**Exclusive Specification**

**Micro Irrigation**

**PCZ-101 DRIP CONTROL ZONE KIT**

The kit shall be preassembled with stainless steel filtration and pressure regulation.

* The kit shall feature a water-tested 1" (25 mm) x ¾" inline valve.
* The kit shall feature a Senninger® pressure regulator.
* The kit shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The kit shall have a flow of 0.5 to 15 GPM (30 to 900 GPH; 2 to 55 l/min).
* The kit shall have an operating pressure of 20 to 120 PSI (1.4 to 8.0 bar; 140 to 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 1" (25 mm) x ¾" filter-regulator.
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.

**ACZ DRIP CONTROL ZONE KIT**

The kit shall be preassembled with filtration and pressure regulation for above-ground installation.

 **ACZ-075**

* The kit shall feature a ¾" x ¾" anti-siphon valve.
* The kit shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The kit shall have a flow of 0.5 to 15 GPM (30 to 900 GPH; 2 to 55 l/min).
* The kit shall have an operating pressure of 20 to 120 PSI (1.4 to 8.0 bar; 140 to 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.

**ACZ-101**

* The kit shall feature a 1" (25 mm) anti-siphon valve.
* The kit shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The kit shall have a flow of 0.5 to 15 GPM (30 to 900 GPH; 2 to 55 l/min).
* The kit shall have an operating pressure of 20 to 120 PSI (1.4 to 8.0 bar; 140 to 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 1" (25 mm) x ¾" filter-regulator.
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.

**1**" **ICZ DRIP CONTROL ZONE KIT**

The kit shall be offered in durable low-, medium-, and high-flow versions.

 **ICZ-101**

* The kit shall offer a factory-installed Filter Sentry® Mechanism.
* The kit shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The kit shall have a flow of 2 to 20 GPM (120 to 1,200 GPH; 7.5 to 75.7 l/min).
* The kit shall have an operating pressure up to 120 PSI (8.0 bar; 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.

**ICZ-101-LF**

* The kit shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The kit shall have a flow of 0.5 to 15 GPM (30 to 900 GPH; 2 to 55 l/min).
* The kit shall have an operating pressure up to 120 PSI (8.0 bar; 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.
* The kit shall feature a 1" (25 mm) inlet x ¾" outlet.

**ICZ-101-LF-R**

* The kit shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The kit shall have a flow of 0.5 to 15 GPM (30 to 900 GPH; 2 to 55 l/min).
* The kit shall have an operating pressure up to 120 PSI (8.0 bar; 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.
* The kit shall feature a 1" (25 mm) inlet x ¾" outlet.
* The kit shall feature a reclaimed water ID tag, purple flow control knob, Filter Sentry Mechanism, and purple chlorine-resistant diaphragm.

**ICZ-151 DRIP CONTROL ZONE KIT**

The kit shall be constructed of glass-filled nylon with a fabric-reinforced diaphragm as well as a double-beaded diaphragm seal.

**ICZ-151-40-XL**

* The kit shall be factory assembled.
* The kit shall be pressure regulated to 40 PSI (2.8 bar; 280 kPa).
* The kit shall have a flow of 20 to 80 GPM (1,200 to 4,800 GPH; 75.7 to 302.8 l/min).
* The kit shall have an operating pressure up to 120 PSI (8.0 bar; 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.
* Optional 120-mesh (125-micron) disc filter is available.
* The kit shall feature a 1½" (40 mm ) inlet and 2" (50 mm) outlet.

 **ICZ-201 DRIP CONTROL ZONE KIT**

The kit shall be constructed of glass-filled nylon with a fabric-reinforced diaphragm as well as a double-beaded diaphragm seal.

**ICZ-201-40-XL**

* The kit shall be factory assembled.
* The kit shall be pressure regulated to 40 PSI (2.8 bar; 280 kPa).
* The kit shall have a flow of 20 to 100 GPM (1,200 to 6,000 GPH; 75.7 to 378.5 l/min).
* The kit shall have an operating pressure up to 120 PSI (8.0 bar; 800 kPa).
* The kit shall have an operating temperature up to 120°F (66°C).
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.
* Optional 120-mesh (125-micron) disc filter is available.

 **FILTER REGULATORS**

The filter/regulator combo shall feature a Senninger regulator and a stainless steel filter screen.

**HFR**

* No assembly required, aside from bonnet installation. The filter shall be available in regulator versions of 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa).
* The filter shall be available in 1" (25 mm) x ¾" and ¾" x ¾" versions.
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.

**HFR-R**

* The filter shall be available in 25 PSI or 40 PSI (1.7 or 2.8 bar; 170 or 280 kPa) regulator versions.
* The filter shall be available in 1" (25 mm) x ¾" and ¾" x ¾" versions.
* The kit shall feature a 150-mesh (100-micron) stainless steel screen.
* The kit shall feature a purple bonnet without a flush cap.

**FILTERS – ¾" AND 1"**

The filter assembly shall feature a polypropylene body and stainless steel filter screen.

**HY-075, HY-100, HY-100-075, HY-100-R**

* The filter shall feature a 150-mesh (100-micron) stainless steel screen.
* The filter shall have an operating pressure up to 120 PSI (8.0 bar; 800 kPa).
* The filter shall also be offered with a reclaimed purple bonnet without a flush cap.

 **FILTERS – 1½" AND 2"**

The filter assembly shall feature a glass-filled polypropylene body and stainless steel filter screen.

**HY-151, HY-151-D, HY-201, HY-201-D**

* The filter assembly shall feature a 150-mesh (100-micron) stainless steel screen.
* The filter assembly shall have an operating pressure up to 150 PSI (10.3 bar; 1,030 kPa).
* The filter assembly shall have optional 80- and 120-mesh (177- and 125-micron) screens.
* The filter assembly shall have an available 120-mesh (125-micron) disc filter.

**SENNINER PRESSURE REGULATORS**

The pressure regulators shall maintain consistent, preset outlet pressure to prevent damage to system components.

* The pressure regulator shall be 100% water-tested.
* The pressure regulator shall be capable of above- or below-ground installation.
* The pressure regulator shall feature tamper-proof construction.

**HDL-CV DRIPLINE**

The dripline shall feature pressure compensation with check valve, flow indication stripes, and a 6' (1.8 m) check height.

* The dripline shall include an anti-siphon feature.
* The dripline shall feature three color-coded stripes to indicate flow.
* The dripline shall be UV resistant.
* The CV dripline shall be distinguished from other HDL by its dark brown base resin.
* The dripline shall utilize flat emitters with multiple inlet filters.
* The dripline shall feature a check valve, which holds the water to a height of at least 6' (1.8 m).

**HDL-PC AND HDL-R DRIPLINE**

The dripline shall feature construction of robust materials and pressure compensation.

* The dripline shall feature color-coded stripes to indicate flow.
* The dripline shall be UV resistant.
* The PC dripline shall be distinguished from other HDL by its light brown base resin.
* The dripline shall be offered in stretch-wrapped coils.
* The dripline shall utilize flat emitters with multiple inlet filters.
* The dripline shall be available in a reclaimed version, identified by purple stripes to indicate irrigation using non-potable water.

**HDL-COP DRIPLINE**

The dripline shall feature copper oxide to minimize root intrusion.

* The dripline shall feature slow-draining check valve (CV) emitters.
* The dripline shall feature pressure-compensating emitters.
* The dripline shall include an anti-siphon feature.
* The dripline shall feature color-coded stripes indicating flow.
* The dripline shall be UV-resistant.
* The COP dripline shall be distinguished from other HDL by its earth-tone copper base resin.
* The dripline shall be offered in stretch-wrapped coils.
* The dripline shall feature multiple inlet filters and a wide, turbulent labyrinth.
* The dripline shall feature emitters that inhibit debris and root intrusion.

**LOC FITTINGS**

The fittings shall be compatible with any nominal 16 to 18 mm tubing and dripline.

* The fittings shall be constructed of glass-filled polypropylene.
* The fittings shall feature thread lock connection.
* The fitting shall be reusable.

**17 MM BARB FITTINGS**

The fittings shall be constructed of acetal and shall function with vinyl and polyethylene tubing.

* The fittings shall provide a secure connection.
* The fittings shall feature a dual-barb design.

**ECO-MAT® SYSTEM**

The product shall feature a fleece-wrapped dripline and fleece blanket for subsurface irrigation.

* The product shall have an anti-siphon feature to minimize debris and root intrusion.
* The product shall provide 20% to 40% water savings over standard products.
* The product shall feature non-draining, pressure-compensating emitters that open/close simultaneously.
* The product shall use a porous, non-woven polyethylene terephthalate (PET) material to move water laterally within the soil.
* The product shall feature a check height of 6' (1.8 m).

**ECO-WRAP® SYSTEM**

The product shall feature fleece-wrapped dripline.

* The product shall have an anti-siphon feature to minimize debris and root intrusion.
* The product shall provide 20% to 40% water savings over standard products.
* The product shall feature non-draining, pressure-compensating emitters that open/close simultaneously.
* The product shall use a porous, non-woven polyethylene terephthalate (PET) material to move water laterally within the soil.
* The product shall feature a check height of 6' (1.8 m).

**SUPPLY TUBING**

The tubing shall be constructed of UV-resistant polyethylene.

* The tubing shall be constructed with a thick wall.
* Product dimensions shall be 0.600" x 0.700" (15.2 mm x 17.7 mm).
* The tubing shall offer kink resistance.

**ECO-INDICATOR**

The product shall provide a visual indication of system operation.

* The product shall have a visible bright yellow or reclaimed purple stem indicator.
* The product shall operate when system pressure exceeds 12 PSI (0.8 bar; 80 kPa) for 6" (15 cm) version or 15 PSI (1.0 bar; 100 kPa) for 12" (30 cm) version.
* The 6" (15 cm) version shall feature a ½" FPT bottom inlet port.
* The 12" (30 cm) version shall feature ½" FPT bottom and ½" FPT side inlet port.

**MLD DRIPLINE**

The product shall be ¼" dripline for tight spaces and raised planters.

* The product shall offer superior flexibility.
* The product shall provide irrigation without being intrusive to the landscape.
* The product shall feature evenly spaced emitters at either 6" or 12" (15 cm or 30 cm) spacing.

**DISTRIBUTION TUBING**

The product shall offer stability and flexibility when using point-source emitters or micro sprays.

* The product shall be constructed of high-quality vinyl or polyethylene for connection to acetal ¼" fittings.
* Product dimensions shall be 0.170" x 0.250" (4.3 mm x 6.4 mm).
* The product shall be offered in vinyl for cooler climate installations.
* The product shall be offered in polyethylene for warmer climate installations.

 **¼**" **BARBED FITTINGS**

The product shall offer a superior hold with robust acetal construction.

* Acetal construction shall provide a secure connection.
* Available goof plug shall lay flat to prevent leakage.

**IH RISERS**

The product shall offer simple point-to-point and vandal-resistant irrigation.

* The product shall be made of flexible PVC.
* The product shall be brown to blend in with the surrounding landscape.
* The product shall accept any ½" FPT emitter.
* The product shall be preassembled.
* The product shall be suitable for at-grade or below-grade installation.
* The product shall be offered in multiple lengths.
* The product shall be available with an optional check valve.
* The product shall hold back 12' (3.6 m) of head when specified with the check valve.

**POINT-SOURCE EMITTERS**

The product shall offer accurate irrigation in a wide range of flow rates.

* The product shall feature pressure compensation for consistent and reliable flow.
* The product shall be color-coded by flow for easy identification.
* The product shall be offered in earth-tone colors that blend in with the surrounding landscape.
* The product shall be offered in three inlet variations: ¼" barb, 10-32 thread, and ½" FPT.
* The product shall have coined edges for easy gripping.
* The product shall have a self-piercing barb.
* The product shall have an optional diffuser cap.
* The product shall have a self-flushing diaphragm.

**MULTI-PORT EMITTERS**

The product shall offer the ability to irrigate groups of plants effectively from one source.

* The product shall feature six pressure-compensating emitter ports to provide consistent and reliable flow.
* The product shall be color-coded by flow for easy identification.
* The product shall be offered in earth-tone colors to blend in with the surrounding landscape.
* The product shall feature swivel elbows to assist in placing water directly into the soil.
* The Multi-Port-Manifold (MPM) shall provide unrestricted flow for each outlet.

**MICRO SPRAYS**

The product shall apply water accurately for small-area coverage.

**SOLO-DRIP**

* The product shall feature eight streams of water for thorough coverage.
* The product shall feature an adjustable cap for flow and radius adjustment.

**HALO-SPRAY**

* The product shall feature an adjustable umbrella of water.
* The product shall feature an adjustable cap for flow and radius adjustment.

**TRIO-SPRAY**

* The product shall feature full-, half-, and quarter-circle configurations.
* The product shall feature an adjustable cap for flow and radius adjustment.

**RIGID RISERS**

The product shall maintain stiffness when used with micro sprays for high-throw applications.

* The product shall accept 10-32 threaded components.
* The product shall have a ½" FPT, ¼" barb, or blank inlet configuration.
* The product shall be constructed of high-density polyethylene (HDPE).

**MULTI-PURPOSE BOX**

The product shall be the ideal size to provide protection and easy access to essential irrigation system components.

* The product shall have a small footprint.
* The product shall be available in five colors to blend in with any environment.
* The product shall feature an overlapping lid to prevent debris from entering the box.
* The product shall feature a knock-out bolt hole.
* The product shall feature a UV-protected, non-slip lid.
* The product shall be constructed of HDPE.

**AIR/VACUUM RELIEF VALVE**

The product shall prevent water hammer and system collapse by discharging air during startup and allowing air to enter during shutdown.

* The product shall release air pockets without premature closure.
* The product shall feature leak-free closure after release.
* The product shall be constructed of UV-protected and corrosion-resistant material.
* The product shall have an operating range up to 80 PSI (5.5 bar; 550 kPa).

**AUTOMATIC FLUSH VALVE**

The product shall keep laterals clean by automatically flushing water, air, and debris at each system startup.

* The product shall feature a reversible diaphragm to coordinate with low or high flow.
* The product shall feature a removeable top for diaphragm maintenance.

**ROOT ZONE WATERING SYSTEM (RZWS)**

The product shall deliver water across all levels of the root zone for high-efficiency subsurface irrigation of trees and shrubs.

* The product shall feature Hunter’s patented StrataRoot® Baffle System that diverts water to all levels of the root zone while adding strength to the unit.
* The product shall feature a durable locking cap for vandal resistance.
* The product shall feature a pressure-compensating bubbler for accurate water flow.
* The product shall feature a built-in Hunter swing joint for direct installation to ½" PVC fittings.
* The product shall be preassembled.

**RZB ACCESSORY**

The product shall assist in the root watering of small trees and shrubs.

* The product shall feature a solid mesh tube with a perforated top.
* The product shall allow oxygen and natural precipitation to reach the root zone.
* The product shall allow for easy installation.