* PULSAFEEDER

Process Control Instrumentation







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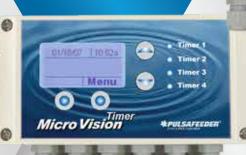
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O O MicroVision 5 Feed

Blocide A

***PULSAFEEDER**







Product

Effective 01/01/18

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IMPORTANT INFORMATION WHEN PLACING AN ORDER

1. Fax, mail or telephone orders directly to the Customer Service Department:



2. Please have the following information available when placing an order:

Account Name Special Tags or Marks (if needed)

Billing Zip Code Item(s) Being Ordered Purchase Order Number Quantity of Each Item

Ship to Address Pricing

Payment Terms Shipping Information

- 3. Orders are entered upon receipt. Our ability to change in house orders is limited. Please be certain your orders are complete when placed. Any order cancellation or change request is subject to a cancellation fee.
- 4. Orders are assigned standard lead times based on the size of the order and product mix: Orders requiring expedited shipping (sooner than the standard lead times) are subject to a expedite charge. Unless the order clearly requests expedited shipping, the order will be treated as a routine order. When expedited shipping is requested a designated carrier must be selected. Orders that need to ship the same day must be received by 12:00 PM EST. Same day and next working day shipping is generally available for larger orders but not guaranteed, please verify with customer service. We shall have no liability if unable to provide expedited shipping of an order
- Repairs and returns are coordinated through our Customer Service Department. All orders returned must have factory authorization, and are subject to a 25% restocking charge for standard product.
- 6. Other Important Information:
- · Prices are subject to change without notice, and are effective when order is accepted, and acknowledged at point of shipment.
- · When ordering, specify your P.O. number, model number, quantity, price, shipping and/or billing address and order date.
- Standard terms are NET 30 days from date of invoice for approved accounts on open account.
- WE ACCEPT VISA, MASTERCARD, AMERICAN EXPRESS and DISCOVER CARD.
- All prices are F.C.A. Punta Gorda, FL or Kingwood, Texas location.
- Custom product sales are final.
- Charges for export documentation may apply an very by requirements.
- Expedite fees may apply. Orders requiring expedited shipping (sooner than the standard lead times) are subject to an expedite charge.
- · Fees for changes to or cancellation of orders may apply.



MicroVision EX 3.0 is a microprocessor-based conductivity, pH and ORP controller, with the features and functions you need for accurate monitoring and control of cooling tower water that won't break your budget!

Features

- · Toroidal conductivity sensor.
- · One-point calibration.
- · Large easy to read color display.
- · Lockable front cover.
- Multiple level security codes.
- Up to 10 digital inputs.
- Optional 4-20 mA analog outputs.
- Dry contact alarm output.
- · Battery backup.
- USB data logging is standard:
 - ♦ Up to 2 years of data logging.
 - ♦ Upload/Download program settings.
 - ♦ Upgrades to the Operating System.

- Optional PULSAlink cloud based communications.
- eServiceReport compatible.
- Customizable names for relays, water meters and inputs, synced to Controller, PULSAlink cloud, App and reports.
- · Unsurpassed reporting and graphing.
- · Enhanced charting capabilities.
- · Customizable timer programs without system reboot.
- Ability to add 2nd water meter.
- · Robust data logging capabilities.





-13							
Model Number	Probe Style	Programmable	Panel / Pump	Digital	PULSAlink and Smart Phone App		
model Number	1 Tobe Otyle	Timers	Mount	Inputs	Compatiable ²		
Conductivity Control)l						
MVECXXXPX-XXX-XXX 1	Torodial	3	None	6	No		
MVECXXXPX-XXX-CZXXX 1	Torodial	3	None	6	No		
MVECXXXPF-XXX-XXX	Torodial	3	None	6	No		
MVECXXXPF-XXX-CZXXX	Torodial	3	None	6	No		
MVECXXXPA-XTX-XXX	Little Dipper PTSA	3	Yes / No	6	No		
MVECXXXPA-XPX-XXX	Pyxis PTSA	3	Yes / No	6	No		
MVECXXXPA-XXX-XXX	Torodial	3	Yes / No	6	No		
MVECXXXPA-XXX-CZXXX	Torodial	3	Yes / No	6	No		
MVECXXXPA-EXX-XXX	Torodial	3	Yes / No	6	Included		
MVECXXXPA-EXX-CZXXX	Torodial	3	Yes / No	6	Included		
MVECXXXPA-ETX-XXX	Little Dipper PTSA	2	Yes / No	6	Included		
MVECXXXPA-EPX-XXX	Pyxis PTSA	2	Yes / No	6	Included		
MVECXXXPD-XXX-XXX	Torodial	3	Yes / Yes - 3	6	No		
MVECXXXPD-XXX-CZXXX	Torodial	3	Yes / Yes - 3	6	No		
MVECXXXPD-EXX-XXX	Torodial	3	Yes / Yes - 3	6	Included		
MVECXXXPD-EXX-CZXXX	Torodial	3	Yes / Yes - 3	6	Included		
MVEC5XXPF-XXX-XXX	Torodial	4	None	6	No		
MVEC5XXPF-XXX-CZXXX	Torodial	4	None	6	No		
MVEC5XXPA-XXX-XXX	Torodial	4	Yes / No	6	No		
MVEC5XXPA-XXX-CZXXX	Torodial	4	Yes / No	6	No		
MVEC5XXPA-EXX-XXX	Torodial	4	Yes / No	6	Included		
MVEC5XXPD-EXX-XXX	Torodial	4	Yes / Yes - 3	6	Included		
MVEC5XXPD-EXX-CZXXX	Torodial	4	Yes / Yes - 3	6	Included		
MVEC5XXPA-ETX-XXX	Little Dipper PTSA	3	Yes / No	6	Included		
MVEC5XXPA-EPX-XXX	Pyxis PTSA	3	Yes / No	6	Included		
Conductivity and ph	1						
MVECPXXPF-XXX-XXX	Torodial	6	None	10	Order: ACT-PULSALINK		
MVECPXXPF-XXX-CZXXX	Torodial	6	None	10	Order: ACT-PULSALINK		
MVECPXXPA-XXX-XXX	Torodial	6	Yes / No	10	Order: ACT-PULSALINK		
MVECPXXPA-XXX-CZXXX	Torodial	6	Yes / No	10	Order: ACT-PULSALINK		
MVECPXXPA-EXX-XXX	Torodial	6	Yes / No	10	Included		
MVECPXXPA-EXX-CZXXX	Torodial	6	Yes / No	10	Included		
MVECPXXPA-ETX-XXX	Little Dipper PTSA	5	Yes / No	10	Included		
MVECPXXPA-EPX-XXX	Pyxis PTSA	5	Yes / No	10	Included		
MVECPXXPD-XXX-XXX	Torodial	6	Yes / Yes - 3	10	Order: ACT-PULSALINK		
MVECPXXPD-XXX-CZXXX	Torodial	6	Yes / Yes - 3	10	Order: ACT-PULSALINK		
MVECPXXPD-EXX-XXX	Torodial	6	Yes / Yes - 3	10	Included		
MVECPXXPD-EXX-CZXXX	Torodial	6	Yes / Yes - 3	10	Included		

MVECOXXPF-XXX-XXX	Torodial	6	None	10	Order: ACT-PULSALINK
MVECOXXPF-XXX-CZXXX	Torodial	6	None	10	Order: ACT-PULSALINK
MVECOXXPA-XXX-XXX	Torodial	6	Yes / No	10	Order: ACT-PULSALINK
MVECOXXPA-XXX-CZXXX	Torodial	6	Yes / No	10	Order: ACT-PULSALINK
MVECOXXPA-EXX-XXX	Torodial	6	Yes / No	10	Included
MVECOXXPA-EXX-CZXXX	Torodial	6	Yes / No	10	Included
MVECOXXPA-ETX-XXX	Little Dipper PTSA	5	Yes / No	10	Included
MVECOXXPA-EPX-XXX	Pyxis PTSA	5	Yes / No	10	Included
MVECOXXPD-XXX-XXX	Torodial	6	Yes / Yes - 3	10	Order: ACT-PULSALINK
MVECOXXPD-XXX-CZXXX	Torodial	6	Yes / Yes - 3	10	Order: ACT-PULSALINK
MVECOXXPD-EXX-XXX	Torodial	6	Yes / Yes - 3	10	Included
MVECOXXPD-EXX-CZXXX	Torodial	6	Yes / Yes - 3	10	Included
Conductivity pH and	I ORP				
MVECPOXPF-XXX-XXX	Torodial	5	None	10	Order: ACT-PULSALINK
MVECPOXPF-XXX-CZXXX	Torodial	5	None	10	Order: ACT-PULSALINK
MVECPOXPF-EXX-XXX	Torodial	5	None	10	Included
MVECPOXPA-XXX-XXX	Torodial	5	Yes / No	10	Order: ACT-PULSALINK
MVECPOXPA-XXX-CZXXX	Torodial	5	Yes / No	10	Order: ACT-PULSALINK
MVECPOXPA-EXX-XXX	Torodial	5	Yes / No	10	Included
MVECPOXPA-EXX-CZXXX	Torodial	5	Yes / No	10	Included
MVECPOXPA-ETX-XXX	Little Dipper PTSA	4	Yes / No	10	Included
MVECPOXPA-EPX-XXX	Pyxis PTSA	4	Yes / No	10	Included
MVECPOXPD-XXX-XXX	Torodial	5	Yes / Yes - 3	10	Order: ACT-PULSALINK
MVECPOXPD-XXX-CZXXX	Torodial	5	Yes / Yes - 3	10	Order: ACT-PULSALINK
MVECPOXPD-EXX-XXX	Torodial	5	Yes / Yes - 3	10	Included
MVECPOXPD-EXX-CZXXX	Torodial	5	Yes / Yes - 3	10	Included

- 1. Does not include Flow Switch
- 2. Download PulsaLink on the App Store or Google Play

Programmable Timer Modes:

- Limit timer
- Percent timer
- \bullet % post bleed with limit timer
- Water meter pulse timer
- Biocide control timer, with pre-bleed, lockout, & conductivity minimum
- 4-20mA input, pH, or ORP set point control
- · Alarm output

Digital Input Assignments

- •#1 Flow Switch •#2, 3 & 4 Drum Levels

- #5 Water Meter Hall Effect or Dry Contact

 #6 & 7 Water Meter Dry Contact

 #8, 9 & 10 Water Meter—Hall Effect or Dry Contact

MicroVision EX Parts	
Part Number	Description
12-600-00	Acc kit, Fuse, relay name lables, IOM
16-170-07	Probe Tee
16-170-08	Flow Assembly, Cond, Flow
04-080-01	Little dipper sensor kit, Sensor and tee
04-000-21-1	Toroidal probe
04-060-00	pH probe
04-060-01	ORP probe
04-080-02	Pyxis sensor kit, Sensor and tee

MicroVision EX Accessories and Expansions		
Part Number	Description	
CK750	Check Valve Kit	
PC025	Cable, Cond, Flow - Extension Kit; 25 ft	
PC050	Cable, Cond, Flow - Extension Kit; 50 ft	
PC075	Cable, Cond, Flow - Extension Kit; 75 ft	
PC100	Cable, Cond, Flow - Extension Kit; 100 ft	
UGK-MILIN	4-20mA input Upgrade kit (1)	
UGK-MILOUT	4-20mA output Upgrade kit (1)	
ACT-PULSALINK	PULSAlink cloud communications connection kit (required for remote communications)	



Microvision Ex Controller Mounted Panels

Pulsafeeder offers Microvision Ex Controller Mounted Pre-fab Panels. Worry less about equipment installation. Do more with a professional appearance and factory fabricated standard equipment setup.

Features

- Professional Appearance
- Pre-installed Equipment
- Fabricated to Provide Standard Equipment Setup





Model Number	Control Parameters	Probe	Programmable Timers	Relays	PULSAlink and Smart Phone App Compatible ²
MicroVision EX Cont	roller Mounted Pan	els			
MVECXXXPD-EPX-XXX	Conductivity	Toroidal, PYXIS (PTSA)	2	4	Included
MVECXXXPD-ETX-XXX	Conductivity	Toroidal, Turner (PTSA)	2	4	Included
MVEC5XXPD-EPX-XXX	Conductivity	Toroidal, PYXIS (PTSA)	3	5	Included
MVEC5XXPD-ETX-XXX	Conductivity	Toroidal, Turner (PTSA)	3	5	Included
MVECOXXPD-EPX-XXX	Conductivity & ORP	Toroidal, PYXIS (PTSA)	5	8	Included
MVECOXXPD-ETX-XXX	Conductivity & ORP	Toroidal, Turner (PTSA)	5	8	Included
MVECPXXPD-EPX-XXX	Conductivity & pH	Toroidal, PYXIS (PTSA)	5	8	Included
MVECPXXPD-ETX-XXX	Conductivity & pH	Toroidal, Turner (PTSA)	5	8	Included
MVECPOXPD-EPX-XXX	Conductivity, pH, & ORP	Toroidal, PYXIS (PTSA)	4	8	Included
MVECXXXPD-EXX-CZ7591	Conductivity	Torodial	3	4	Included
MVECXXXPD-XXX-D753 ¹	Conductivity	Torodial	3	4	No
MVECXXXPD-EXX-D753 1	Conductivity	Torodial	3	4	Included

Note: See Pulsatron.Com For Drawing and Accessory List Pulsatron Pumps Ordered Seperately Includes 3 Pump Mounts

1. Includes Capacitor Return Motorized Ball Valve

MicroVision

The MicroVision controller series features is innovative Toroidal sensor technology. Toroidal sensors are not susceptible to fouling and eliminate the need for routine cleaning and calibration.

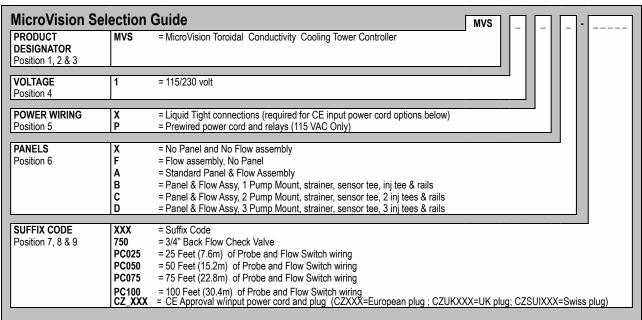
The MicroVision is designed specifically for cooling tower applications. The MicroVision is a microprocessor-based conductivity controller with selectable timer and dual biocide control.

The MicroVision controller comes standard with selectable timer, Dry contact/ Hall Effect water meter input, dual biocide with pre-bleed, lockout, inhibitor interface, and four programmable start times per biocide, 4-20mA output, dry contact alarm output and 3 drum level inputs.

The base unit comes with the controller, toroidal sensor with signal cable, and a power cord. Pre-wired pigtails on the relays, and a pre-wired flow switch are available to make installation quick and easy. A 15' signal cable is standard, up to 100' optional, on models without a flow switch, and a 3' cable is standard on models with a flow switch.







MicroVision Parts		
Part No.	Description	
16-170-07	Probe Tee	
16-170-08	Standard Flow Assembly	

MicroVision Ad	MicroVision Accessories and Expansions			
Part Number	Description			
CK750	Check Valve Kit			
PC025	Cable, Cond, Flow - Extension Kit; 25 ft			
PC050	Cable, Cond, Flow - Extension Kit; 50 ft			
PC075	Cable, Cond, Flow - Extension Kit; 75 ft			
PC100	Cable, Cond, Flow - Extension Kit; 100 ft			

MicroTrac

The MICROtrac controller series features is innovative Toroidal sensor technology. Toroidal sensors are not susceptible to fouling and eliminate the need for routine cleaning and calibration.

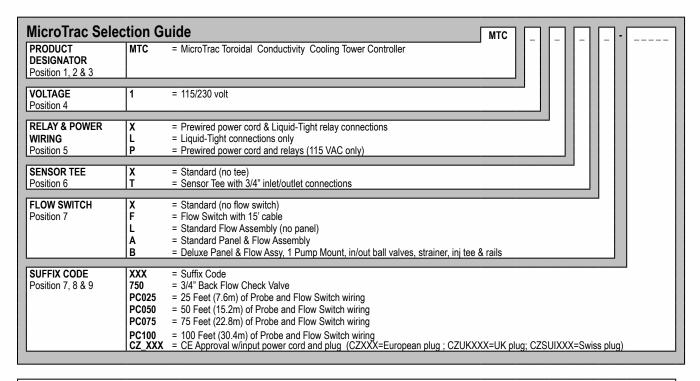
The MICROtrac measures the conductivity of the cooling tower recirculating water via a toroidal conductivity sensor. The controller activates two independent relay outputs based on bleed and a selectable feed mode of operation.

The MICROtrac controller comes standard with selectable rising or falling setpoint for open or closed loop control, water meter pulse input, percent timer, % post bleed timer and limit timer.

The base unit comes with the controller, toroidal sensor with signal cable, and a power cord. Optional features such as a sensor mounting tee, pre-wired pigtails on the relays, and a pre-wired flow switch are available to make installation quick and easy. A 15' signal cable is standard, up to 100' optional, on models without a flows witch, and a 3' cable is standard on models with a flow switch.







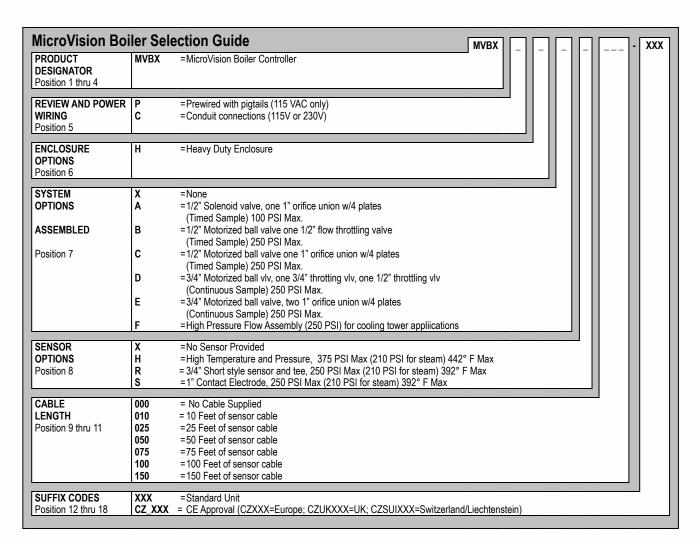
MicroTrac Parts	
Part No.	Description
04-000-21-1	Toroidal sensor
16-100-01	Flow switch
16-170-07	Sensor Tee

Boiler MicroVision

The MicroVision Boiler Controller delivers comprehensive boiler water control with 'plug & play' simplicity, at outstanding value. This latest addition to the MicroVision family of controllers is configured specifically for boiler water control, and utilizes intuitive software which provides simple set-up, while providing state of the art maintenance of the water in your boiler. Features of this device include a reliable temperature compensated conductivity probe, 5 output relays with selectable timers, scalable 4-20mA output to report conductivity, hall-effect and pulse water meter inputs and digital drum levels or a flow switch







MicroVision Boiler Parts	
Part No.	Description
CCBS-MVB	MicroVision Boiler Sensor - No Cross

Condensate *MicroVision*

The MicroVision Condensate Controller delivers condensate return monitoring with a reliable and accurate temperature compensated conductivity probe. Worry less about installation with 'plug and play' simplicity with user friendly easy to use programming to save time and money on equipment installation. This latest addition to the MicroVision family of controllers is configured specifically for precise measurement of conductivity in the condensate return and allows for more efficient use of time in inhibiting corrosion.





• CE approved, non-prewired models, or 230 VAC, change the end of the code from "-XXX" to "-CZXXX".

Model Number	Power Wiring	System Options	Sensor	Cable Length
MVBXCHXC025-XXX	Conduit connections	None	Condensate Electrode	25 Feet Max. (Use of the supplied cable is equired)
MVBXCHXC025-CZXXX	Conduit connections; 230V	None	Condensate Electrode	25 Feet Max. (Use of the supplied cable is equired)
MVBXPHXC025-XXX	Prewired with pigtails	None	Condensate Electrode	25 Feet Max. (Use of the supplied cable is equired)

MicroVision Condensate Parts		
Part Number	Description	
CCBS-C-25	MicroVision Condensate Probe Assembly with 25 ft Cable	
13-511-07-1	25 feet cable must be used with MicroVision Condensate Controller	
03-135-02	Tee, Iron Black, 0.75" NPT	

Micro Vision

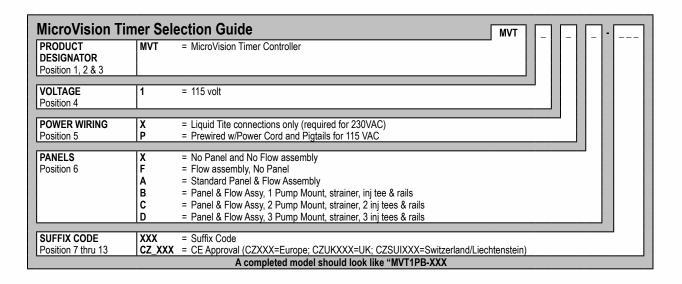
The MicroVision -Timer is a microprocessor-based selectable timer controlller. Designed specifically for timer based control applications, MicroVision Timer comes with the features and functions you need for accurate timer based control.

The MicroVision Timer comes standard with the five programmable digital inputs that can be programmed as Drum Level inputs, water meter inputs or a Hall effect input and five programmable timers for 28 day, pulse, percent, cycle and system alarm.

The base unit comes with the controller and a power cord. Optional features such as a pre-wired flow switch are available to make installation quick and easy. A 15' signal cable is standard, up to 100' optional, on models without a flow switch, and a 3' cable is standard on models with a flow switch.







Flow Controller

The versatile Flow Controller may be used to establish flow/no- flow control of metering pumps in various applications. Each unit comes prewired with an eight-foot, three-wire power cord for easy installation. A test switch is also provided for manual circuit tests.



Flow Controllers			
Model No.	Description		
FC2000	Flow Controller - Standard flow controller has 3/4 PVC threaded connections with		
FC2000	3/4" PVC slip adaptors to use if needed. 1 GPM minimum flow required for activation		
FC2000C	Flow Controller - Standard flow controller w/ 1 PVC slip connectors;		
FCZUUC	1 GPM min. flow required for activation.		
	Available options for FC2000 & FC2000C:		
Receptacle functions (Standardboth on with flow)			
1	Both on with no flow		
2	One on with flow, other on no flow		
3 One on with flow, other service			
4	One on with no flow, other service		

Replaceme	ent Flow Assemblies
Part No.	Description
16-977-79	3/4 (FC2000)
16-977-71	1 (FC2000C)

Bowl Strainer - Cooling Tower Applications

The polypropylene bowl strainers ensure the controller's sensors are protected from debris in the sample stream piping. Rated 100

psi at 70°F.



Bowl Strainers		
Part Number Description		
12-069-62	3/4" Bowl Strainer (50 MESH)	
12-069-64	3/4" Bowl Strainer (80 MESH)	
12-069-66	3/4" Bowl Strainer (100 MESH)	

Conductivity Testers



Hand Held Conductivity Testers		
Model No.	Description	
HJ6BC	0-100, 0-1000, 0-10,000 μS/cm	
HJ7B 0-50, 0-500, 0-5,000 μS/cm		

Pressure Gauge

Liquid Filled Pressure Gauges in Brass or Stainless Steel 1/4" Bottom or Back Connection.

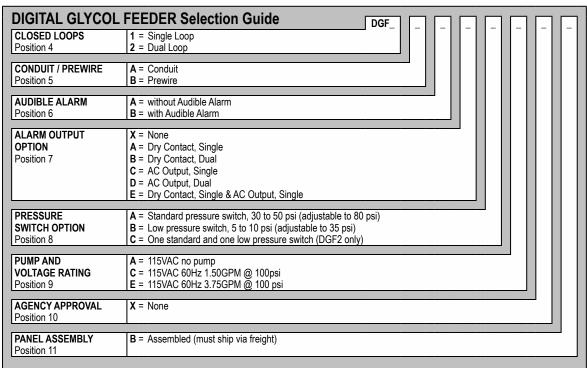


Pressure (ressure Gauge			
Bottom Conne	om Connection			
Part Number	rt Number Description			
12-130-04	Face 2", 100 PSI, Liquid Fill, 1/4" Brass Bottom Connection			
12-130-05	Face 2", 100 PSI, Liquid Fill, 1/4" SS Bottom Connection			
12-130-06	Face 2", 200 PSI, Liqudi Fill, 1/4" Brass Bottom Connection			
12-130-07	Face 2", 200 PSI, Liquid Fill, 1/4" SS Bottom Connection			
12-130-08	Blk Steel Face 2", 100 PSI, Liquid Fill, 1/4" Brass Bottom Connection			
12-130-09 Blk Steel Face 2", 200 PSI, Liquid Fill, 1/4" Brass Bottom Connection				
Back Connect	ion			
Part Number	Description			
12-130-10	Face 2", 100 PSI, Liquid Fill, 1/4" Brass Back Connection			
12-130-11	Face 2", 100 PSI, Liquid Fill, 1/4" SS Back Connection			
12-130-12	Face 2", 200 PSI, Liquid Fill, 1/4" Brass Back Connection			
12-130-13	Face 2", 200 PSI, Liquid Fill, 1/4" SS Back Connection			
12-130-14	Blk Steel Face 2", 100 PSI, Liquid Fill, 1/4" Brass Back Connection Blk Steel Face 2", 200 PSI, Liquid Fill, 1/4" Brass Back Connection			
12-130-15				

Digital Glycol Feeders

Pulsafeeder's Digital Glycol Feeder provides a consistent operating pressure in closed loop systems. This allows a controlled percentage of glycol solution to be fed from the 55 gallon tank. The Digital Glycol Feeder is available in two models; the DGF1 for single loop and the DGF2 for dual loop systems. The control unit utilizes an 8-bit microcontroller for precise feed system control. The NEMA4X enclosure can be wired conduit or prewire for easy startup. The preplumbed assembly includes a pressure gauge, pressure switch, and pressure relief valve to prevent excessive pressure build up. A low liquid level switch with optional audible alarm prevents the gear pump from operating when the solution is low.





Accessories

Digital Glycol Feeder for Closed Loop Systems

Replacement Pumps			
Part No.	Description		
18-600-35	115V 60Hz 1.50GPM @ 100PSI		
18-600-42	115V 60Hz 3.75GPM @ 100PSI		
Replaceme	ent Wand		
16-171-81-9	Wand, level, adjustable up to 34		
Cables			
16-171-81-3	Cable, extension, 10' with connectors		
Replaceme	ent Fuse		
05-052-18	Fuse, 16A, 250V, 5X20MM		
Pressure Switches			
12-140-00	Standard pressure switch 30 - 50psi (adjustable to 80 psi)		
12-140-01	Low pressure switch to 5 - 10psi (adjustable to 35 psi)		

Corrosion Coupon Racks

Our Corrosion Coupon Racks are hydrostatically tested for maximum system performance exceeding industry standards. These simple and reliable coupon test stations are typically installed on the side stream of re-circulating systems to allow for controlled testing of coupon samples. Samples are periodically removed and examined by a laboratory in order to calculate corrosion rates and other effects such as pitting and deposition.





Model Number	Stations	Mount	Piping	Description	
CCR2	2 Station	.50" HDPE	3/4" PVC	Standard	
CCR20DF5	2 Station	Unistrut	3/4" black iron	Flow control valve 5 GPM	
CCR20DX7X8CF3	2 Station	Unistrut	3/4" black iron	PVC outlet ball valve, 3/4" brass gate valve 250 psi; Y Strainer; Flow control valve 3 GPM	
CCR20DX7X8CF5	2 Station	Unistrut	3/4" black iron	PVC outlet ball valve, 3/4" brass gate valve 250 psi; Y Strainer; Flow control valve 5 GPM	
CCR20DXSX7	2 Station	Unistrut	3/4" black iron w/ SS Holder rod	PVC outlet ball valve, 3/4" brass gate valve 250 psi	
CCR20X1X4X7	2 Station	.25 " HDPE	3/4" PVC	Quick release coupon holders; 3/4" hot/cold water flow meter, Max. 100 psi (7 bar) @ 130°F (54°C); PVC outlet ball valve; 3/4" brass gate valve 250 psi	
CCR20X1X7F5	2 Station	.25 " HDPE	3/4" PVC	Quick release coupon holders; PVC outlet ball valve; 3/4" brass gate valve 250 psi; Flow contro valve 5 GPM	
CCR20X1X4X7X8DX9Z4	2 Station	Unistrut	3/4" black iron	Quick release coupon holders; 3/4" hot/cold water flow meter, Max. 100 psi (7 bar) @ 130°F (54°C); PVC outlet ball valve; 3/4" brass gate valve 250 psi; 3/4" Polypropylene bowl strainer 30 mesh, 150 psi max at 70 F; Clear PVC pipe sections; Sample/Drain port	
CCR20X4	2 Station	Unistrut	3/4" black iron	3/4" hot/cold water flow meter, Max. 100 psi (7 bar) @ 130°F (54°C).	
CCR2D	2 Station	Unistrut	3/4" black iron	Standard	
CCR3	3 Station	.50" HDPE	3/4" PVC	Standard	
CCR4	4 Station	.50" HDPE	3/4" PVC	Standard	
CCR40DX7X8CF5	4 Station	Unistrut	3/4" black iron	PVC outlet ball valve, 3/4" brass gate valve 250 psi; Y Strainer; Flow control valve 5 GPM	
CCR40DXSX7	4 Station	Unistrut	3/4" black iron w/ SS Holder rod	PVC outlet ball valve, 3/4" brass gate valve 250 psi	
CCR40X1X4X7	4 Station	.25 " HDPE	3/4" PVC	Quick release coupon holders; 3/4" hot/cold water flow meter, Max. 100 psi (7 bar) @ 130°F (54°C); PVC outlet ball valve; 3/4" brass gate valve 250 psi	
CCR40X1X7F5	4 Station	.25 " HDPE	3/4" PVC	Quick release coupon holders; PVC outlet ball valve; 3/4" brass gate valve 250 psi; Flow contro valve 5 GPM	
CCR4AX1X6X7	4 Station	.50" HDPE	1" PVC	Quick release coupon holders; 1" cold water flow meter, Max. 100 psi (7 bar) @ 110°F (43°C); PVC outlet ball valve; 3/4" brass gate valve 300 psi	
CCR4D	4 Station	.50" HDPE	3/4" black iron	Standard	
CCR4DX4	4 Station	.50" HDPE	3/4" black iron	3/4" hot/cold water flow meter, Max. 100 psi (7 bar) @ 130°F (54°C)	
CCR4EX71F5	4 Station	.50" HDPE	1" PVC clear	1" PVC outlet ball valve; 3/4" brass gate valve 300 psi; Flow control valve 5 GPM	
CCR4F5	4 Station	.50" HDPE	3/4" PVC	Flow control valve 5 GPM	
CCR4X1X7X8AF5	4 Station	.50" HDPE 3/4" PVC Quick release coupon holders; PVC outlet ball valve; 3/4" brass ga		Quick release coupon holders; PVC outlet ball valve; 3/4" brass gate valve 300 psi; Y Strainer; Flow control valve 5 GPM	

Corrosion Rack Accessories



Coupon Rack Replacement Parts			
Part Number	Description		
16-756-51-1	Quick Release coupon holder with hardware		
16-756-50	PVC and CPVC holder with hardware		
16-756-42	Steel on black iron holder with hardware		
33-022-16	3/4" hot/cold water flow meter		

Coupons for Corrosion Coupon Racks & Deposit Monitors			
Part Number	Description		
03-220-10	Mild Steel		
03-220-00	Copper		
03-220-60	303 Stainless Steel		
03-220-70	304 Stainless Steel		
03-220-20	316 Stainless Steel		
03-220-50	Nickel		
03-221-30	Brass		
03-221-40	Bronze		
03-221-50	Aluminum		

Water Meters - Contacting Head Water Meters

Multi-Jet Meters:

3/4 in. to 2 in., are designed for use in conjunction with a pulse timer to proportionally control pumps, valves etc. Typical applications include water treatment in cooling tower and boiler systems, water chlorination, car washes and other industrial processes which require proportional control. The Multi-Jet chamber of the water meter assures accuracy over a wide range of flows with low head loss. To prevent wear and maintain accuracy the load is equally distributed on the impeller.

Turbine Meters:

3 inch to 6 inch operate continuously with exceptional accuracy. Each meter incorporates a highly efficient horizontal turbine that essentially floats on the water. The turbine is attached to a Tungsten steel shaft riding in Jewel bearings. The rotation of the turbine is transmitted through a magnetic drive to a sealed odometer register.





Lead Free Brass Contacting Water Meters -
Cold Water

	^-		
Part Number	Rating	Size	Gallons Per Contact (GPC)
MTR100-G	.25 - 20 GPM	.75" NPT	Totalizer
MTR101-G	.25 - 20 GPM	.75" NPT	0.1 GPC
MTR102-G	.25 - 20 GPM	.75" NPT	0.25 GPC
MTR103-G	.25 - 20 GPM	.75" NPT	0.5 GPC
MTR104-G	.25 - 20 GPM	.75" NPT	1 GPC
MTR107-G	.25 - 20 GPM	.75" NPT	10 GPC
MTR300-G	.75 - 50 GPM	1" NPT	Totalizer
MTR301-G	.75 - 50 GPM	1" NPT	0.1 GPC
MTR302-G	.75 - 50 GPM	1" NPT	0.25 GPC
MTR304-G	.75 - 50 GPM	1" NPT	1 GPC
MTR307-G	.75 - 50 GPM	1" NPT	10 GPC
MTR310-G	.75 - 50 GPM	1" NPT	100 GPC
MTR400-G	1.5 - 100 GPM	1.5" NPT	Totalizer
MTR402-G	1.5 - 100 GPM	1.5" NPT	0.25 GPC
MTR404-G	1.5 - 100 GPM	1.5" NPT	1 GPC
MTR407-G	1.5 - 100 GPM	1.5" NPT	10 GPC
MTR410-G	1.5 - 100 GPM	1.5" NPT	100 GPC
MTR504-G	2 - 160 GPM	2" NPT	1 GPC
MTR507-G	2 - 160 GPM	2" NPT	10 GPC
MTR510-G	2 - 160 GPM	2" NPT	100 GPC

3/4" - 2" Meters have male Epoxy Coated NPT Bronze Bodies with unions,

Rated for 150 PSI max, 105 F max. NSF/ANSI 61 for these models only

Plastic Contacting Water Meters - Cold Water

Part Number	Rating	Size	Gallons Per Contact (GPC)
MTR100-P	.25- 20 GPM	.75" NPT	Totalizer
MTR101-P	.25- 20 GPM	.75" NPT	0.1 GPC
MTR102-P	.25- 20 GPM	.75" NPT	0.25 GPC
MTR104-P	.25- 20 GPM	.75" NPT	1 GPC
MTR104-P-L	.25- 20 GPM	.75" NPT	1 LPC
MTR107-P	.25- 20 GPM	.75" NPT	10 GPC
MTR300-P	.75- 50 GPM	1" NPT	Totalizer
MTR301-P	.75- 50 GPM	1" NPT	0.1 GPC
MTR302-P	.75- 50 GPM	1" NPT	0.25 GPC
MTR304-P	.75- 50 GPM	1" NPT	1 GPC
MTR304-P-L	.75- 50 GPM	1" NPT	1 LPC
MTR307-P	.75- 50 GPM	1" NPT	10 GPC
MTR400-P	1.5 - 100 GPM	1.5" NPT	Totalizer
MTR402-P	1.5 - 100 GPM	1.5" NPT	0.25 GPC
MTR404-P	1.5 - 100 GPM	1.5" NPT	1 GPC
MTR407-P	1.5 - 100 GPM	1.5" NPT	10 GPC

Rated for 100 PSI max, 120 F max. NSF/ANSI 61 for these models only

Brass Contacting Water Meters - Cold Water

Brace contacting trater meters cold trater				
Part Number	Rating	Size	Gallons Per Contact (GPC)	
MTR200	.5 - 20 GPM	.75" NPT	Totalizer	
MTR201	.5 - 20 GPM	.75" NPT	0.1 GPC	
MTR202	.5 - 20 GPM	.75" NPT	0.25 GPC	
MTR203	.5 - 20 GPM	.75" NPT	0.50 GPC	
MTR204	.5 - 20 GPM	.75" NPT	1 GPC	
MTR207	.5 - 20 GPM	.75" NPT	10 GPC	
MTR210	.5 - 20 GPM	.75" NPT	100 GPC	
MTR300	.75 - 50 GPM	1" NPT	Totalizer	
MTR302	.75 - 50 GPM	1" NPT	0.25 GPC	
MTR304	.75 - 50 GPM	1" NPT	1 GPC	
MTR307	.75 - 50 GPM	1" NPT	10 GPC	
MTR310	.75 - 50 GPM	1" NPT	100 GPC	
MTR400	1.5 - 100 GPM	1.5" NPT	Totalizer	
MTR404	1.5 - 100 GPM	1.5" NPT	1 GPC	
MTR407	1.5 - 100 GPM	1.5" NPT	10 GPC	
MTR410	1.5 - 100 GPM	1.5" NPT	100 GPC	
MTR504	2 - 160 GPM	2" NPT	1 GPC	
MTR507	2 - 160 GPM	2" NPT	10 GPC	
MTR510	2 - 160 GPM	2" NPT	100 GPC	

3/4" - 2" Meters have male Epoxy Coated NPT Bronze Bodies with unions, rated for 150 PSI max, 105 F max.

Turbine Contacting Water Meters - Cold Water			
Part Number	Rating	Size	Gallons Per Contact (GPC)
MTR610	440 GPM	3" Flanged	100 GPC
MTR613	440 GPM	3" Flanged	1,000 GPC
MTR710	660 GPM	4" Flanged	100 GPC
MTR810	1650 GPM	6" Flanged	100 GPC
MTR813	1650 GPM	6" Flanged	1,000 GPC

3", 4" & 6" Meters have Epoxy Coated Ductile Iron Flanged Bodies, rated for 200 PSI max, 105 F max.

Solenoid Valves - Cooling Tower Applications



Standard Solenoid Valve

Standard Solenoid Valves - 2 Way Normally Closed				
Part Number	Material	MOPD- Max. Operating Press.	Voltage	Mfr
		Differntial		
12-072-62	1/4" S.S. Body with TFE Seat	150 psi MOPD at 160°F	120/60, 110/50V	ASCO
12-072-53	1/2" NPT Brass Body	0 psi min - 150 psi; 180°F	120/60, 110/50V	ASCO
12-072-54	3/4" NPT Brass Body	0 psi min - 150 psi; 180°F	120/60, 110/50V	ASCO
12-072-55	1" NPT Brass Body	0 psi min - 150 psi; 180°F	120/60V	ASCO
12-072-56	1" NPT Brass Body	5 psi min - 150 psi at 180°F	120/60, 110/50V	ASCO
12-072-57	1 1/2" NPT Brass Body	0 psi min - 150 psi; 180°F	120/60V	ASCO
12-072-58	1 1/2" NPT Brass Body	5 psi min - 150 psi at 180°F	120/60V	ASCO
12-072-59	2" NPT Brass Body	5 psi min - 150 psi; 180°F	120/60V	ASCO
High Temp Solenoid Valves - 2 Way Normally Closed				
12-072-60	1/2" NPT Brass Body	1 psi min - 125 psi	120/60V	ASCO
12-072-61	3/4" NPT Brass Body	2 psi min - 125 psi at 353°F	120/60, 110/50V	ASCO
12-048-00	1/2" Brass Body, PTFE	0 psi differential, 100 psi @ 356°F	115 VAC	
12-056-00	3/4" Brass Body PTFF	0 nsi differential 100 nsi @ 356°F	115 VAC	



High Temp Solenoid Valve

Motorized Ball Valves



EC Series Solenoid Valve

EC Series - Motorized Valves			
Part Number	Description		
	Motorized Valves for Cooling Tower Applications		
	Low differential pressure applications. Brass bodies. Spring return.		
12-045-00	1/2" NPT (25 psi maximum)		
12-054-10	3/4" NPT (25 psi maximum)		
12-057-00	1" NPT (15 psi maximum)		

Motorized Capacitor Return Ball Valves

A capacitor return motorized ball valve offers a reliable alternative to a solenoid valve with a full bore design for bleed-off of cooling tower water. The motorized ball valve offers a manual override feature and low working current as well as a long service life (70,000 – 100,000 cycles).



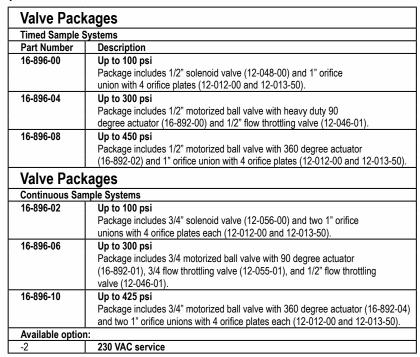
Motorized Capacitor Return Ball Valves		
Part Number	Description	
12-050-00	Capacitor Return MBV, 1/2", 304SS	
12-050-00-J	Capacitor Return MBV W/ Power Cord, 1/2"	
12-050-01	Capacitor Return MBV, 3/4", 304SS	
12-050-01-J	Capacitor Return MBV W/ Power Cord, 3/4"	
12-050-02	Capacitor Return MBV, 1", 304SS	
12-050-02-J	Capacitor Return MBV W/ Power Cord, 1"	

Motorized Ball Valves & Valve Packages - Boiler Applications

Materials of construction: Solenoid Valves are bronze body with stainless steel pilot and valves; Motorized Ball Valves are carbon steel body with 316 stainless steel ball and stem; Throttling Valves are carbon steel body and valve; and Orifice Unions are carbon steel union with stainless steel plates.



Throttling Valve



Note: Materials of construction: Solenoid Valves are bronze body with stainless steel pilot and valves; Motorized Ball Valves are carbon steel body with 316 stainless steel ball and stem; Throttling Valves are carbon steel body and valve; and Orfice Unions are carbon steel union with stainless steel plates.

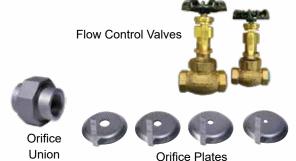


Motorized Ball Valve

Motorized Ball Valves		
Part Number	Description	
16-892-00	1/2" motorized ball valve (10-75 Worcester Actuator)	
16-892-01	3/4" motorized ball valve (10-75 Worcester Actuator)	
16-892-02	1/2" motorized ball valve (10-36 Worcester Actuator)	
16-892-04	3/4" motorized ball valve (10-36 Worcester Actuator)	
Available option	1:	
-2	230 VAC service	
Part Number	Description	
12-040-00	Worcester 10-75 actuator only	
12-040-10	Worcester 10-36 actuator only	
Motorized Ball Valve Parts		
Part Number	Description	
12-043-00	Worcester 1/2" steam rated ball valve only	
12-051-00	Worcester 3/4" steam rated ball valve only	
12-049-00	Mounting kit for 12-051-00 & 12-040-00	

Flow Control Valves - Boiler Applications

Flow control valves maintain sufficient back pressure in boiler blowdown lines in order to prevent flashing and to ensure adequate blowdown rates. The orifice union includes four plates, 1/16", 1/8", 1/4" and a 5/16". Flow control valves include an indexed position indictor



Flow Control Valves		
Part Number	Description	
12-075-01	3/8" valve (300 psi maximum)	
12-046-01	1/2" valve (300 psi maximum)	
12-055-01	3/4" valve (300 psi maximum)	

Orifice Unions & Orifice Plates	
Part Number	Description
12-012-00-1	1" orifice union with set of (4) orifice plates
12-013-50	Set of four orifice plates

Sample Cooler

Pulsafeeder's Sample Cooler part number 12-066-00 is a safe method of withdrawing water from boilers, steam lines or tanks containing chemicals and for cooling the withdrawn liquid for subsequent chemical analysis.



Sample Coolers	
Part Number	Description
12-066-00	Sample Cooler

Bleed-Off Piping Assembly - Cooling Tower Applications

The pre-plumbed bleed-off assemblies make installation of a cooling tower bleed valve easy. The assemblies include a solenoid valve, Y strainer and a brass shutoff valve.



Bleed-off Piping Assembly		
Part Number	Description	
Includes SVC solenoid valve, steel Y-strainer, and brass shutoff valve.		
16-900-18	3/4"	
16-900-12	1"	

Sample Steam Parts

Sample Stream Parts		
Part Number	Description	
12-069-00	3/4" Clear PVC Y-strainer	
12-070-00	Replacement mesh for 12-069-00	
12-072-00	3/4" PVC ball valve	
16-810-00	2 stage injection manifold	
16-810-03	3 stage injection manifold	
16-810-08	5 stage injection manifold	
04-300-08	Sample valve assembly	