

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


ROTORS

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								I-90-36V NOZZLE PERFORMANCE DATA								I-90 NOZZLES	
Nozzle	Pressure		Radius	Flow		Precip mm/hr		Nozzle	Pressure		Radius	Flow		Precip mm/hr			
	Bar	kPa		m ³ /hr	l/min	■	▲		Bar	kPa		m ³ /hr	l/min	■	▲		
25 ● Lt. Blue	4.0	400	18.9	4.97	82.8	28	32	25 ● Lt. Blue	4.0	400	20.7	5.70	94.9	13	15	ADV & 36V Low-Angle ADV & 36V** ** Low-Angle nozzles reduce radius by 15%	
	4.5	450	19.2	5.34	89.0	29	33		4.5	448	21.0	6.06	101.1	14	16		
	5.0	500	19.5	5.70	95.0	30	35		5.0	496	21.6	6.42	106.9	14	16		
	5.5	550	19.8	6.10	101.6	31	36		5.5	552	22.3	6.80	113.3	14	16		
	6.0	600	20.1	6.43	107.2	32	37		6.0	600	22.6	7.12	118.7	14	16		
	6.5	650	20.4	6.76	112.7	32	37		6.5	648	22.9	7.43	123.9	14	16		
	7.0	700	20.7	7.08	117.9	33	38		7.0	696	23.5	7.73	128.9	14	16		
33 ● Gray	4.0	400	20.1	6.84	114.1	34	39	33 ● Gray	4.0	400	21.3	6.65	110.8	15	17		
	4.5	450	20.4	7.25	120.9	35	40		4.5	448	21.9	7.05	117.4	15	17		
	5.0	500	20.4	7.64	127.4	37	42		5.0	496	22.6	7.43	123.7	15	17		
	5.5	550	20.7	8.06	134.4	38	43		5.5	552	23.2	7.84	130.6	15	17		
	6.0	600	20.7	8.42	140.3	39	45		6.0	600	23.5	8.18	136.3	15	17		
	6.5	650	21.0	8.75	145.9	40	46		6.5	648	23.8	8.51	141.8	15	17		
	7.0	700	21.3	9.08	151.3	40	46		7.0	696	24.4	8.83	147.1	15	17		
38 ● Red	4.0	400	20.7	7.61	126.8	35	41	38 ● Red	4.0	400	22.3	7.45	124.2	15	17		
	4.5	450	21.0	8.07	134.5	37	42		4.5	448	22.9	7.89	131.4	15	17		
	5.0	500	21.3	8.51	141.9	37	43		5.0	496	23.8	8.29	138.2	15	17		
	5.5	550	21.9	8.99	149.8	37	43		5.5	552	24.1	8.74	145.6	15	17		
	6.0	600	22.3	9.39	156.5	38	44		6.0	600	24.1	9.10	151.7	16	18		
	6.5	650	22.6	9.77	162.9	38	44		6.5	648	24.4	9.46	157.6	16	18		
	7.0	700	22.9	10.14	169.0	39	45		7.0	696	25.0	9.80	163.3	16	18		
43 ● Dk. Brown	4.0	400	21.0	8.72	145.4	39	46	43 ● Dk. Brown	4.0	400	23.2	8.51	141.9	16	18		
	4.5	450	21.3	9.18	153.0	40	47		4.5	448	23.8	8.99	149.9	16	18		
	5.0	500	21.6	9.62	160.2	41	47		5.0	496	24.1	9.45	157.4	16	19		
	5.5	550	21.9	10.08	168.0	42	48		5.5	552	25.0	9.94	165.6	16	18		
	6.0	600	21.9	10.47	174.5	43	50		6.0	600	25.0	10.35	172.4	17	19		
	6.5	650	22.3	10.84	180.7	44	51		6.5	648	25.3	10.74	178.9	17	19		
	7.0	700	22.3	11.20	186.6	45	52		7.0	696	25.6	11.11	185.2	17	20		
48 ● Dk. Green	5.0	500	22.9	10.83	180.4	41	48	48 ● Dk. Green	5.0	496	25.0	10.69	178.1	17	20		
	5.5	550	23.5	11.41	190.1	41	48		5.5	552	26.2	11.24	187.2	16	19		
	6.0	600	23.8	11.89	198.1	42	49		6.0	600	26.8	11.69	194.9	16	19		
	6.5	650	24.1	12.35	205.8	43	49		6.5	648	27.1	12.13	202.1	16	19		
	7.0	700	24.7	12.79	213.2	42	48		7.0	696	27.4	12.55	209.2	17	19		
53 ● Dk. Blue*	5.0	500	24.1	11.29	188.2	39	45	53 ● Dk. Blue	5.0	496	25.9	11.62	193.6	17	20		
	5.5	550	24.7	12.00	200.0	39	45		5.5	552	26.8	12.21	203.6	17	20		
	6.0	600	25.6	12.59	209.9	38	44		6.0	600	27.1	12.71	211.8	17	20		
	6.5	650	26.2	13.17	219.4	38	44		6.5	648	27.7	13.19	219.7	17	20		
	7.0	700	26.2	13.72	228.7	40	46		7.0	696	28.0	13.64	227.4	17	20		
63 ● Black	5.0	500	25.6	13.95	232.5	43	49	63 ● Black	5.0	496	27.4	13.85	230.8	18	21		
	5.5	550	26.2	14.52	241.9	42	49		5.5	552	28.0	14.41	240.2	18	21		
	6.0	600	26.5	14.98	249.7	43	49		6.0	600	28.3	14.87	247.9	19	21		
	6.5	650	26.8	15.43	257.1	43	50		6.5	648	28.7	15.31	255.2	19	22		
	7.0	700	27.4	15.85	264.2	42	49		7.0	696	29.3	15.73	262.2	18	21		
73 ● Orange	5.5	550	27.4	15.22	253.7	40	47	73 ● Orange	5.5	550	29.0	16.51	275.2	20	23		
	6.0	600	27.7	15.69	261.4	41	47		6.0	600	29.3	17.05	284.1	20	23		
	6.5	650	28.3	16.13	268.8	40	46		6.5	650	29.6	17.56	292.6	20	23		
	7.0	700	29.0	16.55	275.8	39	46		7.0	700	30.2	18.05	300.7	20	23		
	7.5	750	29.9	17.01	283.5	38	44		7.5	750	30.8	18.58	309.6	20	23		

* 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.