GREY	30	KPRX10	
32	9.50	308.50	2.74	2.82	23.11	10.77	I-WOB2 UP3 11 YELLOW	31	KPRX10	
TOWER 2	156.00	313.25								
33	13.50	322.00	2.85	2.82	22.99	10.77	I-WOB2 UP3 11 YELLOW	32	KPRX10	
34	9.50	331.50	2.43	2.33	22.79	10.81	I-WOB2 UP3 10 TURQUOISE	33	KPRX10	
35	9.50	341.00	2.50	2.57	22.55	10.79	I-WOB2 UP3 10.5 TURQUOISE	34	KPRX10	
36	9.50	350.50	2.57	2.57	22.34	10.79	I-WOB2 UP3 10.5 TURQUOISE	35	KPRX10	
37	9.50	360.00	2.64	2.57	22.16	10.79	I-WOB2 UP3 10.5 TURQUOISE	36	KPRX10	
38	9.50	369.50	2.71	2.82	22.00	10.77	I-WOB2 UP3 11 YELLOW	37	KPRX10	
39	9.50	379.00	2.78	2.82	21.87	10.77	I-WOB2 UP3 11 YELLOW	38	KPRX10	
40	9.50	388.50	2.84	2.82	21.76	10.77	I-WOB2 UP3 11 YELLOW	39	KPRX10	
41	9.50	398.00	2.91	2.82	21.69	10.77	I-WOB2 UP3 11 YELLOW	40	KPRX10	
42	9.50	407.50	2.98	3.08	21.64	10.75	I-WOB2 UP3 11.5 YELLOW	41	KPRX10	
43	9.50	417.00	3.05	3.08	21.62	10.75	I-WOB2 UP3 11.5 YELLOW	42	KPRX10	
44	9.50	426.50	3.12	3.08	21.62	10.75	I-WOB2 UP3 11.5 YELLOW	43	KPRX10	
45	9.50	436.00	3.19	3.08	21.65	10.75	I-WOB2 UP3 11.5 YELLOW	44	KPRX10	
46	9.50	445.50	3.26	3.36	21.71	10.73	I-WOB2 UP3 12 RED	45	KPRX10	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
47	9.50	455.00	3.33	3.36	21.80	10.73	I-WOB2 UP3 12 RED	46	KPRX10	
48	9.50	464.50	4.13	4.25	21.84	10.67	I-WOB2 UP3 13.5 WHITE	47	KPRX10	
TOWER 3	156.00	469.25								
49	13.50	478.00	4.23	4.25	21.74	10.67	I-WOB2 UP3 13.5 WHITE	48	KPRX10	
50	9.50	487.50	3.57	3.64	21.55	10.71	I-WOB2 UP3 12.5 RED	49	KPRX10	
51	9.50	497.00	3.64	3.64	21.32	10.71	I-WOB2 UP3 12.5 RED	50	KPRX10	
52	9.50	506.50	3.71	3.64	21.12	10.72	I-WOB2 UP3 12.5 RED	51	KPRX10	
53	9.50	516.00	3.78	3.64	20.95	10.72	I-WOB2 UP3 12.5 RED	52	KPRX10	
54	9.50	525.50	3.85	3.94	20.81	10.69	I-WOB2 UP3 13 WHITE	53	KPRX10	
55	9.50	535.00	3.92	3.94	20.69	10.69	I-WOB2 UP3 13 WHITE	54	KPRX10	
56	9.50	544.50	3.99	3.94	20.60	10.69	I-WOB2 UP3 13 WHITE	55	KPRX10	
57	9.50	554.00	4.06	3.94	20.53	10.69	I-WOB2 UP3 13 WHITE	56	KPRX10	
58	9.50	563.50	4.13	4.25	20.50	10.67	I-WOB2 UP3 13.5 WHITE	57	KPRX10	
59	9.50	573.00	4.19	4.25	20.49	10.67	I-WOB2 UP3 13.5 WHITE	58	KPRX10	
60	9.50	582.50	4.26	4.25	20.51	10.67	I-WOB2 UP3 13.5 WHITE	59	KPRX10	
61	9.50	592.00	4.33	4.25	20.56	10.67	I-WOB2 UP3 13.5 WHITE	60	KPRX10	
62	9.50	601.50	4.40	4.56	20.63	10.65	I-WOB2 UP3 14 BLUE	61	KPRX10	
63	9.50	611.00	4.47	4.56	20.73	10.65	I-WOB2 UP3 14 BLUE	62	KPRX10	
64	9.50	620.50	5.51	5.57	20.79	10.58	I-WOB2 UP3 15.5 DK BROWN	63	KPRX10	
TOWER 4	156.00	625.25								
65	13.50	634.00	5.61	5.57	20.71	10.58	I-WOB2 UP3 15.5 DK BROWN	64	KPRX10	
66	9.50	643.50	4.71	4.56	20.53	10.65	I-WOB2 UP3 14 BLUE	65	KPRX10	
67	9.50	653.00	4.78	4.89	20.32	10.63	I-WOB2 UP3 14.5 BLUE	66	KPRX10	
68	9.50	662.50	4.85	4.89	20.13	10.63	I-WOB2 UP3 14.5 BLUE	67	KPRX10	
69	9.50	672.00	4.92	4.89	19.98	10.63	I-WOB2 UP3 14.5 BLUE	68	KPRX10	
70	9.50	681.50	4.99	4.89	19.85	10.63	I-WOB2 UP3 14.5 BLUE	69	KPRX10	
71	9.50	691.00	5.06	4.89	19.74	10.63	I-WOB2 UP3 14.5 BLUE	70	KPRX10	
72	9.50	700.50	5.13	5.23	19.67	10.60	I-WOB2 UP3 15 DK BROWN	71	KPRX10	
73	9.50	710.00	5.20	5.23	19.62	10.60	I-WOB2 UP3 15 DK BROWN	72	KPRX10	
74	9.50	719.50	5.27	5.23	19.60	10.60	I-WOB2 UP3 15 DK BROWN	73	KPRX10	
75	9.50	729.00	5.34	5.23	19.61	10.60	I-WOB2 UP3 15 DK BROWN	74	KPRX10	
76	9.50	738.50	5.41	5.57	19.65	10.58	I-WOB2 UP3 15.5 DK BROWN	75	KPRX10	
77	9.50	748.00	5.48	5.57	19.71	10.58	I-WOB2 UP3 15.5 DK BROWN	76	KPRX10	
78	9.50	757.50	5.54	5.57	19.80	10.58	I-WOB2 UP3 15.5 DK BROWN	77	KPRX10	
79	9.50	767.00	5.61	5.57	19.92	10.58	I-WOB2 UP3 15.5 DK BROWN	78	KPRX10	
80	9.50	776.50	6.89	7.08	19.99	10.47	I-WOB2 UP3 17.5 DK GREEN	79	KPRX10	
TOWER 5	156.00	781.25								
81	13.50	790.00	6.99	7.08	19.93	10.47	I-WOB2 UP3 17.5 DK GREEN	80	KPRX10	
82	9.50	799.50	5.85	5.94	19.77	10.55	I-WOB2 UP3 16 ORANGE	81	KPRX10	
83	9.50	809.00	5.91	5.94	19.58	10.55	I-WOB2 UP3 16 ORANGE	82	KPRX10	
84	9.50	818.50	5.98	5.94	19.41	10.55	I-WOB2 UP3 16 ORANGE	83	KPRX10	
85	9.50	828.00	6.05	5.94	19.27	10.55	I-WOB2 UP3 16 ORANGE	84	KPRX10	
86	9.50	837.50	6.13	6.31	19.15	10.53	I-WOB2 UP3 16.5 ORANGE	85	KPRX10	
87	9.50	847.00	6.19	6.31	19.07	10.53	I-WOB2 UP3 16.5 ORANGE	86	KPRX10	
88	9.50	856.50	6.26	6.31	19.01	10.53	I-WOB2 UP3 16.5 ORANGE	87	KPRX10	
89	9.50	866.00	6.33	6.31	18.98	10.53	I-WOB2 UP3 16.5 ORANGE	88	KPRX10	
90	9.50	875.50	6.40	6.31	18.98	10.53	I-WOB2 UP3 16.5 ORANGE	89	KPRX10	
91	9.50	885.00	6.47	6.31	19.00	10.53	I-WOB2 UP3 16.5 ORANGE	90	KPRX10	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
92	9.50	894.50	6.54	6.69	19.05	10.50	I-WOB2 UP3 17 DK GREEN	91	KPRX10	
93	9.50	904.00	6.61	6.69	19.13	10.50	I-WOB2 UP3 17 DK GREEN	92	KPRX10	
94	9.50	913.50	6.68	6.69	19.24	10.50	I-WOB2 UP3 17 DK GREEN	93	KPRX10	
95	9.50	923.00	6.74	6.69	19.37	10.50	I-WOB2 UP3 17 DK GREEN	94	KPRX10	
96	9.50	932.50	8.26	8.31	19.46	10.39	I-WOB2 UP3 19 BLACK	95	KPRX10	
TOWER 6	156.00	937.25								
97	13.50	946.00	8.36	8.31	19.43	10.39	I-WOB2 UP3 19 BLACK	96	KPRX10	
98	9.50	955.50	6.98	7.08	19.29	10.47	I-WOB2 UP3 17.5 DK GREEN	97	KPRX10	
99	9.50	965.00	7.05	7.08	19.11	10.47	I-WOB2 UP3 17.5 DK GREEN	98	KPRX10	
100	9.50	974.50	7.12	7.08	18.96	10.47	I-WOB2 UP3 17.5 DK GREEN	99	KPRX10	
101	9.50	984.00	7.19	7.08	18.83	10.47	I-WOB2 UP3 17.5 DK GREEN	100	KPRX10	
102	9.50	993.50	7.26	7.08	18.74	10.47	I-WOB2 UP3 17.5 DK GREEN	101	KPRX10	
103	9.50	1003.00	7.34	7.48	18.67	10.45	I-WOB2 UP3 18 PURPLE	102	KPRX10	
104	9.50	1012.50	7.40	7.48	18.62	10.45	I-WOB2 UP3 18 PURPLE	103	KPRX10	
105	9.50	1022.00	7.47	7.48	18.61	10.45	I-WOB2 UP3 18 PURPLE	104	KPRX10	
106	9.50	1031.50	7.54	7.48	18.62	10.45	I-WOB2 UP3 18 PURPLE	105	KPRX10	
107	9.50	1041.00	7.61	7.48	18.66	10.45	I-WOB2 UP3 18 PURPLE	106	KPRX10	
108	9.50	1050.50	7.68	7.48	18.73	10.45	I-WOB2 UP3 18 PURPLE	107	KPRX10	
109	9.50	1060.00	7.76	7.89	18.82	10.42	I-WOB2 UP3 18.5 PURPLE	108	KPRX10	
110	9.50	1069.50	7.82	7.89	18.94	10.42	I-WOB2 UP3 18.5 PURPLE	109	KPRX10	
111	9.50	1079.00	7.89	7.89	19.09	10.42	I-WOB2 UP3 18.5 PURPLE	110	KPRX10	
112	9.50	1088.50	9.64	9.61	19.20	10.30	I-WOB2 UP3 20.5 DK TURQ	111	KPRX10	
TOWER 7	156.00	1093.25								
113	13.50	1102.00	9.75	9.61	19.18	10.30	I-WOB2 UP3 20.5 DK TURQ	112	KPRX10	
114	9.50	1111.50	8.14	8.31	19.05	10.39	I-WOB2 UP3 19 BLACK	113	KPRX10	
115	9.50	1121.00	8.20	8.31	18.89	10.39	I-WOB2 UP3 19 BLACK	114	KPRX10	
116	9.50	1130.50	8.26	8.31	18.75	10.39	I-WOB2 UP3 19 BLACK	115	KPRX10	
117	9.50	1140.00	8.33	8.31	18.64	10.39	I-WOB2 UP3 19 BLACK	116	KPRX10	
118	9.50	1149.50	8.40	8.31	18.55	10.39	I-WOB2 UP3 19 BLACK	117	KPRX10	
119	9.50	1159.00	8.47	8.31	18.50	10.39	I-WOB2 UP3 19 BLACK	118	KPRX10	
120	9.50	1168.50	8.55	8.73	18.47	10.36	I-WOB2 UP3 19.5 BLACK	119	KPRX10	
121	9.50	1178.00	8.61	8.73	18.46	10.36	I-WOB2 UP3 19.5 BLACK	120	KPRX10	
122	9.50	1187.50	8.67	8.73	18.49	10.36	I-WOB2 UP3 19.5 BLACK	121	KPRX10	
123	9.50	1197.00	8.73	8.73	18.54	10.36	I-WOB2 UP3 19.5 BLACK	122	KPRX10	
124	9.50	1206.50	8.80	8.73	18.62	10.36	I-WOB2 UP3 19.5 BLACK	123	KPRX10	
125	9.50	1216.00	8.88	8.73	18.72	10.36	I-WOB2 UP3 19.5 BLACK	124	KPRX10	
126	9.50	1225.50	8.97	9.17	18.85	10.33	I-WOB2 UP3 20 DK TURQUOISE	125	KPRX10	
127	9.50	1235.00	9.01	9.17	19.01	10.33	I-WOB2 UP3 20 DK TURQUOISE	126	KPRX10	
128	9.50	1244.50	10.49	10.52	19.12	10.23	I-WOB2 UP3 21.5 MUSTARD	127	KPRX10	
TOWER 8	156.00	1249.25								
			PIPE ID CHANGES FROM 6.415 TO 5.790							
129	12.50	1257.00	10.57	10.52	19.12	10.23	I-WOB2 UP3 21.5 MUSTARD	128	KPRX10	
130	9.50	1266.50	9.22	9.17	19.12	10.33	I-WOB2 UP3 20 DK TURQUOISE	129	KPRX10	
			PIPE ID CHANGES FROM 5.790 TO 3.790							
131	9.50	1276.00	9.31	9.17	19.12	10.33	I-WOB2 UP3 20 DK TURQUOISE	130	KPRX10	
132	9.50	1285.50	7.97	7.89	19.12	10.42	I-WOB2 UP3 18.5 PURPLE	131	KPRX10	
133	6.50	1292.00	7.46	7.48	19.12	10.45	I-WOB2 UP3 18 PURPLE	132	KPRX10	

OVERHANG 42.75 1292.00

TOTAL GPM = 650.88

GPA = 5.40

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI  
 WITH GRADUATED ELEVATION OF 10.00 FT THE INLET PRESSURE IS 15.99 PSI FOR SPRINKLER 128  
 THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

#### HYDRAULICS SUMMARY

TOWER NUMBER	ACRES UNDER SPAN	GPM NEED	ACTUAL GPM	PERCENT DEVIATION	GPM PER ACRE	AVERAGE IN. PER HR DELIVERED <u>UNDER SPAN</u>	AVERAGE IN. DELIVERED FOR REVOLUTION TIME		
							36 HR	48 HR	60 HR
1	1.78	9.63	13.14	36%	7.37	0.016	0.59	0.78	0.98
2	5.29	28.58	28.18	-1%	5.32	0.012	0.42	0.56	0.71
3	8.80	47.53	47.21	-1%	5.36	0.012	0.43	0.57	0.71
4	12.31	66.49	66.07	-1%	5.37	0.012	0.43	0.57	0.71
5	15.82	85.44	84.65	-1%	5.35	0.012	0.43	0.57	0.71
6	19.33	104.39	103.59	-1%	5.36	0.012	0.43	0.57	0.71
7	22.84	123.34	121.69	-1%	5.33	0.012	0.42	0.56	0.71
8	26.36	142.30	140.86	-1%	5.34	0.012	0.43	0.57	0.71
OVERHANG	7.84	42.30	45.49	8%	5.81	0.013	0.46	0.62	0.77
TOTAL	120.39	650.00	650.88		5.41				

**SUMMARY OF SPRINKLERS**

12 I-WOB2 UP3 6 GOLD  
2 I-WOB2 UP3 6.5 GOLD  
3 I-WOB2 UP3 7.5 LIME  
4 I-WOB2 UP3 8 LAVENDER  
3 I-WOB2 UP3 8.5 LAVENDER  
3 I-WOB2 UP3 9 GREY  
3 I-WOB2 UP3 9.5 GREY  
1 I-WOB2 UP3 10 TURQUOISE  
3 I-WOB2 UP3 10.5 TURQUOISE  
6 I-WOB2 UP3 11 YELLOW  
4 I-WOB2 UP3 11.5 YELLOW  
2 I-WOB2 UP3 12 RED  
4 I-WOB2 UP3 12.5 RED  
4 I-WOB2 UP3 13 WHITE  
6 I-WOB2 UP3 13.5 WHITE  
3 I-WOB2 UP3 14 BLUE  
5 I-WOB2 UP3 14.5 BLUE  
4 I-WOB2 UP3 15 DK BROWN  
6 I-WOB2 UP3 15.5 DK BROWN  
4 I-WOB2 UP3 16 ORANGE  
6 I-WOB2 UP3 16.5 ORANGE  
4 I-WOB2 UP3 17 DK GREEN  
7 I-WOB2 UP3 17.5 DK GREEN  
7 I-WOB2 UP3 18 PURPLE  
4 I-WOB2 UP3 18.5 PURPLE  
8 I-WOB2 UP3 19 BLACK  
6 I-WOB2 UP3 19.5 BLACK  
4 I-WOB2 UP3 20 DK TURQUOISE  
2 I-WOB2 UP3 20.5 DK TURQ  
2 I-WOB2 UP3 21.5 MUSTARD

**1 PLUG****SUMMARY OF REGULATORS**

132 Komet PR-X 10 psi

**TOTAL OF 132 REGULATORS**

## NOZZLE POSITION CHART

I-WOB2 UP3 6 GOLD	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
I-WOB2 UP3 6.5 GOLD	13, 14
I-WOB2 UP3 7.5 LIME	15, 17, 18
I-WOB2 UP3 8 LAVENDER	16, 19, 20, 21
I-WOB2 UP3 8.5 LAVENDER	22, 23, 24
I-WOB2 UP3 9 GREY	25, 26, 27
I-WOB2 UP3 9.5 GREY	28, 29, 30
I-WOB2 UP3 10 TURQUOISE	33
I-WOB2 UP3 10.5 TURQUOISE	34, 35, 36
I-WOB2 UP3 11 YELLOW	31, 32, 37, 38, 39, 40
I-WOB2 UP3 11.5 YELLOW	41, 42, 43, 44
I-WOB2 UP3 12 RED	45, 46
I-WOB2 UP3 12.5 RED	49, 50, 51, 52
I-WOB2 UP3 13 WHITE	53, 54, 55, 56
I-WOB2 UP3 13.5 WHITE	47, 48, 57, 58, 59, 60
I-WOB2 UP3 14 BLUE	61, 62, 65
I-WOB2 UP3 14.5 BLUE	66, 67, 68, 69, 70
I-WOB2 UP3 15 DK BROWN	71, 72, 73, 74
I-WOB2 UP3 15.5 DK BROWN	63, 64, 75, 76, 77, 78
I-WOB2 UP3 16 ORANGE	81, 82, 83, 84
I-WOB2 UP3 16.5 ORANGE	85, 86, 87, 88, 89, 90
I-WOB2 UP3 17 DK GREEN	91, 92, 93, 94
I-WOB2 UP3 17.5 DK GREEN	79, 80, 97, 98, 99, 100, 101
I-WOB2 UP3 18 PURPLE	102, 103, 104, 105, 106, 107, 132
I-WOB2 UP3 18.5 PURPLE	108, 109, 110, 131
I-WOB2 UP3 19 BLACK	95, 96, 113, 114, 115, 116, 117, 118
I-WOB2 UP3 19.5 BLACK	119, 120, 121, 122, 123, 124
I-WOB2 UP3 20 DK TURQUOISE	125, 126, 129, 130
I-WOB2 UP3 20.5 DK TURQ	111, 112
I-WOB2 UP3 21.5 MUSTARD	127, 128

**CF IRRIGATION  
710 WEST AVENUE A  
CIMARRON, KANSAS 67835**

SEPTEMBER 29, 2025

WISH-119628

www.pieces  
ARCH FRINK

SEE STANLEY

Rotation time at 100% = 20.50 Hours Or 1230 minutes

650 GPM @ 26 PSI

REINKE  
SENNINGER UP3 I-WOB2  
MET 10 PSI REGULATORS  
UM BLUE FLEXIBLE HOSE  
HEAD

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## Installation Chart

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Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
1	PLUG				10		57	13.5	KPRX10	2		113	19	KPRX10
2		1	6	KPRX10	11		58	13.5	KPRX10	3		114	19	KPRX10
3		2	6	KPRX10	12		59	13.5	KPRX10	4		115	19	KPRX10
4		3	6	KPRX10	13		60	13.5	KPRX10	5		116	19	KPRX10
5		4	6	KPRX10	14		61	14	KPRX10	6		117	19	KPRX10
6		5	6	KPRX10	15		62	14	KPRX10	7		118	19	KPRX10
7		6	6	KPRX10	16		63	15.5	KPRX10	8		119	19.5	KPRX10
8		7	6	KPRX10					TOWER 4	9		120	19.5	KPRX10
9		8	6	KPRX10	1		64	15.5	KPRX10	10		121	19.5	KPRX10
10		9	6	KPRX10	2		65	14	KPRX10	11		122	19.5	KPRX10
11		10	6	KPRX10	3		66	14.5	KPRX10	12		123	19.5	KPRX10
12		11	6	KPRX10	4		67	14.5	KPRX10	13		124	19.5	KPRX10
13		12	6	KPRX10	5		68	14.5	KPRX10	14		125	20	KPRX10
14		13	6.5	KPRX10	6		69	14.5	KPRX10	15		126	20	KPRX10
15		14	6.5	KPRX10	7		70	14.5	KPRX10	16		127	21.5	KPRX10
16		15	7.5	KPRX10	8		71	15	KPRX10					TOWER 8
					9		72	15	KPRX10	1		128	21.5	KPRX10
1		16	8	KPRX10	10		73	15	KPRX10	2		129	20	KPRX10
2		17	7.5	KPRX10	11		74	15	KPRX10	3		130	20	KPRX10
3		18	7.5	KPRX10	12		75	15.5	KPRX10	4		131	18.5	KPRX10
4		19	8	KPRX10	13		76	15.5	KPRX10	5		132	18	KPRX10
5		20	8	KPRX10	14		77	15.5	KPRX10					
6		21	8	KPRX10	15		78	15.5	KPRX10					
7		22	8.5	KPRX10	16		79	17.5	KPRX10					
8		23	8.5	KPRX10					TOWER 5					
9		24	8.5	KPRX10	1		80	17.5	KPRX10					
10		25	9	KPRX10	2		81	16	KPRX10					
11		26	9	KPRX10	3		82	16	KPRX10					
12		27	9	KPRX10	4		83	16	KPRX10					
13		28	9.5	KPRX10	5		84	16	KPRX10					
14		29	9.5	KPRX10	6		85	16.5	KPRX10					
15		30	9.5	KPRX10	7		86	16.5	KPRX10					
16		31	11	KPRX10	8		87	16.5	KPRX10					
					9		88	16.5	KPRX10					
1		32	11	KPRX10	10		89	16.5	KPRX10					
2		33	10	KPRX10	11		90	16.5	KPRX10					
3		34	10.5	KPRX10	12		91	17	KPRX10					
4		35	10.5	KPRX10	13		92	17	KPRX10					
5		36	10.5	KPRX10	14		93	17	KPRX10					
6		37	11	KPRX10	15		94	17	KPRX10					
7		38	11	KPRX10	16		95	19	KPRX10					
8		39	11	KPRX10					TOWER 6					
9		40	11	KPRX10	1		96	19	KPRX10					
10		41	11.5	KPRX10	2		97	17.5	KPRX10					
11		42	11.5	KPRX10	3		98	17.5	KPRX10					
12		43	11.5	KPRX10	4		99	17.5	KPRX10					
13		44	11.5	KPRX10	5		100	17.5	KPRX10					
14		45	12	KPRX10	6		101	17.5	KPRX10					
15		46	12	KPRX10	7		102	18	KPRX10					
16		47	13.5	KPRX10	8		103	18	KPRX10					
					9		104	18	KPRX10					
1		48	13.5	KPRX10	10		105	18	KPRX10					
2		49	12.5	KPRX10	11		106	18	KPRX10					
3		50	12.5	KPRX10	12		107	18	KPRX10					
4		51	12.5	KPRX10	13		108	18.5	KPRX10					
5		52	12.5	KPRX10	14		109	18.5	KPRX10					
6		53	13	KPRX10	15		110	18.5	KPRX10					
7		54	13	KPRX10	16		111	20.5	KPRX10					
8		55	13	KPRX10			112	20.5	KPRX10					
9		56	13	KPRX10	1				TOWER 7					

**CF IRRIGATION**  
**710 WEST AVENUE A**  
**CIMARRON, KANSAS 67835**

SEPTEMBER 29, 2025  
WISH-119628  
ARCH FRINK  
SE STANLEY

REINKE  
SENNINGER UP3 I-WOB2  
KOMET 10 PSI REGULATORS  
.75 I.D. PREMIUM BLUE FLEXIBLE HOSE  
NO ENDGUN

Rotation time at 100% = 20.50 Hours Or 1230 minutes

650 gpm @ 26 psi

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Nozzle Difference

Previous chart: WISH-119623 500 gpm @ 22 psi

Current chart: WISH-119628 650 gpm @ 26 psi

<u>Nozzle Type and Size</u>	<u>Difference</u>	<u>Previous WISH Printouts</u>
SENNINGER UP3 8.5 LAVENDER	1	WISH-119623 500 gpm @ 22 PSI SEPTEMBER 25, 2025
SENNINGER UP3 10.5 TURQUOISE	1	
SENNINGER UP3 11 YELLOW	1	
SENNINGER UP3 17.5 DK GREEN	4	
SENNINGER UP3 18 PURPLE	5	
SENNINGER UP3 18.5 PURPLE	3	
SENNINGER UP3 19 BLACK	7	
SENNINGER UP3 19.5 BLACK	6	
SENNINGER UP3 20 DK TURQUOISE	4	
SENNINGER UP3 20.5 DK TURQ	2	
SENNINGER UP3 21.5 MUSTARD	2	
<b>Total:</b>	<b>36</b>	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119628

SEPTEMBER 29, 2025

DEALER - CF IRRIGATION

IRRIGATOR - ARCH FRINK  
FIELD - SE STANLEY

TOTAL LENGTH PIPE = 1292.00    SYSTEM PRESSURE = 26 PSI  
 GPM UNDER PIPE = 650.88    TOTAL GPM = 650.88  
 ACRES UNDER PIPE = 120.39  
 RANGE OF ENDGUN = .00    RUN FOR MINIMUM PRESSURE  
 GPM OF ENDGUN = .00  
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 1  
 LOADED MOTOR RPM = 1745  
 CENTER GEAR BOX RATIO = 60  
 WHEEL GEAR BOX RATIO = 50  
 TIRE SIZE = 11 X 22.5  
 LAST TOWER SPEED (FPM) = 6.38

## PRECIPITATION BASED

## % TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.24	100.00	20.50 - 1230(min)	100.00	.24	20.50 - 1230(min)
.25	97.98	20.93	90.00	.27	22.78
.30	81.65	25.11	80.00	.31	25.63
.40	61.24	33.48	70.00	.35	29.29
.50	48.99	41.86	60.00	.41	34.17
.60	40.83	50.23	50.00	.49	41.01
.70	34.99	58.60	45.00	.54	45.57
.75	32.66	62.78	40.00	.61	51.26
.80	30.62	66.97	35.00	.70	58.59
.90	27.22	75.34	30.00	.82	68.35
1.00	24.50	83.71	25.00	.98	82.02
1.25	19.60	104.64	20.00	1.22	102.52
1.50	16.33	125.57	15.00	1.63	136.70
1.75	14.00	146.49	10.00	2.45	205.05
2.00	12.25	167.42	5.00	4.90	410.10

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.