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Smart Water Application Technology™ (SWAT™) Performance Report

Testing Agency: Center for Irrigation Technology **www.californiawater.org**

Product: Hunter ET System with Pro-C 300 Controller

Product Type: Climatologically Based Controller

Product Description: ET SYSTEM is an onsite ET sensor suite with outdoor interface ET module, for direct connection to Hunter SmartPort® enabled controllers.

SWAT™ Protocol*: Turf and Landscape Equipment Climatologically Based Controllers 7th Draft Testing Protocol (November 2006)

The concept of climatologically controlling irrigation systems has an extensive history of scientific study and documentation. The objective of this protocol is to evaluate how well current commercial technology has integrated the scientific data into a practical system that meets the agronomic needs of turf and landscape plants. The evaluation is accomplished by creating a virtual landscape subjected to a representative climate to evaluate the ability of individual controllers to adequately and efficiently irrigate that landscape. After initial programming and calibration the controller is expected to perform without further intervention during the test period. Performance results indicate to what degree the controller maintained root zone moistures within an acceptable range. If moisture levels are maintained without deficit, it can be assumed the crop growth and quality will be adequate. If moisture levels are maintained without excess it can be assumed that scheduling is efficient.

*All SWAT™ Protocol may be viewed at www.irrigation.org

Hunter ET System with Pro-C 300 Controller SWAT™ Performance Summary

Irrigation Adequacy	Irrigation Excess
Minimum of 6 test zones: 100% Maximum of 6 test zones: 100% Mean/Average of 6 test zones: 100% Irrigation Adequacy represents how well irrigation met the needs of the plant material. This reflects the percentage of required water for turf or plant material supplied by rainfall and controller-scheduled irrigations. Research suggests that if this value is between 80% and 100%, the acceptable quality of vegetation will be maintained.	Minimum of 6 test zones: 0% Maximum of 6 test zones: 2.3% Mean/Average of 6 test zones: 0.5% Irrigation Excess represents how much irrigation water was applied beyond the needs of the plant material. This reflects the percentage of water applied in excess of 100% of required water according to data from CIMIS station #80 Fresno State, Fresno County during the test period.

Product Detail Supplied by Manufacturer

Hunter ET System **www.hunterindustries.com**

Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
Retrofit to Hunter SmartPort® enabled controllers.	ET System onsite sensor suite	Direct low voltage wiring into Hunter SmartPort®	ET System must be purchased separately from compatible Hunter controller model: SRC, Pro-C and ICC	<input type="checkbox"/> ET WIND is an optional anemometer for measuring wind speed	None

Additional Features

Zones	Time of Day	Day of Week	Other	If Data Link is Discontinued
The original Hunter controller may have up to 48 zones depending on the model.	Separately programmable start times for ET controlled zones. NOTE: ET System WiltGard™ will override time of day restrictions.	ET System has day of week, even/odd date, and interval Day scheduling (up to 31 days). NOTE: ET System WiltGard™ will override day of week restrictions	<input type="checkbox"/> WiltGard™ technology Enables it to trigger protective watering when extreme conditions threaten your plants <input type="checkbox"/> ET information combines with each zone's particular plant, soil, sun, and sprinkler data <input type="checkbox"/> Easily upgrades most Hunter controllers to weather-based control with no high voltage AC wiring required <input type="checkbox"/> Non-volatile memory	If wiring to on-site ET System sensor is removed, system displays fault message and operates on last full 24 hour ET average. Traditional controller schedules may be selected manually if sensor service is required.