

# **Controller Catalog**

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www.advantagecontrols.com

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than 3 months old that is still in production.

Minimum Order - There is a minimum net order amount of \$30.00, excluding shipping.

**Please Note -** Possession of price list does not ensure right to purchase direct. Due to continuous improvement of products, prices subject to change without notice.

# Web Advantage

Get the optional internet communications card and Web Advantage lets you constantly stay connected to your unit over the internet and get emailed reports automatically sent to you at no charge.

Web Advantage is a totally secure server dedicated to keeping track of all of your internet connected MegaTron units. Any MegaTron equipped with an internet connection option will be monitored 24 hours a day by Web Advantage providing you constant, real time information. Web Advantage allows you to change settings, generate history reports automatically and select who to send email alarm notifications to, should Web Advantage detect any system conditions outside your parameters.

#### WEBADV-RTF......WebAdvantage Admin Transfer Fee

Access to Web Advantage has no annual fee! There is simply a connection fee to establish ownership rights. The initial connection fee is included free with the purchase of a MegaTron with communications, giving the original buyer ownership rights also. If a MegaTron's ownership changes from the original buyer, the transfer fee will be charged to establish new ownership rights.

#### WEBADV-XSCLOUD

XS controllers not on the web and purchased without a communications card can have their USB downloaded data stored on WebAdvantage for a one-time setup charge.

#### WEBADV-MTCLOUD

For non-web connected MT controllers, virtual hosting on WebAdvantage and history uploading.

## **MyTechReports**

MyTech Reports is a web-based reporting service that works to keep track of all your service reporting needs. The MyTechReports service allows water treaters and their partners to work together and act on data, from saving lab results and controller data to storing documents such as inspection videos, training material, SDS/PDS sheets, and more. The mobile app is available on Android and iOS, enabling employees to quickly access information from one location. A free trial is available, as well as packaged offerings to meet any business' needs.

# **MegaTron MT Controllers**

A single MT unit can control 1 to 4 systems and have up to 20 control relays. To build a model pick the function(s) needed by the type of probe. Add the code for each function you need for a system. For a multiple system controller list all of the functions of the first system followed by a dash then the functions for the next system. If system two is the same as the first just put (-X2). If the systems 2, 3 and 4 are the same as the first put a (-X4). After all system(s) functions use another dash and list all of the unit options needed. Example: MTCPF3E-CF3E-N4

# **MegaTron XS Controllers**

MegaTron XS units have all the features and functions of the larger MegaTron units in a smaller enclosure with just 5 control relays. To build a model pick the function(s) needed by the type of probe. If building a dual boiler unit put a – after the first system and list the system selections for the second system followed by the whole unit option. Example: XSB2F3-B2-H

Conductivity Control (1 per system max) -C0 = Tower Conductivity no probe After all System Card C8 = AL-4RTD pure water, ½" MNPT, RTD temp ...... 100 PSI (6.8 bar) @ 212°F (100°C) features are C10= DI-4A, 1" MNPT...... 120 PSI (8.2 bar) @ 125°F (51.6°C) selected go to the next page C12= AL-4ASS pure water, 1/2" MNPT, thermistor......100 PSI (6.8 bar) @ 212°F (100°C) for whole unit B = BE-34BC boiler probe, thermistor, 1" cross....... 250 PSI (17.2 bar) @ 400°F (204.4°C) options. B0 = Boiler conductivity no probe B1 = BE-4RTDC boiler probe, RTD temp, 1" cross .... 250 PSI (17.2 bar) @ 400°F (204.4°C) B7 = BE-32-SC probe, no temp comp <sup>3</sup>/<sub>4</sub>" cross ....... 250 PSI (17.2 bar) @ 400°F (204.4°C) B9 = Boiler conductivity with RTD temp; no probe D1 = TE-4A high conductivity range (0-50,000)...... 120 PSI (8.2 bar) @ 125°F (51.6°C) Make-up / Miscellaneous Conductivity (max of 1 per system) ----MA = Alias make-up input of other make-up reading M0 = Make-up / miscellaneous conductivity no probe pH Control (1 per system max) For dual set point use Q instead of P MegaTron MT touch P = TPE-21 Standard Tower ...... 100 PSI (6.8 bar) @ 140°F (60°C) P0 = pH Control no probe screen units include: Communication card • Built in Wi-Fi • All card expansion slots P11 = PE-11 low ionic probe, 1/2" MNPT ...... 50 PSI (3.4 bar) @ 180°F (82.2°C) P15 = PE-21CS Corp-stop w/ pre amp, 1" FNPT ...... 100 PSI (6.8 bar) @ 165°F (73.8°C) **ORP Control** (1 per system max) -R0 = ORP Control no probe R4 = Tank mounted probe (OE-21 with DPE)......140°F (60°C) R5 = Tank mounted ORP w/ pre amp (OE-21, DPE & RTP-4) ...... 140°F (60°C) R15= OE-21CS Corp-stop w/ pre amp, 1" FNPT..... 100 PSI (6.8 bar) @ 180°F (82.2°C) Temperature Control (2 max / system – Each conductivity uses up one) — Feed Timers (max of 5 per system: 28-DAY, PULSE, %, Recycle, LIMIT or POST BLEED) -----F1 to F5 (F4 = Four feed timers) Flow Switches E = Standard float style switch PVC assembly ...... 120 PSI (8.2 bar) @ 125°F (51.6°C) E3 = Paddle flow switch PVC assembly ...... 120 PSI (8.2 bar) @ 125°F (51.6°C) E4 = Paddle flow switch PVC unassembled, 10' cord .... 120 PSI (8.2 bar) @ 125°F (51.6°C) E5 = Paddle switch brass assem. (order rated probes).. 250 PSI (17.2 bar) @ 75°F (23.8°C) E6 = Flow switch connection only with cable E8 = Standard float switch PVC unassembled, 10' cord 120 PSI (8.2 bar) @ 125°F (51.6°C) E11 = Flow indicator (0-10) with switch, PVC assembly... 100 PSI (6.8 bar) @ 125°F (51.6°C)

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# MegaTron MT Whole Unit Options

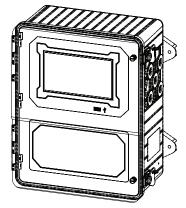
- A = Conduit connections, 120-volt relay cards
- A1 = Liquid tights only with 120-volt relay cards
- A3 = Liquid tights only with CE mark, 240 volt relay cards
- A5 = Prewired power cord to On/Off; 120-volt relay boards have no power
- A6 = Korean power cord, no pigtails, 240 volt relay cards
- A7 = Australian power cord, no pigtails, 240 volt relay cards
- A8 = Prewired USA power cord with 1/2" conduit relay connections; 120-volt
- A9 = Prewired USA power cord; no relay board(s)
- H7 = Adds Zigbee base radio
- H11 = Internet card with CAT5 connection and Modbus TCP/IP
- H21 = Internet card with CAT5 connection and BACnet TCP/IP
- K = Additional control relays (K, K2, K3 ....) don't exceed 20 relays total
- N4 = Four 4-20mA Inputs
- N8 = Eight 4-20mA Inputs
- O4 = Four 4-20mA Isolated Outputs
- O8 = Eight 4-20mA Isolated Outputs
- V4 = Additional 24 VDC power supply in lower section
- W = 10 auxiliary flow meter inputs
- Notes: 1. Pre-wired 4-20mA input cables w/ external connector ordered below.
  - 2. See page 30 for specialty sensors including PTSA, Free Chlorine and CL02.
  - 3. See page 36 for cell router and service for internet units.....

# **MegaTron MT Parts**

<b>U</b>	
MG-RL-05	Replacement relay card with 5 relays
MG-RL-05-BOX	Complete remote relay box with 5 relays
MG-RL-CPLR	Relay card ribbon cable to wire cable adapter inside controller
MG-RL-CPLR-EXT	Relay card adapter for remote relay box
MG-PWR	Power supply board
MT-DOOR	Clear cover
MG-FUSE-PAK	(5) 2.5 amp fuses
MT-ICM-11	Modbus communications card
MG-CAT5	CAT 5 cable from internal communications card
MG-CROSS	Crossover cable for H1 option
Wi-Fi-MODULE	Wi-fi module for MT and XS-capable units
MT-MAO-4	4-20mA output card with 4 outputs
MT-MAO-8	4-20mA output card with 8 outputs
MT-MAI-4	4-20mA input card with 4 inputs
MT-MAI-8	4-20mA input card with 8 inputs
MT-MAIO-4	4-20 input & output card with 4 inputs and 4 outputs
MT-PSDC24	24 VDC power supply for MT accessories
MT-AUXFLOW-W	10 auxiliary flow meter inputs
AUXFLOW-WIRE	Auxiliary flow meter input cable with 3 pin Molex
MT-SYS-	System card
	Add all of the desired system function codes from the unit model numbering system.
CABLE-7P-2	Prewired 2 conductor cable to mA input and 12VDC power with 7 pin connector, 6'
CABLE-7P-2A	Prewired 2 conductor cable to mA input and no voltage and 7 pin connector, 6'
CABLE-7P-4	Prewired 4 conductor cable to mA input and 12VDC power with 7 pin connector, 6'
	rewred + conductor cable to mA input and 12 vDC power with 7 pin connector, o

# MegaTron MT Field Upgrades

MegaTron MT units may be upgraded to add functions and features depending on desired additions and original option configuration. Contact the factory with the model and serial number of the unit and the additions for more details.



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# Build a MegaTron

Model XS

-

Conductivity Cont	roi — TE-4A Standard Tower probe120 PSI (8.2 bar) @ 125°F (51.6°C)	
	Te-4A Standard Tower probe	, , , , , , , , , , , , , , , , , , , ,
	TE-4ASS Standard Tower probe w/ SS tips	
	AH-4ASS 1" MNPT	
	DC-4ASS tank mount	
	AL-4RTD pure water, ½" MNPT, RTD temp	, I I Š
C10-	DI-4A, 1" MNPT	
	CS-4ASS corporation stop probe	
	AL-4ASS pure water, ½" MNPT, thermistor100 PSI (6.8 bar) @ 212°F (100°C) BE-34BC boiler probe, thermistor, 1" cross250 PSI (17.2 bar) @ 400°F (204.4°C)	
	Boiler conductivity no probe	for whole unit
		options.
	BE-4RTDC boiler probe, RTD temp, 1" cross250 PSI (17.2 bar) @ 400°F (204.4°C)	)
	BE-32C probe, no temp comp, 1" cross	
	BE-4RTD-SC boiler probe, RTD temp, <sup>3</sup> / <sub>4</sub> " cross 250 PSI (17.2 bar) @ 400°F (204.4°C)	
	BE-32-SC probe, no temp comp <sup>3</sup> / <sub>4</sub> " cross250 PSI (17.2 bar) @ 400°F (204.4°C	
	Boiler conductivity with RTD temp; no probe	
	DI-27-4A high conductivity range	
D1 =	TE-4A high conductivity range (0-50,000)120 PSI (8.2 bar) @ 125°F (51.6°C	
lake-up / Miscella	neous Conductivity (max of 1 per controller)	
	DI-4A Standard Make-up	)
	Make-up / miscellaneous conductivity no probe	
	DI-4ASS	
	AH-4ASS1" MNPT probe	
	TE-4A PVC <sup>3</sup> / <sub>4</sub> " slip tee design120 PSI (8.2 bar) @ 125°F (51.6°C	
M6 =	CS-4ASS corporation stop probe	)
P = P0 = P2 =	system max) For dual set point use Q instead of P TPE-21 Standard Tower	The MegaTronXS
	Tank mounted probe (PE-21 with DPE)	/
	PE-21SS stainless steel probe ½" MNPT	
	PE-21SS stamless steer probe ½ MNPT	
	PE-11 low ionic probe, ½" MNPT	
P12=	PE-11 w/ pre amp	communications,
P15=	PE-21CS Corp-stop w/ pre amp, 1" FNPT100 PSI (6.8 bar) @ 165°F (73.7°C	<sup>)</sup> 4-20mA and many
PP Control (1 po	r controller)	other options.
DRP Control (1 per R =	TOE-21 Standard Tower	
	ORP Control no probe	,
	TOE-21 with preamp	<b>`</b>
	Tank mounted probe (OE-21 with DPE)	
	Tank mounted ORP w/ pre amp (OE-21, DPE & RTP-4)	/
	OE-21SS stainless steel probe <sup>1</sup> / <sub>2</sub> " MNPT200 PSI (13.8 bar) @ 180°F (82.2°C)	
R15=	OE-21CS Corp-stop w/ pre amp, 1" FNPT100 PSI (6.8 bar) @ 180°F (82.2°C)	
· · · · · · · · · · · · · · · · · · ·		2's probe option and
	of 5 per controller: 28-DAY, PULSE, %, Recycle, LIMIT or POST BLEED) —————	E6 option if desired.
FILOF	5 (F4 = Four feed timers)	ie: XSB2F3E6-
low Switches		B2E6-H
low Switches —	Standard float atula quitab DVC accombly 420 DSI /0.2 hor) @ 425°E /54.000	
	Standard float style switch PVC assembly	
	Paddle flow switch PVC assembly	
	Paddle flow switch PVC unassembled, 10' cord 120 PSI (8.2 bar) @ 125°F (51.6°C)	
	Paddle switch brass assem. (order rated probes)250 PSI (17.2 bar) @ 75°F (23.8°C)	)
	Flow switch connection only with cable	
E8 =	Standard float switch PVC unassem, 10' cord 120 PSI (8.2 bar) @ 125°F (51.6°C)	)
	Paddle flow switch with SS tee only	
⊢11 =	Flow indicator (0-10) with switch PVC assembly 100 PSI (6.8 bar) @ $125^{\circ}$ F (51.6°C)	1

E11 = Flow indicator (0-10) with switch, PVC assembly...100 PSI (6.8 bar) @ 125°F (51.6°C)

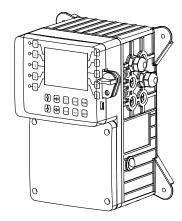
# MegaTron X Whole Unit Options

- А = Conduit connections, 120-volt relay cards
- A1 = Liquid tights only with 120-volt relay cards
- A3 = Liquid tights only with CE mark, 240-volt relay cards
- Prewired power cord to On/Off; 120-volt relay boards have no power A5 =
- A6 = Korean power cord, no pigtails, 240-volt relay cards
- Australian power cord, no pigtails, 240-volt relay cards A7 =
- A8 = Prewired USA power cord with 1/2" conduit relay connections; 120-volt
- A9 = Prewired USA power cord; no relay board(s)
- A11 = 240 relay board with USA plugs
- н = Internet card with CAT5 connection and Wi-Fi
- H2 = Internet card with CAT5 connection, no Wi-Fi
- Internet card with CAT5 connection, Wi-Fi, and zigbee H7 =
- Internet card with CAT5 connection and Modbus TCP/IP H11 =
- H21 = Internet card with CAT5 connection and BACnet TCP/IP
- Four 4-20mA Isolated Inputs N4 =
- N8 = Eight 4-20mA isolated inputs (O4 option not available)
- 04 = Four 4-20mA Isolated Outputs
- 5 VDC output with water meter connections for paddle wheel flow meters V =
- V2 12 VDC output with water meter connections for paddle wheel flow meters =
- W1 = 1 auxiliary flow input for a bleed flow alarm
- W4 = 4 auxiliary flow meter inputs
- Y **ETL Agency Listing** =
- Ζ = Black cover instead of clear
- 1. Pre-wired 4-20mA input cables w/ external connector ordered below.
- Notes: 2. See page 28 for specialty sensors including PTSA, Free Chlorine and CL02.
  - 3. See page 36 for cell router and service for internet units.....

# MegaTron X Parts

MG-RL-05	Replacement relay card with 5 relays
MG-PWR	Power supply board
XS-KEYPAD-ASM	Keypad and display panel assembly (no display)
XS-DISPLAY-ASM	Display panel assembly complete
SS-DOOR	Clear cover
XS-ICM-00	Internet communications card for "H" option
XS-ICM-01	Internet communications card
Wi-Fi-MODULE	Wi-Fi module for MT and XS-capable units
MG-CAT5	CAT 5 cable from internal communications card
XS-MAO-4	4-20mA output card with 4 outputs
XS-MAI-4	4-20mA output card with 4 inputs
XS-MAI-4	4-20mA input card with 4 inputs
XS-MAI-8	4-20mA input card with 8 inputs
XS-MAIO-4	4-20mA card with 4 inputs
Wi-Fi-MODULE	4-20mA card with 4 inputs
XS-AUXFLOW-W4	USB board and cable for front panel
XS-USB-ASM	Auxiliary flow meter input cable with 3 pin Molex
AUXFLOW-WIRE	System card
XS-SYS-	Add all desired system function codes from unit model numbering system
CABLE-7P-2	Prewired 2 conductor cable to mA input and 12VDC power with 7 pin connector, 6'
CABLE-7P-2A	Prewired 2 conductor cable to mA input and no voltage and 7 pin connector, 6'
CABLE-7P-4	Prewired 4 conductor cable to mA input and 12VDC power with 7 pin connector, 6'

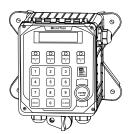
Note: The prewired input cables simplify connecting to external 4-20mA signal sources that need 12 VDC power on the loop (i.e. fluorometers, level sensors and other specialty probes).



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# **MicroTron Controller**

The next generation of MicroTron controllers can control tower or other system functions including: conductivity and a variety of selectable chemical feed timers. Each system control function drives a relay. MicroTrons come with four (4) relay outputs. Choose a base model and add desired options.



#### Build a Model

Model MICRO-

ed Timers 120 PSI (8.2 bar) @ 125°F (51.6°C)
w/ SS tips 120 PSI (8.2 bar) @ 125°F (51.6°C)
•

Model MICRO-F4 -

Four Selectable Feed Timers (28-DAY, PULSE, RECYCLE or POST TIMER) -

#### 889.00 F4

#### **Options** -

А = 100-240 volt conduit connections A3 = Liquid tights only with CE mark, 100-240 volt Korean power cord, no pigtails, 240 volt relay card A6 = Australian power cord (240 VAC) A7 = Standard float style switch PVC assembly...... 120 PSI (8.2 bar) @ 125°F (51.6°C) Е = Paddle flow switch PVC assembly...... 120 PSI (8.2 bar) @ 125°F (51.6°C) E3 = Paddle flow switch PVC unassembled, 10' cord ...... 120 PSI (8.2 bar) @ 125°F (51.6°C) E4 = E5 = E6 Flow switch connection only with cable = Standard float switch PVC unassembled, 10' cord ...... 120 PSI (8.2 bar) @ 125°F (51.6°C) E8 = E11 = Flow indicator (0-10) with switch, PVC assembly ...... 100 PSI (6.8 bar) @ 125°F (51.6°C) Ζ = Black cover instead of clear

# NanoTron Controller

The NanoTron compact units are designed to automate various applications. Simple step through menu provides user-defined configuration.

Note: All NanoTron units have 2 control relays max, except for corrosion units have 1 powered relay and 1 dry contact relay



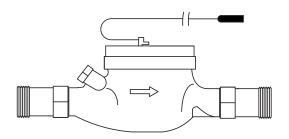
	Model NANO
Conductivity Control & 1 Feed Timer	
C = TE-4A Standard Tower probe	
C0 = Tower Conductivity no probe	
C1 = TE-4ASS Standard Tower probe w/ SS tips	
C3 = AH-4ASS 1" MNPT	
C5 = DC-4ASS tank mount	
B0 = Boiler conductivity no probe	
B2 = BE-32C probe, no temp comp, 1" cross	
	ا ــــــــــــــــــــــــــــــــــــ
mA Input & 1 Feed Timer ————	
N = One mA input & output with 24 VDC	
	Model <b>NANO</b>
pH or ORP Control & 1 Feed Timer	
P = TPE-21 Standard Tower	100 PSI (6.8 bar) @ 140°F (60°C)
P0 = pH Control no probe	( (000 - (000 - 0)
P4 = Tank mounted probe (PE-21 with DPE)	
P8 = PE-21SS stainless steel probe ½" MNPT	
P11 = PE-11 low ionic probe, ½" MNPT R = TOE-21 Standard Tower	
R0 = ORP Control no probe	100 FSI (0.0 bal) @ 140 F (00 C)
R4 = Tank mounted probe (OE-21 with DPE)	140°E (60°C)
R8 = OE-21SS stainless steel probe <sup>1</sup> / <sub>2</sub> " MNPT	
<b>Two Selectable Feed Timers</b> (28-DAY, PULSE, R	Model <b>NANO-F2</b> ECYCLE or POST TIMER)
	   Model <b>NANO</b>
Corrosion Monitor with 4-20mA Output of Corro	osion & Pitting ———
M2 = Corrosion monitor, no sensor body	
M21 = Corr. monitor w/ PVC quick release probe body, M22 = Corr. monitor w/ 1" SS threaded probe body	
<b>NOTE:</b> Corrosion sensor tips available at the bottom	
	or page 10.
Options — A = 120-volt conduit connections	
A = 120-volt conduit connections A3 = Liquid tights only with CE mark, 240-volt relays	
A5 = USA power cord, no pigtails, 120-volt relays	
A6 = Korean power cord, no pigtails, 240-volt relay ca	ard
A7 = Australian power cord, no pigtails, 240-VAC	
E = Standard float style switch PVC assembly	
E3 = Paddle flow switch PVC assembly	
E4 = Paddle flow switch PVC unassembled, 10' cord	
E5 = Paddle switch brass assembly (order rated prob E6 = Flow switch connection only with cable	Desj
E8 = Standard float switch PVC unassembled, 10' co	ard 120 PSI (8.2 bar) @ 125°F (51.6°C)
E11 = Flow indicator (0-10) with switch, PVC assembled, $VC$ assembled, $VC$ assembled, $VC$ assembled as $VC$ as a $VC$ as $VC$ as a $VC$ as a $VC$ as $VC$ as $VC$ as $VC$ as a $VC$ as $VC$ as a $VC$ as $VC$	
K = Prewired cable for mA output with external conr	
O1 = One mA output of conductivity on NANO-C/B	
W = Larger enclosure with clear lockable cover	

- W1 =
- Larger enclosure with black lockable cover Larger enclosure with clear lockable cover & 20-amp relay for relay 2 ETL Agency Listing W4 =
- = Υ

# **COOLING TOWER ACCESSORIES**

# **Contacting Head Water Meters**

Contacting head brass water meters provide an electrical dry contact out for proportional control based on water flow when used with a pulse activated timer or pump.



#### Cold Water Meters 105°F Max

Part Number	Pipe Size	Gallons per Contact	PSI Max	Flow Range GPM	Shipping Wt. (lbs)
AWM-075	3⁄4"	10	150	0.5-20	4
AWM-100	1"	10	150	1-50	7
AWM-150	11⁄2"	10	150	1.5-100	15
AWM-200	2"	10	150	2-130	17
AWR-2T	2"	100	230	2-400	30
AWR-3T	3"	100	230	3-550	38
AWR-4T	4"	100	230	5-1,250	45

AWM Options	Description
-1	Provides 1 GPC instead of 10 GPC
-100	Provides 100 GPC instead of 10 GPC
-A	Removes reed switch (still contacting head)
-M	Metric (liter) units of measure

#### Water Meter Accessories

AW-RS	Reed Switch for meter
AW-SP2	Signal Splitter 2 Outputs
AW-SP3	Signal Splitter 3 Outputs
PD-1	Pulse Divider
RCT-NANO	Powered remote totalizer (1 or 2 water meters); 120-volts
AW-2-GASKET	Coupling gaskets for ¾" meter
AW-3-GASKET	Coupling gaskets for 1" meter
AW-4-GASKET	Coupling gaskets for 1.5" meter

#### **Zigbee Wireless Transmitter**

ZIG-NANO wirelessly sends up to two water meter or other dry contact switch closures and control two powered or dry contact relay outputs. A remote and base unit is required.

ZIGB-NANO	Base unit with 2 water meter pulse outputs and 2 dry contact inputs
ZIGR-NANO	Remote unit with 2 water meter inputs and 2 control relays

Note: The ZIGR-NANO can be used with MegaTron MT or XS models with the Zigbee communications card option.

# Bleed-Off Piping Assemblies....Make Maintenance Easy!

Add a strainer and isolation valve to your bleed valve! A adds poly strainer & brass isolation valve A1 adds metal y-strainer & brass isolation valve A4 adds poly y-strainer with flush & brass iso valve

#### **ABC Ball Valves**

#### (Motor open, capacitor return) Max. Temp 140°F

Part	Size	PSI Max
ABC-1/4	1/4"	
ABC-1/2	1/2"	
ABC-¾	3/4"	225
ABC-1	1"	225

- J Conduit junction box attached
- J1 Conduit junction box & USA power cord
- J2 Conduit junction box with 1/2 FNPT port
- S Cover (must have J option)

**Brass Motorized Ball Valves** 

Full Port

# (Power open, spring return) Max. Temp 250°F Part Size CV PSI Max ABS-½ ½" 11 130 ABS-¾ ¾" 25 130 ABS-1 1" 50 100 ABS-1½ 1-½" 170 70 ABS-2 2" 250 70

## Belimo power open, spring return ball valve Full Port

(Power open,	spring	return) Max.	Temp	212°F
Part	Size	CV	PSI M	ax

ABV-1/2	1/2"	. 10	. 175
ABV-¾	3⁄4"	. 14	175
ABV-1	1"	.30	175

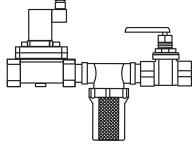
W Weather shield for ABS & ABV valves, poly

# Brass Motorized Paddle Valves

wax. remp	250 F	
Part	Size	PSI Max
AEC-1/2	1⁄2"	
AEC-¾	<sup>3</sup> /4"	
AEC-1	1"	15

#### ASCO - Brass Solenoid Valves Max. Temp 125°F

Part	Size	PSI Max
ASCO-1/2	1⁄2"	150
ASCO-¾	<sup>3</sup> /4"	150
ASCO-1	1"	125



#### Brass Solenoid Valves Max. Temp 140°F

Zero PSI Differential

max. Tomp	1401		
Part	Size	PSI Max	CV
SO-1⁄2	<sup>1</sup> /2"	145	4.2
SO-¾	<sup>3</sup> /4"	145	10.5
		145	12.9
SO-1½	1-½"	145	35.1
SGO -½	1⁄2"		2.8
SGO-¾	<sup>3</sup> /4"		2.8
SGO-1	1"		8.3

## **GE-SO Solenoid Valves**

#### (Basic solenoid operated) Max. Temp 140°F

Part	Size	PSI Max
GE-SO-1/2	<sup>1</sup> /2"	140
GE-SO-¾	<sup>3</sup> /4"	140
GE-SO-1	1"	140

#### Valve Options and Parts

P Pre-wired with an 8' cord
C For conduit connections
L UL Listed valves
SGO-½-Kit
SGO-¾-Kit
H-CONN Connector for SO Valves
H-CONN-G Connector for SG Valves
F3 3 GPM PVC flow control
F5 5 GPM PVC flow control
Add -24V for 24 Volt or -230V for 230 Volt
ABS-SHIELD-ASM
ABV-SHIELD-ASM

#### SEE ADDITIONAL PLUMBING PARTS ON PAGES 13, 32 AND 33.

# **Corrosion Coupon Racks**

Advantage coupon racks are mounted on a polyethylene panel with inlet and outlet ball valves for easy installation. Standard <sup>3</sup>/<sub>4</sub>" & 1" PVC models use our unique guick disconnect coupon holders.

**Note:** Options selected may reduce pressure ratings.

Note. Options selected may reduce pressure ratings.	
¾"PVC Sch 80 120PSI (8.27bar) @ 125°F (51°C)	<sup>3</sup> ⁄4" Black Iron 185PSI (12.7bar) @ 300°F (148°C)
MODEL	ACR-15
ACR-10	ACR-25
ACR-20	ACR-35
ACR-30	ACR-45
ACR-40	ACR-55
ACR-50	ACR-65
ACR-60	
	1 " Black Iron 185PSI (12.7bar) @ 300°F (148°C)
1"PVC Sch 80 120PSI (8.27bar) @ 125°F (51°C)	ACR-18
ACR-11	ACR-28
ACR-21	ACR-38
ACR-31	ACR-48
ACR-41	ACR-58
ACR-51	ACR-68
ACR-61	
A01-01	0 0
3/ " 20488 495BSI (42 7bor) @ 200°E (440°C)	
³¼" 304SS 185PSI (12.7bar) @ 300°F (148°C)	
ACR-19	
ACR-29	▎▏ <sup>▁</sup> ▚ <b>゠</b>
ACR-39	
ACR-49	
ACR-59	
ACR-69	

#### Options

- А Flow control orifice, 3 GPM
- Flow indicator 6" long, 1-10 GPM 145 PSI @ 212°F max (not recommended on PVC racks) Flow indicator 7.5" long, 1-10 GPM 100 PSI @ 125°F max B-2
- B-7 C E F G H
- Flow control orifice, 5 GPM
- Sample tee with valve
- Back flow check valve
- Basket strainer (120 PSI @ 80°F max)
- Steel Y-strainer
- H1 Poly Y-strainer with flush valve (YP-3/4-SP)
- J Provide clear PVC piping over coupon
- Κ Omit ¾" ball Valves
- Omit 1" ball Valves K-1
- K2 PVC true union isolation valves (3/4")
- PVC true union isolation valves (1") K3
- K4 Brass isolation valves on PVC racks
- 3/4" SS isolation valves on PVC racks K5
- 3/4" FNPT for use with corrosion probes. Includes pipe plug for 3/4" & 1" PVC racks only L
- 3/4" PVC quick release corrosion tee for 3/4" & 1" PVC racks only L1
- 1" FNPT tee for high temp corrosion sensor L2
- Μ Mounting rails (add to poly panel)
- M1 Mounting rails (instead of poly panel)
- Ν <sup>1</sup>/<sub>2</sub>" blue poly
- R22 (2)  $\frac{3}{4}$ " SS injection tees
- 3 PVC quick release probe tees <sup>3</sup>/<sub>4</sub>" for <sup>3</sup>/<sub>4</sub>" PVC racks only R3
- <sup>3</sup>/<sub>4</sub>" removable section of black iron pipe, 6" long S
- S1 1" removable section of black iron pipe, 6" long
- S2  $\frac{3}{4}$ " removable section of SS pipe, 6" long
- Т Extends metal racks mounting brackets by 3/4"
- U No poly panel partially assembled with mounting brackets

#### **Coupon Rack Parts**

#### **Corrosion Rack & Monitor Parts**

#### Coupons **Corrosion Tips** AMS Mild Steel CE-MS Pair of Mild Steel ACO Copper CE-CO Pair of Copper AS4 304 Stainless Steel CE-BR Pair of Brass (Admiralty) AS5 316 Stainless Steel Pair of Cupro-Nickel CE-CN Nickel ANK Pair of Aluminum CE-AL ABR Brass CE-SS-304L Pair of 304SS ABA Aluminum CE-SS-316L Pair of 316SS AGS Galvanized Steel COR-TEST-MS5 Scale Coupon Corrosion test plug (5 ml/yr) 316 Stainless Steel ASC-5 **Corrosion Sensor Body** Note: Additional coupon materials and styles available. CE-BODY-1 PVC <sup>3</sup>⁄<sub>4</sub>" quick release tee Consult factory for details. CE-BODY-2 1" MNPT SS and CPVC

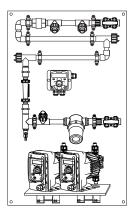
CE-BODY-3

3/4" MNPT CPVC

# **Corrosion Loop Guard**

CLG units provide a professional approach to corrosion monitoring and control. Combined with separately-ordered, real-time NANO-M corrosion monitors and/or other feed equipment for automated feed of closed loop treatment. All models included isolation and sample valves mounted on white poly.

Select loop material based on required temperature and pressure rating. PVC has a max rating of 120 PSI (8.2 bar) @ 125° F (51.67°C). Iron and SS have a max of 185 PSI (12.7 bar) @ 300°F (148.9°C). Options selected will lower max ratings.



			Model CLG	
Loop Material and # of Co	upons			
<sup>3</sup> / <sub>4</sub> " <b>PVC</b>	1" PVC	<sup>3</sup> ⁄4" Iron	1" Iron	1" SS
2 holders <b>A2</b>	A12	A22	A32	A52
3 holders A3	A13	A23	A33	A53
4 holders <b>A4</b> 5 holders <b>A5</b>	A14 A15	A24 A25	A34 A35	A54 A55
5 Holders A5	AIS	A25	A35	A33
Corrosion Sensor Ports-				
<b>B</b> = (2) quick release $\frac{3}{4}$			' FNPT ports in 1"	
<b>B1</b> = $(2)$ quick release 1"		<b>B5</b> = (2) 1"	' FNPT port in 1" S	SS tee
<b>B2</b> = (2) 1" FNPT ports in	n 1" tee			
Controller Space & Mou	nting Hardware (o	rder controller and/or	numns senarately	)
C0 = No  controller space			n for 3 NanoTrons	
<b>C1</b> = Room for 1 NanoTr			n for 1 MegaTron 2	
<b>C2</b> = Room for 2 NanoTr	rons		-	
Sensor Tees ———				
<b>D</b> = $(1)$ <sup>3</sup> / <sub>4</sub> " PVC quick re	elease	<b>D5</b> = (1) 1"	' SS tee	
$D2 = (2)^{3/4}$ PVC quick re	eleases	D6 = (2) 1		
D3 = (1) 1" Iron tee			" PVC quick releas	se, (1) flow tee
<b>D4</b> = $(2)$ 1" Iron tees		( ) -	- 1	
Ofersteinen Orsti				
Strainer Options — E = $\frac{3}{4}$ " basket		<b>E4</b> – 10" p	oly filter cold (¾")	
<b>E</b> = $\frac{74}{4}$ basket <b>E1</b> = $\frac{3}{4}$ " flushable y		E4 = 10  p $E5 = 10^{\circ} \text{ p}$	oly filter hot $(\frac{3}{4})$	
<b>E2</b> = 1" basket		$E6 = \frac{3}{4}$ S	S strainer	
<b>E3</b> = $\frac{3}{4}$ " Black iron			PSI @160°F	
Flow Indicator 1-10 GPM				
$F = \frac{3}{4}$ " 100 PSI @ 125°F		<b>F2</b> = ¾″ 14	l5 PSI @ 212°F	
<b>F3</b> = $\frac{3}{4}$ " w/ flow switch				
Flow Restrictor 1-10 GPI	M			
<b>G</b> = <sup>3</sup> ⁄ <sub>4</sub> " PVC 3 GPM			rass 3 GPM	
<b>G1</b> = ¾" PVC 5 GPM		<b>G4</b> = <sup>3</sup> ⁄ <sub>4</sub> " Bi	rass 5 GPM	
Loon Direction: Standars	lic in and out on th	oright		
Loop Direction: Standard K = In/Out left			to Left	
	iti Lon to rught			
Injection ¾" PVC	1" PVC	3/4" Black Iron	1" Iron	³⁄₄" SS —
<b>N1</b> = 1 tee	N11	N21	N31	N41
<b>N2</b> = 2 tees	N12	N22	N32	N42
Options				
L = Clear pipe over holde	ers on PVC	R = Mount	ing rails	
120 PSI (8.2 bar) @			cal junction box	
$\mathbf{P} = 2$ nump shelf			e nolv nanel	

**P** = 2 pump shelf

P1 = 2 pump shelf w/ SS brackets

**Q** = Poly back check

**Q1** =  $\frac{3}{4}$ " SS back check

- Electrical junction box
- **U** =  $\frac{1}{2}$ " blue poly panel
- **W** = Free standing legs

# **Solid Feed Systems**

SFS solid feed systems include a dissolving bowl with a 0.6 GPM at 10 PSI spray nozzle; shut-off valves on inlet water and pump suction connection, pressure regulator, solenoid, Y-strainer and level switches (most models).

120-volt units have a test switch, LED for power and control with a lockable cover.

SFS-G01 SFS-G02 SFS-G10 SFS-101 SFS-105 SFS-10 SFS-20 SFS-T01 SFS-DF1	Single dissolving bowl in a tank with non-electric make-up valve Dual dissolving bowls in a tank with non-electric make-up valve Single dissolving bowl in a large tank with non-electric make-up valve Single dissolving bowl in a tank with 12 VDC controller Single dissolving bowl and tank with 120 VAC controller on panel Dissolving bowl with 120-volt solenoid, pressure regulator, no tank or controller Two dissolving bowls with one 120-volt solenoid, regulator, no tank or controller Dissolving bowl with battery powered timer valve, regulator and gauge on panel Tank and bowl (no plumbing) for liquid concentration
Options	
A	Conduit connections
A2	240 volt with conduit connections (not available on 101's)
A3	240/120 wall adapter for SFS-101 with international plugs
B1	Back check in pump suction line
D	1" FNPT port on the top of the tank for conductivity probe
D2	Adjustable level wand for external monitoring
D3	<sup>1</sup> / <sub>2</sub> " Liquid tight in bowl with SFS-E4A conductivity probe
E	10' of ¾" I.D. clear tubing for overflow
G	Blue back panel for 105
Н	High Level Alarm Cut-off with LED and Alarm Relay Output on 120-volt models
H2	Adds a high-level cut-off to SFS-101 controller
H3	High alarm with cut-off and second brass solenoid N.O. on 120-volt units
J	Low pressure spray nozzle (30-45 PSI)
K	Gray dissolving tank
L	Provide 120-volt level controller for remote mounting with SFS-101
P V	Non Advantage Controls metering pump mounting adaptor
	Viton seats in electric solenoid valve
W Y	Adjustable wands
I	Partial PVC piping instead of brass on G01 & G02

# **APTech Ultra-M**

SFS-ULTRA-M Single dissolving system with non-electric float

# **Mounting Panels for SFS Feeders**

SFS-PANEL-2	<sup>1</sup> ⁄ <sub>2</sub> " blue poly panel for 2 SFS-G01, or 101 (34" x 24")
SFS-PANEL-3	½" blue poly panel for 3 SFS-G01, or 101 (46" x 24")
SFS-PANEL-31	<sup>1</sup> / <sub>2</sub> " blue poly panel for 1 SFS-G02 and 2 SFS-G01 or 101
SFS-PANEL-32	<sup>1</sup> / <sub>2</sub> " blue poly panel for 3 SFS-G02 (60" x 24")
SFS-PANEL-41	<sup>1</sup> / <sub>2</sub> " blue poly panel for 3 SFS-G01 & G02 (72" x 24")

#### **Options for SFS-PANEL**

A	3/4" PVC freshwater header with shut-off
<b>D</b>	

- D <sup>3</sup>/<sub>4</sub>" PVC overflow to drain header
- W Free standing leg kit



# Solid Feed Systems - continued

Parts	
R00223	SS Wall Mounting Bracket
SFS-BV	Brass Inlet Valve
SFS-C01	12-volt controller for 101 and 201 models
SFS-C?05	120-volt controller for ?05 models, list 105, 205, 305 to match
SFS-C05-H	120-volt controller for 05 models with option H
SFS-CV-1/4	1/4" brass check valve
SFS-DB-1	Dissolving Bowl (Advantage PVC bowl assembly)
SFS-DB-1D3	Dissolving bowl with ½" liquid tight for SFS-E4A probe
SFS-DB-ARM-1	Spray arm for dissolving bowl (Advantage PVC spray arm assembly)
SFS-DB-DF1	Dissolving bowl with piercing stem for concentrates
SFS-E4A	Special conductivity probe for SFS-G01(02) models
SFS-FLOAT	Non-electric float bottle
SFS-FV-G01	Non-electric fill valve for G01, no float
SFS-FV-G02	Non-electric fill valve for G02, no float
SFS-LF	Individual float switch for electric float switches
SFS-LF-1	1 Level Float Assembly
SFS-LF-2	2 Level Float Assembly
SFS-LF-2-FH01	Level wands for SFS-FH01
SFS-LF-3	3 Level Float Assembly
SFS-LF-G01	Level float and inlet valve assembly for SFS-G01 (no gauge, regulator, or strainer)
SFS-LF-G02	Level float and inlet valve assembly for SFS-G02 (no gauge, regulator, or strainer)
SFS-NHW	Set of 4 nylon bolts & washers for valve panel on G01 & G02
SFS-PA-101M	Plumbing assembly for 101M (solenoid, inlet valve, pressure regulator & gauge)
SFS-PA-105M	Plumbing assembly for 105M (solenoid, inlet valve, pressure regulator & gauge)
SFS-PA-G01	Plumbing assembly for G01 (inlet, y-strainer, pressure regulator & gauge)
SFS-PA-G01-Y SFS-PA-G02	Plumbing assembly with Y options
SFS-PG	Plumbing assembly for G02 (inlet, y-strainer, pressure regulator & gauge) Pressure Gauge
SFS-PG-Y	ABS body pressure gauge
SFS-PR	Pressure Regulator
SFS-SB-12V	Brass solenoid valve with y-strainer 12-volt D.C.
SFS-SB-120V	Brass solenoid valve with y-strainer 120-volt A.C.
SFS-SB-KIT	Repair kit for 12V or 120V solenoid valves
SFS-SUCTION	Outlet pump suction assembly
SFS-SUCTION-25	
	<sup>3</sup> <sup>8</sup> " tubing connection with SS ball valve
SFS-TANK-101	Replacement tank for the SFS-101
SFS-TANK-205	Tank only for 205
SFS-TANK-G01	Replacement tank for the SFS-G01
SFS-TANK-G02	Replacement tank for the SFS-G02
SFS-TIP-LP	Low pressure spray tip
SFS-WT	Wall transformer for 12-volt D.C. models
SFS-Y	Y-strainer on SFS plumbing
1A2A000122	Pump mounting t-nut for G01, 101 tanks
1P1P000228	1/4" FNPT x 3/8" tubing
1P1P000229	1/4" NPT to 1/4" tubing connector
1S1F000001	Overflow tubing
2C4A000012F	1/4" MNPT to 1/4" push lock tubing
2C4A000030	1/4" NPT to 1/4" tubing elbow
2C4A000051	$\frac{1}{2}$ " MNPT to $\frac{1}{4}$ " FNPT reducer for pump suction on tank
2C4A000056	Overflow elbow
2C4A000059	Replacement spray nozzle
2C4A000060	1/2" tubing x 1/4" MNPT connector
2C4A000087	Replacement panel for SFS-G01 valve holder
2C4A000090	$\frac{1}{4}$ " MNPT x garden hose female (for use with SFS-T01)

# **Prefabricated Systems**

#### Wall Mounts

Full size wall mounts for a controller, 1-4 plumbing loops, pumps and accessories make a professional installation easy and saves you time and money.

Build one to your specs on page 18. Start with WM and code for number of plumbing loops and panel material desired, "WM2". Then select options A-J for each loop. If additional loops are the same, use a -X2, X3 or X4. After all loops are built, list whole unit options: WM2-AB3D3FJ-X2.

NOTE: 1. Multi-loop panels come in sections.2. Option "H" on wall mount units are not available on multi-loop panels.

#### **Controller Mount Boards**

Controller mount boards are a low-cost option making installation fast and easy on compact poly boards for controller and sample stream assemblies.

Build one to your specs on page 19.

#### **Fully Enclosed Cabinets**

The FE series of fully enclosed pre-fabs provide a safe and secure professional installation that saves time and money while protecting your water treatment equipment from the elements and tampering.

Build one to your specs on page 20.

#### All Prefabs Please Note:

- Controller, pumps, and bleed valves are ordered separately. Panel dimensions may vary depending upon options and controller selections.
- If ordering option "C" for probes, a <sup>3</sup>/<sub>4</sub>" PVC 90° flow tee is automatically included on <sup>3</sup>/<sub>4</sub>" & 1" PVC loops. If a 1" PVC straight flow tee is needed, add a 1 to start the # sequence (i.e. C12 for 1" flow tee and two <sup>3</sup>/<sub>4</sub>" probe tees). If no <sup>3</sup>/<sub>4</sub>" PVC 90° flow tee is desired, add a 0 to start the # sequence (i.e. C02).

Note: The option "C" should only be used if the number of probe tees desired is different than what the

controller on the order comes with or if no controller is on the order. The option "C" used will reflect the total number of tees included (i.e. C3 will provide three probe tees on the prefab not counting the flow switch tee).

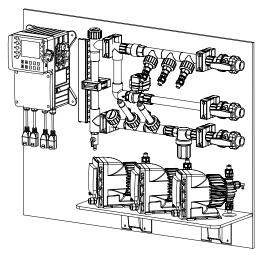
Additional pump shelf brackets options on WM, CM, and FE models.

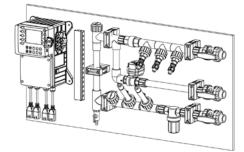
If SS brackets are desired for poly pump shelf, use the following codes and additional pricing:

DD1	1 pump
DD2	2 pumps
DD3	3 pumps
עםם	1 numps

- DD4 4 pumps
- DD5 5 pumps

NOTE: If Pulsatron Series A+, C+, C mounting pattern is needed, add a "2" to the end of the "D" selection.







# Wall Mounts

				Model	wм	<b>-</b>
1, 2, 3, or 4	• •		hite Poly Panel (add to	,		
21, 22, 23, 24		S 011 /2 DIU	ie Panel (add to base)			
<b>A</b> = $\frac{3}{4}$ " PVC <b>A2</b> = $\frac{3}{4}$ " Black	< iron		ck check and sample A0 = no loop A3 = ¾" Copper A7 = ¾" SS valves on	-	& check) <b>A1</b> = 1" PVC <b>A4</b> = 1" Black iron	
B2	<b>PVC</b> = 1 tee = 2 tees = 3 tees = 4 tees	B12	1" CPVC B21 B22 B23 B24	¾" B B31 B32 B33 B34	Black Iron	1" Iron B41 B42 B43 B44
		1 C C	r ordered, reflects total n " <b>PVC Quick Release</b> 21 22 23		<ul> <li>see page 17)</li> <li>1" Black Iron</li> <li>C41</li> <li>C42</li> <li>C43</li> </ul>	
Pump Mount D1 = Shelf for D4 = Shelf or	1	0	number for blank shel <b>)2</b> = Shelf for 2 <b>)5</b> = Shelf for 5		<b>D3</b> = Shelf for 3 <b>D6</b> = Shelf for 6	
E = ¾" flushal	ble	E	cluded as standard) <b>52</b> = ¾" 10" filter hous 5 <b>6</b> = 1" Clear basket	ing	<b>E4</b> = 1" basket stra	ainer
<b>F</b> = ¾" 100 PS				<b>F2</b> = <sup>3</sup> ⁄ <sub>4</sub> " 1	45 PSI	
Coupons Add "L" to get	<sup>3</sup> ⁄4" <b>PVC</b> <b>G2</b> = 2 Statio <b>G4</b> = 4 Statio clear PVC over	ons (	<b>1" PVC</b> G12 = 2 Stations G14 = 4 Stations		<sup>3</sup> ⁄4" Black Iron — G22 = 2 Stations G24 = 4 Stations	
<b>Solid Feeder</b> H1 = For a SF			1 or D2 available with = For 2 SFS-?01's	H1 / no D op	tion with H2) H3 = For 3 SFS-?0	
J = Bleed off J1 = Bleed off	f leg with shut-o f leg with shut-o	off valve (or off valve & ¾	der bleed valve separ ¼" water meter (order	ate) bleed valve s	eparate)	
Loop Direction K = In/Out Let			ht; dual is (1) In/Out R <b>K2</b> = In/Out Bott			= Right to Left
<b>Corrosion Se</b> M1 = 1 PVC <sup>3</sup> M2 = 2 PVC <sup>3</sup>		l	M11 = 1 PVC 1" M12 = 2 PVC 1"		<b>M21</b> = 1 Iron 1" <b>M22</b> = 2 Iron 1"	
Controller Mo N = MegaTror			ordered without a con MT <b>N4</b> = Micro /		<b>N5</b> = NanoTron	<b>N6</b> = R pump
R = Mounting T = Weather s	ab Options rails (required shield 37" wide equip to be sup	w/ H's) max	W =	Electrical jun Free standin Circulation p		

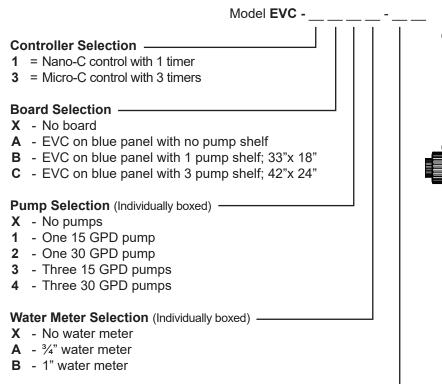
# **Controller Mount Boards**

		Model CM -	
Board Dimensions and Loop Options 00 = Partially assembled plumbing only, no pan 05 = 24" wide x 20" tall board for single loop onl 10 = 34" wide x 20" tall board for single controlle Note: Panel sizes vary depending on options	el ly, no controller mour		
Loop MaterialWith isolation value and sample p $A = \frac{3}{4}$ " PVC $A0 = no locA4 = 1" Black ironA6 = \frac{3}{4}" brackA7 = \frac{3}{4}" SS values on PVC loopA9 = \frac{3}{4}" SS$	op <b>A1</b> = 1" P ass valves on PVC lo	VC	
Injection Tees $3/4"$ PVC1" PVC1" CPVCB1 = 1 teeB11B21B2 = 2 teesB12B22B3 = 3 teesB13B23B4 = 4 teesB14B24	1" Iron B41 B42 B43 B44	³⁄₄" SS B51 B52 B53 B54	
Probe Tees (only if different than controller ordered, $3/4$ " PVC Quick Release1" PVC Quic C21C1 = 1 teeC21C2 = 2 teesC22C3 = 3 teesC23		Black Iron 11 12	1" SS C51 C52 C53
Pump Mounting Shelf (shelf adds 16" to heightD2 = 2 pumpD3 = 3 pump		ber for blank shelf <b>D4</b> = 4 pump	
Strainer Options (Not included as standard) $E = \frac{3}{4}$ " Basket $E1 = \frac{3}{4}$ " Flu $E4 = 1$ " Basket Strainer $E6 = 1$ " Cle	ishable Y	<b>E2</b> = 10" Filter <b>E7</b> = ¾" SS St	
<b>Flow Indicator 1-10 GPM</b> <b>F</b> = <sup>3</sup> / <sub>4</sub> " 100PSI <b>F3</b> = <sup>3</sup> / <sub>4</sub> " 100PSI with flow switch	<b>F2</b> = ¾" 145P	SI	
Coupons $\frac{3}{4}$ " PVCG2 = 2 StationsG4 = 4 StationsAdd "L" to get clear PVC over coupon.Coupon stations increase panel height.	<b>1" PVC</b> G12 = 2 Stations G14 = 4 Stations	<b>G22</b> = 2	<b>ck Iron</b> 2 Stations 4 Stations
J = Bleed off leg with shut-off valve (order bleed J9 = 304 SS bleed off leg with shut-off valve (ord		ate)	
Loop Direction:Standard is water in and out orK = In/Out LeftK1 = Left to RightK2 =		<b>K3</b> = In/Out Top	<b>K4</b> = Right to Left
M1 = 1 PVC <sup>3</sup> / <sub>4</sub> "         M11 = 1 PV M2 = 2 PVC <sup>3</sup> / <sub>4</sub> "           M12 = 2 PVC <sup>3</sup> / <sub>4</sub> "         M12 = 2 PV		<b>M21</b> = 1 Iron 1 <b>M22</b> = 2 Iron 1	
Controller Mount Area(only needed if orderedN = MegaTron XSN1 = MegaTron MT	without a controller) <b>N4</b> = Micro / Nano-V		n <b>N6</b> = R Pump
<b>Q</b> = Backcheck (¾" POLY)	<b>Q1</b> = ¾" SS B	ackcheck	
Whole Pre-Fab Options S = Electrical junction box U = ½" Blue poly panel Y = Non ACI equip to be supplied		rails hield (37" wide max) n pump (4 GPM)	

# Fully Enclosed Cabinets

		Model FE	<sup>_</sup> _
<b>Enclosure Type</b> <b>3</b> = Metal 48"W x 36"H x 16"D with	key lock double doors		
<b>Loop Material</b> with valves, strainer, $A = \frac{3}{4}$ " PVC $A2 = \frac{3}{4}$ " Black iron $A6 = \frac{3}{4}$ " brass valves on PVC loop	<b>A0</b> = no loop <b>A3</b> = <sup>3</sup> ⁄ <sub>4</sub> " Copper	<b>A1</b> = 1" P <b>A4</b> = 1" B	VC
Injection ¾" PVC B1 = 1 tee B2 = 2 tees B3 = 3 tees B4 = 4 tees	1" PVC B11 B12 B13 B14	1" CPVC B21 B22 B23 B24	¾" Black Iron B31 B32 B33 B34
Probe Tees (only if different than con ¾" PVC Quick Release C1 = 1 tee C2 = 2 tees C3 = 3 tees		number of tees - see page 1 1" Black C41 C42 C43	
Pump Mounting Shelf (add a "1" a           D1 = 1 pump         D2 = 2		f) = 3 pump	<b>D4</b> = 4 pump
<b>Strainer Options</b> ( $\frac{3}{4}$ " basket strain <b>E</b> = $\frac{3}{4}$ " flushable	er included as standard) - <b>E4</b> = 1" Basket Strainer	<b>E6</b> = 1" C	lear Basket
Flow Indicator 1-10 GPM <b>F</b> = $\frac{3}{4}$ " 100 PSI <b>F3</b> = $\frac{3}{4}$ " 100 PSI with flow switch	F2 =	= ¾" 145 PSI	
<b>Corrosion Coupon Stations</b> (mus <sup>3</sup> ⁄4" <b>PVC</b> <b>G2</b> = 2 Stations Add "L" to get clear PVC over coup	<b>1" PVC</b> <b>G12</b> = 2 Stations	rection) <sup>3</sup> ⁄4" Black G22 = 2 S	
<b>Solid Feeder</b> (order SFS separate <b>H1</b> = For a SFS-101	ly; no D or G options with I <b>H2</b> = For 2 SFS-101's		with H3) 3 SFS-101's
J = Bleed off leg with shut-off valve	(order bleed valve separa	itely)	
Loop Direction:Standard is in anK = In/Out LeftK1 = Left to R		tom <b>K3</b> = In/Out To	p <b>K4</b> = Right to Left
Corrosion Sensor Tees 90° M1 = 1 PVC <sup>3</sup> / <sub>4</sub> " M2 = 2 PVC <sup>3</sup> / <sub>4</sub> "	M11 = 1 PVC 1" M12 = 2 PVC 1"	<b>M21</b> = 1   <b>M22</b> = 2	
Controller Mount Area (only needN = MegaTron XSN1 = MegaTron XS		ntroller) = Micro / Nano-W	<b>N5</b> = NanoTron
Whole Pre-Fab Options R = Mounting rails S = Electrical junction box S1=Electrical box with light kit U = Strainer external mount kit V = Window(left door)	W = X =	Window(right door) Free standing leg kit Circulation pump (4 GP Non ACI equipment to b	

# **EVC Systems**



#### **Options** -

- A = 120VAC conduit
- A3 = 220VAC liquid tights
- **B** = Black cover on EVC
- **S** =  $\frac{3}{4}$ " PVC sample tee & valve (loose with no board)
- **K1** = In left out right plumbing
- K2 = Removes isolation valve and adds return tee for continuous sampling

#### **Multi-Box**

Multiple use NEMA 4X style plastic enclosure with a clear hinged lid, lockable stainless steel latch, liquid tights knock-outs and external mounting feet. Can be mounted vertically or horizontally. Ideal for mounting SS or XS controllers or metering pumps for added protection and safety.

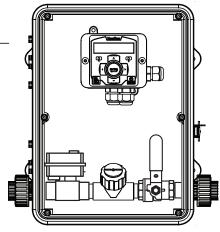
Outer Dimensions: 16.5" H x 13.5" W x 8.75" D Inner Dimensions: 14.25" H x 10" W x 7.5" D

<b>WULTI-BUX</b> Flastic enclosure with clear hu	MULTI-BOX	Plastic enclosure with clear lid
--	-----------	----------------------------------

Options

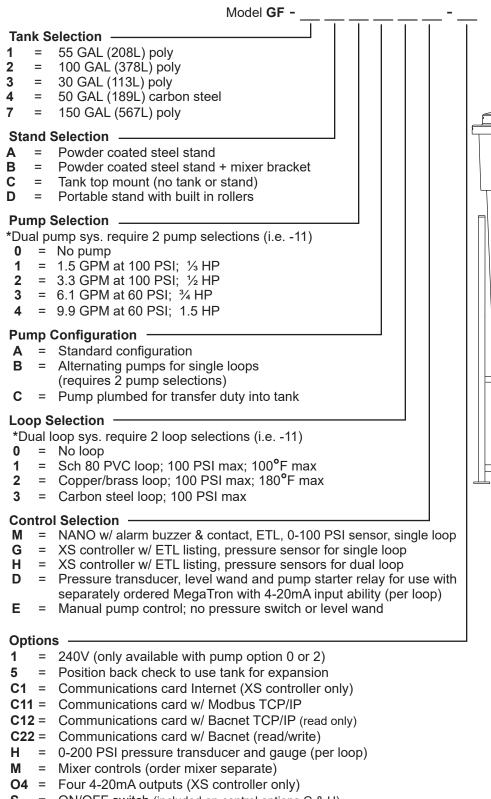
Options	
В	Black cover
G	Grommet package
Р	Back panel, 1/2" blue poly inside box for mounting items
Х	Mount separately ordered controller or pump in box

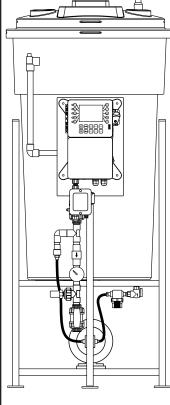
Small Mounting Panels (No plumbing) SS-CMB = Mounting panel for XS controllers SS-CMB-U = Mounting panel for XS controllers, blue MG-CMB = Mounting panel for MG controllers NANO-CMB = Mounting panel for Nano controllers





# **Glycol Feeder for Closed Loop Systems**





**S** = ON/OFF switch (included on control options G & H)

#### **Glycol Feeder Parts**

1A2A000011 991F41 992MJ07 AGF-APCT-55 AGF-ATS-5 AGF-BLS AGF-LPS AGF-PG	Fuse 12A 250V slow blow ceramic (for glycol feeders) 1.5 GPM Pump at 100 PSI; ½ HP Motor 3.3 GPM Pump at 100 PSI; ½ HP Motor Replacement 55-gallon tank for glycol feeder Replacement 5-gallon tank for glycol feeder Bowl strainer for suction side of pump Mechanical pressure switch (8-23 PSI) Pressure gauge 0-100
AGF-PG-200	Pressure gauge 0-200
AGF-PRV	Pressure relief valve (brass)
AGF-PS	Mechanical pressure switch (30-50 PSI)
AGF-PTD	Pressure transducer for (2 wire 4-20 mA 0-100 PSI)
AGF-PTD-200	Pressure transducer (2 wire 4-20 mA 0-200 PSI)
AGF-SUCTION	Pump suction assembly; shut-off and strainer
ALL-S42	Low level wand adjustable to 42"
CKV-3/4PP	Back Check Valve
GF-NANO-M	NANO style glycol controller, single loop, buzzer
GF-XSG	XS glycol controller single loop
GF-XSH	XS glycol controller dual loop

Replacement plumbing assemblies can be ordered for glycol feeders by putting a prefix of PA in front of the glycol feeder model number (i.e. **PAGF-1A1A1A**). It will include isolation valves, pressure gauge, pressure relief valve and back check (the pressure transducer AGF-PTD is not included).

# **Economy Glycol Feeder**

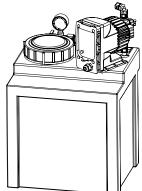
**EGF-05** 

**EGF-10** 

EGF glycol systems feed systems provide a compact wall-mountable tank with 30 GPD @ 100 PSI pump with prime function, 6-30 PSI switch, low level shut-off, pressure gauge, and ¼ brass plumbing in one economical package.

5-gallon feeder with 30 GPD @ 100 PSI pump

10-gallon feeder with 30 GPD @ 100 PSI pump

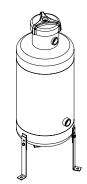


Options		
A2	240 volt no plug	
В	15 GPD @ 150 PSI pump	
С	Red pumping housing (instead of green)	
C1	Blue pump housing (instead of green)	
Р	High pressure switch 20-120 PSI	
Parts		
SFS-SUCTION	Cutlet pump suction assembly	
SFS-BV	Brass inlet ball valve	
EGF-SWITCH30	6-30 psi pressure switch	
EGF-SWITCH120	20-120 psi pressure switch	
SFS-PG	0-100 psi gauge	
EGF-LF-1	Low level switch	
	20-120 psi pressure switch 0-100 psi gauge	
EGF-LF-1 R00223	Low level switch SS wall bracket for EGF-05	

# **Bypass Feeders**

Bypass Feeders are designed to provide a dependable means of introducing treatment chemicals into hot and cold water or other liquid streams with a large filtration capacity.

Bypass Feeders are rated to 300 PSI (20.7 bar) and 200°F (93.3°C). The coarse ACME thread cap design provides better sealing and quick opening.



BF-

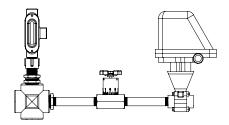
Model Number (Example: BF-05DX)

0	- -				
Capaci		П			
02	= 2-ga				
05	= 5-ga				
12	= 12-g	Jallon			
Pottom					
Bottom		a with lago on	d bottom port		
D		ne with legs an	a bollom por		
г	= Flat				
Filter -					
X	= No fi	ilter			
1			nolder (20 micron hot filter included)		
2			et (25 micron bag included)		
3			et (5 micron bag included)		
4			et with no handle or filter		
•		oug mor buord			
Access	ory Kits				
	-ISOVALVE	$S = \frac{3}{4}$ b	rass isolation valves with unions and	nipples	
BFK	-DBDRAIN		rass drain valve and fittings for dome		
BFK	-FBDRAIN		rass drain valve and fittings for flat be		
	-GAUGEX		ross with 0-300 psi gauge, sample va		
	-FUNASM		e isolation valve and funnel	0	
Parts					
	AG0118	- 19" v	2" had filter 01 microp 325°E		
	AG0518		3" bag filter, 01 micron, 325°F 3" bag filter, 05 micron, 325°F		
	AG0518 BAG2518		3" bag filter, 25 micron, 325°F		
	GCAGE18		ass feeder SS bag filter cage, 18"		
	GCAGE18		ass feeder SS bag filter cage, no han	dlo	
	F05-10		cold water cartridge filter, 05 micron,		
	F20-10		cold water filter, 20 micron, 120°F	1201	
	IF05-10		not water cartridge filter, SS core, 05	micron 200°E	
	IF20-10		not water filter, SS core, 20 micron, 2		
	FCAGE10		ass feeder SS cartridge filter holder, 1		$\Lambda$
BF-C			ass feeder cap assembly	0	
	UNNEL		funnel with <sup>3</sup> / <sub>4</sub> " MNPT		
	EGS		ass feeder leg kit		
	ORING		ass feeder cap O-ring		ACME cap
BF-F			0 psi pressure gauge		
	LATE		ass feeder cap plate	-	
	W-2HT		ow indicator; 145 psi, 212°F max		
SFS-			rass bleed valve, 180°F max		
r <b>t≔t</b> i		III → I			
Ø		₹⊥			E Do
					0
BFK-FBDRAIN	BFI	K-DBDRAIN	BFK-ISOVALVES	BFK-GAUGEX	BFK-FUNASM
			0.4		

# **BOILER ACCESSORIES**

#### Build Your Own Boiler Valve Package

With the AVP valve package, select the blowdown valve and flow restrictor that meets your boiler application's requirements and Advantage Controls will preassemble it with a probe cross (probe not included) to insure that you get a correct plumbing configuration.



Model	AVP-	
mouci		

#### ELECTRIC BLOWDOWN VALVE -

- 30 = MBWB-<sup>1</sup>/<sub>2</sub> motorized ball valve SS, 360° actuator, 0-450 min/max PSI diff
- 40 = MBWA-<sup>1</sup>/<sub>2</sub> motorized ball valve SS, 90° actuator, 0-450 min/max PSI diff
- 60 = SOB-1/2 brass solenoid valve, 0-140 min/max PSI diff

#### FLOW RESTRICTING DEVICE

00	=	AOU-1 orifice union with 4 plates, 1000 PSI max
30	=	NFC-1/2 flow control valve, 5000 PSI max

#### **Options** -

optionio	
А	Adds second flow restricting device for continuous sampling
A1	Adds second NFC-1/2 in bypass plus a 3/4" flush valve
С	3/4" probe tee instead of 1"
F	Add a ¾" flush ball valve on bottom of probe cross (150 PSI max)
Y1	Add ¾" Y-strainer with flush valve before blowdown valve
Р	Mount AVP and separately ordered controller onto poly board and pre-wire
P1	Mount AVP and separately ordered controller & sample cooler onto poly board and pre-wire

# **Boiler Valve Stands**

BVS boiler pre-fab systems include a MBWB- $\frac{1}{2}$  blowdown valve, NFC- $\frac{1}{2}$  throttling valve, 1" probe cross,  $\frac{3}{4}$ " flush valve on bottom of cross,  $\frac{1}{2}$ " blue poly panel (30"W x 16"H) for separately ordered controller, pre-wiring of probe and blowdown valve to controller, 6' tall powder coated steel legs with floor mounts.

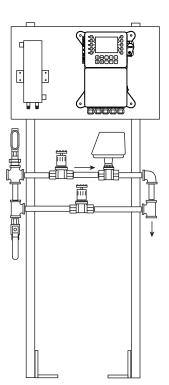
BVS-30-30

#### Options

- B Bypass line with second NFC-<sup>1</sup>/<sub>2</sub>
- D Adds a second sample stream & valves
- C Continuous configuration w/ second NFC-1/2
- C1 Continuous configuration w/ second NFC-1/2 & MBWB-1/2
- K4 Plumbing right to left
- P <sup>3</sup>/<sub>4</sub>" probe cross instead of 1" cross
- S Sample cooler (not pre-plumbed)
- L Second ½" blue poly panel on lower section

#### Notes:

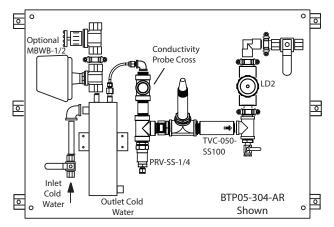
1. If ordering a two sample stream stand and the bypass option (B) is desired, order it twice.



# **Boiler Trace Panels**

Panels includes the following items mounted on a <sup>1</sup>/<sub>2</sub>" blue poly panel:

- LBC-SS sample cooler
- Pressure relief valve on cooled sample
- NFC-1/2 throttling valve on boiler water inlet
- Non-electric sample temperature shut-off valve PVC plumbing after the sample cooler is only rated to 100 PSI at 120°F
- Cold water inlet has no automatic valve, cold water will always run through sample cooler
- Desired controller and trace sensor to be ordered as separate line items
- Controller must have temperature / conductivity sensor for cooled trace sample line if operating electric valve on hot inlet



<b>Board</b> 00 = Plumbing only, no panel 05 = Board with no space for controller (32"H x 26"W)	
10 = Board with space for controller (32 TH x 38"W)	
Inlet Boiler Water Valve Shut-Off X = No inlet sample shut-off 30 = MBWB-½ motorized ball valve (450 PSI max) 60 = SOB-½ solenoid valve (140 PSI max) 70 = SOB-½ solenoid valve on cooled sample outlet	
Additional Probe Tees X = No cooled sample sensor tees 1 = One <sup>3</sup> / <sub>4</sub> " SS conductivity probe tee, mounted vertical 2 = Two <sup>3</sup> / <sub>4</sub> " PVC quick release probe tees, mounted horizontal 3 = Three <sup>3</sup> / <sub>4</sub> " PVC quick release probe tees 4 = Two <sup>3</sup> / <sub>4</sub> " SS tees 5 = Three <sup>3</sup> / <sub>4</sub> " SS tees	

#### Options

- A = Isolation valve on cold water inlet to sample cooler
- C = Cold water solenoid valve SO-1/2-P in inlet to sample cooler
- F = Low flow paddle switch in <sup>3</sup>/<sub>4</sub>" PVC tee
- N = No temperature control valve
- R = Mounting rails
- S = Indicates BTP is to be mounted on separately ordered BVS prefab
- T = LD2 trace sensor tee only plugged (not needed if sensor is on order)
- T1 = Pyxis trace sensor tee only plugged (not needed if sensor is on order)
- U =  $\frac{3}{4}$ " SS unions on both sides of trace sensor.
- W = Free standing legs

#### **Boiler Solenoid Valves**

SOB-1/2	<sup>1</sup> ⁄ <sub>2</sub> " Valve, 0-140 PSI, rated to 356°F
SOB-3/4	¾" Valve, 0-140 PSI, rated to 356°F
SGB-1/2	<sup>1</sup> ⁄ <sub>2</sub> " Valve, 13-140 PSI, rated to 350°F
SGB-3/4	<sup>3</sup> ⁄ <sub>4</sub> " Valve, 13-140 PSI, rated to 350°F

#### Motorized Ball Valves, 0-450 PSI, Rated to 459° With 360° Electric Actuators

MBWB-1/2	1/2" Valve With 1036 Actuator
MBWB-3/4	<sup>3</sup> ⁄ <sub>4</sub> " Valve With 1036 Actuator
MBWB-1	1" Valve With 1036 Actuator

#### Motorized Ball Valves, 0-450 PSI, Rated to 459° With Heavy Duty 90° Electric Actuators

MBWA-1/2	1/2" Valve With 1075 Actuator
MBWA-3/4	3/4" Valve With 1075 Actuator
MBWA-1	1" Valve With 1075 Actuator

#### **Motorized Ball Valve Parts**

MWB	1036 Actuator Only
MWA	1075 Actuator Only
AWS-1/2	1/2" Valve Only, carbon steel body, 316 SS stem & ball
AWS-3/4	<sup>3</sup> / <sub>4</sub> " Valve Only, carbon steel body, 316 SS stem & ball
MWBS	Micro switch for activator

#### **Boiler Rated Needle Control Valves with position indicator**

NFC-1/2	1⁄2" 5,000 PSI
NFC-3/4	¾" 5,000 PSI

#### **Orifice Unions**

AOU-1	1" Forged Steel Orifice Union with 4 Orifice Plates - 1,000 PSI
AOUP	Set of 4 Stainless Steel Orifice Plates
	Includes 1/8", 3/16", 1/4", 5/16" Orifice Sizes.
AOUP-1	1" Blank Plate, SS

#### Diverter Valves, Carbon Steel Body, Teflon Seals

MBWD-1/2	1/2" Consult Factory
MBWD-3/4	<sup>3</sup> ⁄ <sub>4</sub> " Consult Factory
MBWD-1	1" Consult Factory

#### Sample Coolers and Parts

LBC-SS	SS Sample Cooler With 316 SS Tubing, Tube & Connections
	Plain 1/4" OD Tube End (2500 PSI Hot Coil / 250 PSI on Cold Shell)
PRV-SS-1/4	1⁄4" SS pressure relief valve, relieves at 100 PSI
TCV-050-SS100	1/2" SS temperature control valve, closed at 110° F

Advantage Controls can help you source other valves and sizes not shown here. Consult factory for availability.

## **Specialty Sensors**

#### **Pyxis Fluorometer**

5	Model <b>STA-</b>
Ор	tics
500	) = PTSA optics (0-300 ppb), CPVC, 100 psi
	5 = Fluorescein optics (0-60 ppb), CPVC, 100 psi
730	) = Turbidity optics (0-100 NTU), CPVC, 100 psi
	<b>DB</b> = Turbidity optics (0-500 NTU), CPVC, 100 psi
	DSS = PTSA optics (0-300 ppb), SS, 290 psi (no tee)
525	<b>SSS</b> = Fluorescein optics (0-60 ppb), SS, 290 psi (no tee)
Wi	ring
1	Standard 50" quick release cable with stripped ends
2	= 50" quick release cable pre-wired to separately order Advantage controller
Dro	-Fab
	= Probe and tee not installed
= =	<ul> <li>Probe and tee pre-installed</li> <li>Probe and tee pre-installed in controller or prefab plumbing (must have</li> </ul>
1	Advantage controller or prefab ordered as separate line item on same order)
Parts & Accessori	es
PYXIS-T-N-PLUG	Pyxis PVC tee and plug is separately ordered controller or prefab
MA-WB	Bluetooth programming box with connectors
SP-350	Handheld PTSA only tester
SP-380	Handheld PTSA, Fluorescein tester
SP-400	Handheld PTSA and conductivity
SP-710	Handheld PTSA, pH, ORP, Cond, Temp, and total chlorine
SP-910	Handheld PTSA, Fluorescein and colorimeter
PTSA-100-P	100 ppb PTSA test solution, 500 ml
PTSA-300-P	300 ppb PTSA test solution, 500 ml
PTSA-1010-P	100ppb PTSA and 1,000 μS/cm test solution, 500 ml
ST-SER-01	ST sensor cleaning kit and solution, 500 ml

- ST-SER-01 50 ppb Fluorescein test solution, 500 ml FLUOR-50-P
- 50 NTU test solution, 500 ml NTU-50-P

## Hand-held Simulator

The HanTron series of handheld signal simulators provide a convenient means of testing and calibrating multiple instrumentation signals, an efficient method for calibrating current loop devices, and simulating high impedance pH & ORP probe signals.

**HT-SIM-MOP** Signal simulator for calibrating and testing mA, pH, & ORP inputs

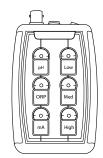
#### Options

Adds mA cable with LD2 connector L Ρ Adds mA cable with Pyxis connector

#### **Parts**

SIM-CABLE-BNC SIM-CABLE-M SIM-CABLE-LD2 SIM-CABLE-PYX Replacement BNC cable for simulator Replacement mA output cable for simulator Cable for mA output with LD2 connector Cable for mA output with PYXIS connector

COND-PLUG-T3000 Conductivity test plug for MegaTron tower cards, 3,000 uS/cm COND-PLUG-B7800 Conductivity test plug for boiler non-temp cards, 7,800 uS/cm



Model LD2820

Optics	
--------	--

**A** = PTSA optics (0-300 ppb)

**F** = Fluorescein optics (0-100 ppb)

#### Wiring -

- 1 = Standard 55" quick release cable with stripped ends
- 2 = 55" quick release cable pre-wired to separately order Advantage controller
- 3 = 72" quick release cable pre-wiring to separately order Advantage controller

#### Pre-Fab -

- **X** = Probe and tee not installed
- Y = Probe and tee pre-installed in controller or prefab plumbing (must have Advantage controller or prefab ordered as separate line item on same order)
- **Z** = Probe and tee pre-installed like option Y plus plug for tee

#### **Parts and Accessories**

LD2-CHECK-A	Hand held LD2 fluorometer with PTSA optics
LD2-CHECK-F	Hand held LD2 fluorometer with Fluorescein optics
OPTI-CHECK-2	Dual channel PTSA & Fluorescein Opti-Check tester
LD2-2820-505	Calibration cable and power supply
LD2-2820-510	Replacement tee and nut (1" FNPT)
LD2-021-2800	Replacement cable, 4-20mA; 62"
LD2-CABLE-180	Replacement cable, 4-20mA, 180"
LD2-CAL-T	Calibration tee with 1" FNPT plugs
LD2-O-ring	Replacement O-ring
LD2-PLUG	Plug for LD2 tee
LD2-RPK	Plumbing Kit to replace original tee (tee not included)
LD2-TMP	LD2 tee and plug installed in separately ordered prefab
PTSA-100	100 ppb PTSA test solution, 1 liter
PTSA-300	300 ppb PTSA test solution, 1 liter
FLUOR-100	100 ppb Fluorescein test solution, 1 liter

#### Pressure Reducing Flow Assembly for Fluorometer

Assembly includes <sup>1</sup>/<sub>4</sub>" NPT inlet valve, low flow switch, pressure regulator, pressure gauge, 0-1 gpm flow indicator and <sup>1</sup>/<sub>4</sub>" tubing to drain mounted on small blue panel. Order the desired sensor separately.



PRFA-01-T	Flow assembly with Turner tee
PRFA-01-P	Flow assembly with Pyxis tee

#### Free Chlorine & CLO2 Sensors

WG-FC02-ASM WG-FC05-ASM	0-2 PPM free chlorine sensor and flow assembly (flow cell, flow indicator, regulator, gauge and mounting board) 10 PSI max 0-5 PPM free chlorine sensor and flow assembly (flow cell, flow indicator, regulator, gauge and mounting board) 10 PSI max
WGCLD02-ASM WG-CLD10-ASM WG-FC02 WG-FC05 WG-CLD02 WG-CLD10 WG-FL-ASM	<ul> <li>0-2 PPM CLO2 sensor and flow assembly</li> <li>0-10 PPM CLO2 sensor and flow assembly</li> <li>0-2 PPM free chlorine sensor only, 10 PSI and 0.2 GPM</li> <li>0-5 PPM free chlorine sensor only, 10 PSI and 0.2 GPM</li> <li>0-2 PPM CLO2 sensor only, 10 PSI and 0.2 GPM</li> <li>0-10 PPM CLO2 sensor only, 10 PSI and 0.2 GPM</li> <li>0-10 PPM CLO2 sensor only, 10 PSI and 0.2 GPM</li> <li>Flow assembly and board without probe</li> </ul>
Options H P M	Adds a sample cooler to flow assembly Adds PSDC-24 power supply & output wiring to controller Mounts separately-ordered controller on panel with sensor / no isolation valves

#### **Replacement Parts**

FLOW-25-01	0-1 GPM flow indicator with 1/4" FNPT connections
SFS-PR	1/4" FNPT pressure regulator
WG-FLOW	Flow tee only for WG sensors
WG-O-ring	O-ring for WG sensors
WG-FC-4015	Refill solution (two 30ml bottles)
WG-PG	0-30 PSI pressure gauge
WG-PTD	Pressure transducer 0-100 PSI
WG-FCLA-5017	3 polishing squares for cathode
WG-FCLA-5018	1 replacement cap and relief band, 2 refill solutions and syringes, 3 polishing squares

## EchoPod Drum Level Sensors



- **DL 10-45-K**Pre-Calibrated to a 45" tall drum**DL 10-40-K**Pre-Calibrated to a 40" tall drum
- **DL 10-35-K** Pre-Calibrated to a 35" tall drum
- **DL 10-30-K** Pre-Calibrated to a 30" tall drum
- **DL 10-25-K** Pre-Calibrated to a 25" tall drum
- **DL 10-00-K** No pre-calibration 0-49"
- DL 24-00-K No pre-calibration 0-9.8'

Note: EchoPods require a 24 VDC supply like the PSDC-24-Q4 below.

#### **EchoPod Parts**

L199-2001	USB fob for programming
2C4A-116	Replacement 2" to 1" reducer bushing (new sensor includes one)
CABLE-FOB-7P	Cable to connect DL10/24's with K option to programming fob

LS200-\_\_-

#### Wiring –

**1** = 10' cable with stripped ends

A

- **2** = 10' cable pre-wired to Advantage device
- **3** = 12' cable with CABLE-7P-4 connector / stripped ends
- **4** = 12' cable with CABLE-7P-4 pre-wired to device

#### Bung Fitting -

- **X** = Standard 1" MNPT threads
- **B** = MNPT adaptor added

#### **Optical Leak Detection Sensor**

LO10-1305 Optical leak sensor, PP, <sup>3</sup>/<sub>4</sub>" MNPT, 12-36 VDC powered with dry contact

#### **DC Power Supply**

**PSDC-24** 90-264 VAC to 24 VDC power supply (with USA cord)

#### Options

-A	No USA cord
-Q	Provides connections for 1-4 two-wire sensors (no cables)
-Q4	Provides connections for 4 two-wire sensors with 4 CABLE-7P-2, pre-wired

# **Tower Conductivity Replacement Probes**

#### **Quick Release Style**

E-2-10	Non-Temperature Compensated Probe (A Minus Standard Replacement 10' cord)	
E-3A-10	Probe, 3-wire with 10' Cord (Standard on original Analog Models)	
E-4A-10	Probe, 4-wire with 10' cord (Standard Replacement MegaTron, MicroTrons and 2EZ)	
E-4ASS-10	E-4ASS-10 Stainless Steel electrodes, with 10' cord A Range Temperature Compensation	
All quick releas	e style conductivity probes are PVC	120 PSI (8 2 har) @ 12

#### **Threaded Mount Probes**

AH-4ASS	1" MNPT SS bushing, conductivity probe	.250 PSI (17.2 bar) @ 140°F	(60°C)
AH-4BSS	1" MNPT SS bushing, conductivity probe	.250 PSI (17.2 bar) @ 140°F	(60°C)

#### **Special Type Probes**

DC-4A	Tank mounted probe, CPVC	190°F (87.7°C)
DC-4ASS	Tank mounted, SS tips, CPVC	190°F (87.7°C)
CS-4ASS	Corporation stop probe, 1" valve PVC	75 PSI (5.1 bar) @ 140°F (60°C)
DI-4A	Direct insertion probe, 1" MNPT & quick release	120 PSI (8.2 bar) @ 125°F (51.6°C)
DI-27-4A	High conductivity probe with 1" quick release	120 PSI (8.2 bar) @ 125°F (51.6°C)
AL-4RTD	Pure water probe with RTD temp, <sup>1</sup> / <sub>2</sub> " MNPT	.100 PSI (6.8 bar) @ 212°F (100°C)
AL-4ASS-10	Pure water probe with thermistor, 1/2" MNPT	.100 PSI (6.8 bar) @ 212°F (100°C)

Note: For conductivity probes with longer wires, see page 37.

# **Boiler Conductivity Replacement Probes**

BE-2	1" MNPT SS threads, PEEK core
BE-32	1" MNPT SS, PEEK core
BE-32-S	¾" MNPT SS, PEEK core 250 PSI (17.2 bar) @ 400°F (204°C) / 350 PSI @ 265°F
BE-34B	1" MNPT SS PEEK, thermistor 250 PSI (17.2 bar) @ 400°F (204°C) / 350 PSI @ 265°F
<b>BE-4RTD</b>	1" MNPT SS, PEEK, RTD 250 PSI (17.2 bar) @ 400°F (204°C) / 350 PSI @ 265°F
<b>BE-4RTD-S</b>	¾" MNPT SS, PEEK, RTD 250 PSI (17.2 bar) @ 400°F (204°C) / 350 PSI @ 265°F
BE-H2-S	<sup>3</sup> / <sub>4</sub> " MNPT SS, PEEK core
<b>BE-H4RTD-S</b>	<sup>3</sup> / <sub>4</sub> " MNPT SS, PEEK, 4-wire RTD
1C	1" FNPT steel cross
3/4C	¾" FNPT steel cross for BE-4RTD-S Probe
Notes:	1 To make boiler probes a complete probe and cross assembly add a suffix of C to the end of

- **Notes:** 1. To make boiler probes a complete probe and cross assembly add a suffix of C to the end of the part number.
  - 2. A Range Temp Compensation = 32-140°F (0-60°C) B Range Temp Comp = 32-212°F (0-100°C)

#### pH Replacement Probes

PE-21	Flat Surface, PVC quick release, 10' lead	100 PSI (6.8 bar) @ 140°F (60°C)
PE-21SS	Double Junction, SS body, ½" MNPT	200 PSI (13.8 bar) @ 180°F (82.2°C)
PE-11	Low ionic pH 10' lead	50 PSI (3.4 bar) @ 180°F (82.2°C)
PE-21CS	Corp-stop pH sensor assembly, 1" FNPT	100 PSI (6.8 bar) @ 165°F (73.8°C)

#### **ORP Replacement Probes**

OE-21	Flat surface, PVC quick release, 10' lead	100 PSI (6.8 bar) @ 140°F (60°C)
OE-21SS	Double junction, SS body, 1/2" MNPT	. 200 PSI (13.8 bar) @ 180°F (82.2°C)
OE-11	Low ionic, ORP, 10' lead, 1/2" MNPT	50 PSI (3.4 bar) @ 180°F (82.2°C)
OE-21CS	Corp-stop ORP sensor assembly, 1" FNPT	100 PSI (6.8 bar) @ 180°F (82.2°C)

#### **Temperature Only Replacement Probes**

TC-1	Thermistor temperature probe, PVC quick release 120 PSI (8.2 bar) @ 125°F (51.6°C)

#### Plumbing Parts

i lumbing i urc	
BL-1	1" Non-Clear Flushable Basket Strainer (20 mesh screen)
BL-1-CL	1" Clear Basket Strainer
BL-3/4-BLK	¾" Non-Clear Plastic Basket Strainer (20 mesh screen)
BL-3/4-BOWL	Bowl for BL-¾
BL-3/4-GASKET	Gasket for BL-¾
<b>BL-3/4-SCREEN</b>	Strainer screen for BL-¾
FH-10-075	10" Filter housing ¾" FNPT
GV-3/4	¾" (200 PSI) Brass Ball Valve
PTS-3/4	3/4" Plastic Basket Strainer / Flushable
PTS-1.5	1-1/2" Plastic Basket Strainer / Flushable
TU-3/4	¾" True Union PVC Ball Valve
TU-1	1" True Union PVC Ball Valve
Y STRAINER	¾" Black Iron 20 Mesh Screen
YP-3/4	<sup>3</sup> / <sub>4</sub> " poly Y strainer, flushable (add -SP for flush valve)
AFS-1.5	1-1⁄2" basket strainer with 120 VAC powered flush valve

#### pH & ORP Probe Parts

•	
BNC-ADPT	BNC to two-wire adaptor for pH/ORP probes
BNC-CONN	BNC connector for side of enclosure to system card
E-30-PH	O-ring (For New pH Probe)
FC-50P	1⁄2" MNPT gland for PE-11 probe
DPE	Tank Mounted pH/ORP Probe Assembly (less probe)
PE-NUT	Probe Assembly Nut
PH-EXT-10	pH Cable Extension, 10 feet
PH-EXT-50	pH Cable Extension, 50 feet
RTP-3	pH Transmitter with Power Supply and Multiple Wire Connections
RTP-4	pH Transmitter with replaceable batteries and 2 wire output
T-ADAPT	Quick disconnect pH/ORP probe opening to 1" slip adaptor

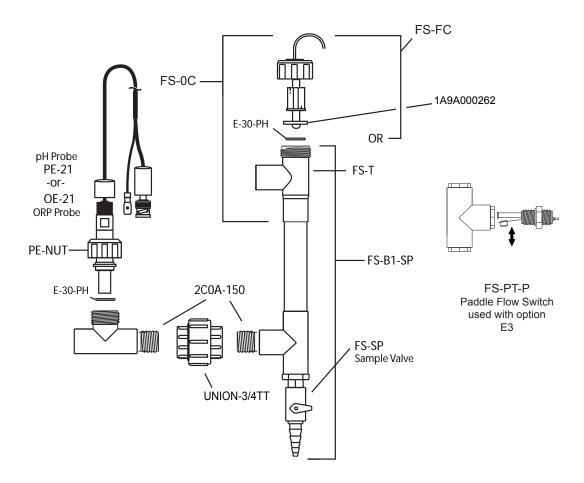
## Miscellaneous PVC Quick Release Probe Assembly Parts

3/4 MNPT-KIT	2 PVC nipples, ¾" male slip on one end and ¾" male thread on the other end
T-3	Tee Only
T-3-CPV	CPVC Tee Only
PLUG-T3	Plug for T-3 tee complete with nut, O-ring and plug
MW-T-3	Single Probe Tee with <sup>3</sup> / <sub>4</sub> " MNPT on one end and <sup>3</sup> / <sub>4</sub> " slip on the other
MW-T-3-2	Dual Probe Tee assembly with <sup>3</sup> / <sub>4</sub> " MNPT on one end and <sup>3</sup> / <sub>4</sub> " slip on the other
INJ-COL	Injection tee collar
CAL-T3	Quick release 3/4" PVC tee plugged for holding calibration solution

# Build a Replacement Flow Assembly (Probes not Included)FS-B1Flow Switch Tee with Sample Tee Body

- - B2 Add One Probe Tee
    - **B3** Add Two Probe Tees

	B6 Add Three Probe Tees			
0C-P Add		0C-P	Add Complete Flow Switch Cap and Plunger Add paddle style flow switch and 1" PVC tee Add Flow indicator with switch	
			SP - Add Plastic Sample Cock	
			J1 - Add 1 Injection Tee Assembly J2- Add 2 Injection Tee Assemblies J3 - Add 3 Injection Tee Assemblies J4 - Add 4 Injection Tee Assemblies	
F	S- B2	 - 0C -	U - Unassembled	
			32	



#### **Flow Assembly Parts**

ibly Parts
Dual read switch flow switch
Flow Switch - CPVC Cap and Reed Switch
Complete CPVC Flow Switch Assembly
Flow Switch - Gray Plunger and Magnet
Flow Switch, PVC cap, reed switch, plunger, O-rings and float
Spring for FS-C mechanical style flow switch
Sample Ball Valve - PVC
Flow Switch - Clear PVC Tee (add G to get Gray)
Complete Clear Flow Switch Assembly (add G to get Gray)
Flow switch and sample tee section
O-ring for older quick release probes
O-ring for flow switch and quick release probes
Probe Tee with <sup>3</sup> / <sub>4</sub> " PVC slip connections in and out
¾" Tee With Sample Port
Single Probe Tee with ¾" MNPT on one end and ¾" slip on the other
Dual Probe Tee assembly with <sup>3</sup> / <sub>4</sub> " MNPT on one end and <sup>3</sup> / <sub>4</sub> " slip on the other
Triple Probe Tee assembly with <sup>3</sup> / <sub>4</sub> " MNPT on one end and <sup>3</sup> / <sub>4</sub> " slip on the other
¾" slip to 3/4" MNPT nipple, PVC
¾" PVC union, FNPT on both sides
Flow Switch - High Pressure, Brass, 250 PSI @ 220°F, ¾" tee
Paddle type flow switch with 1" PVC tee with ¾" reducers; 150 PSI @ 75°F
Paddle type flow switch with 1" PVC tee (no reducers)
Paddle type flow switch (no tee).
<sup>3</sup> ⁄ <sub>4</sub> " low flow paddle switch with 3/4" PVC slip tee (0.4 GPM on)
Black cap for FS-PT style flow switches
¾" MNPT paddle switch
<sup>3</sup> ⁄ <sub>4</sub> " MNPT paddle switch with <sup>3</sup> ⁄ <sub>4</sub> " brass tee
¾" MNPT paddle switch with ¾" iron tee
Flow director for new style flow switch
1" PVC tee for FS-PT

# Filter Housings

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Flow

50 gpm 100 gpm

150 gpm

450 gpm

600 gpm

50 gpm

100 gpm

150 gpm

450 gpm

600 gpm

50 gpm

100 gpm

150 gpm

28 gpm 56 gpm

35 gpm 70 gpm

105 gpm 140 gpm

Flow

90 gpm

90 gpm

90 gpm

180 gpm

180 gpm

180 gpm

SCICLONE Series 304SS Housing with Solid Separation before Jumbo Filter					
Part	Description	Ports	Drain		
SC40SB	40 single jumbo filter	2" Flange	¾" FNPT		
SC90SB	90 single jumbo filter	2" Flange	¾" FNPT		
SC170SB	170 single jumbo filter	2" Flange	¾" FNPT		
SC170SB-3	170 x 3 single jumbo filter	4" Flange	1.5" FNPT		
SC170SB-4	170 x 4 single jumbo filter	6" Flange	1.5" FNPT		
HSBJ Series Jumbo 3	04 SS Filter Housing with Swi	na Bolts			
HSBJ40	40 single jumbo filter	2" FNPT	1" FNPT		
HSBJ90	90 single jumbo filter	2" FNPT	1" FNPT		
HSBJ170	170 single jumbo filter	2" FNPT	1" FNPT		
HSBJ170SB-3	170 x 3 single jumbo filter	4" FNPT	1.5" FNPT		
HSBJ170SB-4	170 x 4 single jumbo filter	6" FNPT	1.5" FNPT		
HBCJ Series Jumbo 3	304 SS Filter Housing with Ban	d Clamp			
HBCJ40	40 single jumbo filter	2" FNPT	1" FNPT		
HBCJ90	90 single jumbo filter	2" FNPT	1" FNPT		
HBCJ170	170 single jumbo filter	2" FNPT	1" FNPT		
MRH Sories 2 75" Mul	ti Round 304SS Filter Housing	with Band Cla	mn		
MRH-410-2BC	4 x 10" single 2.75" filters	2" FNPT	¾" FNPT		
MRH-420-2BC	$4 \times 20^{\circ}$ single 2.75° filters	2" FNPT	3⁄4" FNPT		
MRH-510-2BC	5 x 10" single 2.75" filters	2" FNPT	¾" FNPT		
MRH-520-2BC	5 x 20" single 2.75" filters	2" FNPT	¾" FNPT		
MRH-530-2BC	5 x 30" single 2.75" filters	2" FNPT	¾" FNPT		
MRH-540-2BC	5 x 40" single 2.75" filters	2" FNPT	¾" FNPT		
WIXI1-340-280	5 X 40 Single 2.75 Inters	2 1 1 1 1	,		
	Ū.		, ,		
	lousing 304SS with Adjustable Description		Vents		
BF Series Bag Filter H	lousing 304SS with Adjustable	e Legs			
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp	e Legs Ports 2" FNPT 2" FNPT	<b>Vents</b> ¼" FNPT ¼" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> ¼" FNPT ¼" FNPT ¼" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp	e Legs Ports 2" FNPT 2" FNPT	<b>Vents</b> ¼" FNPT ¼" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> ¼" FNPT ¼" FNPT ¼" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adji 1 x #1 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT ustable Legs 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adj	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> ¼" FNPT ¼" FNPT ¼" FNPT ¼" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N BF2-C-2N	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT ustable Legs 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N BF2-C-2N	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adj 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N BF2-C-2N 2.5" O.D. Filter Housin	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adj 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-10CLBK34PR	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-C-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-10CLBK34PR HF5-ORING FM-20W	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 0 rillue Body, ¾" Black Rib Ca 10" Clear Body, ¾" Black Rib Ca	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-C-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-10CLBK34PR HF5-ORING FM-20W	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 0 x #1 bag, swing bolt 1 x #2 bag, swing bolt	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF Series Bag Filter H BF1-C-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-0RING FM-20W 4.5" O.D. Filter Housin	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt 0 Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 10" Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 0-ring for HF5 Filter Housing Bracket White, Single HF5 ng 100F and 90 PSI Max 10" Blue 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black C 10" Clear 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black Cap	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT ap, PR ap, PR ap, PR 34", PR	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-10CLBK34PR HF45-10BLBK34PR HF45-10CLBK34PR HF45-20BLBK10PR	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adji 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 0 Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 10" Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 0-ring for HF5 Filter Housing Bracket White, Single HF5 10" Blue 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black Ca 10" Clear 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black Cap 20" Blue 4.5" Body, 1" Black Cap	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT ap, PR ap, PR 3/4", PR	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-10CLBK34PR HF45-10BLBK34PR HF45-10BLBK34PR HF45-20BLBK10PR HF45-20CLBK10PR	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #2 bag, swing bolt 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adju 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 0 Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 10" Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 10" Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 10" Clear A 5" Body, <sup>3</sup> / <sub>4</sub> " Black Ca 10" Clear 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black Ca 20" Clear 4.5" Body, 1" Black Ca	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT ap, PR ap, PR 3/4", PR	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		
BF Series Bag Filter H Part BF1-304-2NBC BF2-304-2NBC BF1-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-304-2N BF2-C-2N 2.5" O.D. Filter Housin HF5-10BLBK34PR HF5-10CLBK34PR HF45-10BLBK34PR HF45-10CLBK34PR HF45-20BLBK10PR	Housing 304SS with Adjustable Description 1 x #1 bag, band clamp 1 x #2 bag, band clamp 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt 1 x #2 bag, swing bolt Housing Carbon Steel with Adji 1 x #1 bag, swing bolt 1 x #2 bag, swing bolt 0 Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 10" Clear Body, <sup>3</sup> / <sub>4</sub> " Black Rib Ca 0-ring for HF5 Filter Housing Bracket White, Single HF5 10" Blue 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black Ca 10" Clear 4.5" Body, <sup>3</sup> / <sub>4</sub> " Black Cap 20" Blue 4.5" Body, 1" Black Cap	e Legs Ports 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT 2" FNPT ap, PR ap, PR 34", PR 34", PR 1" PR	<b>Vents</b> 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT 1⁄4" FNPT		

#### Hot Water 2.5" Filter Housings

HF5HT-10RDRD34	10" Red plastic, 165°F max
HF4510SS-10	10" 304 SS housing, 200°F max

	- M -					
Replacement Filters						
	ilters for BF housings Max Ten	חס 190°F				
Part	Description	Micron	Case			
BAG1-5M	#1 bag, 7" x 16.5"	5 µ	50 pcs			
BAG1-25M	#1 bag, 7" x 16.5" #1 bag, 7" x 16.5"	25 µ	50 pcs			
BAG1-50M BAG1-75M	#1 bag, 7" x 16.5" #1 bag, 7" x 16.5"	50 μ 75 μ	50 pcs 50 pcs			
BAG2-5M	#2 bag, 7" x 32"	5μ	50 pcs			
BAG2-25M	#2 bag, 7" x 32"	25 µ	50 pcs			
BAG2-50M	#2 bag, 7" x 32"	50 µ	50 pcs			
BAG2-75M	#2 bag, 7" x 32"	75 μ	50 pcs			
SPX Series 2 75" Plea	ated Poly Filters with Poly Core	Max Temp 14	0°F			
SPX-275-1005	2.75" round x 9.75" long	5 μ	40 pcs			
SPX-275-1020	2.75" round x 9.75" long	20 µ	40 pcs			
SPX-275-1050	2.75" round x 9.75" long	50 µ	40 pcs			
SPX-275-19505	2.75" round x 19.5" long	5 µ	20 pcs			
SPX-275-19520 SPX-275-19550	2.75" round x 19.5" long 2.75" round x 19.5" long	20 μ 50 μ	20 pcs 20 pcs			
3FX-275-19550	2.75 Tourid x 19.5 Torig	50 µ	20 pcs			
SPX Series 4.5" Pleat	ed Poly Filters with Poly Core,	Max Temp 140	°F			
SPX-45-1005	4.5" round x 9.75" long	5 µ	12 pcs			
SPX-45-1020	4.5" round x 9.75" long	20 µ	12 pcs			
SPX-45-1050 SPX-45-2005	4.5" round x 9.75" long 4.5" round x 20" long	50 μ 5 μ	12 pcs 6 pcs			
SPX-45-2005	4.5" round x 20" long	20 μ	6 pcs			
SPX-45-2050	4.5" round x 20" long	50 µ	6 pcs			
SWX Series 2.5" Strin SWX-25-1005	Ig Wound Poly Filters with Pol 2.5" round x 10" long					
SWX-25-1005	2.5" round x 10" long	5 μ 20 μ	40 pcs 40 pcs			
SWX-25-1050	$2.5^{\circ}$ round x 10° long	20 μ 50 μ	40 pcs			
SWX-25-2005	2.5" round x 20" long	5 µ .	20 pcs			
SWX-25-2020	2.5" round x 20" long	20 µ	20 pcs			
SWX-25-2050	2.5" round x 20" long	50 µ	20 pcs			
SWT Series 2.5" Strin	g Wound Poly Filters with Tin	Core, Max Tem	p 200°F			
SWT-25-1005	2.5" round x 10" long	5 µ ́	40 pcs			
SWT-25-1010	2.5" round x 10" long	10 µ	30 pcs			
SWT-25-1020	2.5" round x 10" long	20 µ	40 pcs			
SWT-25-1050 SWT-25-2005	2.5" round x 10" long 2.5" round x 20" long	50 μ 5 μ	40 pcs 20 pcs			
SWT-25-2005	2.5" round x 20" long	3 μ 20 μ	20 pcs 20 pcs			
SWT-25-2050	2.5" round x 20" long	50 μ	20 pcs			
	-					
HSC Series Pleated J Part	umbo Cartridges for Sciclone, Dimensions	HSBJ and HBC Micron	J, Max Temp 1 Rcmd Flow	40°F Max Flow		
HSC-40-10	7 ¾" x 9 5⁄8"	10 µ	35 gpm	50 gpm		
HSC-40-50	7 <sup>3</sup> ⁄ <sub>4</sub> " x 9 <sup>5</sup> ∕ <sub>8</sub> "	50 μ	35 gpm	50 gpm		
HSC-40-100	7 <sup>3</sup> ⁄ <sub>4</sub> " x 9 <sup>5</sup> ⁄ <sub>8</sub> "	100 µ	35 gpm	50 gpm		
HSC-90-10	7 ¾" x 19 ½"	10 µ	70 gpm	100 gpm		
HSC-90-50	7 <sup>3</sup> ⁄ <sub>4</sub> " x 19 <sup>1</sup> ⁄ <sub>2</sub> "	50 µ	70 gpm	100 gpm		
HSC-90-100	7 <sup>3</sup> ⁄ <sub>4</sub> " x 19 <sup>1</sup> ⁄ <sub>2</sub> " 7 <sup>3</sup> ⁄ <sub>1</sub> " x 20 <sup>3</sup> ⁄ <sub>1</sub> "	100 µ	70 gpm	100 gpm		
HSC-170-10 HSC-170-50	7 <sup>3</sup> ⁄ <sub>4</sub> " x 30 <sup>3</sup> ⁄ <sub>4</sub> " 7 <sup>3</sup> ⁄ <sub>4</sub> " x 30 <sup>3</sup> ⁄ <sub>4</sub> "	10 μ 50 μ	105 gpm 105 gpm	150 gpm 150 gpm		
HSC-170-100	7 <sup>3</sup> / <sub>4</sub> " x 30 <sup>3</sup> / <sub>4</sub> "	100 μ	105 gpm	150 gpm		
			51	51		
Accessories						
FHK-ISOVALVES	Two 304SS 2" ball valves and	3" long nipples fo	or filter housings	with 2" ports		
FPTD-100	Two-wire 0-100 psi pressure tra	ansducer 4-20 m	Aout	-		
PG25100B	2.5" pressure gauge, backmou					
PG25160B	2.5" pressure gauge, backmou					

2.5" pressure gauge, backmount, ¼" MNPT 0-160 psi 2.5" pressure gauge, backmount, ¼" MNPT 0-300 psi 35 PG25300B

Model ROUTER - \_

Router Type			
3	= .	Industrial grade with built in modem	
3A	=	Industrial grade with build in modem for AT&T	
4	=	Industrial grade with built in modem with international power adapters	
Pron	aid Co	ell Service —	
00	=	No service (also removes the USB modem)	
	=		
. –			
		1 GB/Month data for 12 months w/ delayed activation	
24	=	1 GB/Month data for 24 months	
Parts	\$		
VDATA-12 1 GB/ Month data for 12 months			
VDATA-24 1 GB/ Month data for 24 months			
	R-ROUTER-3 Replacement industrial grade router only; no enclosure		
		ANTENNA Replacement magnetic mount antenna for ROUTER-3	
ROU	TER-F	PBOX Install router power transformer in NANO box with 120 VAC cord	
ROU	TER-S	SWITCH-4 External ethernet switch (4 port)	

# Hand Held Tester

The HanTron series of handheld testers provide accurate conductivity and temperature readings of any water system sample with features normally seen on much more expensive testers including: memory for 20 readings, unit of measure selections, and temperature readings at a price comparable to older analog testers.



HT-3P = Conductivity tester

# **Standard Solutions**

CONDUCTIVITY           C-500-16         500 μS           C-2500-16         2500 μS           CAL3PK-COND		16 oz. 16 oz. 4 oz of 148, 3482 & 12880 conductivity standards
рН рН-4-16 рН-7-16 рН-10-16	4.0 рН 7.0 рН 10.0 рН	16 oz. 16 oz. 16 oz.
ORP ORP-16	200-275 mV ORP	16 oz.

# Liquid Level Alarm Fill Controllers

ALL low-level units prevent pumps from running dry and provide an alarm LED and relay notification of the low-level condition.

LEVE CONTROLLER

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FILL units automate filling of a tank with a low "ON" and high "OFF" level switch input.

		The Da
ALL-100	Designed for use with 100-gallon tank. Level controller with 60" wand 120 VAC, 60 Hz, 5-amp receptacles labeled PUMP and ALARM	
ALL-50	Designed for use with 50-gallon tank. Level controller with 42" wand 120 VAC, 60 Hz, 5-amp receptacles labeled PUMP and ALARM	
ALL-30	Designed for use with 30-gallon tank. Level controller with 30" wand 120 VAC, 60 Hz, 5-amp receptacles labeled PUMP and ALARM	
ALL-C FILL-C00	Level Controller only (less wand) Fill controller only with no level wands	
FILL-C35 FILL-C55	Fill controller only with 2 wands sized for an Advantage 35-gallon tank Fill controller only with 2 wands sized for an Advantage 55-gallon tank	
Options C E H H1 LED S V	240 V Extra Output Cord High alarm input on FILL unit with control cut-off and 120-volt alarm output (no wand) High alarm on FILL unit with control cut-off and dry contact alarm output (no wand) LED on Level Wand Switch for Output (ON/OFF) Audible Alarm with Silence Switch, 100 db	
Level Wands C ALL-S60 ALL-S42 ALL-S30 ALL-S20 ALL-S12	Doly Level Wand adjustable to 60" with switch contacts 28 VDC 50 mA Level Wand adjustable to 42" with switch contacts 28 VDC 50 mA Level Wand adjustable to 30" with switch contacts 28 VDC 50 mA Level Wand adjustable to 20" with switch contacts 28 VDC 50 mA Level Wand adjustable to 12" with switch contacts 28 VDC 50 mA	

AL CPVC construction instead of PVC Α

- С Prewire Level Wand to separately ordered MegaTron
- D Level wand 1/4" pipe with second liquid tight for suction tubing

#### Standard Wire Extensions for Conductivity and Flow Sensors

WIRE-2-10C	2 conductor, 10' extension
WIRE-2-25C	2 conductor, 25' extension
WIRE-2-50C	2 conductor, 50' extension
WIRE-2-100C	2 conductor, 100' extension
WIRE-4-10C	4 conductor, 10' extension
WIRE-4-25C	4 conductor, 25' extension
WIRE-4-50C	4 conductor, 50' extension
WIRE-4-100C	4 conductor, 100' extension

Add an R to the end of the part number for Molex connection.

Note: Order controller with standard probe wire and the extension(s) desired as a separate line item. The probe wire extension will be added to the controller as a continuous length.

WIRE-2 WIRE-3 WIRE-4 WIRE-DUCT	2 Conductor Cable - 22 AWG 3 Conductor Cable - 22 AWG 4 Conductor Cable - 22 AWG 1" x 1" wire channel duct with cover	3.00/ft 3.00/ft
CABLE-7P-2 CABLE-7P-4 CABLE-7P-2A CABLE-7P-EXT25 CABLE-7P-EXT50	Prewired 2 conductor cable to mA input and 12VDC power with 7 pin connector, 6' Prewired 4 conductor cable to mA input and 12VDC power with 7 pin connector, 6' Prewired 2 conductor cable to mA input and no voltage and 7 pin connector, 6' 25' extension cable with connectors 50' extension cable with connectors	

Note: Add -15 to the end of CABLE part number for 15' long cable.

#### **Miscellaneous**

**BOXFLOWCLIP-1** Flow clip assembly for SS/XS controllers **BOXFLOWCLIP-75** Flow clip assembly for MicroTron and 2EZ controllers **BUZZ-1** Alarm buzzer (100 db) in standard box, pre-wired with 8' male power cord (-2, -3 or -4 for addition power cord inputs) **CIRC-075** <sup>3</sup>⁄<sub>4</sub>" Circ pump; 4 GPM, 120 VAC pre-wired **CIRC-075-SS** <sup>3</sup>/<sub>4</sub>" Circ pump stainless steel; 10 GPM, 100 PSI, 120 VAC pre-wired CLAMP-ASM-3/4A Adjustable pipe clamp assembly with bolts and t-nuts CLIP-3/4-ASM <sup>3</sup>/<sub>4</sub>" pipe mounting C clip with base 1" pipe mounting C clip with base **CLIP-1-ASM** Power Cord -8 foot with plug **CORD-POWER** CORD-RECPT 8" cord with Molded Receptacle Clear Lexan cover for enclosure (SS, XS, Micro & 2EZ Controllers) DOOR Black cover for SS, XS, Micro, 2EZ & NANO option W Controllers DOOR-Z **KEY-FE3** Replacement key for FE3 cabinet MA-LOOP-ISO-1 4-20mA loop isolator Lower cover on MegaTron full size units **MG-COVER** New style MicroTron box with clear cover **MICRO-BOX** Replacement keypad for MICRO-C/F4 **MICRO-KEYPAD** Alarm buzzer in mini box with plug in transformer, 100 db **MINI-BUZZ** Motor Starter, 25 Amp Relay, conduit connections **MS-001** Motor Starter, 25 Amp Relay, prewired (2 male, 1 female, 13-amp cords) **MS-002 MS-003** 25-amp relay box, 120 pre-wired input with 2 wire dry contact output MS-003-001 Mounts a MS-003 on poly with separately ordered NANO-F2 Nanotron style box with cover and 3 liquid tights 3/3" NANO-BOX-3 1/4" MNPT to 3/8" tubing, straight P6MC4 **PRV-SS-1/4** 1/4" SS pressure relief valve, relieves at 100 PSI 0-25 PSI pressure transducer, 4-20 mA out, 12-24 VDC **PTD-025** 3/8" poly panel for mounting SS with no plumbing area SS-CMB Lower cover on SS & XS enclosures **SS-COVER** Replacement latch for SS, MicroTron and analog units **SS-LATCH** Middle section of SS & XS enclosure **SS-MIDSECTION** MG/SS battery 1A0A000078 1A1T000084 NANO battery Relay output Fuse 5 x 20 MM, 5 AMP 1A5B000337 1/2" liquid tight 1A9A000015 3/8" liquid tight 1A9A000017 3/8" liquid tight to 1/2" FNPT conduit 1A9A000243A 1G1F000087 20-amp relay, 230 VAC 1G1F000105 25-amp relay 1M1P000043 120 VAC plugin AC adapter; 24 VDC out 1M1P000159 XS battery 1P1P000219 Relay output Fuse 5 x 20 mm, 2.5 AMP slow blow

#### **MegaTron Parts**

Meyanon Faits	
MG-RL-CPLR	Relay card ribbon cable to wire cable adapter inside controller
MG-RL-CPLR-EXT	Relay card adapter for remote relay box
MG-PWR	Power supply board
MG-PROGCHIP	MegaTron Program chip
MG-KEYPAD-ASM	Keypad and display panel assembly (no display)
MG-DISPLAY-ASM	Display panel assembly complete with keypad
MG-DISPLAY-ASM-V1	Display panel assembly complete with keypad (older motherboards)
MG-DOOR	Clear cover
MG-FUSE-PAK	(5) 2.5-amp fuses
MG-ICM-01	Internet communications card
MG-CAT5	CAT 5 cable from internal communications card
MG-MAO-3	4-20mA output card with 3 outputs
MG-MAO-6	4-20mA output card with 6 outputs
MG-MAI-3	4-20mA input card with 3 inputs
MG-MAI-8	4-20mA input card with 8 inputs
MG-AUXFLOW-W3	3 auxiliary flow meter inputs
MG-AUXFLOW-W6	6 auxiliary flow meter inputs
MG-AUXFLOW-W9	10 auxiliary flow meter inputs
AUXFLOW-WIRE	Auxiliary flow meter input cable with 3 pin Molex
MG-SYS-	System card
	Add all the desired system function codes from the unit model numbering system.

#### **Repair Options and Fees**

Advantage Controls is proud to offer a two-year warranty on all controllers and metering pumps. We back this warranty up with a unique 30-day replacement memo policy. If something happens to your unit after it is out-of-warranty, we still want to help.

Call our technical support staff with the model, serial number and problem of your unit. If we are unable to fix the unit through troubleshooting, we will give you an RMA (return materials authorization) number to send the unit in. The different styles of units (Megatron, MICROtron, Nanotron controllers and pump) each have a Repair List Price. Normal replacement items are not included (i.e. probes, flow switches, liquid ends)

#### HT-3P

Analog Timers, Liquid Level and Flow Controllers MicroTron Controllers (with 1 or less probe inputs) MicroTron Controllers (with 2 or more probe inputs) MegaTron MG MegaTron MT MegaTron XS NanoTron timer only NanoTron (1 sensor input) Pumps (does not include liquid-end parts)

#### Service Call

Consult factory for more details.

#### Manufacturer's Product Warranty

Advantage Controls warrants control systems of its manufacture to be free of defects in material or workmanship. Liability under this policy extends for 24 months from date of installation (sensors are not included). Liability is limited to repair or replacement of any failed equipment or part proven defective in material or workmanship upon manufacturer's examination. Removal and installation costs are not included under this warranty. Manufacturer's liability shall never exceed the selling price of equipment or part in question. Advantage disclaims all liability for damage caused by its products by improper installation, maintenance, use or attempts to operate products beyond their intended functionality, intentionally or otherwise, or any unauthorized repair. Advantage is not responsible for damages, injuries or expense incurred through the use of its products. The above warranty is in lieu of other warranties, either expressed or implied. No agent of ours is authorized to provide any warranty other than the above.

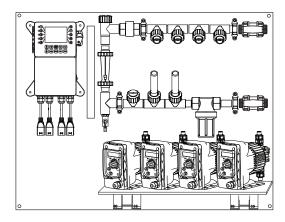
#### **30 Day Billing Memo Policy**

Advantage Controls maintains a unique factory exchange program to ensure uninterrupted service with minimum downtime. If your controller malfunctions, call 1-918-686-6211 (international customers dial +1918 686-6211), and provide our technician with Model and Serial Number information. If he is unable to diagnose and solve your problem over the phone, a fully warranted replacement unit will be shipped, usually within 48 hours, on a 30-Day Billing Memo. This service requires a purchase order, and the replacement unit is billed to your regular account for payment. The replacement unit will be billed at current list price for that model less any applicable resale discount. Upon return of your old unit, credit will be issued to your account if the unit is in warranty. If the unit is out of warranty or the damage not covered, a partial credit will be applied based upon a prorated replacement price schedule dependent on the age of the unit. Any exchange covers only the controller or pump. Electrodes and other external accessories are not included.

# Get the Advantage in Water Treatment Equipment

Advantage Controls can give you the *Advantage* in products, knowledge and support on all of your water treatment equipment needs.

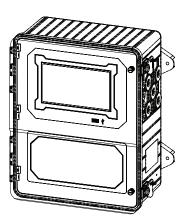
- Cooling Tower Controllers
- Boiler Blow Down Controllers
- Blow Down Valve Packages
- Bleed Valves
- Water Meters
- Chemical Metering Pumps
- Corrosion Coupon Racks
- Chemical Solution Tanks
- Solid Feed Systems
- Bypass Feeders
- Filter Equipment
- Glycol Feed Systems
- Pre Fabricated Systems



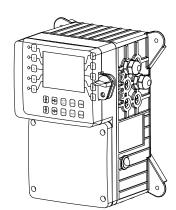


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