

# The HYDROLEVEL Story

#### **Disaster Invokes Change**

On October 3, 1962, a boiler explosion that claimed the lives of 21 people occurred at

a New York Telephone The New York Time building in Manhattan. 21 KILLED, 95 HURT IN BLAST SCHIKTN BAS SCHIRRA ORBITS IN UPTOWN PHONE CENTER; DIS ADMINISTRAL LANDING NEAR DATE OF THE PROPERTY OF THE PROPER This disaster. BOILER WRECKS CAFETERIA AFTER ALMOS caused by an undetected low water condition. forever changed the way all steam boilers would be manufactured and installed. Not long after this tragic event, New York Telephone began investigating better ways of protecting their employees and property from such

hazards as low water conditions.

#### A Man with Ingenuity



At that time, Michael DeLeonardis of Farmingdale, New York, was experimenting with a new electronic water level device for steam boilers. He had developed his idea in Italy. where he trained as a steam

engineer in the years before World War II. After immigrating to America, Michael further refined his ideas working on shipboard steam boilers with the Brooklyn Navy Yard.

#### **The Probe Principle**

Michael's idea was simple but effective. Using water as an electrical conductor, he

designed a control utilizing a "probe" sensor. The electronic control monitored the level of the boiler water without the use of

moving parts that can wear



and stick. A revolutionary time delay mechanism was incorporated which allowed the probe to be used in the violent water of a steam boiler without short cycling the burner.

#### **Hydrolevel is Born**

Michael took his idea to New York Telephone. They quickly recognized the advantages of his design. In 1965 his electronic control was specified for all New York Telephone buildings – and Hydrolevel Company was born.

As with many inventors, Michael overcame early opposition to his new device and soon other government agencies, utilities and manufacturers began specifying probe type cut-offs for both commercial and residential boilers. It was Michael, along with partner Russ Rymer and son Dominick's staunch defense of the time delay feature, that paved the way for electronic cut-offs used today.

#### **Hydrolevel Today**

Forty years later, Michael's inventive spirit lives on. Today, Hydrolevel, located in New Haven, Connecticut, offers a full line of innovative products for boiler protection and liquid level control. The new generation Hydrolevel

controls include CycleGard foam compensating cut-offs, VXT programmable water feeders and the new Safgard 1100 Series "Mini" cut-offs. Hydrolevel continues to employ the latest technology to combine superior features with performance and durability.



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#### Low Water Cut-Offs - Residential/Commercial

# Safgard 1100 Series

- Compact Design
- Automatic Reset
- Burner Circuit Test Button
- Power and Low Water LED Indicators

Specifications	Model 1100	Model 1150
Power Consumption	1 VA	4 VA
Switching Capacity	125 VA	125 VA
Switch Contacts	SPST	SPST
Max. Pressure	50 PSI	160 PSI
Max. Water Temperature	250° F	250° F



MODEL	VOLTAGE	DESCRIPTION/OPERATION
1100 1150	24 VAC 120 VAC	Interrupts power immediately in a low water condition. Automatically restarts burner on return of water level. Features test button, onboard indicating lights and easy to follow installation instructions. Model 1100 includes plug-in wire harness with labeled quick-connect terminals.

# Safgard 24 and 170 Series

- Heavy Duty Design
- Automatic Reset

Specifications	Model 24	Model 170
Power Consumption	8 VA	7 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Pressure	160 PSI	160 PSI



MODEL	VOLTAGE	DESCRIPTION/OPERATION
24 170	24 VAC 120 VAC	Interrupts power immediately in a low water condition. Heavy duty construction. Automatically restarts burner on return of normal water level. Provides contacts for optional low-water alarm.

#### Low Water Cut-Offs - Commercial

# Safgard 500 Series

- Manual Reset
- Burner Circuit Test Button
- LED Indicating Lights
- Meets ASME CSD-1 Requirements for Commercial Water Boilers

Specifications	Model 500	Model 550
Power Consumption	2 VA	4 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Pressure	160 PSI	160 PSI



MODEL	VOLTAGE	DESCRIPTION/OPERATION
500 550	24 VAC 120 VAC	Interrupts power immediately in a low water condition. Burner circuit locks-out if water remains below probe for 30 seconds. Manual reset will not trip due to power failures. Test button checks burner circuit to ensure proper control operation and lock-out function without lowering the water level. <i>Note: Can also be used as a secondary cut-off on steam boilers (see page 7)</i>

# Safgard 600 Series

- Automatic Reset
- Burner Circuit Test Button
- LED Indicating Lights





Specifications	Model 600	Model 650
Power Consumption	2 VA	4 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Pressure	160 PSI	160 PSI

MODEL	VOLTAGE	DESCRIPTION/OPERATION
600 650	24 VAC 120 VAC	Interrupts power immediately in a low water condition. Automatically restarts burner on return of water level. Test button checks burner circuit to ensure proper control operation without lowering the water level.

# Safgard 700 Series

- Manual Reset
- LED Indicating Lights





Specifications	Model 700	Model 750
Power Consumption	2 VA	4 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Pressure	160 PSI	160 PSI

MODEL	VOLTAGE	DESCRIPTION/OPERATION
700 750	24 VAC 120 VAC	Interrupts power immediately in a low water condition. Burner circuit locks-out if water remains below probe for 30 seconds. Manual reset will not trip due to power failures. Note: Can also be used as a secondary cut-off on steam boilers (see page 7)

#### Low Water Cut-Offs - Residential/Commercial

# Safgard 400 Series

- 15 Second Burner Off Delay
- 30 Second Burner On Delay
- Automatic Reset
- Low Water Indicating Light
- Direct Boiler Mounting Eliminates Blowdowns

Specifications	Model 400	Model 450
Power Consumption	2 VA	4 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Steam Pressure	15 PSI	15 PSI







MODEL	VOLTAGE	DESCRIPTION/OPERATION
400 450	24 VAC 120 VAC	Burner circuit contacts open after 15 second delay in a low water condition. Delay prevents short cycling caused by momentary fluctuations in the boiler water level. Automatically reactivates burner circuit 30 seconds after water reaches the probe, allowing optional water feeder to raise water level above the probe.

# Safgard 711 and 724 Series

- Low Water Cut-Off for Sight-Glass Attachment
- Two Probe Design
- Automatic Reset
- Includes Quick Hook-Up Fittings for 8" to 14" Sight Glasses

Specifications	711 Series	724 Series
Power Consumption	8 VA	7 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Steam Pressure	35 PSI	35 PSI







MODEL	VOLTAGE	DESCRIPTION/OPERATION
724CF 711CF	24 VAC 120 VAC	Mounts to sight glass tappings. Maintains water level between two probes. Designed to operate with existing water feeder. Includes 711C manifold, two model EL1214 probes and quick hook-up fittings. Note: The 711 & 724 Series is recommended for use on older boilers that do not have tappings suitable for Safgard 400 and CycleGard 400 Series cut-offs.
724WF 711WF	24 VAC 120 VAC	Same as CF models (described above), includes water feed valve assembly.

#### Low Water Cut-Offs - Residential/Commercial

# CycleGard CG400 Series

- Intermittent Level Test Maximum Protection for Foaming Boilers
- 15 Second Burner Off Delay
- 30 Second Burner On Delay
- Automatic Reset
- Low Water Indicating Light
- Direct Boiler Mounting Eliminates Blowdowns

Specifications	Model CG400	Models CG450 and CGT450
Power Consumption	2.1 VA	4.2 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Steam Pressure	15 PSI	15 PSI

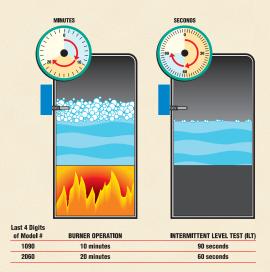






MODEL	VOLTAGE	DESCRIPTION/OPERATION
CG400-1090 CG400-2060 CG450-1090 CG450-2060	24 VAC 24 VAC 120 VAC 120 VAC	Burner circuit contacts open after 15 second delay in a low water condition.  Delay prevents short cycling caused by momentary fluctuations in the boiler water level. Automatically reactivates burner circuit 30 seconds after water reaches the probe, allowing optional water feeder to raise water level above the probe. Intermittent Level Test (ILT) feature provides maximum boiler protection by removing power from the burner circuit at set intervals.  Models ending in "1090" perform the ILT every 10 minutes for 90 seconds.  Models ending in "2060" perform the ILT every 20 minutes for 60 seconds.
CGT450-2060	120 VAC	Same as CG450-2060 (described above) with added feature for boilers equipped with tankless coils. The CGT450-2060 suspends operation of the Intermittent Level Test when the boiler is receiving a call for domestic hot water. This feature ensures continued burner operation during a demand for hot water.

U.S. Patent No. 5,739,504; 6,390,027



# Cycle Gard

# Maximum boiler protection – Even in SURGING and FOAMING boilers.

CycleGard continually monitors the boiler water level like other probe type cut-offs. But, unlike any other cut-off, CycleGard adds an extra level of protection against false signals created by foaming and volatile water conditions in the boiler. CycleGard's **Intermittent Level Test (ILT)** periodically removes power from the burner circuit. During this test, foam dissipates and the water level stabilizes – allowing CycleGard to monitor the *true* water level in the boiler. Since 1996, the superior protection of CycleGard has made it the standard low water cut-off for many of the industry's leading boiler manufacturers.

#### Pump Controller/LWCO - Commercial/Industrial

# Safgard 250 Series

- No Moving Parts in Boiler Water
- Controls Boiler Feed Pump
- Maintains Recommended Water Level in Boiler
- Available with Water Column Body or for **Boilers with Separate Water Columns**
- Accommodates Boilers to 250 PSI

250 Series
10 FLA, 60 LRA
20 FLA, 120 LRA
DPST
13 VA
250 PSI



MODEL	VOLTAGE	MANIFOLD	DESCRIPTION/OPERATION
250	120 VAC	250C	Operates boiler feed pump to maintain water level between middle and upper probes. Burner circuit contacts open if water drops below bottom probe. Automatically restarts burner on return of normal water level. Control box and (3) EL1214 probes included.
250WC	120 VAC	1214C-1	
250M	120 VAC	250C	Same as 250/250WC above with Manual Reset feature. Locks out burner circuit if water remains below bottom probe for 90 seconds. Manual reset will not trip due to power failures. Control box and (3) EL1214 probes included.
250MWC	120 VAC	1214C-1	

### High Water Limit - Residential/Commercial/Industrial

### Safgard Model 270SV

- Automatically Interrupts Pump or Feeder when Water **Contacts Probe**
- Provides Contacts for Optional Alarm
- Ideal for Boilers, Receiver Tanks and Process Applications

Specifications	Model 270SV
Power Consumption	7 VA
Switching Capacity	.25hp @ 120 VAC
Resistive Load	20 A
Switch Contacts	SPDT
Max. Steam Pressure	250 PSI









MODEL	VOLTAGE	DESCRIPTION/OPERATION
270SV	120 VAC	Interrupts power to pump or water feeder in high water condition. Provides contacts for optional alarm. Includes EL1214-SV probe suitable for mounting in standard black tee.

#### Secondary Low Water Cut-Offs - Commercial/Industrial

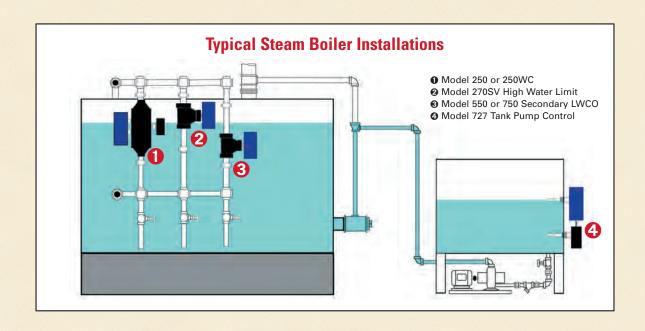
# Safgard 500 and 700 Series

- Manual Reset with 30 Second Delay and Power Outage Protection
- Burner Circuit Test Button (500 Series only)
- LED Indicating Lights
- Meets ASME CSD-1 Requirements for Secondary Cut-Offs on Commercial Steam Boilers

Specifications	Models 500 and 700	Models 550 and 750
Power Consumption	2 VA	4 VA
Switching Capacity	50 VA	5.8 FLA, 34.8 LRA
Switch Contacts	SPDT	SPDT
Max. Steam Pressure	250 PSI	250 PSI



MODEL	VOLTAGE	DESCRIPTION/OPERATION
500 550	24 VAC 120 VAC	Interrupts power in a low water condition. Burner circuit locks-out if water remains below probe for 30 seconds. Manual reset will not trip due to power failures. Test button checks burner circuit to ensure proper control operation and lock-out function without lowering the water level. <i>Note: Can also be used as a primary cut-off on hot water boilers (see page 3).</i>
700 750	24 VAC 120 VAC	Same as 500 Series above without test button feature.



#### Water Feeder - Residential



### Model VXT-24 and VXT-120



#### **Universal Compatibility**

Works with all major probe and float-type low water cut-offs.

#### **Digital Feed Counter**

Continually tracks and displays the amount of

make-up water fed into the boiler – essential for diagnosing system leaks that can



severely shorten the life of the boiler.





#### **Programmable Feed Delay Settings** (30 Sec. to 10 Min)

Helps prevent flooded boilers. Allows time for condensate to return to boiler before initiating feed cycle – ensuring that additional water is needed.

#### **Programmable Feed Amount Settings** (LWCO and 1-5 Gal)

With the LWCO setting selected, the VXT raises the water level to low water cut-off. The 1 to 5 Gallon settings can be selected to fine-tune the VXT to restore the normal operating water level *above* the low water cut-off.

#### **Manual Feed Button**

Allows for manual feeds with the touch of a button.

#### **Underfeed Protection**

If one feed cycle is not sufficient to restore boiler operation, the VXT will delay and feed one additional cycle.

#### **Lock-Out Flood Protection**

Locks-out after two consecutive feed cycles to prevent flooding.

Specifications	VXT-24	VXT-120
Power Consumption	10 VA	15 VA
Max. Fluid Temperature	150° F	150° F
Flow Rate	1 GPM	1 GPM
Fittings	1/2" Sweat	1/2" Sweat

MODEL	VOLTAGE	DESCRIPTION/OPERATION
VXT-24 VXT-120	24 VAC 120 VAC	Upon a feed signal from low water cut-off, the VXT feeder delays (from 30 seconds to 10 minutes) to allow condensate to return to boiler. If make-up water is required after the delay period, the VXT will initiate a feed cycle. The VXT can be set to feed to the level of the low water cut-off or can be set from 1 to 5 gallons to raise the water level above the cut-off to the normal operating level. The digital feed counter tracks all water fed into the boiler including water added using the Manual Feed Button.

U.S. Patent No. 6,688,329

#### Water Feeder - Commercial/Industrial







#### **Programmable Feed Delay Settings** (0 to 10 Min)

Prevents over-filling by allowing time for condensate to return to boiler before initiating feed cycle. A "NO DELAY" delay setting is available for process steam applications.

**Programmable Feed Amount Settings** (LWCO to LWCO+120 Sec) Includes one setting to raise the water level to the boiler control and five additional settings to raise the water level *above* the boiler control.

#### **LED Status Indicator**

Displays current mode of operation. Also provides timer for convenient set-up of programmable feed amount setting.

#### **Manual Feed Button**

Allows for manual feeds with the touch of a button.

#### **Lock-Out Flood Protection**

Locks out after sustained 10 minute feed cycle to prevent flooding.

#### **Water Meter**

Heavy duty meter tracks make-up water added to system.

#### **Fittings**

Includes fittings for easy attachment to 3/4" water line.

Specifications	VXTC
Max. Feed Water Temperature	100° F
Flow Rate (@ 40 PSI)	10 GPM
Electrical	120 VAC, 60 HZ
Fittings	3/4" NPT





MODEL	VOLTAGE	DESCRIPTION/OPERATION	
VXTC	120 VAC	Designed to operate with all major low water cut-offs and pump controllers. Upon a low water signal from the boiler control, the VXTC delays (from 0 to 10 minutes) to allow condensate to return to the system. If make-up water is required following the delay period, the VXTC initiates a feed cycle. The VXTC can be set to feed to the level of the boiler control or to varying levels above. The heavy-duty water meter tracks all water fed into the system. The VXTC includes water feeder, strainer, flow restrictor and water meter with 3/4" NPT fittings.	
VXTC-WF	120 VAC	Water Feeder as above without water meter. Includes water feeder, strainer and flow restrictor.	
WM-1	n/a	Water Meter as described above without water feeder. Includes water meter and 3/4" NPT fittings.	

#### Multi-Purpose Liquid Level Controls

# **Safgard** Model 727 and 787 Tank Pump Control

- Reliable Electronic Operation
- No Moving Parts to Wear or Stick
- Controls Pump to Maintain Desired Liquid Level
- Can be Mounted Directly in Tank or in External Equalizing Line
- Remote Probe Mounts Any Distance from Control to Accomodate Virtually Any Application

Specifications	Models 727 and 787		
Max. Pressure	250 PSI		
Power Consumption	7 VA		
Switch Contacts	SPST		
Switch Ratings	10 A @ 240 VAC 1/3 hp @ 120 VAC 1/2 hp @ 240-600 VAC		







MODEL	VOLTACE	DESCRIPTION/ORDERATION
MODEL	VOLTAGE	DESCRIPTION/OPERATION
LOW LEVEL CONTROL		
727	120 VAC	Maintains level between probes. Energizes pump to refill tank when liquid level falls below bottom probe. De-energizes pump when liquid level reaches upper probe. Includes (1) EL1214-SV and (1) EL1214-RSV probes.
HIGH LEVEL CONTROL		
787	120 VAC	Maintains level between probes. Energizes pump to remove liquid from tank when the level reaches the upper probe. De-energizes pump when liquid level falls below bottom probe. Includes (1) EL1214-SV and (1) EL1214-RSV probes.

#### Flow Switch

# **Safgard** Model 44-100 Liquid Flow Switch

- Easy Installation and Wiring
- Field Adjustable Sensitivity
- Sealed Thermoplastic Fluid Chamber Eliminates Corrosion & Leaking
- Rotating Paddle Eliminates Bent and Broken Paddles
- Magnetic Switch Actuation
- Cut-To-Length Stainless Steel Paddle
- Accommodates 1" to 6" Pipe Diameters

Specifications	Model 44-100
Max. Pressure	150 PSI
Max. Temperature	300° F
Switch Contacts	SPDT
Switch Ratings	7.4 FLA, 44.4 LRA @ 120 VAC motor duty
Pilot Duty	125 VA @ 120-240 VAC
Enclosure	NEMA 1 General purpose - with 2 knockouts



MODEL	DESCRIPTION
44-100	Activates or deactivates electrical equipment upon the start or stop of liquid flow.

### **HOW IT WORKS**

- 1. Fluid moves the flow switch paddle.
- 2. This in turn moves the internal magnet upward in the sealed fluid chamber aligning it with an external magnet mounted on the switch lever.
- 3. The magnetic fields attract, activating the switch contacts. No mechanical connection between "wet" and "dry" portions of the flow switch is required.

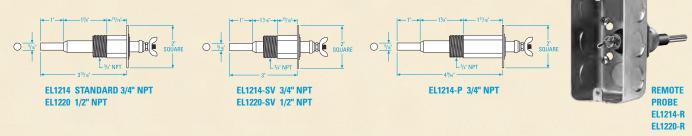
# **Probe Options/Specifications**

Add letters in the chart below to the base model number to specify other probe options. (Example: CG450P)

MODEL SUFFIX	PROBE MODEL DESIGNATED	PROBE DESCRIPTION	
SV	EL1214-SV	3/4" NPT. Short Inside Dimension. Designed for installation in standard reducing tee and short clearance installations.	
SVA	EL1220-SV	1/2" NPT. Short Inside Dimension. Designed for installation in standard reducing tee and short clearance installations.	
P	EL1214-P	3/4" NPT. Long nut for thicker boiler jackets.	
Α	EL1220	1/2" NPT. Same dimensions as standard EL1214.	
R	EL1214-R	3/4" NPT. Remote mount probe mounted to j-box (standard dimensions).	
RA	EL1220-R	1/2" NPT. Remote mount probe mounted to j-box (standard dimensions).	

Test pressure 1000 PSI, all models.

Note: All controls include one EL1214 probe unless otherwise specified.



# **Manifold Fittings**



MODEL	MAX. PSI	DESCRIPTION	
1214C-1	250	1" $\times$ 1" $\times$ (3) 3/4". Three-probe manifold with tri cock and gauge glass tappings. Supplied with control models LCFT 967, 250WC, 250MWC.	
711C	35	Two-probe manifold. Supplied with control models 711 and 724.	
250C	250	1" x 1" x (3) 3/4". Three-probe manifold. Supplied with control models 250 and 250M.	
1" H.P. TEE	250	1" x 1" x 3/4". High Pressure Tee for use with EL1214-SV probe .	
1214C-2	250	1" x 1" x 3/4". One-probe manifold.	
FOEM-1 FOEM-2 FOEM-3	160 160 160	One-probe manifolds. FOEM-1 is 1½" x 1½" x 3/4"; FOEM-2 is 1" x 1" x 3/4"; FOEM-3 is 1½" x 1½" x 3/4".	

# **Cross Reference Guide**

Honeywell Model #	McDonnell & Miller Model #	Description	Hydrolevel Model #	Obsolete Hydrolevel Model #
RW700A1007	900	Automatic Reset & Test Button/Light – 120 VAC	650	OEM 170 C
	900C	Automatic Reset & Test Button/Light – 120 VAC	650	
RW700B1039	900M	Manual Reset & Test Button/Light – 120 VAC	550	OEM 170MC
	901	Automatic Reset – 120 VAC	170	OEM 170
RW700B1021	901M	Manual Reset - 120 VAC	750	OEM 170M
	902M	Manual Reset & Test Button/Light - 120 VAC	550	
	PS-850-120	Automatic Reset & Test Button/Light – 120 VAC	650	
	PS-850-24	Automatic Reset & Test Button/Light – 24 VAC	600	OEM 24C
	PS-850-M-120	Manual Reset & Test Button/Light – 120 VAC	550	
	PS-850-M-24	Manual Reset & Test Button/Light – 24 VAC	500	OEM 24MC
	PS-851-120	Automatic Reset & Test Button/Light – 120 VAC	650	
	PS-851M-120	Manual Reset & Test Button/Light – 120 VAC	550	
	PS-802-RX2-24	Automatic Reset with delay /		
		steam primary / remote probe – 24 VAC	400R	
	PS-851-RX2-120	Automatic Reset & Test Button/Light / remote probe – 120 VAC	650R	
	PS-851-M-SP-120	Manual Reset & Test Button/Light / short probe – 120 VAC	550SV	
RW700A1098	PS-852-24	Automatic Reset & Test Button/Light - 24 VAC	600	
	PS-852-SP-24	Automatic Reset & Test Button/Light / short probe – 24 VAC	600SV	
	PS-852-M-SP-24	Manual Reset & Test Button/Light / short probe– 24 VAC	500SV	
	RB-120	Automatic Reset / heavy duty contacts – 120 VAC	170SV	
	RB-120II	Automatic Reset / heavy duty contacts – 120 VAC	170SV	
	RB-122	Automatic Reset / compact size – 120 VAC	1150	
	RB-24	Automatic Reset / compact size – with wiring harness – 24 VAC	1100	
RW700A1080	PS-801-120	Automatic Reset with delay / steam primary – 120 VAC	450	OEM 170TD
	PS-802-24	Automatic Reset with delay / steam primary – 24 VAC	400	OEM 24TD
	PS-802-RX2-24	Automatic Reset with delay / steam primary / remote probe – 24 VAC	400R	
	PS-800-120	Automatic Reset with delay / steam primary – 120 VAC	450	
	PS-800-24	Automatic Reset with delay / steam primary – 24 VAC	400	
VW400A1004	WF-2-120	Water Feeder M&M 2 gallon – Hydrolevel Adjustable – 120 VAC	VXT-120	V-120-1&2
VW800A1004	WF-2-24	Water Feeder M&M 2 gallon – Hydrolevel Adjustable – 24 VAC	VXT-24	V-24-1&2
	WF-4-120	Water Feeder M&M 4 gallon – Hydrolevel Adjustable – 120 VAC	VXT-120	
	WF-4-24	Water Feeder M&M 4 gallon – Hydrolevel Adjustable – 24 VAC	VXT-24	
	WF2-U-120V	Water Feeder M&M "Unimatch" – Hydrolevel Adjustable – 120 VAC	VXT-120	
	WF2-U-24V	Water Feeder M&M "Unimatch" – Hydrolevel Adjustable – 24 VAC	VXT-24	



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