



G70B/75B Series Golf and Large Turf Gear Driven Rotors



Hunter's G70B/75B series Golf and Large Turf Rotors are easy to adjust, easy to maintain and provide everything the turf professional looks for in mid-distance coverage. A time-tested gear drive. Superior filtration. Convenient through-the-top serviceability. A sturdy, impact-resistant body. And Hunter's patented, precision-engineered PressurePort™ nozzling system, which reduces velocity and pressure to the secondary nozzles while increasing droplet size to deliver uniform distribution. Both the Full Circle G70B and the Adjustable Arc G75B are offered with a full compliment of interchangeable, color-coded nozzles. These rotors are retro-compatible with virtually any system that covers a radius from 47' to 75'.

Features:

- Color Coded nozzles for true uniform coverage and fast identification
- Exclusive PressurePort™ nozzling system for improved distribution uniformity
- Through-the-top serviceability with easy access to screen, gear drive and valve assemblies
- Closed case rotor with absolute protection from dirt
- Proven, heavy-duty gear drive for enduring reliability
- Impact-resistant flanged body provides stability and protection from heavy equipment damage
- Water activated riser seal ensures clean flushing and positive retraction

ITEM	DESCRIPTION
43000701	G70B-25S HUNTER FC BLOCK 25NOZ
43000751	G75B-25S HUNTER PC BLOCK 25NOZ

Models:

- G70B- Full Circle
- G75B- Adjustable arc (40° -360°)

Model Variations:

- G70B/G75B-Block checks up to 10 feet in elevation change

Dimensions:

- Pop-Up height: 4"
- Female inlet: 1-1/4" ACME
- Flange diameter: 4 3/4"
- Overall height: 9"

Operating Specifications:

G70

- Discharge rate: 13 to 33.7 gpm
- Radius: 53' to 75'
- Pressure range: 50 to 100 psi

G75

- Discharge rate: 7.7 to 32.3 gpm
- Radius: 47' to 71'
- Pressure range: 40 to 100 psi

Warranty

- 5-year component exchange, not prorated

G70B Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
15 Gray	50	53'	13.0
	60	54'	14.1
	70	56'	15.5
18 Red	80	58'	16.3
	50	58'	14.2
	60	59'	15.9
20 Dk. Brown	70	60'	16.9
	80	61'	17.8
	60	61'	18.8
23 Dk. Green	70	63'	20.5
	80	64'	22.0
	90	64'	23.4
25 Dk. Blue*	60	63'	20.1
	70	65'	21.9
	80	66'	23.4
28 Black	90	67'	24.9
	60	65'	21.8
	70	67'	23.6
25 Dk. Blue*	80	69'	25.3
	90	71'	26.9
	70	71'	28.1
28 Black	80	71'	29.9
	90	73'	31.8
	100	75'	33.7



G75B Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
8 Lt. Brown	40	47'	7.7
	50	49'	8.3
	60	50'	9.2
10 Lt. Green	70	51'	9.9
	50	53'	10.9
	60	54'	12.0
13 Lt. Blue	70	55'	13.1
	80	56'	14.3
	50	55'	11.2
15 Dk. Green	60	56'	12.3
	70	57'	13.3
	80	57'	14.3
18 Red	50	57'	13.4
	60	58'	14.3
	70	59'	15.2
20 Dk. Brown	80	60'	16.4
	50	60'	14.5
	60	61'	15.7
23 Dk. Green	70	62'	16.9
	80	63'	18.2
	60	62'	17.8
25 Dk. Blue*	70	63'	19.2
	80	64'	20.5
	90	65'	21.8
28 Black	60	64'	21.9
	70	65'	23.6
	80	66'	25.6
25 Dk. Blue*	90	67'	27.0
	60	65'	25.6
	70	67'	26.2
28 Black	80	69'	28.0
	90	71'	29.8
	70	66'	28.9
25 Dk. Blue*	80	68'	28.7
	90	70'	30.6
	100	71'	32.3

* Denotes nozzle installed in standard stocking unit (SSU)





G90/95 Series Golf and Large Turf Gear Driven Rotors



Hunter's heavy-duty G90/95 series Golf and Large Turf rotors deliver quality performance with a radius of up to 97'. And with Hunter's exclusive PressurePort™ nozzling system, velocity and pressure to the secondary nozzles are reduced while droplet size is increased, resulting in optimum efficiency. The G90 series rotors offer reliable gear drive operation, a contamination resistant diaphragm valve, and the convenience of through-the-top serviceability.

Features:

- 6 Color-coded primary nozzles for uniform coverage and fast identification
- Exclusive PressurePort™ nozzling for improved distribution uniformity
- Through-the-top serviceability with easy access to screen, gear drive and valve assemblies
- Closed case rotor for absolute protection from dirt
- Impact-resistant flanged body provides stability and protection from heavy equipment damage
- Water activated riser seal for clean flushing action and positive retraction
- PureFlow contamination-resistant valve system with positive valve shutoff; extra protection from dirt and dirty water

ITEM	DESCRIPTION
43000903	G90C-53S HUNTER FC CHECK 53NOZ
43000905	G90E-53P8S HUNTER FC VIH 53NOZ
43000953	G95C-53S HUNTER PC CHECK 53NOZ
43000955	G95E-53P8S HUNTER PC VIH 53NOZ

Models:

- G90- Full Circle
- G95- Adjustable arc (40° -360°)

Model Variations:

- G90C/G95C- Check-O-Matic checks up to 25 feet in elevation change
- G90E/G95E- Electric Valve-in-Head with pressure regulation, on-off-auto selector, 0.25 A (0.40 a inrush) solenoid with captive plunger

Dimensions:

- Pop-Up height: 3"
- Female inlet: 1 1/4" ACME*
- Flange diameter: 7-1/2"
- Overall height: 12-1/2"

Operating Specifications:

G90

- Discharge rate: 27.6 to 67.1 gpm
- Radius: 69' to 97'
- Pressure range: 60 to 100 psi

G95

- Discharge rate: 26.4 to 62.7 gpm
- Radius: 67' to 89'
- Pressure range: 60 to 100 psi

Warranty

- 5-year component exchange, not prorated



G90 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
33 Gray	60	69'	27.6
	70	73'	29.8
	80	75'	31.8
	90	77'	33.6
	100	77'	35.7
38 Red	60	76'	33.3
	70	79'	36.1
	80	82'	38.3
	90	85'	40.2
	100	87'	42.8
43 Dk. Brown	60	78'	38.1
	70	80'	40.3
	80	84'	43.2
	90	86'	46.2
	100	90'	48.5
48 Dk. Green	70	84'	44.5
	80	88'	47.3
	90	92'	50.6
	100	94'	53.8
53 Dk. Blue*	70	90'	50.5
	80	92'	53.5
	90	94'	57.4
	100	96'	59.5
63 Black	70	88'	56.0
	80	92'	59.5
	90	95'	63.3
	100	97'	67.1

G95 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
33 Gray	60	67'	27.4
	70	67'	28.4
	80	69'	30.4
	90	69'	31.9
	100	69'	33.8
38 Red	60	71'	31.4
	70	73'	33.8
	80	73'	36.4
	90	73'	38.6
	100	75'	40.3
43 Dk. Brown	60	75'	35.5
	70	77'	48.4
	80	79'	40.9
	90	79'	43.7
	100	79'	45.8
48 Dk. Green	70	75'	43.5
	80	77'	46.6
	90	77'	49.0
	100	81'	52.5
53 Dk. Blue*	70	83'	48.5
	80	85'	52.0
	90	89'	55.2
	100	89'	58.4
63 Black	70	86'	53.1
	80	89'	57.0
	90	89'	60.7
	100	89'	62.7

* Denotes nozzle installed in standard stocking unit (SSU)



G870/875 Series Golf and Large Turf Gear Driven Rotors



A top performer on the course that makes easy maintenance a top priority. Featuring a totally revolutionary design, the new G870 is the first electric valve-in-head rotor where all parts are completely serviceable from the top. Not just the internal gear-drive and valve, but the pilot valve, pressure regulator, solenoid, valve seat and rock screen as well. But, ease of service isn't all that this new product has to offer. The G870 is also exceptionally versatile, with its wide range of flow and radius capabilities, a unique Check-O-Matic version that converts to support Normally Open Hydraulic valve-in-head installations, and adjustable pressure regulation with internal downstream porting on the electric versions. There's also a choice of full- and adjustable part-circle models, all offering a complete range of interchangeable, color-coded nozzles to meet your every need. And, thanks to Hunter's patented Pressure Port™ technology, the G870 delivers the ultimate in distribution uniformity. Through-the-top serviceability and over the top performance. It's a combination that makes the G870 your top choice.

FEATURES:

- All components easily accessed without digging up the turf
- Service the pilot valve, pressure regulator, solenoid, wire connections, inlet valve seat and rock screen without disturbing turf
- Unitized valve includes snap ring, valve seat, and rock screen; flush piping and repair leaks caused by contamination with ease
- Adjustable pressure regulation hidden in flange compartment prevents adjustments by untrained personnel or golfers while maintaining flexibility
- Closed-case design and integrated heavy-duty snap ring seal helps prevent stick-ups and leaking seals caused by external contaminants and top-dressing

- Exclusive Pressure Port™ performance enhancing technology; patented design delivers uniform water coverage to keep courses looking great
- Created by the world leader in gear-driven rotors; performance, reliability and long life assured by the company that has set the standards for rotor quality

Models:

- G870- Full Circle
- G875- Adjustable arc (40° -360°)

Model Variations:

- G870C/G867C-Check-O-Matic checks up to 25 feet in elevation change and readily converts to normally open hydraulic with through the top connections
- G870E/G875E- Electric Valve-in-Head with adjustable pressure regulation, on-off-auto selector, 0.25A (0.40A inrush) solenoid with captive plunger

Dimensions:

- Pop-Up height: 3-1/2"
- Female inlet: 1-1/2" ACME
- Flange diameter: 7-1/4"
- Overall height: 11-3/4"

Operating Specifications:

- Discharge rate: 13 to 32 gpm
- Radius: 53' to 76'
- Pressure range: 50 to 100 psi

G870 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
15 Gray	50	53'	13.0
	60	54'	14.1
	70	56'	15.5
18 Red	80	58'	16.3
	50	58'	14.2
	60	59'	15.9
20 Dk. Brown	70	60'	16.9
	80	61'	17.8
	60	61'	18.8
23 Dk. Green	70	63'	20.5
	80	64'	22.0
	90	64'	23.4
25 Dk. Blue*	60	63'	20.1
	70	65'	21.9
	80	66'	23.4
28 Black	90	67'	24.9
	60	65'	21.8
	70	67'	23.6
	80	69'	25.3
	90	71'	26.9
	70	71'	28.1
	80	71'	29.9
	90	73'	31.8
	100	75'	33.7

G875

- Discharge rate: 7.7 to 31.5 gpm
- Radius: 47' to 73'
- Pressure range: 40 to 100 psi

ITEM	DESCRIPTION
43001303	G870C-25S HUNTR FC CHECK 25NZ
43001305	G870E-25P8S HUNTER FC VIH 25NZ
43001353	G875C-25S HUNTER PC CHECK 25NZ
43001355	G875E-25P8S HUNTER PC VIH 25NZ

G875 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
8 Lt. Brown	40	47'	7.7
	50	49'	8.3
	60	50'	9.2
	70	51'	9.9
10 Lt. Green	50	53'	10.9
	60	54'	12.0
	70	55'	13.1
13 Lt. Blue	80	56'	14.3
	50	55'	11.2
	60	56'	12.3
15 Dk. Green	70	57'	13.3
	80	57'	14.3
	50	58'	13.4
18 Red	60	59'	14.3
	70	59'	15.2
	80	60'	16.4
20 Dk. Brown	50	60'	14.5
	60	61'	15.7
	70	62'	16.9
23 Dk. Green	80	63'	18.2
	60	62'	17.8
	70	63'	19.2
25 Dk. Blue*	80	64'	20.5
	90	65'	21.8
	60	64'	21.9
28 Black	70	65'	23.6
	80	66'	25.6
	90	67'	27.0
	60	70'	25.6
	70	71'	26.2
	80	71'	28.0
	90	72'	29.8
	70	71'	26.9
	80	72'	28.7
	90	73'	30.6
	100	73'	31.5

* Denotes nozzle installed in standard stocking unit (SSU)





G880 Gear Driven Rotors



The ideal choice for large radius, high capacity rotor applications is the new Hunter G880. Not only does this long throw specialist deliver the ultimate in distribution uniformity, it can also be completely serviced from the top without disrupting the turf. And that means not just the pop-up riser and inlet valve, but the pilot valve, solenoid, valve seat and rock screen as well! First introduced in the mid-range G860 and G870, this totally revolutionary design is a Hunter exclusive. The full-circle G880 features a wide range of color-coded nozzles and adjustable pressure regulation with internal down-stream porting (electric models). Plus, there's a unique Check-O-Matic/Hydraulic model with through-the-top tubing connections. A big rotor that's not a big hassle, through the top serviceability makes the G880 the head of its class.

FEATURES & BENEFITS

- All components easily accessed without digging up the turf; service the pilot valve, pressure regulator, solenoid, wire connections, inlet valve, valve seat and rock screen without disturbing turf
- Unitized valve includes snap ring, valve seat, and rock screen; flush piping and repair leaks caused by contamination with ease
- Adjustable pressure regulation hidden in flange compartment prevents adjustments by untrained personnel or golfers while maintaining flexibility
- Closed-case design and integrated heavy-duty snap ring seal helps prevent stick-ups and leaking seals caused by external contaminants and top-dressing
- Created by the world leader in gear-driven rotors; performance, reliability and long life assured by the company that has set the standards for rotor quality

Models:

- G880- Full Circle

Model Variations:

- G880C - Check-O-Matic checks up to 25 feet in elevation change and readily converts to normally open hydraulic with through the top connections
- G880E - Electric Valve-in-Head with adjustable pressure regulation, on-off-auto selector, 0.25A (0.40A inrush) solenoid with captive plunger

Dimensions:

- Pop-Up height: 3-1/2"
- Female inlet: 1-1/2" ACME
- Flange diameter: 7-1/4"
- Overall height: 11-3/4"

Operating Specifications:

G880

- Discharge rate: 22.5 to 57.9 gpm
- Radius: 67' to 88'
- Pressure range: 65 to 100 psi

ITEM	DESCRIPTION
43001403	G880C-48S HUNTR FC CHECK 48NZ
43001405	G880E-48P8S HUNTR FC VIH 25NZ

G880 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
25 Lt. Blue	65	67'	22.5
	70	69'	23.9
	80	71'	26.0
	90	72'	27.9
33 Gray	100	73'	29.8
	65	73'	31.0
	70	74'	32.2
	80	76'	34.7
38 Red	90	77'	37.0
	100	78'	38.8
	65	76'	35.1
	70	77'	36.3
43 Dk. Brown	80	79'	38.5
	90	80'	40.5
	100	81'	42.9
	65	78'	39.2
48 Dk. Green*	70	79'	40.8
	80	82'	43.7
	90	83'	46.5
	100	84'	48.8
53 Dk. Blue	65	82'	43.8
	70	83'	46.3
	80	85'	49.0
	90	86'	51.9
	100	87'	54.4
	65	83'	46.9
	70	84'	49.1
	80	87'	52.6
	90	88'	54.8
	100	88'	57.9

* Denotes nozzle installed in standard stocking unit (SSU)

G80RT Riser Conversion



Extend the life of your Toro® irrigation system. The RT converts your sprinkler into a closed-case rotor for greater resistance to external contamination.

Features:

- Quick and easy conversion
- G70RT/75RT adapts to 630, 730 and 760 Toro® rotors
- G80RT adapts to 650, 670, 680, 750 and 780 Toro® rotors
- Converts sprinkler into closed case rotor
- Wide range of color-coded interchangeable nozzles
- 3" pop-up with a stainless steel riser

ITEM	DESCRIPTION
43001470	G70RT RETRO RISER -630/730/760
43001475	G75RT RETRO RISER -630/730/760
43001480	G80RT RETRO RISER -650/680/750

Hose Swivel Adapter



- Converts installed golf rotor into convenient 1" hose outlet.

ITEM	DESCRIPTION
43001840	G90-HS100 G90 HOSE SWIVEL ADPT
43001860	G800-HS100 G800 HOSE SWVL ADPT



G990/995 Series Golf and Large Turf Gear Driven Rotors



Hunter's heavy-duty G990/995 series Golf and Large Turf rotors deliver quality performance with a radius of up to 97'. Not only does this long throw specialist deliver the ultimate in distribution uniformity, it can also be completely serviced from the top without disrupting the turf. And that means not just the pop-up riser and inlet valve, but the pilot valve, solenoid, valve seat and rock screen as well! And with Hunter's exclusive PressurePort™ nozzling system, velocity and pressure to the secondary nozzles are reduced while droplet size is increased, resulting in optimum efficiency. The G990 series rotors offer reliable gear drive operation, a contamination resistant diaphragm valve, and the convenience of through-the-top serviceability.

Features:

- 6 Color-coded primary nozzles for uniform coverage and fast identification
- Exclusive PressurePort™ nozzling for improved distribution uniformity
- Through-the-top serviceability with easy access to screen, gear drive and valve assemblies
- Closed case rotor for absolute protection from dirt
- Impact-resistant flanged body provides stability and protection from heavy equipment damage
- Water activated riser seal for clean flushing action and positive retraction
- PureFlow contamination-resistant valve system with positive valve shutoff; extra protection from dirt and dirty water

ITEM	DESCRIPTION
43001503	G990C HUNTER ROTOR
43001505	G990E HUNTER ROTOR
43001553	G995C HUNTER ROTOR
43001555	G995C HUNTER ROTOR

Models:

- G90- Full Circle
- G95- Adjustable arc (40° -360°)

Model Variations:

- G990C/G995C- Check-O-Matic checks up to 25 feet in elevation change
- G990E/G995E- Electric Valve-in-Head with pressure regulation, on-off-auto selector, 0.25 A (0.40 a inrush) solenoid with captive plunger

Dimensions:

- Pop-Up height: 3"
- Female inlet: 1 1/2" ACME*
- Flange diameter: 8-1/2"
- Overall height: 13-3/4"

Operating Specifications:

G990

- Discharge rate: 27.6 to 67.1 gpm
- Radius: 69' to 97'
- Pressure range: 80 to 120 psi

G995

- Discharge rate: 26.4 to 62.7 gpm
- Radius: 67' to 89'
- Pressure range: 80 to 120 psi

Warranty

- 5-year component exchange, not prorated

G990 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
33 Gray	60	69'	27.6
	70	73'	29.8
	80	75'	31.8
	90	77'	33.6
	100	77'	35.7
38 Red	60	76'	33.3
	70	79'	36.1
	80	82'	38.3
	90	85'	40.2
	100	87'	42.8
43 Dk. Brown	60	78'	38.1
	70	80'	40.3
	80	84'	43.2
	90	86'	46.2
	100	90'	48.5
48 Dk. Green	70	84'	44.5
	80	88'	47.3
	90	92'	50.6
	100	94'	53.8
	53 Dk. Blue*	70	90'
80		92'	53.5
90		94'	57.4
100		96'	59.5
63 Black		70	88'
	80	92'	59.5
	90	95'	63.3
	100	97'	67.1

G995 Performance Chart

Color Coded Nozzles	Pressure PSI	Radius Ft.	Flow GPM
33 Gray	60	67'	27.4
	70	67'	28.4
	80	69'	30.4
	90	69'	31.9
	100	69'	33.8
38 Red	60	71'	31.4
	70	73'	33.8
	80	73'	36.4
	90	73'	38.6
	100	75'	40.3
43 Dk. Brown	60	75'	35.5
	70	77'	48.4
	80	79'	40.9
	90	79'	43.7
	100	79'	45.8
48 Dk. Green	70	75'	43.5
	80	77'	46.6
	90	77'	49.0
	100	81'	52.5
	53 Dk. Blue*	70	83'
80		85'	52.0
90		89'	55.2
100		89'	58.4
63 Black		70	86'
	80	89'	57.0
	90	89'	60.7
	100	89'	62.7

* Denotes nozzle installed in standard stocking unit (SSU)



Hunter® FIELD CONTROLLERS G O L F

IRRIGATION

GOLF



Stand-alone, Hardwire & Radio Genesis Field Controller

The Genesis Field Controller provides top performance as a stand-alone unit or as one of many in a network. Its full-featured modular design allows quick and easy field upgrades to 60 stations and to a central-ready hardwire or radio equipped controller. With two-way, command-verified communication, programs are stored in the unit's nonvolatile memory to allow complete irrigation schedules without continuous direction from the central computer. Solid construction and dependable operation are the hallmark of this controller, as demonstrated by features like built-in heavy duty surge and lightning protection, all-weather stainless steel pedestal with locking lid, 20 program and start time combinations, manual and semiautomatic functions, multiple or continuous cycles with cycle delay capabilities, and a large weather-tight keypad with illuminated LCD display. For added convenience, the Straight-Talk Maintenance Radio offers direct remote control to each Field Controller.

Features:

- 20 programs, manual/semiautomatic starts, multiple/continuous cycles with cycle delay capabilities for maximum program flexibility.
- Up to 60 stations with optional manual On-Off-Auto per station. High capacity with 10-station expansion modules to reduce cost.
- Non-volatile field resident memory retains programs if power or communications fail.
- Heavy duty surge and lightning protection ensures long life and reliable operation.
- Automatic current overload protection from multi-source field malfunctions.
- 16 gauge, lockable stainless steel pedestal.
- Modular communications design permits upgrade of stand-alone to central-ready at any time.
- Straight-Talk™ Maintenance Radio allows remote control from your walkie-talkie.

Dimensions:

- 36" (92cm) tall x 13 1/2" (35cm) wide x 10" (26cm) deep

Warranty:

- 2 years component exchange (see grounding requirements in installation manual)

Electrical Specifications:

- Primary (input): 105-125VAC, 60 Hz
1 A maximum
- Secondary(output): 24 VAC, 50/60 Hz
1 A maximum per station
3 A total output
1.67 A communications output

Signal Output:

- Hardwire: 4-20 milliamp loop
- Radio: 2 watts

Communications Cable (Hardwire):

- GCBL: Shielded 2 twisted pair, 18AWG
- GCBLA: Armored, shielded 2 twisted pair, 18AWG (for direct-burial applications)

Options:

- SW: On-off-Auto switches for each station
- GMR: Maintenance Radio for hardwire version (option to central interface, hardwired systems only)
- TRNR: Handheld Radio for Maintenance Radio or Straight-Talk communications

Plastic Cabinet

ITEM	DESCRIPTION
43004030	GFPC20S 20ST PLST FIELD CNTRL
43004130	GFPC20SSW 20ST PLST FC W/SWCH
43004430	GFPC20HW 20ST PLST HW FLD CO
43004530	GFPC20HWSW 20ST PLS HW FC W/SW
43004830	GFPC20R 20ST PLS RADIO FLD CNT
43004930	GFPC20RSW 20ST PLS RADIO FC SW

Stainless Steel Cabinet

43004020	GFCS-20S 20ST STD FIELD CNTRL
43004120	GFCS-20SSW 20ST STD FC W/SWCH
43004420	GFCS-20HW 20ST HW FIELD CNTRL
43004520	GFCS-20HWSW 20ST HW FC W/SWCH
43004820	GFCS-20R 20ST RADIO FLD CNTRL
43004920	GFCS-20RSW 20ST RADIO FC SWCH

Controller Expansion Modules

43006110	GFCKTEXP10 10ST FC EXP
43006120	GFCKTEXP10S 10ST FC EX

Genesis Central Computerized Control System



Stand-alone Genesis Field Controllers can be upgraded to computerized central control at any time. The full-featured Genesis Central is a simple to operate yet powerful Windows based management tool allowing full programming and control of genesis radio or hardwire field controllers, data retrieval units and weather stations.

Features:

- One Windows program for all controller configurations; common software for hardwire, radio and 2-wire decoder systems
- Two-way command verification communication, monitors field conditions and program functionality in real-time
- Multiple or continuous cycles; cycle delays reduce water use by allowing soak-in
- Manages up to 999 field controllers
- Automatic Et adjustment by station matches water usage to daily weather condition.
- Calculates total program run times; as water times change, water window is always known
- 1 to 512% water budgeting, 1 to 32 day scheduling
- Reports system status daily and identifies overloads or abnormal conditions
- Added control with View Spreadsheet Function

Optional Computer:

- 350Mhz Pentium II processor
- 64 Mb ram
- Super VGA color monitor
- 4 serial ports and 1 parallel port
- 10 GB hard drive
- PS/2 mouse
- Windows 98 operating system
- High speed CD-Rom drive

Software:

- Windows 95 and 98
- Supplied on CD-ROM or (3) 3.5" disks
- GVIK1 software and cable interface for decoder programming. Supplied on 3.5" disks.

Genesis Control System

ITEM	DESCRIPTION
43001980	GENESIS CENTRAL SOFTWARE CD
43001985	GENESIS CENTRL GRAPHICS UPGRAD
43002180	TRISEND NO RADIO INTERFACE
43002190	TRISEND W/ RADIO INTERFACE
43002210	DATHW HW DATA RETRIEVAL UNIT
43002220	DATR RADIO DATA RETRIEVAL UNIT
43002310	GENDATRC RAIN CATCHMENT BUCKET
43002320	GENDATFL GENESIS FLOW SENSOR
43002330	GENDATAN GENESIS ANEMOMETER
43002360	CWS4 WEATHER STATION W/SOFTWAR
43002510	TRNR HANDHELD UHF MAINT RADIO
43002610	HUNTER STANDARD COMPUTER
43002630	HUNTER PREMIUM COMPUTER
43002710	GCBL 18-4 COMM CABLE 4000FT
43002720	GCBLA ARMORED COMM CABL 4000FT

Viking Two-wire Decoder Control



Reducing equipment and installation costs in a golf course irrigation system, while maintaining quality and program flexibility, has become a reality with the Genesis Viking system. A single two-wire cable is installed over the entire course and connects heavy duty watertight decoders which both select and power valves and/or electric valve-in-head sprinklers. This economical system can be operated from a stand-alone, pedestal-mounted console, multiple consoles, or can be upgraded for integration with a Windows-driven Genesis Central control system. A Single Viking console operates up to 103 decoders/stations and up to 8 stations can operated simultaneously. To insure easy installation, each Viking field component features color-coded wire leads, and all surge protectors

have built-in ground leads. Proven over several years to survive in severe moisture and environmental extremes, Viking can be counted on to deliver flawless performance even in the harshest of conditions.

Features:

- 103 station controllers; up to 8 stations operating simultaneously. Reduces cost by reducing wire and installation time.
- 1 two-wire cable with decoders activates the entire system.
- 20 independent start times for flexible programming.
- Multiple or continuous cycles with programmable cycle delays allows soak-in time between cycles which reduces water waste.
- Water budgeting (1-512%) and 1 to 32 day scheduling.
- Non-volatile field resident memory retains program if power or communication fails.
- Easy communications upgrades via hardware or radio. Add the power of central computer control at any time.
- Rugged field decoders with proven surge protection.

Console Dimensions:

- 36" (92cm) tall x 13 1/2" (35cm) wide x 10" (26cm) deep

Console Electrical Specifications:

- Primary(input)-105-125VAC, 50/60Hz, 1Amp max

Numbering of Solenoids operated by a single decoder:

- 2 (average-depends on solenoids)

Decoder Wiring:

- GVIKCBL1: #14-2 Cable, maximum distance (10,000')
- GVIKCBL2:#12-2 Cable, maimum distance (15,000')

Decoder Electrical Specifications:

- Decoder output current: 12 mA
- Decoder stand by current: .4 mA

Warranty:

- 2 years component exchange (see grounding requirements)or radio. Add the power of central computer control at any time.
- Rugged field decoders with proven surge protection.

Console Dimensions:

- 36" (92cm) tall x 13 1/2" (35cm) wide x 10" (26cm) deep

Console Electrical Specifications:

- Primary(input)-105-125VAC, 50/60Hz, 1Amp max

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- GVIKCBL2:#12-2 Cable, maimum distance (15,000')

Decoder Electrical Specifications:

- Decoder output current: 12 mA
- Decoder stand by current: .4 mA

Warranty:

- 2 years component exchange (see grounding requirements)

Viking Decoder

ITEM	DESCRIPTION
43002750	VIKING 14-2 2-WIRE CABLE 2500F
43002760	VIKING 12-2 2-WIRE CABLE 2500F

Steel Cabinet

43005010	VGFCSS VIKING 103ST STD FC
43005110	VGFCSHW VIKING 103ST HW FC
43005210	VGFCSR VIKING 103ST RADIO FC
43005310	VVFCSS VIKING 103ST STD VSX FC
43005410	VVFCSHW VIKING 103ST HW VSX FC
43005510	VVFCSR VIKING 103ST RADIO VSX

Plastic Cabinet

43005030	VGFCPS VIKING 103ST PLS STD FC
43005130	VGFCPHW VIKING 103ST PLS HW FC
43005230	VGFCPR VIKING 103ST PL RADIO FC
43005330	VVFCPS VIKING 103ST PLASTIC VSX FC
43005430	VVFCPHW VIKING 103ST PL HW VSX
43005530	VVFCPR VIKING 103S PL RADIO VSX
43006810	GVIK-DEC VIKING 2-WIRE DECO
43006840	GVIK-DEC4 VIKING 4-WIRE DECO
43006860	GVIK-LSPN LINE SURGE SUPPRES
43006870	GVIK-LSPE END SURGE SUPPRES
43006890	GVIK-1 PROGRAM SOFTWARE/CABLE

Surveyor Central Irrigation Control System



Surveyor™ puts you in the driver's seat, with user-programmable map symbols, a built-in library of popular sprinkler types and the ability to create or edit your own map symbols. Physical changes to your system can be edited into your control system with a few clicks. The smooth-scrolling map can show course irrigation areas, field controllers or even individual sprinklers. Pop-up windows can instantly show you every characteristic of that sprinkler including model, nozzle size, flow, pressure, precipitation rate and the surrounding soil infiltration rate...just to name a few. Automatic scheduling based on your plants, soil and weather, save you time, water and money, while auto-balancing flow to keep your equipment running at optimum efficiency. Simple slider adjustments, on an incredibly easy-to-use control panel, let you make system adjustments at the end of the day without fuss or keyboard entry. The VSX controllers will log their own activity and report it to the central computer automatically, or any time on demand.

Features:

- Operating Systems: Windows2000 or XP (Pro or Home Editions)
- Max System Programs: Unlimited
- Stored, named adjustments: Unlimited
- Contingency Programs: Unlimited
- Maximum Field Controllers: 999
- Maximum stations: 102,897
- Scheduling: Manually entered or ET-based
- Flow Management: To station level; automated and graphed
- Graphics: Custom; raster (scan, photo) or vector (DXF import) or both
- Full functionality without graphics: Yes
- Built-in Map Editor with customizable Drawing Objects
- Built-in Task Scheduler: 100-year+advanced scheduling with pop-up notification
- Stored Historical Reports: 5 years minimum

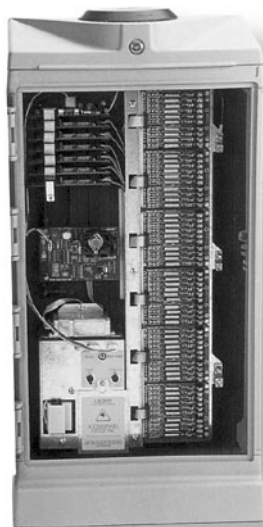
Field Controller Dimensions

- Stainless Steel Pedestal: 34.5" tall x 18" wide x 10" deep
- Plastic Pedestal: 35" tall x 17.5" wide x 10.5" deep
- Average weight: 56 lbs (25.5 kilos)

ITEM	DESCRIPTION
43001990	SURVEYOR CENTRAL SOFTWARE CD



VSX Field Controllers



Based on the proven and reliable Genesis Field Controller, VSX Field Controllers are really two control packages in one:

- A powerful standalone timer system for new construction grow-in, or special applications
- The intelligent, interactive VSX field controller for Surveyor systems

VSX Field Controllers may also operate in a standalone "timer mode" for grow-in periods (during new construction, before the central is available). Using a greatly enhanced operating system, the controllers intuitive keypad allows the superintendent to program the controller quickly and easily.

UP to 64 local automatic programs can be created for special applications or for standalone operations. Innovative new "preset" technology allows you to customize and store common routines (such as syringe cycles) and start them with ease. All preset an automatic programs feature alphabetical labels for quick and easy identification an activation. And a new "block" function allows you to group similar stations to run simultaneously (up to 8) -then sequence the blocks to run as an automatic program!

True Two-Way communication and field resident memory ensure that your course will be irrigated without dependency upon a central computer or communication links. VSX Field Controllers are available with either hardware or synthesized UHF radio communications, or can be fully functional standalone controllers. All are available with Maintenance Radio remote control.

Features:

- Over 64 independent local programs (in addition to Surveyor downloads).
- Up to 15 cycles each, and cycle delays. Allow soak-in time for slopes or compacted soils to prevent puddling.
- Quick-touch presets for common routines. Store special syringe, dew wipe and other routines for instant access, with actual names instead of numbers.
- Block mode sequences up to 64 groups of up to 8 stations each. Faster programming, more efficient flow control during grow-in (also works with presets)
- Multi-manual program of up to 8 stations running simultaneously.
- Selectable daily, day-of-week or 14-day scheduling by program.
- 20-, 30-, 40-, 50-, or 60-stations unit, with manual on-off-auto option for each station. Expand as needed (up to 103-station available in decoder versions)
- Field-resident memory. Prevents program loss in event of computer or communication failure.
- Alphanumeric program labels. Quickly find or run individual programs.
- Automatic current overload protection
- Attractive, key-lockable stainless steel or plastic pedestals and wall mounts.
- 75VA transformer for station activation (separate 40VA transformer for communications)

Plastic Cabinet

ITEM	DESCRIPTION
43003030	VFCP20S 20ST PLASTICT VSX CNTRL
43003130	VFCP20SSW 20ST PLST VSX W/SWTC
43003430	VFCP20HW 20ST PLST HW VSX FC
43003530	VFCP20HWSW 20ST PLS HW VSX SWI
43003830	VFCP20R 20ST PLASTIC RADIO VSX FC
43003930	VFCP20RSW 20ST PL RADIO VSX SW

Stainless Steel Cabinet

ITEM	DESCRIPTION
43003020	VFCS-20S 20ST STD VSX CNTRL
43003120	VFCS-20SSW 20ST VSX W/SWITCH
43003420	VFCS-20HW 20ST HW VSX CNTRL
43003520	VFCS-20HWSW 20ST HW VSX W/SWCH
43003820	VFCS-20R 20ST RADIO VSX CNTRL
43003920	VFCS-20RSW 20ST RADIO VSX SWCH
43002999	CONTROLLR INSTALL TEMPLATE KIT

Antenna Cables

ITEM	DESCRIPTION
43002810	UHF STEALTH ANTENNA 15FT CABLE
43002820	GFC UHF STEALTH ANTENNA W/LID
43002950	UHF YAGI TYPE ANTENNA 6DB GAIN
43002960	UHF MAST TYPE ANTENNA 5DB GAIN
43002985	50FT YAGI ANTENNA RG8 CABLE
43002995	50FT MAST ANTENNA RG8 CABLE