

I-90

Application: **Large Radius Commercial/Municipal**

Radius: **18.9 to 30.8 m**

Flow Rate: **4.97 to 18.58 m³/hr; 82.8 to 309.6 l/min**

Inlet Size: **1½" BSP**

FEATURES

- Model: 8 cm
- Arc setting: 40 to 360 degrees
- Nozzle choices: 8
- Nozzle range: #25 to #73
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Standard factory installed nozzle: #53
- Factory installed rubber logo cap
- Warranty period: 5 years
- ▶ Opposing nozzle 360° model
- ▶ Color coded nozzles
- ▶ Optional reclaimed water ID
- ▶ Drain check valve (up to 2 m of elevation)

OPERATING SPECIFICATIONS

- Radius: 18.9 to 30.8 m
- Flow rate: 4.97 to 18.58 m³/hr; 82.8 to 309.6 l/min
- Recommended pressure range: 4.0 to 7.5 bar; 400 to 750 kPa
- Operating pressure range: 3.5 to 8 bar; 350 to 800 kPa
- Precipitation rates: 19 mm/hr approx. (360 degrees)
- Nozzle trajectory: 22.5 degrees

USER-INSTALLED OPTION

- Turf Cup Kit
 - I-90 all: P/N 467955
- Rubber Cover Kit
 - I-90-ADV: P/N 234200 (all)
 - I-90-36V: P/N 234200 (0711 date code and after)
 - I-90-36V: P/N 234201 (0611 date code & prior only)

▶ = Advanced Feature descriptions on page 12



I-90 Reclaimed

Available as a factory-installed option on all models



I-90

Overall height: ADV/36V: 28 cm
Pop-up height: 8 cm
Exposed diameter: 9 cm
Inlet size: 1½" female BSP



Turf cup kit
P/N 467955



Rubber cover kits
I90-ADV: P/N 234200
I90-36V: P/N 234201

I-90 - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Models	2 Standard Features	3 Feature Options	4 Nozzle Options
I-90 = 8 cm Pop-up	Plastic riser, check valve, and 8 nozzles	ADV = Adjustable arc ARV = Adjustable arc and reclaimed water ID 36V = Full circle, opposing nozzles 3RV = Full circle, opposing nozzles and reclaimed water ID B = BSP inlet threads	#25 to #73 = Factory installed nozzle number

Examples:

I-90 - ADV - B = 8 cm pop-up, adjustable arc, with BSP inlet threads

I-90 - 36V - B - 43 = 8 cm pop-up, full circle, opposing nozzles, with BSP inlet threads, and #43 nozzle

I-90 - 3RV - B - 63 = 8 cm pop-up, full circle, opposing nozzles, reclaimed water ID, with BSP inlet threads, and #63 nozzle

I-90-ADV NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	Bar	kPa		m³/hr	l/min	■	▲
25 ● Lt. Blue	4.0	400	18.9	4.97	82.8	28	32
	4.5	450	19.2	5.34	89.0	29	33
	5.0	500	19.5	5.70	95.0	30	35
	5.5	550	19.8	6.10	101.6	31	36
	6.0	600	20.1	6.43	107.2	32	37
	6.5	650	20.4	6.76	112.7	32	37
	7.0	700	20.7	7.08	117.9	33	38
33 ● Gray	4.0	400	20.1	6.84	114.1	34	39
	4.5	450	20.4	7.25	120.9	35	40
	5.0	500	20.4	7.64	127.4	37	42
	5.5	550	20.7	8.06	134.4	38	43
	6.0	600	20.7	8.42	140.3	39	45
	6.5	650	21.0	8.75	145.9	40	46
	7.0	700	21.3	9.08	151.3	40	46
38 ● Red	4.0	400	20.7	7.61	126.8	35	41
	4.5	450	21.0	8.07	134.5	37	42
	5.0	500	21.3	8.51	141.9	37	43
	5.5	550	21.9	8.99	149.8	37	43
	6.0	600	22.3	9.39	156.5	38	44
	6.5	650	22.6	9.77	162.9	38	44
	7.0	700	22.9	10.14	169.0	39	45
43 ● Dk. Brown	4.0	400	21.0	8.72	145.4	39	46
	4.5	450	21.3	9.18	153.0	40	47
	5.0	500	21.6	9.62	160.2	41	47
	5.5	550	21.9	10.08	168.0	42	48
	6.0	600	21.9	10.47	174.5	43	50
	6.5	650	22.3	10.84	180.7	44	51
	7.0	700	22.3	11.20	186.6	45	52
48 ● Dk. Green	5.0	500	22.9	10.83	180.4	41	48
	5.5	550	23.5	11.41	190.1	41	48
	6.0	600	23.8	11.89	198.1	42	49
	6.5	650	24.1	12.35	205.8	43	49
	7.0	700	24.7	12.79	213.2	42	48
53 ● Dk. Blue*	5.0	500	24.1	11.29	188.2	39	45
	5.5	550	24.7	12.00	200.0	39	45
	6.0	600	25.6	12.59	209.9	38	44
	6.5	650	26.2	13.17	219.4	38	44
	7.0	700	26.2	13.72	228.7	40	46
63 ● Black	5.0	500	25.6	13.95	232.5	43	49
	5.5	550	26.2	14.52	241.9	42	49
	6.0	600	26.5	14.98	249.7	43	49
	6.5	650	26.8	15.43	257.1	43	50
	7.0	700	27.4	15.85	264.2	42	49
73 ● Orange	5.5	550	27.4	15.22	253.7	40	47
	6.0	600	27.7	15.69	261.4	41	47
	6.5	650	28.3	16.13	268.8	40	46
	7.0	700	29.0	16.55	275.8	39	46
	7.5	750	29.9	17.01	283.5	38	44

I-90-36V NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	Bar	kPa		m³/hr	l/min	■	▲
25 ● Lt. Blue	4.0	400	20.7	5.70	94.9	13	15
	4.5	448	21.0	6.06	101.1	14	16
	5.0	496	21.6	6.42	106.9	14	16
	5.5	552	22.3	6.80	113.3	14	16
	6.0	600	22.6	7.12	118.7	14	16
	6.5	648	22.9	7.43	123.9	14	16
	7.0	696	23.5	7.73	128.9	14	16
33 ● Gray	4.0	400	21.3	6.65	110.8	15	17
	4.5	448	21.9	7.05	117.4	15	17
	5.0	496	22.6	7.43	123.7	15	17
	5.5	552	23.2	7.84	130.6	15	17
	6.0	600	23.5	8.18	136.3	15	17
	6.5	648	23.8	8.51	141.8	15	17
	7.0	696	24.4	8.83	147.1	15	17
38 ● Red	4.0	400	22.3	7.45	124.2	15	17
	4.5	448	22.9	7.89	131.4	15	17
	5.0	496	23.8	8.29	138.2	15	17
	5.5	552	24.1	8.74	145.6	15	17
	6.0	600	24.1	9.10	151.7	16	18
	6.5	648	24.4	9.46	157.6	16	18
	7.0	696	25.0	9.80	163.3	16	18
43 ● Dk. Brown	4.0	400	23.2	8.51	141.9	16	18
	4.5	448	23.8	8.99	149.9	16	18
	5.0	496	24.1	9.45	157.4	16	19
	5.5	552	25.0	9.94	165.6	16	18
	6.0	600	25.0	10.35	172.4	17	19
	6.5	648	25.3	10.74	178.9	17	19
	7.0	696	25.6	11.11	185.2	17	20
48 ● Dk. Green	5.0	496	25.0	10.69	178.1	17	20
	5.5	552	26.2	11.24	187.2	16	19
	6.0	600	26.8	11.69	194.9	16	19
	6.5	648	27.1	12.13	202.1	16	19
	7.0	696	27.4	12.55	209.2	17	19
53 ● Dk. Blue	5.0	496	25.9	11.62	193.6	17	20
	5.5	552	26.8	12.21	203.6	17	20
	6.0	600	27.1	12.71	211.8	17	20
	6.5	648	27.7	13.19	219.7	17	20
	7.0	696	28.0	13.64	227.4	17	20
63 ● Black	5.0	496	27.4	13.85	230.8	18	21
	5.5	552	28.0	14.41	240.2	18	21
	6.0	600	28.3	14.87	247.9	19	21
	6.5	648	28.7	15.31	255.2	19	22
	7.0	696	29.3	15.73	262.2	18	21
73 ● Orange	5.5	550	29.0	16.51	275.2	20	23
	6.0	600	29.3	17.05	284.1	20	23
	6.5	650	29.6	17.56	292.6	20	23
	7.0	700	30.2	18.05	300.7	20	23
	7.5	750	30.8	18.58	309.6	20	23

I-90 NOZZLES

ADV & 36V

Low-Angle
ADV & 36V**

** Low-Angle nozzles
reduce radius by 15%

* Factory-installed nozzle

Notes:

Precipitation rates for ADV models are calculated for 180-degree operation. To calculate precipitation rate for 360-degree operation, divide by 2. Precipitation rates for 36V model are calculated at 360 degrees.