**Hunter STG-900-KIT Synthetic Turf Irrigation Kit and STG-900-KIT-B Synthetic Turf Irrigation Kit Written Specifications**

**Part 1 – General**

1.1The STG-900-KIT Synthetic Turf Irrigation Kit and STG-900-KIT-B Synthetic Turf Irrigation Kit can cover a 103' to 120' (31.4 to 36.6 m) radius at 100 to 120 PSI (6.9 to 8.3 bar; 690 to 830 kPa) with a discharge rate of 74.5 to 92.0 GPM (6.9 to 20.9 m3/hr; 282 to 348 l/min).

**Part 2 – Parts and Material**

2.1 The STG-900-KIT and STG-900-KIT-B shall consist of the following components:

1. STG-900 Adjustable Arc and Full-Circle Gear-Driven Sprinkler

* The STG-900 shall be available in the following versions: 3" (8 cm) pop-up.
* The sprinkler shall be constructed from corrosion- and impact-resistant ABS plastic.
* The sprinkler shall have a ratcheting, ABS plastic riser.
* The sprinkler shall be equipped with a durable, stainless steel riser spring.
* The sprinkler shall be available with two nozzle choices in flow rates from 74.5 to 92.0 GPM (6.9 to 20.9 m3/hr; 282.0 to 348 l/min).
* The arc of the sprinkler shall be adjustable from 40° to 360°.
* The sprinkler shall be equipped with through-the-top arc adjustment.
* The sprinkler shall be equipped with a QuickCheck™ Arc Mechanism.
* The sprinkler shall be equipped with a factory-installed green rubber cover.
* The sprinkler shall be available with a user-installed Rubber Cover Kit.
* All secondary nozzles shall come blocked standard from the factory.

1. ST-173026-B Vault and Cover Set

* The enclosure’s main body shall be made of construction-grade fiberglass and shall be reinforced with gusseted vertical ribbing on all four walls.
* The enclosure main body shall be tapered providing a base that is wider than the exposed upper surface.
* The enclosure’s upper rim and cover supporting nest shall be constructed of polymer concrete.
* The enclosure’s upper rim shall have an outside dimension of 17" x 30" (43 cm x 76 cm).
* The enclosure’s base shall have an approximate outside dimension of 27" x 41" (68 cm x 104 cm) and shall include a flat base to support the enclosure’s weight.
* The enclosure shall be 26" (66 cm) tall. The enclosure’s cover shall be a three-piece set and constructed of polymer-concrete.
* The three-piece cover set shall consist of two main cover sections plus one circular inset cover.
* When combined, the two main cover sections shall have an outside dimension of 17" x 30" (43 cm x 76 cm). One of the main covers shall include a pre-cast 8" (20.3 cm) circular hole to accommodate and support the installed STG-900 Synthetic Turf Rotor.
* The second main cover shall include a precast 6" (15.2 cm) circular hole to accommodate the circular inset cover.
* The removable inset cover and cover hole shall be located to provide access to the installed HQ-5-RC quick coupler valve.
* The main cover set shall be 3" (7.6 cm) thick and include an interlock feature located between the two sections.

1. ST-2008-VA ST Swing Joint

* The swing joint shall be constructed of heavy-duty PVC and be rated at 315 PSI (22 bar; 2,200 kPa).
* The swing joint shall have seven O-ring-sealed pivot points to allow the rotor to be perfectly placed within ST Vault’s cover set opening.
* The swing joint shall have a 2" (50 mm) female slip inlet and a 1½" (40 mm) Acme outlet.

1. ST-VBVF-K ST Valve Set

* The valve set shall consist of one ICV-151G valve, manifold ball valve, 1½" (40 mm) Acme inlet, 1½" (40 mm) Acme outlet.
* The ICV-151G valve body shall be constructed of corrosion- and UV-resistant glass-filled nylon.
* The diaphragm shall feature a double-beaded seal design and be constructed of fabric-reinforced EPDM.
* Height: 7⅛" (18 cm)
* Length: 6⅞" (17 cm)
* Width: 5½" (14 cm)
* The manifold ball valve shall be a standard (Super C) compact ball valve.
* The ball valve shall come permanently sealed from the factory and be maintenance-free.
* It shall be made of heavy-duty PVC and have a rating of 315 PSI (21.7 bar; 2,170 kPa).

1. HQ-5-RC / HQ-5-RC-BSP Quick Coupler Valve

* The quick coupler inlet shall be 1" (25 mm) NPT or BSP.
* Models shall be red brass and stainless steel construction.
* Spring-loaded covers with stainless steel springs shall provide positive closing and protection of the valve’s sealing components.

2.2 Warranty

A. The kit shall carry a five-year component part warranty.

**Part 3 – Function and Operation**

3.1 Recommended pressure range: 100 to 120 PSI (6.9 to 8.3 bar; 690 to 830 kPa)

A. Operating pressure range: 100 to 120 PSI (6.9 to 8.3 bar; 690 to 830 kPa)

3.2Radius: 103' to 120' (31.4 to 36.6 m)

3.3 Flow rate: 74.5 to 92.0 GPM (16.9 to 20.9 m3/hr; 282 to 348 l/min)

3.4 Precipitation rate: 1.25 in/hr (35 mm/hr), approximately

3.5 Nozzle trajectory: Standard: 22.5°, approximately

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