

Hunter®

The Irrigation Innovators



9 cm Plastic



9 cm Stainless Steel



9 cm High-Speed Stainless Steel



14 cm Plastic



14 cm Stainless Steel



14 cm High-Speed Stainless Steel

I-31 Plus

*Efficient,
economical,
easy to use...
the ideal choice
for commercial and
recreational sites*

For durability, performance and economy on medium to large area sites, no other rotor brings it all together like the Hunter I-31 Plus. A ribbed body and cap for better grip. An extra-thick heavy-duty rubber cover. The industry's smallest exposed surface area in its category. A dozen nozzles that provide optimum

performance in both primary and secondary coverage. The patented VStat® self-adjusting stator. Compact, extra-beefy construction. Plus, an optional stainless steel riser for even more toughness. The I-31 Plus has plenty to offer at quite an attractive price. No wonder it's the pick of so many people for so many jobs.

Features & Benefits



ProTech™ safety system

Small exposed heavy-duty rubber cover and boot keeps playing areas safe

12 color coded nozzles

Outstanding flexibility, identification, and distribution uniformity

Optional stainless steel riser

Long life in harsh conditions

Heavy duty ribbed cap and body

Stands up to heavy traffic, easy servicing

Proven water-lubricated gear drive

Time-tested and now improved for even longer life

Patented VStat self-adjusting stator

No stator rings required, drives with more power and adds years to sprinkler life

Drain check valve for up to 3 meters of elevation change

Saves water, reduces liability

Pressure Port™: Better Coverage, Better Close-in Watering

With high flow, high pressure nozzles, the tremendous force of the primary stream tends to draw water away from the smaller secondary nozzle, limiting the efficiency for short and medium range coverage. But, Hunter's patented system decreases velocity and pressure while increasing droplet size, resulting in excellent close-in coverage. When the water droplets are larger, they are less affected by the primary nozzle and less likely to be carried away by the wind. And because the velocity is lower, seed washout in newly planted areas is greatly reduced.

Upper arrow: Water flowing to main orifice
Lower arrow: Water to secondary orifice.



Water is ported inside the turret, reducing the pressure for improved water distribution.

Auckland NZ
PH: (09) 919 7600
FAX: (09) 919 7604

Distributed by: **aquaspec**
www.aquaspec.co.nz 0800 353 966

Christchurch NZ
PH: (03) 968 3230
FAX: (03) 968 3231

Models

- I-31* – 9 cm Commercial duty rotor
 - I-31 HS* – 9 cm High-speed commercial duty rotor
 - I-31-6P* – 14 cm Commercial duty rotor
 - I-31-6P HS* – 14 cm High-speed commercial duty rotor
- * metric model number (BSP threaded nozzle)

Dimensions

- Overall height:
I-31, I-31 HS – 20 cm
I-31-6P, I-31-6P HS – 26 cm
- Female inlet: 1" BSP
- Exposed diameter: 5 cm

Operating Specifications

- Discharge rate: 0.86 to 7.16 m³/hr (14.4 to 119.2 l/min)
- Radius for I-31, I-31-6P: 12.2 to 21.6 m
- Radius for I-31 HS, I-31-6P HS: 11.3 to 20.4 m
- Recommended pressure range: 3.4 to 4.8 bars (344 to 482 kPa)
- Operating pressure range: 2.8 to 6.9 bars (275 to 689 kPa)
- Precipitation rates: approximately 6 to 14 mm per hour
- Nozzle trajectory: 25°

Options Available

- For quick, light wetdowns of sports fields or any areas that require dust control, Hunter offers the high-speed version I-31 HS that cuts full circle rotation time from three minutes down to one. High-speed model I-43 also available.
- Reclaimed water cover
- Factory-installed nozzles



Primary and Secondary Nozzles Change as One Unit

Two distinct nozzles, each with its own particular function. One color-coded single unit, making it simple to replace both of these nozzles with one single action. Simply snap one out, snap another in and both the primary and secondary nozzles are changed, with no need to fine tune. With every I-31 Plus nozzle, the distribution of water over the entire area of throw is unsurpassed—no other rotor in its class delivers water more effectively or more efficiently.

In-the-Field Identification is Twice as Easy

Hunter helps you to distinguish nozzles in two different ways. First, every nozzle is individually color-coded for easy I.D. on the shelf, in the truck, or while in operation. Then, each nozzle has a number engraved on the outer surface.



I-31 Plus Nozzle Performance Data – Metric

Nozzle	Pressure Bars	Pressure kPa	Radius m	Flow m ³ /hr	Flow l/min	Precip mm/hr	▲
4 Yellow	2.8	275	12.2	0.86	14.4	12	13
	3.4	344	12.5	0.98	16.3	13	14
	4.1	413	12.8	1.07	17.8	13	15
	4.8	482	13.1	1.16	19.3	13	16
5 White	2.8	275	13.1	1.00	16.7	12	13
	3.4	344	13.4	1.09	18.2	12	14
	4.1	413	13.7	1.20	20.1	13	15
	4.8	482	14.0	1.27	21.2	13	15
7 Orange*	2.8	275	13.7	1.50	25.0	16	18
	3.4	344	14.3	1.59	26.5	15	18
	4.1	413	14.6	1.70	28.4	16	18
	4.8	482	14.9	1.79	29.9	16	19
8 Lt Brown	2.8	275	14.3	1.75	29.1	17	20
	3.4	344	14.9	1.89	31.4	17	20
	4.1	413	15.2	2.09	34.8	18	21
	4.8	482	15.5	2.25	37.5	19	21
10 Lt. Green*	3.4	344	15.5	2.29	38.2	19	22
	4.1	413	15.8	2.52	42.0	20	23
	4.8	482	16.2	2.75	45.8	21	24
	5.5	551	16.5	2.93	48.8	22	25
13 Lt. Blue	3.4	344	16.2	2.54	42.4	19	23
	4.1	413	16.5	2.79	46.6	21	24
	4.8	482	16.8	3.02	50.3	21	25
	5.5	551	16.8	3.25	54.1	23	27
15 Gray*	3.4	344	17.1	3.04	50.7	21	24
	4.1	413	17.4	3.25	54.1	22	25
	4.8	482	17.4	3.45	57.5	23	26
	5.5	551	17.7	3.73	62.1	24	28
18 Red	3.4	344	17.7	3.29	54.9	21	24
	4.1	413	18.0	3.57	59.4	22	25
	4.8	482	18.9	3.84	64.0	21	25
	5.5	551	19.2	4.13	68.9	22	26
20 Dk. Brown*	4.1	413	18.9	4.04	67.4	23	26
	4.8	482	19.2	4.36	72.7	24	27
	5.5	551	19.5	4.66	77.6	24	28
	6.2	620	19.8	4.95	82.5	25	29
23 Dk. Green	4.1	413	19.5	4.97	82.9	26	30
	4.8	482	19.8	5.36	89.3	27	32
	5.5	551	20.1	5.82	96.9	29	33
	6.2	620	20.4	6.13	102.2	29	34
25 Dk. Blue*	4.1	413	20.1	5.34	88.9	26	30
	4.8	482	20.7	5.79	96.5	27	31
	5.5	551	21.0	6.36	106.0	29	33
	6.2	620	21.3	6.70	111.7	29	34
28 Black	4.8	482	20.7	6.11	101.8	28	33
	5.5	551	21.3	6.52	108.6	29	33
	6.2	620	21.6	6.95	115.8	30	34
	6.9	689	21.6	7.16	119.2	31	35

* 5 standard nozzles included with each sprinkler.
Note: All precipitation rates are calculated for a 180-degree operation.
For the precipitation rate for a 360-degree sprinkler, divide by 2.

I-31 Plus High-Speed Nozzle Performance Data – Metric

Nozzle	Pressure Bars	Pressure kPa	Radius m	Flow m ³ /hr	Flow l/min	Precip mm/hr	▲
4 Yellow	2.8	275	11.3	0.86	14.4	14	16
	3.4	344	11.6	0.98	16.3	15	17
	4.1	413	11.6	1.07	17.8	16	18
	4.8	482	11.9	1.18	19.7	17	19
5 White	2.8	275	11.6	1.00	16.7	15	17
	3.4	344	11.9	1.09	18.2	15	18
	4.1	413	12.2	1.25	20.8	17	19
	4.8	482	12.5	1.36	22.7	17	20
7 Orange*	2.8	275	12.2	1.39	23.1	19	22
	3.4	344	12.5	1.57	26.1	20	23
	4.1	413	12.8	1.70	28.4	21	24
	4.8	482	13.4	1.84	30.7	20	24
8 Lt Brown	2.8	275	12.8	1.64	27.3	20	23
	3.4	344	13.1	1.84	30.7	21	25
	4.1	413	13.4	2.02	33.7	22	26
	4.8	482	13.7	2.23	37.1	24	27
10 Lt. Green*	3.4	344	14.0	2.29	38.2	23	27
	4.1	413	14.6	2.52	42.0	24	27
	4.8	482	14.9	2.75	45.8	25	28
	5.5	551	15.2	2.93	48.8	25	29
13 Lt. Blue	3.4	344	14.6	2.54	42.4	24	27
	4.1	413	14.9	2.79	46.6	25	29
	4.8	482	15.5	3.02	50.3	25	29
	5.5	551	15.5	3.25	54.1	27	31
15 Gray*	3.4	344	14.9	3.04	50.7	27	32
	4.1	413	15.5	3.25	54.1	27	31
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28 Black	4.8	482	18.3	6.11	101.8	37	42
	5.5	551	18.9	6.52	108.6	37	42
	6.2	620	19.8	6.95	115.8	35	41
	6.9	689	20.4	7.15	119.2	34	40

Data represents test results in zero wind. Adjust for local conditions.
Radius may be reduced up to 25% with nozzle retaining screw. (This may alter the uniformity of the spray pattern.) Performance data are derived from tests that conform to ASAE Standard S398.1. See Hunter Irrigation Products Catalog for complete ASAE Certification Statement.

SPECIFICATION GUIDE

EXAMPLE: **I-31 - ADS - 25**

MODEL	FEATURES	OPTIONS
I-31 = 9 cm Pop-up	ADV, 36V, ADS, 36S, ARV, 3RV, ARS, 3RS, ADSHS, 36SHS	XX = Includes standard set of nozzles 4-28 = Factory-Installed nozzle number
I-31-6P = 14 cm Pop-up	ADV, 36V, ADS, 36S, ARV, 3RV, ARS, 3RS, ADSHS, 36SHS	

KEY TO FEATURES:

- ADV = Adjustable Arc with Check Valve
- 36V = Full-Circle with Check Valve
- ADS = Adjustable Arc, Stainless Steel Riser, with Check Valve
- 36S = Full-Circle, Stainless Steel Riser, with Check Valve
- ARV = Adjustable Arc, Reclaimed Water, with Check Valve
- 3RV = Full-Circle, Reclaimed Water, with Check Valve
- ARS = Adjustable Arc, Reclaimed Water, Stainless Steel Riser, with Check Valve
- 3RS = Full-Circle, Reclaimed Water, Stainless Steel Riser, with Check Valve
- ADSHS = ADS High-Speed Version
- 36SHS = 36S High-Speed Version

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