Animal Management Solutions for Producers

Electric Fencing, Livestock Weighing, EID, Data Management & Miraco Watering System Catalog
COVER:
THE M10000I FENCE ENERGIZER WILL DELIVER MORE POWER THAN ANY OTHER ENERGIZER AVAILABLE IN THE WORLD.

See for yourself innovative products like the i Series Fence Energizer System - the fence that can't keep a secret! (page 6)

Producers know that when they purchase a Gallagher product, it comes with a heritage of quality and innovation that has made Gallagher the #1 selling brand of quality animal management products in the world, since 1938.
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How Electric Fencing Works

A short, safe and memorable shock to create a psychological as well as a physical barrier.

1. Energizer (power) is connected to the fence and the ground.
2. Power is sent along the fence in pulses.
3. Animal receives shock when it touches the fence.

PROFITABLE
Maximize pasture growth, minimize feed costs

SAFE
Animals remember and develop a respect for the fence

DURABLE
Stock pressure on your fence is reduced so it lasts longer

EASY TO INSTALL
Less than half the time to build vs a non-electric fence

ECONOMICAL
Costs less to build and maintain than a non-electric fence

Getting Started

Every electric fence system is made up of an Energizer, a grounding system and a fence system. Selection of these systems depends on property size, fencing usage and animal type.

1) What animals do you want to keep in or out? (See Gallagher Energizer Chart page 5)
2) Total area to be fenced (See Gallagher Energizer Chart page 5)
3) What power source will you use for your Energizer?
   Gallagher 110 volt Energizers are the best and most economical choice for areas where you have reliable power. Solar/Battery or Solar powered Energizers are the most logical for remote areas.
4) Do you need a permanent, offset or temporary/portable fence?
   - Permanent: Long life, permanent electric fences for highly effective animal control that lasts a lifetime.
   - Offset: Protect and extend the life of an existing conventional non-electric fence by adding electric wire(s).
   - Temporary/Portable: Easy to transport, assemble and take down allowing flexible fencing for short-term animal control or rotational grazing.

3 Year Warranty on All Energizers

All Gallagher Energizers purchased on or after January 1, 2018 carry a 3 year warranty (including lightning damage), in addition to a 30-day money back customer satisfaction guarantee. Energizers purchased prior to January 1, 2018 carry a 2 year warranty (including lightning protection).
<table>
<thead>
<tr>
<th>Energizer</th>
<th>Stored Joules</th>
<th>‘Up To’ Distance Clean Fence (Miles/Acres)</th>
<th>Recommended Distance Typical Fence (Miles/Acres)</th>
<th>I Series Added Features</th>
<th>Livestock Controlled</th>
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<tbody>
<tr>
<td>M10000i</td>
<td>100.0</td>
<td>1,000 / 6,000</td>
<td>125 / 3,000</td>
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<td>87 / 2,200</td>
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<td>36 / 280</td>
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<td>30 / 200</td>
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<td>11 / 60</td>
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<tr>
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<td>0.5 / 3</td>
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<td>50 / 1,000</td>
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<td>40 / 1,000</td>
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<td>0.6 / 6</td>
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<td>20 / 120</td>
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</tr>
<tr>
<td>S200</td>
<td>2.0</td>
<td>45 / 160</td>
<td>14 / 90</td>
<td></td>
<td><img src="sheep.png" alt="sheep" /></td>
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<td>S100</td>
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<td>8 / 60</td>
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<td>3 / 15</td>
<td>0.5 / 5</td>
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</table>

Table is a guide only.
A 110V Energizer System is the best choice if you have reliable power.

All Gallagher 110V Energizers are tested under extreme conditions to ensure unbeatable reliability – delivering outstanding performance day in and day out. Our medium and large Energizers offer extra performance with low power usage by automatically matching power output to fence load, as well as fence monitoring technology giving you total peace of mind your fence is working effectively.

**M10000i**

The world’s largest, most powerful Energizer.

- Clean fence distance: 1,000 miles / 6,000 acres
- Typical fence distance: 125 miles / 3,000 acres
- Stored energy (joules): 100

**Included Optional Accessories**

- Energizer Remote & Fault Finder with user replaceable battery.
- Fence Monitors placed strategically around your property provide confident animal control & accelerated fence troubleshooting.

**Energizer Controller** allows fence information to be seen in a convenient location up to 164' away from the Energizer with additional cord.

**Energy efficient Energizers**, adjust power output to suit your fence conditions. Provides incredible fence performance for the unit’s size.

**M5800i**

- Clean fence distance: 430 miles / 2,700 acres
- Typical fence distance: 87 miles / 2,200 acres
- Stored energy (joules): 58

**Included Optional Accessories**

- Fence Monitors placed strategically around your property provide confident animal control & accelerated fence troubleshooting.

*Plug-in, 110 Volt Energizers*

*i Series Energizer System - the fence that can’t keep a secret.* Working together the i Series system provides fence information at a glance and if it detects any faults, leads you directly to them, saving you hours of searching.
Alerts are sent to the Energizer Controller and/or optional Alarm System. The Controller and Remote indicate which zone is in fault. The zone can be isolated within the zone.

Power to the fence at the fence at the fault location is turned off using the Remote, allowing a safe and convenient repair.

Once the fault is repaired, power is restored to the fence and tested using the Remote.

Products in detail:

**Fence Monitor**
- A watchful eye on all corners of your fence
- Add up to six monitors to your fence system to turn it into a fully monitored set up that keeps the Energizer Controller constantly up to date with fence performance.
  - Use across your property to monitor fence voltage and current at up to six different locations (zones)
  - Identifies when any zone has a fault and sends back alarms
  - Locate fault zones quickly and use the Remote/Fault Finder to pinpoint the problem.

**ENERGIZER CONTROLLER**
- Ground breaking innovation, total peace of mind that your fence is working as it should
- Shows all your fence performance information (e.g. voltage, faults and location) in one convenient, separate display box that can be placed up to 164' away from the Energizer itself. Additional cord length required.
  - Displays voltage & current readings at the Energizer and for up to 6 attached Fence Monitors
  - Locate in a convenient spot for instant updates eg: side of the shed
  - Locate fault zones quickly & use the Controller to turn the Energizer on/off
  - Fully waterproof for indoor or outdoor placement.

**REMOTE**
- Save hours searching for & fixing faults
- The Remote pinpoints the fault within the monitored zone and enables you to turn off the Energizer during repair and on again once complete.
  - Shows fence voltages and current
  - Shows Alarm status for the Energizer and the Fence Monitors
  - One Remote can be used on up to 9 Energizers or use multiple Remotes on one (or more) Energizers.

**Accessories**
- Monitor a section of fence and drive external strobe lights, sirens or alarm panels if the circuit is broken eg: gate opened or a wire cut.
- Siren G56902
- Light G56901
- Alarm G57900
- Connect the i Series WiFi Gateway to your i Series Energizer, install the Dashboard Fence app and subscribe for fence performance information.
- WiFi Gateway G56700
- Connect between the mains power supply and the Energizer and connect to your 12V battery as a back-up power source.
- Battery Back-up Charger G58210.
Plug-in, 110 Volt Energizers

M1500

15 JOULES

- Clean fence distance: 160 miles / 900 acres
- Typical fence distance: 40 miles / 360 acres
- Stored energy (joules): 15
- Dimensions: 10.5” (w) × 8” (h)

More power in reserve - Adaptive output control technology automatically adjusts to suite your fence conditions. M1500 & M1100.

- Quickscan Output Voltage: shows output voltage of the Energizer at a glance and a digital output reading
- Ideally suited for large pastures
- UL Approved

M1100

11 JOULES

- Clean fence distance: 110 miles / 650 acres
- Typical fence distance: 36 miles / 280 acres
- Stored energy (joules): 11
- Dimensions: 10.5” (w) × 8” (h)

Quickscan Output Voltage bar graph: shows output voltage of the Energizer at a glance

- Ideally suited for medium pastures
- UL Approved

“Power, performance and reliability – hallmarks of Gallagher plug-in Energizers”
M800

8 Joules

- Clean fence distance: 90 miles / 520 acres
- Typical fence distance: 30 miles / 200 acres
- Stored energy (joules): 8.0
- Dimensions: 7” (w) × 8.5” (h)
- Green indicator light flashes when Energizer is working properly
- UL Approved

M560

5.6 Joules

- Clean fence distance: 75 miles / 400 acres
- Typical fence distance: 23 miles / 130 acres
- Stored energy (joules): 5.6
- Dimensions: 7” (w) × 8.5” (h)
- Green indicator light flashes when Energizer is working properly
- UL Approved

M360

3.6 Joules

- Clean fence distance: 55 miles / 250 acres
- Typical fence distance: 19 miles / 95 acres
- Stored energy (joules): 3.6
- Dimensions: 7” (w) × 8.5” (h)
- Green indicator light flashes when Energizer is working properly
- UL Approved
Plug-in, 110 Volt Energizers

### M160
- **Clean fence distance:** 30 miles / 100 acres
- **Typical fence distance:** 11 miles / 60 acres
- **Stored energy (joules):** 1.6
- **Dimensions:** 9.6” (w) × 7.5” (h)
- **Green indicator light flashes when Energizer is working properly**
- **UL Approved**

### M120
- **Clean fence distance:** 15 miles / 60 acres
- **Typical fence distance:** 6 miles / 30 acres
- **Stored energy (joules):** 1.2
- **Dimensions:** 9.6” (w) × 7.5” (h)
- **Green indicator light flashes when Energizer is working properly**
- **UL Approved**

### M60
- **Clean fence distance:** 10 miles / 40 acres
- **Typical fence distance:** 3 miles / 20 acres
- **Stored energy (joules):** 0.6
- **Dimensions:** 9.6” (w) × 7.5” (h)
- **Green indicator light flashes when Energizer is working properly**
- **UL Approved**
We’ve taken everything we love about our Energizers and hit the refresh button. The result? Extended mileage with the same unbeatable quality.

**M30**

*G331434*

0.3 JOULES

- Clean fence distance: 5 miles / 20 acres
- Typical fence distance: 2 miles / 10 acres
- Stored energy (joules): 0.3
- Dimensions: 9.6” (w) × 7.5” (h)

- Green indicator light flashes when Energizer is working properly
- UL Approved

**M10**

*G331424*

0.1 JOULES

- Clean fence distance: 2 miles / 10 acres
- Typical fence distance: .5 miles / 3 acres
- Stored energy (joules): 0.1
- Dimensions: 9.6” (w) × 7.5” (h)

- Green indicator light flashes when Energizer is working properly
- UL Approved
A Battery/Solar Energizer System is a popular choice for those without reliable plug-in power.

A full Gallagher solar panel includes:
- High quality fully tested Solar Panels
- A Regulator to protect the battery by controlling the power flow
- Stainless steel Mounting Brackets, Bolts & Clamps for longer life with multiple tilt positions for maximum sunlight exposure

Solar Panels
Efficient Solar Conversion

Multiple Mounting Options - Bracket system designed for maximum mounting flexibility. Works with a wooden post, rails or steel mounting pole.

Easy Installation - Quick and simple to install. Includes a simple angle adjustment. Brackets included on all four models.

Reliability - Solar panels have been tested extensively. Can be mounted on wood rails, posts or steel posts.

Battery Back-up Charger
G49602

Ensures you never lose power on your fence. In the event of a power failure, the power source automatically switches your Gallagher MB/MBS Energizer to your external 12V battery.
To power your MB/MBS Series 110 Volt Energizer using solar panels you need to consider two factors:

1. **Size of Energizer** (larger Energizers draw more current & need larger solar panels)
2. **Sunlight in your area** (larger solar panels are needed for areas of limited sunshine)

Use the North America map and chart below to match your chosen Energizer with the right Solar Panel wattage required and the correct Battery amp hour rating (battery capacity).

<table>
<thead>
<tr>
<th>Model</th>
<th>Region 1</th>
<th>Region 2</th>
<th>Region 3</th>
<th>Region 4</th>
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<tr>
<td>MB2800i</td>
<td>1 - 80W+ 1 - 130W</td>
<td>1 - 100AH</td>
<td>2 - 80W</td>
<td>2 - 100AH</td>
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<tr>
<td>MB1800i/B1600</td>
<td>2 - 80W</td>
<td>1 - 100AH</td>
<td>1 - 130W</td>
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<td>MB1000/B700</td>
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<td>1 - 130W</td>
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<td>1 - 40W</td>
<td>1 - 38AH</td>
<td>1 - 40W</td>
<td>1 - 38AH</td>
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</table>

If you live near a region boundary line, always select the most Northern region’s recommendation to ensure optimal performance.

Not recommended for use outside the regions listed.
**Multi Powered Energizers**

**MB2800i**

- **28 JOULES**
- **Clean fence distance:** 250 miles / 1,500 acres
- **Typical fence distance:** 50 miles / 1,000 acres
- **Stored energy (joules):** 28
- **UL Approved**

**Included Optional Accessories**

- Reliable, adaptive i Series technology – The proven Gallagher i Series technology provides complete confidence in continued fence performance irrespective of changes in power supply, temperatures and fence conditions.

- NEW power adaptor input – Easy to use, weather tight power adaptor input. Simply insert the provided plug-in or battery lead set (shown above), depending on your chosen power source.

- Power your fence, your way – Plug-in, battery or solar. Energizer comes complete with a 110v power supply and battery lead set for all power options (Solar panel sold separately for solar powered solutions).

- Easily monitor and control fence performance – Mount in a convenient location up to 164’ from Energizer for easy access to fence control and performance information. Additional cord length required.

- Compatible with i Series accessories – Fully compatible with i Series remotes, fence monitors, alarm system, gateway and the supplied display monitor.
MB1800i

- Clean fence distance: 200 miles / 1,200 acres
- Typical fence distance: 42 miles / 420 acres
- Stored energy (joules): 18
- UL Approved

MB1000

- Clean fence distance: 100 miles / 600 acres
- Typical fence distance: 34 miles / 250 acres
- Stored energy (joules): 10
- UL Approved

**Reliable & adaptive performance even in extreme conditions**

- Consistent fence performance regardless of extreme temperature conditions or unreliable power supply
- Peace of mind assured with quick scan LED fence performance lights: green = fence ok, red light flashing = fence fault and solid red light = increased fence load on the MB2800i and MB1800i units
- User safety and reliable animal control with built in lightning and short circuit protection
- Better fence management with output, ground and fence voltage alarms
Multi Powered Energizers

MBS800

- Clean fence distance: 90 miles / 520 acres
- Typical fence distance: 30 miles / 200 acres
- Stored energy (joules): 8
- Dimensions: 5.3" (w) × 10" (h)
- UL Approved
- Flexibility in fence management – designed for 110v (plug-in), battery or solar installations
- Gain peace of mind that fence is working properly – LED bar graph indicates fence voltage performance
- Check battery at a glance – flashing red light shows when battery is running low
- Solar options are available (see pages 12-13)
- Leadsets are included
- Battery not included

MBS400

- Clean fence distance: 60 miles / 280 acres
- Typical fence distance: 20 miles / 120 acres
- Stored energy (joules): 4
- Dimensions: 5.3" (w) × 10" (h)
- UL Approved
- Flexibility in fence management – designed for 110v (plug-in), battery or solar installations
- Gain peace of mind that fence is working properly – LED bar graph indicates fence voltage performance
- Check battery at a glance – flashing red light shows when battery is running low
- Solar options are available (see pages 12-13)
- Leadsets are included
- Battery not included
MBS200 G389414

2 JOULES

- Clean fence distance: 45 miles / 160 acres
- Typical fence distance: 14 miles / 90 acres
- Stored energy (joules): 2
- Dimensions: 4.6”(w) × 8.8”(h)

- Flexibility in fence management - designed for 110v (plug-in), battery or solar installations
- Gain peace of mind that fence is working properly – LED bar graph indicates fence voltage performance
- Check battery at a glance – flashing red light shows when battery is running low
- Solar options are available (see pages 12-13)
- Leadsets are included
- Battery not included

MB150 G388414

1.5 JOULES

- Clean fence distance: 30 miles / 100 acres
- Typical fence distance: 11 miles / 60 acres
- Stored energy (joules): 1.5
- Dimensions: 4.6”(w) × 8.8”(h)

- Dual Power: 110v, plug-in or battery power
- Check battery at a glance - green light shows battery is ok, flashes red if battery is running low
- Superior fence performance
- Reliable animal control is assured with built in lightning protection
- Power supply (G40123) is not included
- Battery not included
Are you looking for an Energizer that generates free energy and is environmentally friendly? Go solar. Check out our full line up of high quality, reliable solar systems that are a cinch to install and will last for years.

**S400**

- **Clean fence distance:** 60 miles / 280 acres
- **Typical fence distance:** 20 miles / 120 acres
- **Stored energy (joules):** 4.0
- **Dimensions:** 26" (w) × 20" (h)
- **Multiple power options:** wildlife and livestock control modes
- **Safe, powerful animal control designed for outdoor and portable use**
- **Can be mounted on a wall, wood post, or T-Post**
- **40 Watt solar panel**
- **Highly visible rotary dial for turning the unit off and on**
- **Impact resistant plastic lens to protect the solar panel**
- **Easy to maintain and clean**
- **Maintenance-free rechargeable batteries (requires two 12V batteries) and leads included**

**S200**

- **Clean fence distance:** 45 miles / 160 acres
- **Typical fence distance:** 14 miles / 90 acres
- **Stored energy (joules):** 2.0
- **Dimensions:** 13" (w) × 20" (h)
- **Multiple power options:** wildlife and livestock control modes
- **Safe, powerful animal control designed for outdoor and portable use**
- **Can be mounted on a wall, wood post, or T-Post**
- **20 Watt solar panel**
- **Highly visible rotary dial for turning the unit off and on**
- **Impact resistant plastic lens to protect the solar panel**
- **Easy to maintain and clean**
- **Maintenance-free rechargeable batteries (requires two 12V batteries) and leads included**
S100

G346404

1.0 JOULES

- Clean fence distance: 30 miles / 100 acres
- Typical fence distance: 8 miles / 60 acres
- Stored energy (joules): 1.0
- Dimensions: 12” (w) × 12” (h)

- Safe, powerful animal control designed for outdoor and portable use
- Can be mounted on a wall, wood post, or T-Post
- Highly visible rotary dial for turning the unit on and off
- Impact resistant plastic lens to protect the solar panel
- Easy to maintain and clean
- Maintenance-free rechargeable battery and leads included

- Turn on and forget – With automated battery management, energizer will continue to work for up to 3 weeks without sun.
- Multiple power options - Wildlife mode pulses fast day and night. Full power mode pulses fast during the day and slower at night, conserving power when animals are less active.
- Water resistant case, with built-in lightning protection – designed to be left outside, rain, hail or shine. Keeps stock contained in all weather conditions.
- Quick to install – Easily set up in any location.

Fence and ground leads (G59300) included.
All in One Solar Energizers

S40

- Clean fence distance: 25 miles / 80 acres
- Typical fence distance: 5 miles / 30 acres
- Stored energy (joules): 0.4
- Dimensions: 12” (w) × 12” (h)
- Multiple power options: wildlife and livestock control modes
- Safe, powerful animal control designed for outdoor and portable use
- Can be mounted on a wall, wood post, or T-Post
- Highly visible rotary dial for turning the unit on and off
- Impact resistant plastic lens to protect the solar panel
- Easy to maintain and clean
- Battery and leads included
- Will continue to run up to 3 weeks without sun
- Maintenance-free rechargeable battery and leads included

S20

- Clean fence distance: 12 miles / 40 acres
- Typical fence distance: 2 mile / 14 acres
- Stored energy (joules): 0.2
- Dimensions: 9” (w) × 10.5” (h)
- High-impact, UV-resistant plastic case for weatherproof, rust-proof, insect-proof outdoor use
- Maintenance-free rechargeable battery included
- Fits on top of steel t-post
- Unique battery save extends usage up to 3 weeks without sun
- Automatic night save mode to extend battery life
- Battery and leads included

S10/S16/S20 RECHARGEABLE BATTERY 6V A0959
Used in the Gallagher S10/S16/S20 Energizers.

Fence and ground leads (G59300) included.
S16

0.16 JOULES

Operates up to 3 weeks without sun!

- Clean fence distance: 10 miles / 30 acres
- Typical fence distance: 1 mile / 10 acres
- Stored energy (joules): 0.16
- Dimensions: 11.6” (w) × 12” (h)

- 360 Degree T-Post mount allows the Energizer to mount onto existing posts.
- High-impact, UV-resistant plastic case for weatherproof, rust-proof, insect-proof outdoor use
- Maintenance-free rechargeable battery included
- Fits on top of steel t-post
- Unique battery save extends usage up to 3 weeks without sun
- Ideal for managed grazing, this robust and portable unit makes a great alternative to battery powered systems

G341414

S10

0.1 JOULES

Operates up to 3 weeks without sun!

- Clean fence distance: 3 miles / 15 acres
- Typical fence distance: 0.5 miles / 5 acres
- Stored energy (joules): 0.1
- Dimensions: 9” (w) × 10.5” (h)

- The Energizer comes with a battery and solar panel. Leads are not included
- Unique battery save extends usage up to 3 weeks without sun
- Built in lightning protection
- Designed for all weather conditions

G341404

S10/S16/S20 RECHARGEABLE BATTERY 6V A905

Used in the Gallagher S10/S16/S20 Energizers.

Uses fence and ground leads (G59300).

360 Degree T-Post mount allows the Energizer to mount onto existing posts.

Post mount can attach S10/S16/S20 Solar Energizers to a Ring Top Post. See page 44.

Fence and ground leads (G59300) included.

Built in solar panel (1.5 Watt) charges battery for consistent, reliable fence performance.

Water resistant case & components with built-in lightning protection. Designed to be left outside in all weather conditions.

Battery light indicator

S10/S16/S20 RECHARGEABLE BATTERY 6V A905

Used in the Gallagher S10/S16/S20 Energizers.

Uses fence and ground leads (G59300).
A Battery Powered Energizer System needs a constant current.

If not recharged, the battery will eventually become completely discharged and the Energizer will stop. The amount of current required by an Energizer increases with the size of the Energizer. The amount of charge stored by the battery is measured in Amp-hours (Ah) and increases with the size of the battery. A battery should be chosen which is designed for regular charge and discharge cycles, and for discharging most of its capacity without damage.

Deep cycle batteries are recommended as they are the best compromise between price and life expectancy. A deep cycle battery will typically last two to four times longer than an automotive battery when used for powering Energizers because they are designed to be drained and recharged repeatedly.

Batteries should be placed on a level surface and can be protected against extremes of temperature. They should not be in direct contact with a cold surface such as the ground. Placing suitable insulating material under the batteries or placing them in a battery box and burying the box will also help increase their service life. Ensure that the battery has adequate ventilation to allow gases to escape.

---

**B11**

- **G353414**
- **0.11 Joules**

- Clean fence distance: 4 miles / 20 acres
- Typical fence distance: 0.6 miles / 6 acres
- Stored energy (joules): 0.11
- Dimensions: 4.5” (w) × 8.6” (h)

Requires: Six ‘D’ batteries or external 12V battery (batteries not included). 12V battery leads included.

**B60**

- **G388404**
- **0.6 Joules**

- Clean fence distance: 15 miles / 60 acres
- Typical fence distance: 5 miles / 40 acres
- Stored energy (joules): 0.6
- Dimensions: 3” (w) × 6” (h)

- Compact and portable design
- Fence indicator flashes with each energizer pulse
- Use with a 12-volt, deep-cycle battery
- Battery not included

**B10**

- **G36311**
- **0.1 Joules**

- Clean fence distance: 4 miles / 20 acres
- Typical fence distance: 0.6 miles / 6 acres
- Stored energy (joules): 0.1
- Dimensions: 3” (w) × 6” (h)

- Ideal for protecting gardens from animals.

Requires: Six ‘D’ batteries or external 12V battery (not included). 12V battery leads not included. 12V leads (G352100).
If there’s one thing a cattle producer can count on, it’s knowing they’re going to face a challenge that’s beyond their control. Whether that challenge is man made such as high operating costs, or a natural disaster such as a drought – or the combination of the two – each generation of producers deal with their own set of unique challenges.

But it’s in the nature of cattle producers to accept their fate and make changes to their individual operations to stay in this business. And it is those exact challenges and the producer’s ability to change what they can control that makes each generation of producers more progressive and aggressive in their operation management.

You can’t feed yourself out of a drought. Surely one could try, but with current conditions as such, how long could that operation be sustainable, let alone be profitable? Instead, consider taking a different operation management approach to grazing and pasture management, such as rotational grazing. Picture utilizing what is already available: cattle and land, and change the way the two work together to ultimately produce a more efficient, cost-effective and viable operation for the future.

Rotational grazing, or intensive grazing, doesn’t have to be overwhelming. It’s simply utilizing the cattle and maintaining the land to garner the most efficiency out of an operation. And since producers already know the tendencies of their land and their animals, a little planning and strategy at the beginning will ensure a successful pasture management practice.

The limiting factor for a rotational grazing system is water. Determine the location of the cattle’s water source first. Cattle will graze more efficiently if they are no farther than 800 – 1,000 feet from their drinking source.

Next, chart out the grazing area on paper before heading out to pasture. Making a plan of the grazing area ahead of time allows producers to be more efficient and cost-effective in their rotational grazing management. An aerial map of the land is a great place to start to establish paddock sizes based on the location of the water source. If an aerial map is not available, the Natural Resources Conservation Service (NRCS) may provide this free of charge.

Determining the number of paddocks or the shape of the grazing area is solely up to each producer and their individual operation. Developing a rotational grazing system truly can be as simple as dividing the current grazing area in half.

A great visual example is to picture a pie shape – with the water source in the center of the pie and paddocks arcing out from the water. A rotational grazing system based on this principle allows producers to easily move cattle from one paddock to the next, especially when working alone.

Probably the most important question to ask when deciding the number of paddocks to create is: how long do I want the cattle to graze in each paddock? The more paddocks – the shorter amount of time the cattle will graze. As a general rule, four/five paddocks are quite typical.

It’s time to put the plan in motion. For the physical component of rotational grazing – putting up the actual grazing area, producers need nothing more than five tools: an Energizer, ground rod, posts, reels and Polywire fencing. One of the great benefits of rotational grazing is flexibility; it may take a couple of rotations to figure out the appropriate size of the individual paddocks, which is why Polywire fencing is recommended at the beginning.

Before turnout, plan a quick grazing strategy. Take a look at the grazing area to determine the condition of the plots, availability of forage and how the pasture grows. A simple grazing strategy allows producers to know where to place the cattle in the grazing rotation and to prevent overgrazing. A general rule is to let the cattle eat the best forage first and then move the cattle to where the producer wants the animals to graze next.

How often a producer moves their cattle is based on many factors: geography, climate, season, size of the pasture – and also the number and size of paddocks. The smaller the size of the paddock, the shorter amount of time the cattle will spend in each area. In some parts of the country the cattle may be moved every couple of days, while in other parts, it may be weeks. The best advice is to watch what’s happening in the rotational grazing process and make operation management decisions from there.

Regardless of current or future challenges, cattle producers will rise to the occasion. The progressive changes producers implement in their operations now, will continue to drive the success and sustainability of the industry as a whole to the next generation.

What’s your grazing strategy?

Tips

- Implementing a rotational grazing system allows producers to be more involved in the effectiveness of their forage and how efficiently their cattle graze.
- Cattle must be trained to electric fencing prior to turnout. Temporary fencing is a cost-effective solution to ensure the animals are ready.
- A simple equation to use to determine the number of paddocks to create: number of days of pasture rest divided by the number of days of grazing, plus one.
Eight out of ten problems are due to improper grounding

Setting up a good grounding system is often overlooked but it’s critical. It’s how the power flows from the Energizer, to the fence, through the animal and back through the ground to the Energizer. Without good clean ground rods in sufficient size and number the ground connection doesn’t work and the shock will not reach the animal.

For Wetter Regions
For use in greener regions where the fence can be simplified to an ‘all live wire’ system.

For Drier Regions
For use where the ground struggles to conduct enough power. A ‘ground return system’ is created where the live & ground wires on the fence create the shock when the animal touches them both at the same time.

Handy Hint
The rule for ground rods when installing permanent fencing

10' Between ground rods
3' Ground rods minimum*

6' Minimum length of rods
1 Wire connecting all rods to Energizer ground terminal

As a rule of thumb, use at least 3 ground rods or the Energizer Stored Joules rating divided by 5.
## Power Management Tools

### Fence Testers

- **Fence Volt/Current Meter and Fault Finder**
  - G509005
  - *Save hours searching for and fixing faults!*
  - • Large easy to read LCD display shows voltage & current
  - • Large arrows show direction of fault
  - • Auto On/Off when fence pulse detected

- **Fence Volt Meter**
  - G503014
  - Digital read out for accurate fence voltage measurement.

- **Energizer Remote and Fault Finder**
  - G50700
  - Quickly and easily locates fence faults. Once fault located turn the Energizer off remotely to allow safe and convenient fence repair. Rugged and reliable with a tough, water resistant casing.
  - Compatible with M10000i, M5800i, MB2800i & MB1800i

- **Fence Volt Indicator**
  - G501004
  - Simple indicator lights show approximate fence voltage levels.

### Fence Management Tools

- **Live Fence Indicator**
  - G51100
  - *Know your fence is working!*
  - Place permanently on your fence and simply look for the LED flash, for instant reassurance that the fence is working.
  - • No batteries required. Uses power from the fence (2kv or 2000 volts or higher)
  - • Highly visible LED can be seen during day/night (up to .5 mile at night)
  - • Long life - water and UV resistant
  - • Simply put ground rod in and clip on to fence wire or tape.

- **Cut Out Switch**
  - G60731
  - A handy tool that allows a section of a permanent fence to be switched off for maintenance or fault finding.
  - • High quality phosphorous bronze contacts for long life & maximum effectiveness
  - • Highly visible on/off switch for status checking at a glance
  - • Full sealed, weatherproof & dirt resistant.

- **Knife Cut Out Switch**
  - G610
  - Alternative cut out switch option.
  - • Stainless steel contacts
  - • Easy to see open or closed status
  - • Use at gates and for easy location of fault finding
  - • Switch off a section of fence for maintenance and routine checks

### Safety & Protection

- **Flood Gate Controller**
  - G60400
  - Install on flood gates to prevent significant power loss when the water way is flooded.

- **Voltage Spike Protector**
  - A209
  - Protect your fence from damaging power surges.

- **Lightning Diverter**
  - G54800
  - Also available porcelain (A207)
  - Gallagher recommends that all Energizers be fitted with a lightning diverter to help protect from lightning damage. This diverter will withstand multiple lightning strikes and can be adjusted to fit any Energizer.

- **Warning Sign**
  - G602404
  - A highly visible sign that warns that a fence is electrified. Required by law, to be used on boundaries and anywhere else public have access to a fence.
**END STRAIN INSULATORS AND STRAINERS**

**Strain Insulator**  
White: G67812  
Black: G67702  
Strongest, long term end strain insulation for high tensile permanent electric fencing.

**Strain Insulator Kit**  
G61814  
Simplest option for end strain insulation; comes with pre-attached wire rope. Fits up to 7.5" posts. No wire tying or special tools needed.

**Insulated Wire Strainer Kit**  
G618034  
No wire tying, fast & simple. Includes all three end strain elements - insulator, strainer and steel rope. Simply slide over the post and you're done. Fits up to 7.5" post.

**Porcelain Round Insulator**  
G674034  
Fire resistant, high quality glaze finish porcelain doughnut is 1.5" in diameter.

**Porcelain High Strain Insulator**  
G692034  
This long-life, fire resistant insulator is suitable for long strains of permanent fence.

**Insulated Tube**  
G614134 - White  
G614034 - Black  
23" Long protective strips for poly wire or braid. Available in white 82' coil.

**Ratchet Wire Tightener**  
G64304  
G64302 - 5 Pack  
Fits over wire for mid-fence straining, increasing effectiveness of strain by pulling from both directions. Ideal for tightening existing fences or trellising wires.

**Insulated Strainer**  
G74313  
Insulated body provides 1.7 x the insulation of previous models. Integrated joint clamp allows direct attachment of wires and power connection.

**Wire Strainer**  
G79504  
Ratchet style wire strainer. Can also be used in-line by threading through strainer. Tighten with G69530 ratchet handle.

**HD Tension Spring**  
A290  
A versatile product with in-built over-stretch protection. Use for:  
- Fences with frequent snow loads  
- Enabling irrigators to pass over fence lines  
- On very short fence lines to maintain tension and prevent excessive strain on end posts.

**In Line Wire Tightener**  
G64304  
G64302 - 5 Pack  
Fits over wire for mid-fence straining, increasing effectiveness of strain by pulling from both directions. Ideal for tightening existing fences or trellising wires.

**Porcelain Round Insulator**  
G674034  
Fire resistant, high quality glaze finish porcelain doughnut is 1.5" in diameter.

**Screw-In Tie Down & Handle**  
G61500 Tie Down  
G615014 Handle  
Ensures a secure fence tie down. Tie down and handle sold separately.

**Insulated Tube**  
G614134 - White  
G614034 - Black  
23" Long protective strips for poly wire or braid. Available in white 82' coil.

**Insulated Tube**  
A213  
Firmly secures 1.5" tape. The unique clasp on this impact resistant polyethylene prevents movement and helps eliminate wear.

**Tape Joiner 1.5"**  
AH105  
Used to join 1.5" tape. This stainless steel material is rust resistant.
**WIRE CONNECTOR**

**Split Bolt Wire Connector**
G605 - 5 pk

**Equine Fence Joiner**
AH101

**CLAMPS**

**Joint Clamp L Shape**
Wing nut: G603934 - 10 pk
Hex nut: G603034 - 10 pk, G603044 - 25 pk

**Wood Post Heavy Duty Tape Insulator**
G669134 - White
G669034 - Black

**Wood Post Wide Jaw Pinlock Insulator**
G626144 - White
G626044 - Black

**Wood Post Wide Jaw Pinlock Insulator**
G626144 - White
G626044 - Black

**Wood Post Heavy Duty Tape Insulator**
G669134 - White
G669034 - Black

**Wood Post Heavy Duty Tape Insulator**
G669134 - White
G669034 - Black

**Wood Post Corner Strain Tape Insulator**
G670034 - Black w/steel plate

**WOOD POST INSULATORS**

**Wood Post Claw Insulator**
G67304

**Wood Post Pinlock Insulator**
G68704 - Black
G687144 - White

**Wood Post Screw-in Ring Insulator**
G66604 - Black
G667 - White

**Wood Post Wide Jaw Pinlock Insulator**
G676144 - White
G676044 - Black

**Wood Post Tape Insulator**
G668144 - White
G668044 - Black

**Wood Post Corner Strain Tape Insulator**
G670034 - Black w/steel plate

**WOOD POST INSULATORS**

**Corner Lag Insulator**
G679 - White
G688 - Black

**Large Porcelain Lag Insulator**
G675

**Standard Porcelain Lag Insulator**
G671

**Wood Post Tape Insulator**
G668144 - White
G668044 - Black

**See Wood & T-Post Pinlock Insulator on page 28.**

**WOOD POST INSULATORS**

**Wood Post Insulators, Connectors & Clamps**

**Equine Fence Joiner**
AH101

**Join Equine Fence or 12.5 gauge wire without special tools or crimps. Simply strip special polymer coating off Equine Fence and insert bare wire into joiner.**
## T-Post Insulators

<table>
<thead>
<tr>
<th>T-Post Insulators</th>
<th>STRENGTH</th>
<th>WARRANTY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wood &amp; T-Post Pinlock Insulator</strong>&lt;br&gt;G681134 - White&lt;br&gt;G681034 - Black</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>Heavy Duty, snap-on plastic insulator designed for steel posts, but can be nailed to wooden posts or screwed to vinyl posts.</td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

## T-Post Insulators

### Multi-Purpose Insulator

- **Wood & T-Post Pinlock Insulator**<br>G681134 - White<br>G681034 - Black
- Heavy Duty, snap-on plastic insulator designed for steel posts, but can be nailed to wooden posts or screwed to vinyl posts.

## Standard Insulator Line

- **Std T-Post Claw Insulator**<br>G73104
  - Simple snap on design for common T Post sizes.

- **Std Wood Post Nail-on Claw Insulator**<br>G73604

- **Std Wood Post Screw-in Ring Insulator**<br>G73704
  - Angled slot for wire retention. Extra insulating of flanges to prevent arching.

## In Line Fiberglass & Rod Post Insulators

- **Spring Grip Post Clip**<br>A636
  - Clip for secure attachment to .375” fiberglass post.

- **Rod Post Screw-on Claw Insulator**<br>G65514 - White
  - For round posts for 1/4" - 5/8" diameter.

- **Rod Post Screw-on Claw Insulator 3/8”**<br>G65604 - Black
  - Claw style insulator for fitting plastic wire to round or oval portable posts with 1/4”-5/8” diameter. Fits Ring Top Post.

## Drill Chuck for Screw-In Ring Insulators

- See page 44.
**WIRE MOUNTED OFFSETS**

Bracket Offset with Plastic Pinlock Insulator 12”
- G665144 - White Replacements
- G665044 - Black Replacements
- G659034 - Black, 10 pk
- G659154 - White, 50 pk
- G659054 - Black, 50 pk

This offset will attach to any existing wire fence and comes pre-assembled.

Available with Porcelain insulator (G664054). Also, available for wood posts (G662054) and chain link (G653054).

---

**RING TOP & WOOD POST OFFSETS**

Popular option for adding an electric wire to existing wood post fences. Use side mount option for standard height or top mount for a higher top wire placement (e.g.: horses) and one or both sides of the post.

Ring Top Offset Side Mounts, 5 pk
- G75112 Length - 6 3/4”
- G75122 - Length - 15 3/4”

---

**Wood Post Pinlock 5” Offset Insulator**
- G617134 - White
- G617034 - Black

The pinlock allows for easy fence construction and wire removal. The wide jaw accommodates Equine Fence and braid products.

---

**T-POST OFFSETS**

T-Post Pinlock Offset Insulator - 5”
- G650134 - White
- G650034 - Black

Extra locking tab enables offset to fit all T-Posts from 1.25” to 1.5”. The pinlock allows for easy construction and wire removal. The wide jaw accommodates Equine Fence and braid products.

---

**Multi-Post Pinlock Offset Insulator**
- G694134 - White
- G694034 - Black

This multi-purpose insulator is able to be attached to both sides of a steel post or nailed to a wooden post. It has a pinlock clip that allows for easy fence construction.

---

**Benefits of Offset Fencing**

Old fences can be made to last for many more years by simply attaching offset brackets and an electrified wire on one or both sides, even where fences have deteriorated so much that they need replacing.

New fences will last almost twice as long if they have electrified offset wires attached to them. Electrifying one or more wires in a conventional non-electric fence will prevent stock pushing through the fences.

Attach single offset wires at two thirds the animal to be controlled. If sheep and cattle are to be in the same area, use two wires or a single offset attached at three quarters the height of the sheep.

Where old barbed wire is rusty and broken, remove the worst wires and tighten the others to prevent an ongoing problem of them shorting out the offset wire. Old fence wires can also be connected in parallel and used as a ground return.
Ensure optimum power to all parts of the fence

Lead out describes the cable and wire that carries the power from the Energizer to the middle of your fence system. Much like your property water system, ensure optimum power distribution to all areas of your fence by choosing the most conductive cable/wire (biggest feeder pipe) relevant to your fence system.

**DOUBLE INSULATED CABLE:** Energizer to the fence

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tensile Wire</td>
<td>A303 .5 mile</td>
</tr>
<tr>
<td>Double Insulated Cable</td>
<td>G609024 165' 16 Gauge</td>
</tr>
<tr>
<td>Aluminium Wire</td>
<td>AXL17250 17 Gauge; AXL171320 17 Gauge; AXL141320 14 Gauge; AXL142640 14 Gauge; AXL121320 12.5 Gauge; AXL124000 12.5 Gauge; 4,000'</td>
</tr>
</tbody>
</table>

**ELECTRIC FENCE WIRE:** Fence to middle of system

- Engineered and manufactured especially for permanent fencing. This 12.5 gauge wire is much stronger than standard fence wire and class III galvanized for longer life - 170,000 PSI.

**WIRE ACCESSORIES:**

- **Staples**
  - AC680 1.75" Barbed Staples 10 lb pail
  - AC681 2" Barbed Staples 10 lb pail
  - AC683 1.5" Barbed Staples 10 lb pail

- **Wire Splicing Sleeves**
  - A800 FW3-4 Wire Splicing Sleeve (10-11 Gauge Smooth)
  - A401 FW4-5 Wire Splicing Sleeve (9 Gauge Smooth)
  - A802 FW2-3 Wire Slicing Sleeve (12.5 Gauge Smooth)

- **Wire Line Taps**
  - A405 FWT3-4 Line Tap (12.5 Gauge Smooth)
  - A511 FWT4-5 Line Tap (12.5 Gauge Barbed)

**Using Insulated & Underground Cable**

Leadout Cable or Double Insulated Cable should be used in buildings, under gateways and where soil could corrode exposed galvanized wire.

Undergate cables should not be used for long leadouts or for long distances underground, because the 16 gauge galvanized wire will cause resistance to the flow of the current. This is not so important on small properties, but where long distances of fencing are to be erected use 12.5 gauge Leadout Cable or High Conductive Cable.

Never use household electrical cable; it is made for a maximum of 440 volts and for inside work only.

Never use copper wire undergate cable because electrolysis problems occur where it is joined to galvanized fencing wire.
### Conductor Selection Chart

<table>
<thead>
<tr>
<th>Conductor</th>
<th>Description</th>
<th>FENCE VOLTAGE</th>
<th>MIXED METALS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A) Turbo Braid - 3/16”</strong>&lt;br&gt;G62174 656’, White&lt;br&gt;G62176 1,312’, White&lt;br&gt;G621774 1,312’, Green</td>
<td>9 Mixed metal strands&lt;br&gt;Most user-friendly for horse fencing - visible and safe&lt;br&gt;Best suited for any distance temp or permanent fence</td>
<td>8kV 7.5kV 7.1kV 125</td>
<td>•</td>
</tr>
<tr>
<td><strong>B) Turbo Braid - 7/64”</strong>&lt;br&gt;G62148 1,312’&lt;br&gt;White/Blue</td>
<td>9 Mixed metal strands&lt;br&gt;Superior heavy duty strength</td>
<td>8kV 7.5kV 7.1kV 125</td>
<td>•</td>
</tr>
<tr>
<td><strong>C) Turbo Wire</strong>&lt;br&gt;G62054 656’&lt;br&gt;G620564 1,312’&lt;br&gt;G62089 2,624’</td>
<td>9 Mixed metals&lt;br&gt;Best suited to distances more than 1/4 mile, where extreme power is required&lt;br&gt;40 times more conductive than standard Poly Wire</td>
<td>8kV 7.5kV 7.1kV 130</td>
<td>•</td>
</tr>
<tr>
<td><strong>D) Poly Wire</strong>&lt;br&gt;G62004 656’&lt;br&gt;G620300 1,640’</td>
<td>6 Stainless steel strands&lt;br&gt;Best suited for distances under 1/4 mile</td>
<td>5kV 2kV 1kV 6,000</td>
<td></td>
</tr>
<tr>
<td><strong>E) .5” Turbo Tape</strong>&lt;br&gt;G62354 656’&lt;br&gt;G62356 1,312’</td>
<td>Mixed metals 30x's more conductive&lt;br&gt;Best suited for distances greater than 1/4 mile</td>
<td>7.8kV 7.1kV 6.4kV 250</td>
<td>•</td>
</tr>
<tr>
<td><strong>F) .5” Poly Tape</strong>&lt;br&gt;G62304 656’</td>
<td>6 Stainless steel strands for good conductivity</td>
<td>4.3kV 1.5kV 0.8kV 8,500</td>
<td></td>
</tr>
<tr>
<td><strong>G) 1.5” Turbo Tape</strong>&lt;br&gt;G624544 656’</td>
<td>15 mixed strands for ultra high conductivity&lt;br&gt;Reinforced edges for longer life &amp; open weave for low wind resistance</td>
<td>7.8kV 7.1kV 6.4kV 250</td>
<td>•</td>
</tr>
<tr>
<td><strong>H) 1.5” Poly Tape</strong>&lt;br&gt;G624044 656’</td>
<td>15 Stainless steel strands&lt;br&gt;Ideal for portable electric fences</td>
<td>4.3kV 1.5kV 0.8kV 8,500</td>
<td></td>
</tr>
<tr>
<td><strong>I) Equine Wire</strong>&lt;br&gt;G912064 1,000’</td>
<td>Ideal for horse fencing - safe and effective&lt;br&gt;Best for permanent fence - 12.5 g core&lt;br&gt;Med tensile galvanized wire - 10 Year warranty</td>
<td>7.7kV 7.5kV 22</td>
<td></td>
</tr>
</tbody>
</table>

* recommended for horses
Gallagher has a wide range of reels, portable posts and fence wires to make portable fencing easy and effective. Discover the best choice below to meet your needs.

**GEARED REELS**

**Geared Reel**
- G61150 Reel with no wire
- G61156 Pre-wound Reel with 1,312’ Turbo Wire

*Securely attach to wire or ATV with locking device*

Most popular option for fast winding (2.7:1) on standard length portable fences.

Approx. capacity: .31 mile Poly Wire, .25 mile Turbo Wire or .125 mile Tape.

**Geared Large Reel**
- G63150

Larger capacity for bigger paddocks

Approx. capacity: .74 mile Poly Wire, .62 mile Turbo Wire or .25 mile Tape.

**REEL ACCESSORIES**

**Reel Stand**
- 3’ 1-3 reels G63300

Rust resistant steel, tread-in post for holding up to 3 reels for strip grazing and temporary fencing. Includes chain for securing to a post.

**Wire Guide**
- G61200

Reel guide replacement, for tangle free operation.

**POWER CONNECTORS**

UV resistant leads connect a portable fence to a permanent fence.
Electric Fence Configuration Guide

Selection of the right fencing systems depends on property size, fencing usage and animal type. Use this electric fence guide to help you configure your fence based on your usage and the animal(s) you will be fencing.

1. Permanent High Tensile Fencing
   Permanent electric fences for highly effective animal control that lasts a lifetime.

2. Permanent Equine Fencing
   Safety & visibility are key for more unpredictable animals like horses. Gallagher has specialized products for your horse's welfare.

3. Offset Fencing
   Extend the life of an existing conventional non-electric fence by retrofitting an electric wire.

4. Temporary/Portable Fencing
   Easy to transport, assemble and take down for short-term animal control or rotational grazing.

Basics of Permanent (1 & 2) & Offset Fencing (3)

- **End strain assembly** provides an insulated attachment between the wire and the strainer posts at each end of the fence.
- **In line straining** allows the fence to be tensioned and re-tensioned as and when required.
- **Insulators** attach the fence wire to the posts, keeping the wires at the correct spacing and height.

Basics of Temporary/Portable Fencing (4)

- **Reels** hold the tape, braid or wire for the portable fence. You can use just one reel for single line fences or up to three reels, attached to a reel stand, for multiwire fences.
- **Power Connectors** are leads that connect a portable fence to an existing permanent electric fence.
- **Posts** are lightweight yet sturdy. Pigtail and Ring Top posts are most popular for cattle fences and multiwire treadins are used for all livestock fences.
- **Offsets** specific to Offset Fencing (C), hold the electric wire off the existing non-electric fence wire or posts on a conventional fence line.

**Fence Wire Types**
- **Galvanized wire** for longer life, high tensile fences.
- **Braid/Tape** economical, semi-permanent alternative.
- **Double insulated cable** carries power between the energizer & fence as well as under gates.
Permanent High Tensile Fence

High tensile wire systems create long life, permanent electric fences. They are easy to install and operate and provide highly effective animal control that lasts.

Permanent fences use highly conductive, corrosion resistant fence wire together with the wood, t-posts, fiberglass posts and high strength components to keep fences looking good and working effectively for a life time.

Once you’ve chosen your products, see below for the recommended permanent electric fence set up for cattle, pigs, sheep and goats.

Cattle

- 23-33’
- 14”
- 14”
- 14”

Pigs, Sheep, Goats

- 23-33’
- 10”
- 10”
- 6”
- 6”
- 6”

High quality, long lasting electric fences cost less than other traditional fencing options.

Gallagher’s Insulated Line Post makes fence construction easy giving a low maintenance and attractive fence.

Animals quickly learn to respect electric fences and keep away - so the fence looks good for longer, and your investment is protected.
2. Permanent Horse Fence

Horses are lively and at times unpredictable, so keeping them safely contained is paramount. A Gallagher equine fence is a safe, reliable and highly visible solution designed to ensure your horses’ welfare.

Three options are commonly used for long term equine electric fencing – a permanent fence using the new Equine Fence Wire, semi-permanent Tape or Braid fences.

Once you’ve chosen your products, see below for the recommended permanent electric fence set up for horses.

Fence Set Up

Equine Fence Wire is the safest, most effective electric fence for your horse. This long life, high tension fence uses specially designed wire coating to reduce risk of injury.

Turbo Braid can be used as a low tension semi-permanent fence alternative to Equine Fence Wire. Braid is designed not to tangle or overstretch and is easy to install.

A semi-permanent Tape fence is highly visible, simple to construct and will last years, making this type of fence an economical and popular choice for horse owners.
3. Offset Fencing

Offset brackets are fitted to a conventional fence with an electrified wire (or wires) on one or both sides of the fence. The wire discourages animals from biting or rubbing against the fence, thereby extending its life.

A variety of offsets are available to attach to wood post or t-post fences, or to mount directly onto the wires of an existing conventional fence (barbed wire, chain link, etc).

Once you’ve chosen your products, see below for the recommended offset electric fence set up for cattle, sheep, pigs, goats and horses.

**Offset electric fencing** is an economical and easy to install option if you have an existing or new non-electric fence that you want to protect.

Offsets come in many options including Porcelain. Porcelain insulators will not break down due to sun damage and are resistant to fire.

A side mount pigtail offset is a popular option for wood post fences. The side placement is ideal for smaller animals like sheep.

Offsets provide added protection for traditional fences. This protects your fence investment and extends the life of the fence.
4. **Temporary & Portable Fencing**

A temporary/portable electric fence can be powered by any Gallagher Solar or Battery Energizer or can be simply connected to a permanent electric fence supplied by a 110v powered Energizer.

As portable fencing is so easy to move and set up it's a versatile solution for fencing any type of animal, even on the most remote area of your property.

Once you've chosen your products, see below for the basics you'll need for portable fencing and the recommended fence set up for cattle, sheep, pigs, goats and horses.

---

**Fence Set Up**

- **Reels** hold the tape, braid or wire for the portable fence. You can use just one reel for single line fences or up to three reels, attached to a reel stand, for multiwire fences.

- **Posts** are lightweight yet sturdy. Pigtail and Ring Top posts are most popular for cattle fences. Multiwire treadins are used for all other animals.

- **Power Connectors** are leads that connect a portable fence to an existing permanent electric fence.

- **Tapes, Wires and Braids** are used on portable fences rather than the galvanized wire used on permanent fences. Gallagher conductors are ideal for portable electric fences as they are light, visible and easy to wind.

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**Cattle (no calves)**

- 23-33’
- 28-35”

**Pigs, Sheep, Goats, Calves**

- 23-33’
- 8”
- 10”
- 8”

**Horses**

- 23-33’
- 24”

*Note: Wire spacing will differ depending on the type of post used.

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The multiple lugs on Multiwire Treadins allow attachment of a number of wires at different heights to accommodate a variety of animal types.

Ring Top Posts are a popular choice for cattle farmers. A single electrified wire is sufficient to contain even the most temperamental animals.

The Smart Fence 2, is an all-in-one portable fence. This instant fence system combines posts, reels and wire in one easily transportable package.
## Permanent Insulated Line Post, Clips & Tools

**Post Driver**

G52501 - A specially designed driver for the Insulated Line Post.

**Pressure Plate**

G54301 - Prevents Insulated Line Post from sinking on hills due to fence tension on abrupt rises. Great for wet ground.

**Line Post Sleeve**

G53002 - 45" - The Line Post Sleeve prevents flex when driving Insulated Line Posts into hard ground.

**Line Post Lifter Attachment**

G52701 - Attaches to most Steel Post Pullers/Lifters to safely pull out the Insulated Line Post from the ground.

**Fiberglass Stay Clips**

G70200 - Made of galvanized mild steel. The tight tie prevents slipping.

**Fiberglass Post Clips**

G704004 - Made of galvanized, mild steel. Fast and easy design to use.

### Simple, low cost installation

- Lightweight, no machinery needed.

### Perfectly insulated

- UV protected polyethylene limits fence faults that often result in a loss of power.

### Multiple Configurable Wire Heights

- Pre-formed wire attachment locations enable customized fence configurations.

### Highly durable

- The strong yet flexible solid fiberglass core enables posts to flex when the fence is impacted, preventing broken or bent posts. 10 Year warranty.

### Long Life

- High quality materials ensure a long life. A UV protected polyethylene sheath protects fiberglass from UV damage.

### FLEXIBLE POSTS

- The strong yet flexible solid fiberglass core enables the post to flex when the fence is impacted, preventing broken or bent posts, and minimizing animal injury.

### STRONG GROUND ANCHORING

- The multi-flanged foot design ensures strong ground anchoring, reducing the likelihood of post misalignment over time.

### HIGH STRENGTH CLIPS

- GF nylon "snap-on" clips form a reliable connection — typically twice as strong as most conventional wood or steel post insulator systems.

### MULTIPLE CONFIGURABLE WIRE HEIGHTS

- Pre-formed wire attachment locations enable many different fence configurations.

### EASY TO TRANSPORT

- Light, smooth and compact. Can be transported inside the farmer’s vehicle which further reduces costs.

### FIBERGLASS FENCE POST

- Often used in feedlots or near buildings where animals may be pushed into the fence. These posts are pre-drilled every 2” for convenient wire spacings with exception of bottom 18” on FRP60, FRP66 and FRP72.

25 Year UV protection warranty.

**7/8” Fiberglass Fence Post**

- AFRP48 - 48”
- AFRP66 - 66”
- AFRP60 - 60”
- AFRP72 - 72”

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**Permanent Posts**

- G74203 - 37" (excludes foot) - 10 Pack
- G74213 - 47" (excludes foot) - 10 Pack
- G74223 - 55 1/2" (excludes foot) - 10 Pack
- G74434 - Bag of 20 Wire Clips
- G74703 - Bag of 20 1 1/2" Tape Clips

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**Pressure Plate**

G54301 - Prevents Insulated Line Post from sinking on hills due to fence tension on abrupt rises. Great for wet ground.

**Line Post Sleeve**

G53002 - 45" - The Line Post Sleeve prevents flex when driving Insulated Line Posts into hard ground.

**Line Post Lifter Attachment**

G52701 - Attaches to most Steel Post Pullers/Lifters to safely pull out the Insulated Line Post from the ground.

**Fiberglass Stay Clips**

G70200 - Made of galvanized mild steel. The tight tie prevents slipping.

**Fiberglass Post Clips**

G704004 - Made of galvanized, mild steel. Fast and easy design to use.
**Tumblewheel**

G63800

Enables you to quickly and easily roll a fence line to a new position. The Tumblewheel’s unique center hub maintains power while the fence is being moved. It can also be used on flat, very hard and frozen ground. The legs remain live except for the two legs that are on the ground.

Where several breaks are needed in one paddock, Tumblewheels are ideal for quick and efficient rationing of grass. This fence consists of a number of electrified ‘wheels’ spaced across the pasture. Fences up to 660’ and is easily managed from one end. 66’ spacing of Tumblewheels is achievable on level ground.

The wheels are held upright with the tension of the single line fence which passes through the center. When one or both ends of the fence is moved, the wheels roll along. When you stop, the fence stops.

**POSTS** (All heights are from the foot)

**Standard Pigtail**
G64219
Ideal for softer ground, welded foot design reduces tangling.

**Heavy Duty Pigtail**
G84245
Ideal for hard ground. 42” (including spike).
Crimped foot to ensure shaft strength.

**Fiberglass Rod Post**
A385 - White
.375” x 48”. Made of highly visible white fiberglass.
Use with A636 Quick Clip.

**Double Foot Treadin**
G72413
This very study and durable plastic post is 42” high (including spike) with 9 numbered lugs designed for virtually all animal types.

**Heavy Duty Treadin**
G636054 White
G63655 Orange
UV stabilized plastic treadins with up to 9 lugs for positioning wires and tape.
42” high (including spike)

**Fiberglass Rod Post**
A635 - White
.375” x 48”. Made of highly visible white fiberglass.
Use with A636 Quick Clip.

**Pigtail Standards** – the most popular option for dairy & beef cattle

**Multiwire Treadins** – multiple lug positions for many animal types

**Ring Top Post**
G72315

With a head that will not wear through, a super strong foot plate that will not bend under pressure and a sleek design that significantly reduces tangling, the Ring Top Post combines more strength with less frustration. 33” in height.

No more tangled posts!

Super tough over-moulded nylon prevents wear and eliminates risk of shorting

Long insulation section strengthens shaft and help prevent shocks when handling

Post mount can attach S10/S16/S20 Solar Energizers to a Ring Top Post. See page 44.

Rod Post Screw-on Claw Insulator 3/8” fits Ring Top Post for additional wires. See page 28.

Over-moulded Nylon foot design will not bend. Easier to put weight onto and punctures the ground

Long grip section for holding post while picking up live fence wire – reduced chance of shock

Optimized foot size with tread grip for ease of install and minimal entangling points

Blade design to prevent rotation and ease of installation in hard ground

Special flat section to hold wire/tape when fence is held down for access – no cut/no shorting
How to compare under gate cable

Choosing higher conductive under gate cable will ensure maximum power transfer between the two fence sections. Look for the lowest resistance rating per mile.

Soft cable is easier to strip while hard cable offers the best protection in the ground (note Gallagher recommends cable be installed through pipe for ultimate protection, especially in rocky ground).

**ELECTRIC GATE HANDLES**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Duty Gate Handle G639304</td>
<td>Flat hook for maximum electrification and extra safe handle which pulls out on impact. Heavy-duty tension spring.</td>
</tr>
<tr>
<td>Gate Handle G691104 (White)</td>
<td>Large shield on handle to protect from shocks.</td>
</tr>
<tr>
<td>Gate Handle G689404 (Green)</td>
<td>Highly visible green insulated handle. Large shield on handle to protect from shocks.</td>
</tr>
<tr>
<td>Insulgrip G606304</td>
<td>Insulated hook for quick and secure attachment of portable fences.</td>
</tr>
<tr>
<td>Rubber Grip Gate Handle G69603</td>
<td>Premium gate handle with comfortable rubber grip handle, and unique internal overstretch protection.</td>
</tr>
</tbody>
</table>

**SINGLE STRAND KITS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric High Visibility Spring Gate G64010</td>
<td>Highly visible electrified gate with insulated gate handle. Gate width is up to 16.5’. Kit includes: insulator 3-way gate anchor, gate handle and all metal galvanized and powder coated spring.</td>
</tr>
<tr>
<td>Electric Tape Gate G64100</td>
<td>White 1.5” tape and insulated gate handle for high visibility. Gate width is up to 16.5’. Includes stainless steel tape joiners.</td>
</tr>
</tbody>
</table>

**GATE ACCESSORIES**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi Post 3-Way Gate Anchor G869114</td>
<td>Super strong live anchor for up to three gates coming to a junction. Ideal for use in gateway systems at the intersection of multiple paddocks.</td>
</tr>
<tr>
<td>One-Hand Gate Latch F0202U</td>
<td>Includes two staples and a 1.4” chain that is easy to attach and can be padlocked. Made from silver zinc passivate material.</td>
</tr>
<tr>
<td>Bungy Cord Roll G89106</td>
<td>Replace existing bungy gate cord. 165’ roll.</td>
</tr>
</tbody>
</table>
OTHER GATE KIT OPTIONS

Multi Strand Gate
G71804 4 Strand 26’ (sheep)
A low cost, all-in-one permanent electrified gate option with multiple live strands, for practically any width gateway. It’s easy to setup and use - open/ close with one hand.

- Two or four strand option: Two strand for cattle and four strand for sheep
- Extendable tape lengths to fit desired gate width. Holds .5” tape (included) or 1.5” tape (clips included)
- Quick and easy to install. Simply attach to existing gate posts using supplied mounting hardware
- Simple, safe electrification as a live hook provides power to gate when closed and disconnects power when opened
- Easy to repair. If one strand breaks, simply change out the tape

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GATE ACCESSORIES

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0042U</td>
<td>.625”</td>
<td>1.625”</td>
<td>4”</td>
</tr>
<tr>
<td>F0046U</td>
<td>.75”</td>
<td>2”</td>
<td>4”</td>
</tr>
</tbody>
</table>

This zinc coated locking arm prevents the gate hanger from turning in the post.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0023U</td>
<td>.625”</td>
<td>1.625”</td>
</tr>
<tr>
<td>F0029U</td>
<td>.75”</td>
<td>2.75”</td>
</tr>
</tbody>
</table>

This zinc coated long pin (B) makes gate hanging easier by allowing the gate to slide down the long pin before engaging a short bottom pin. The long pin can be padlocked.
Netting & Electric Fence Kits

Poultry Net

- 48” High prefab electrical fence with 12 horizontal lines
- 164’ Long

ElectroNet

- 35”x 164’ Roll
- 8 conductive horizontal wires
- White plastic vertical struts every 12”
- Roll complete with all posts, just unfold and set the posts
- Impenetrable mesh fencing for sheep, goats, coyotes and dogs

Pos/Neg ElectroNet

- 35” Tall prefab fence with vertical struts every 12”
- 164’ Long
- For dry areas; good for sheep, goats and cattle
Smart Fence 2  G70000

A quicker and easier all in one instant fence system, the Smart Fence 2 re-defines portable fencing.

- Instant portable fence system
- Easy to carry and store away
- Highly effective safe animal control
- System includes 4 wires, 10 posts, 328’ length
- Compatible with Gallagher Energizers - Energizer is not included

Horse Corral Kit  A155

A light weight (16 lb), complete in a bag kit for a 40’ square corral. Quick and easy to assemble. Great for pack trips, horse shows or any event requiring a temporary enclosure.

- 1 B11 Energizer
- 1 Insul-Grip Gate Handle
- 1 Turbo Braid Spool
- 1 Ground Rod
- 10 Pigtail Posts

Garden & Backyard Protection Kit  A600

This kit is an easy do-it-yourself electric fence that fences a 50’ x 50’ area with three adjustable wires. It is a perfect fit for a residential consumer that is interested in an easy and affordable way to protect their garden, landscape or new plantings. Essentially tool-free and can be installed in 1 hour or less. Energizer operates on common ‘D’ cell batteries - no electric outlet or extension cord is used.

- 8 - 48” x 3/8” Fiberglass Posts
- 2 Bags 3/8” Clips
- 1 Poly Wire 656’
- 1 - 3’ Ground Rod
- 1 B10 Energizer
**Fence Tools & Fence Accessories**

### Fence Tools

<table>
<thead>
<tr>
<th>Tool Name</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fencing Pliers and Wire Cutter</td>
<td>G52200</td>
<td>Specifically designed for cutting, stripping and bending electric fence wire with minimum wire damage. <strong>Pay Out Spinner</strong> A306: A necessity for building permanent fence. The adjustable break keeps wire from overwinding and it attaches to a 2” receiver.</td>
</tr>
<tr>
<td>Strainer Handle G69530</td>
<td></td>
<td>Spring loaded ratchet strainer handle for quick adjustment of wire strainers (fits most varieties of ratchet strainers). <strong>HD Spinning Jenny A309</strong>: Accommodates all standard wire sizes. Adjustable break keeps wire from overwinding.</td>
</tr>
<tr>
<td>In Line Wire Tightener</td>
<td>A644</td>
<td>Tightener handle for Gallagher in-line wire strainers (G64304). <strong>Spinning Jenny A305</strong>: Accommodates up to a 100 lb. roll of wire.</td>
</tr>
<tr>
<td>Ratchet Wire Tightening Tool G645004</td>
<td></td>
<td>In line wire tightener handle with super smooth ratchet action, to be used with Gallagher in-line wire strainers (G64304). <strong>Wire Payout Spinner A304</strong>: Adjustable break keeps wire from over-winding.</td>
</tr>
<tr>
<td>Wire Twisting Tool G523004</td>
<td></td>
<td>Ideal for installing clips on posts and droppers. <strong>Drill Chuck G71300</strong>: Drill chuck for #G66604 Screw-In Ring Insulators.</td>
</tr>
<tr>
<td>4 Groove Wire Crimping Tool A609</td>
<td></td>
<td>20” Long 4-groove, robust tool for crimping wire joiners and splicing wire. <strong>Post Mount G57110</strong>: Used to mount S10, S16 &amp; S20 Solar Energizers to Ring Top Posts.</td>
</tr>
<tr>
<td>2 Groove Wire Crimping Tool A609A</td>
<td></td>
<td>2 Groove, robust, tool for crimping wire joiners and splicing wire.</td>
</tr>
<tr>
<td>High Tensile Wire Cutter G524</td>
<td></td>
<td>9” long high tensile wire cutter.</td>
</tr>
<tr>
<td>Poly/Turbo Wire Tensioner AXTB</td>
<td></td>
<td>Holds Poly Wire, Turbo Wire, .5” Poly Tape, .5” Turbo Tape and Turbo Braid.</td>
</tr>
<tr>
<td>Warning Sign G602404</td>
<td></td>
<td>A highly visible sign that warns that a fence is electrified. Required by law, to be used on boundaries and anywhere else public have access to a fence.</td>
</tr>
</tbody>
</table>

Fence construction is made easy with Gallagher’s range of durable, easy to use fence tools.
# Gallagher Weighing & EID Systems

## Features

<table>
<thead>
<tr>
<th>Features</th>
<th>TSi2</th>
<th>TWR-5</th>
<th>TW-3</th>
<th>TW-1</th>
<th>W210</th>
<th>W110</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATION &amp; DATA COLLECTION</strong></td>
<td></td>
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<tr>
<td>Manual and automatic weight locking options</td>
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<td>Internal rechargeable battery</td>
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<tr>
<td>Compatible with Gallagher Loadbars and Heavy Duty Loadbars</td>
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<tr>
<td>Assign visual tag against weight and EID number</td>
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<tr>
<td>Calculates average daily weight gain and carcass weight</td>
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<td>•</td>
</tr>
<tr>
<td>Max number of weigh records</td>
<td>1,000,000+</td>
<td>1,000,000+</td>
<td>1,000,000+</td>
<td>1,000,000+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of traits recorded per session</td>
<td>20</td>
<td>9</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual animal notes and weight recorded</td>
<td>•</td>
<td>•</td>
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<tr>
<td>Multiple custom trait definitions (i.e. condition score, genetics etc.)</td>
<td>•</td>
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<tr>
<td>Weight based calculations (eg dose weight)</td>
<td>•</td>
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<tr>
<td>Advanced customized calculations based on recorded animal data</td>
<td>•</td>
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<tr>
<td>Review full animal history in the yard</td>
<td>•</td>
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<tr>
<td>Manage treatments and associated withholding periods</td>
<td>•</td>
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<tr>
<td>View animal pedigree information in graphical family tree</td>
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Entry Level Weigh Scales

Weigh Scale Indicator W110

Easy collection of weights for livestock & general purpose weighing

Includes Weigh Scale Indicator, Mount Bracket & Loadbars

- Tough construction for all weather outdoor use
- Battery powered convenience (4 x AA batteries sold separately)
- Plug and play system enables easy portability
- 3,300 lb weighing capacity
- 2 Year warranty

Use Gallagher scales and electronic identification readers to maintain records and prepare your livestock for shows & competitions.
W210

Easy collection of weights for livestock & general purpose weighing

- Tough, shock and waterproof case
- Large labeled push buttons
- Large rotary dial
- Three weighing modes for quick and easy weighing: auto, manual and fine
- Compatible with most loadbars
- Internal rechargeable battery
- Large, easy to read display
- Simple operation

W210 Package

Entry level weighing system for producers. Get it all in one package deal!

Includes: W210 Indicator, Alleyway Loadbars, and Platform.

See page 51 for Alleyway Loadbar and Platform details.

Weigh scales offer a quick return on investment, that is usually seen within the first year of installation.
TW-1 Weigh Scale Indicator

Simple to operate, touch screen weigh scale. Collect data to optimize animal performance.

- Bright, high clarity, daylight readable color touch screen
- Simple to use interface
- On screen product manual
- Flexible mounting options
- Multiple connectivity options
- Set animal notes and alerts
- Draft by weight, weight gain or EID list
- Built in graphs and data analysis at your fingertips
- 1 year warranty

Market leading touch screen technology - Full color, outdoor readable touch screen. Large 7” screen, shows weight and gain information in an easy to read font.

Animal data analysis on device - Shows individual weight gain graphs, as well as weight distribution plots for all animals within a weighing session.

Ultimate user experience - Design of the scale and execution of common tasks have been rigorously tested to ensure the scale is easy to navigate and that we are able to deliver the best customer experience on the market.

On board help, 24/7 - The entire product manual is loaded into the product. No matter where you are, or what you are trying to do help is only one click away.

Animal notes and note alerts - Record notes against animals on the spot for later review. Notes alert the operator when the animal’s tag is read.

Tough, rugged exterior - Toughened, scratch proof glass screen makes it suitable for all environments.

Flexible connectivity options - Whether connecting to drafters or readers via a serial cable, to a PC via USB or utilizing the Bluetooth and WiFi wireless options, the TW-1 has every option available.

The TW-1, TW-3 & TWR-5 come in a heavy duty bag, conveniently packaged and ready to go - Just connect to your Gallagher loadbars and you have everything you need to start weighing:

- Tough and convenient Gallagher carry case
- Mounting bracket
- Micro-fiber screen cloth
- Battery charging cable
- 110v charging cable
- USB drive loaded with APS software
- USB cable for data transfer to PC
**TW-3 Weigh Scale Indicator & Data Collector**

Simple to operate, touch screen weigh scale. Collect data to optimize animal performance.

All the features of the TW-1 plus:

- Full QWERTY keyboard
- Record weight, life data and traits. Ideally suited to producers wanting to record and review more information than simply the weight of their animals. Can record up to three traits per session
- Record treatments on the spot. Animals can be weighed and administered the correct dose rate and the information recorded on the weigh scale at the time of treatment
- You can draft by weight or recorded trait and/or life data. Recorded data draft examples: bred, preg or open, lot or pen, property, breed, sex or color

**Market leading touch screen technology**
- Full color, outdoor readable touch screen.

**On board help, 24/7**
- The entire product manual is loaded into the product. Help is only one click away.

**Record treatments on the spot**
- Animals can be weighed and administered the correct dose rate, all recorded on the weigh scale at the time of treatment.

**Animal notes and note alerts**
- Record notes against animals on the spot for later review. Notes alert the operator when the animal’s tag is read.

**Record life data and traits**
- Ideally suited to producers wanting to record and review more information than simply the weight of their animals. Can record up to 3 traits per session.

**Ultimate user experience**
- Execution of common tasks have been rigorously tested to ensure that we are able to deliver the most customer friendly experience on the market.

**Flexible mounting options**
- Easy to use sitting flat, or mounted to a vertical surface. The adjustable mounting bracket allows you to easily tailor the viewing angle for optimum visibility.

**Tough, rugged exterior**
- Operator ready, tough design.

---

**TWR-5 Weigh Scale & EID Reader**

Simple to operate, touch screen weigh scale. Advanced data collection to optimize animal performance.

All the features of the TW-1 & TW-3 plus:

- Built in EID Reader connects to panel antennas (panel antennas not included)
- Can record up to 9 traits per session
An animal weighing and data collection system for improved livestock management and performance. The TSi 2 provides immediate access to detailed animal information, anywhere, at any time - in the sale barn, the office or on the ranch.

**TSi 2 G01901**

**FASTER PROCESSOR, MORE MEMORY, IMPROVED SCREEN**

**Rugged exterior** - Tough ranch/farm ready design for all-weather use.

**Rapid, accurate, automatic weight capture.**

**Customizable sessions** - Easily customize weighing and data recording sessions to collect specific traits, activities, notes etc.

**Simple recording and retrieval**
Collection of comprehensive data and retrieval of information at the touch of a button, while in the yard.

**Intuitive software** - Supplied with award-winning Animal Performance Software (APS Professional), for analysis and reporting to provide virtually any information you need.

**Touch screen** - Full color outdoor readable touch screen with large touch buttons.

**Comprehensive drafting** - Draft by weight, EID number or custom defined rules.

**Significant memory capacity** - Entire life history of all animals stored for on-site viewing - over one million animal records can be stored.

**Exceptional connectivity** - Bluetooth wireless connection and full integration with loadbars, EID readers, auto drafters and other management software.

**Comes with carry case, memory stick and mounting bracket.**

Dimensions: 14” (w) x 11” (d) x 3.5” (h) 29 lbs (excluding power supply)

**ANIMAL PERFORMANCE SOFTWARE (APS PROFESSIONAL INCLUDED)**
Analyze data and upload in three easy steps.

**Easy transfer data** - WiFi enabled to allow upload of data directly to web and share with third parties.

**Comprehensive drafting** - Draft by weight, EID number or custom defined rules.

**Customizable sessions** - Easily customize weighing and data recording sessions to collect specific traits, activities, notes etc.

**Bluetooth Communication and WiFi**

**Power**

**RS232 Ports x 2**

**Loadbar Connectors**

**USB Ports**

**Loudspeaker**

**Internal Battery**

**Faster processor**

**More memory**

**Improved screen**

**ANIMAL PERFORMANCE SOFTWARE**
(APS PROFESSIONAL INCLUDED)
Analyze data and upload in three easy steps.
Aluminium Platform

- A high-strength platform designed to fit Gallagher 4,400 lbs. alleyway loadbars and most other branded loadbars
- Combine strength and portability to reduce the time and hassle involved in setting up weighing sessions
- Dimensions: 86.5” long, 24.5” wide; Platform weighs 49 lbs.

Alleyway Loadbars

- 4,400 lb weighing capacity in 23” length
- Rugged galvanized steel chassis
- Bottom feet-mounting holes extend beyond top covers for ease of bolting down
- Slotted top-mounting holes fit most sizes of platforms
- 19.6’ long, tough polyurethane loadbar cables with spring wire protection
- Fitted with high quality, moisture proof connectors
- Fully water resistant
- No rubber mounts
- 2 Year warranty

Heavy Duty Loadbars

- 7,700 lbs weighing capacity in 39” length
- High capacity load cells are able to withstand large shock loads
- Heavy galvanized steel chassis construction to withstand the harshest environments
- Bottom feet-mounting holes extend beyond top covers for ease of bolting down
- 19.6’, tough polyurethane loadbar cables with spring wire protection
- Fitted with high quality, moisture proof connectors
- Fully water resistant
- No rubber mounts
- Designed for a manual squeeze chute
- 2 Year warranty

Super Heavy Duty Loadbars

- All of the features of the Heavy Duty Loadbars but have 9,900 lbs weighing capacity in 39.3” length. These loadbars are made from galvanized steel and are powder coated
- Designed for manual chute or hydraulic chute
- 2 Year warranty

Heavy Duty Weigh Feet Kit

- Five tough, stainless steel weigh feet for easy mounting under cattle chute and custom platforms. One extra loadcell supplied in kit for easy replacement and no down-time
- 11,000 lbs weighing capacity
- Fast and easy loadcell replacement without major lifting
- High accuracy corner to corner performance for demanding weighing requirements
- Designed for manual chute or hydraulic chute
Smart Reader Electronic Controllers

- BR Series automatically provides ID number to Weigh Scale Indicator enabling accurate collection of individual sheep weights.

Cattle automatically identified by BR Series as they enter the handler.

Integrated BR Series and Weigh Scale Indicator system on cattle handler.

Smart Reader Panel Antennas

- Suitable for walk past identification applications
- HDX and FDX-B ISO compliant panel
- Waterproof antenna panel
- Mounting hardware supplied
- Can be used with either electronic controller above

Large Panel Antenna
Dimensions: 23.5" W x 51.5" H

Small Panel Antenna
Dimensions: 15.75" W x 23.5" H

R Series Electronic Controller

- Electronic controller for livestock identification
- Requires external 12 volt power source (not included)

BR Series Electronic Controller

- Battery powered electronic controller for livestock identification
- Internal rechargeable battery
- Easy to read battery charge indicator
- Internal memory stores 20,000 tags
- Tag counter display screen records animals scanned
- Download stored records to computer
- Replacement battery A738

HDX and FDX-B and ISO Tag compatible
No antenna tuning required
Can be used with either antenna panel below

SCALE ACCESSORIES

20' Loadbar Extension Cables
- 4,400 lbs Loadbar (G05000)
- 7,716/9,900 lbs Loadbar (G05100)
- 20' long, tough polyurethane loadbar cables
- Fitted with high quality, moisture proof connectors

15' Double Antenna Cables
- Double antenna cables designed to link two panels to one reader.
- G05606 - Use with small and large antenna panels.

110V Adaptor 2M1695
Scale Bracket 4G2209
Gallagher Hand Held EID Tag Readers are the perfect tool for portable EID data collection.

**HR5**
G03303

Record, edit and customize data anywhere.

- Large display clearly shows visual ID and EID tag numbers to confirm the correct animal information is being collected.
- Choose multiple traits to record against each animal such as breed, sex, condition score and pregnancy status.
- Sort group name is highlighted on the screen for easy reference with optional group colors.
- View past traits, activities and life data recorded against an animal.

**Compatible** - Compatible with Gallagher and other brands of EID capable weighing data collectors.

**Large easy to read screen** - 2.8” backlit color display with high resolution large graphics – easy to read indoors and out.

**Fast and continuous reading** - with one trigger click.

**Market leading ergonomic design** with long reach and hand guard for maximum operator safety.

**LED, vibration and beeper** - to show tag read successful.

**Pair with other devices** - Easily search and connect via Bluetooth to other devices.

**Receive animal weights from TW-1 and TW-3 via Bluetooth (HR5).**

**Simple connectivity** - includes PC and charging cables.

**FREE ANIMAL DATA TRANSFER APP**
Transfer animal data using your Gallagher Hand Held EID Tag Reader and Android or Apple phone.

**ANIMAL PERFORMANCE SOFTWARE**
(APS STANDARD INCLUDED)

**HR4**
G03302

Easy recording of pre-defined animal data against EID tag numbers.

- Large display clearly shows visual ID and EID tag numbers to confirm the correct animal information is being collected.
- Choose multiple traits to record against each animal such as breed, sex, condition score and pregnancy status.
- Sort group name is highlighted on the screen for easy reference with optional group colors.
- View past traits, activities and life data recorded against an animal.

**LED, vibration and beeper** - to show tag read successful.

**Fast and continuous reading** - with one trigger click.

**Receive animal weights from TW-1 and TW-3 via Bluetooth (HR5).**

**Simple connectivity** - includes PC and charging cables.

**FREE ANIMAL DATA TRANSFER APP**
Transfer animal data using your Gallagher Hand Held EID Tag Reader and Android or Apple phone.

**ANIMAL PERFORMANCE SOFTWARE**
(APS STANDARD INCLUDED)
Strong, safe and instant power for an effective, durable and inexpensive option to keep livestock moving, wet or dry.

**Heavy Duty** SG240
- Two year warranty
- Balanced and comfortable hand grip
- Safety wrist strap with button locking clip
- Sealed replaceable motor
- Moisture proof one piece handle

**Standard** SG150
- One year warranty
- Disposable batteries included

**Stock prod shafts**
- 32” SG082
- 36” SG091
- 42” SG107

- Large attachment nut to help reduce breakages
- Brass contact points for positive results
- One year warranty

*Note: Length includes handle*

**54” Sorting Pole** SG006
- Orange fiberglass shaft
- Heavy duty rubber tip
- Golf grip handle

**48” Sorting Paddle** SG007
- Noise makers inside
- Golf grip handle

**Handy Shock** SG001
- Only 9.4 ounces
- Pocket size
- Includes 4 “AA” batteries
- 1 Year warranty
Miraco Watering Tank Systems

Miraco has been offering healthy, clean, fresh livestock water systems to producers since 1974.

Miraco tanks can withstand cold temperatures without freezing. 5 Year warranty offered on all Miraco Tanks. Poly construction makes these tanks durable. Multiple color options available on select tanks.

Miraco perfected energy-free watering systems and was the first to manufacture automatic livestock waterers from poly materials. Join other livestock producers who enjoy the innovative features of Miraco Livestock Watering Systems.

E-Fount Waterers

E-Founts are the most economical electric heat waterers available today.

All E-Founts come equipped with a 75 watt heat element and thermostat. E-Founts only require 4 kilowatts of electricity during a week of -25 F temperatures.

MiraFount Waterers

MiraFount Tanks were the first livestock tanks in the world to be developed energy free. These innovative tanks have 2-3” of urethane insulation and have extra installation above the valve area. Water stays cool in warm temperatures and does not freeze in cold conditions.
### Miraco Livestock Waterers

**MiraFount A3390**

- **Capacity:** 150 head beef
  60 head dairy
- **Gallons:** 44
- **Specifications:** Two 10” openings / 10.75” ball closures
- **Dimensions:** 43” x 29” x 27.5” (L x W x H)
- **Weight:** 129 pounds (58 kg)

- Split top-end panels can be easily removed to help get new cattle started fast. Or, remove the panels to provide more capacity for a few extra head. Stainless Steel anchor bolts are included

**E-Fount A3390-E**

- **Energy Efficient**
  **Heat Element:** 75 Watts

---

**MiraFount A3330**

- **Capacity:** 50 head beef
  25 head dairy
- **Gallons:** 15
- **Specifications:** One 8.75” opening / 9” ball closure
- **Dimensions:** 28” x 26” x 21” (L x W x H)
- **Weight:** 57 pounds (26 kg)

- Stainless Steel anchor bolts are included

**E-Fount A3330-E**

- **Energy Efficient**
  **Heat Element:** 75 Watts

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**MiraFount A3465**

- **Capacity:** 100 head beef
  40 head dairy
- **Gallons:** 20
- **Specifications:** Two 9.25” openings / 10” ball closures
- **Dimensions:** 36” x 24” x 18” (L x W x H)
- **Weight:** 79 pounds (36 kg)

- Stainless Steel anchor bolts are included

**E-Fount A3465-E**

- **Energy Efficient**
  **Heat Element:** 75 Watts

---

**MiraFount A3345-S**

- **Capacity:** 75 head beef
  30 head dairy
- **Gallons:** 30
- **Specifications:** One 10” opening / removable top
- **Dimensions:** 29” x 31” x 26.5” (L x W x H)
- **Weight:** 95 pounds (43 kg)

- Stainless Steel anchor bolts are included

**E-Fount A3345-E**

- **Energy Efficient**
  **Heat Element:** 75 Watts
**MiraFount A3354-S**

- **Capacity:** 200 head beef, 90 head dairy
- **Gallons:** 70
- **Specifications:** Four 6” openings / 7” ball closures
- **Dimensions:** 57.5” x 32.5” x 27” (L x W x H)
- **Weight:** 152 pounds (69 kg)

**E-Fount A3354-SE**

- **Energy Efficient Heat Element:** Two 75 Watt Heaters

**MiraFount A3340**

- **Capacity:** 100 head sheep
- **Gallons:** 15
- **Specifications:** Four 6’ openings / 7” ball closures
- **Dimensions:** 28” x 26” x 20” (L x W x H)
- **Weight:** 57 pounds (26 kg)

**E-Fount A3340-SE**

- **Energy Efficient Heat Element:** 75 Watts

**MiraFount A3410**

- **Capacity:** 100 market hogs, 50 sows
- **Gallons:** 6
- **Specifications:** Two lift up lids / 10” openings
- **Dimensions:** 34” x 19” x 16.5” (L x W x H)
- **Weight:** 57 pounds (26 kg)

**E-Fount A3410-SE**

- **Energy Efficient Heat Element:** 75 Watts

**MiraFount A3410-4**

- **Capacity:** 200 market hogs, 100 sows
- **Gallons:** 15
- **Specifications:** Four lift up lids / 10” openings
- **Dimensions:** 34” x 36.5” x 16.5” (L x W x H)
- **Weight:** 98 pounds (45 kg)

**E-Fount A3410-4E**

- **Energy Efficient Heat Element:** 75 Watts

- **Drinking Height:** Low drinking profile for small pigs
- **Two large drain holes with rubber plugs for easy cleaning**
Miraco Livestock Waterers

MiraFount

A3370-S

Capacity: 250 head beef
120 head dairy
200 cow/calf units
Gallons: 100
Specifications: Six 9.5” openings / 10.75” ball closures
Dimensions: 57.5” x 45.5” x 28” (L x W x H)
Weight: 216 pounds (98 kg)
• Features removable end panels to help get new cattle started fast or to provide more capacity for a few extra head. Two valves are provided for fast recovery

Lil’Spring

A2700

Capacity: 100 head sheep
Gallons: 6
Dimensions: 28.75” x 17.5” x 24.5” (L x W x H)
Weight: 40 pounds (18.15 kg)
Heat: Optional, 250-watt submersible heater (A160)

Lil’Spring Tank Waterers

Features:
• One-piece body polyethylene construction
• No sharp edges
• Tough high impact resistant “Rockite” material to stand up to livestock abuse
• Resistant to corrosion
• Removable dome for quick and easy access to the valve area
• 2-3” urethane foam insulation
• Molded base unit anchors (stainless steel anchor bolts are included with all models)
• Sloped bottom for easy cleaning
• Sealed bottoms
• Color options are available
• Optional heater may be added

Lil’Spring

A2800

Capacity: 20 head beef
20 head horses
Gallons: 4
Dimensions: 20” x 16” x 19” (L x W x H)
Valve: Miraco automatic plastic
Weight: 40 pounds (18 kg)
Heat: Optional 110-volt, 250-watt submersible heater (A160)
• 200 psi hose w/shut off valve included
• Attractive design; five color options: Gray, Standard Blue, Black or Hunter Green
Lil’Spring A2900

Capacity: 40 head beef
40 head horses
Gallons: 6
Dimensions: 30.5” x 16.5” x 19”
(L x W x H)
Valve: Miraco automatic plastic
Weight: 48 pounds (18 kg)
Heat: Optional 110-volt, 250-watt submersible heater (A160)

- 200 psi hose w/shut off valve included
- Anchor bolts are included
- Attractive design, five color options: Gray, Standard Blue, Black or Hunter Green

“I’m only interested in the best for my horses and Miraco watering systems are the best. These are strong, durable systems ergonomically designed to make it easy for the horse to get access to drink. Miraco products are also safe for the horse, and that’s really important to me.”

Curt Pate
World-renowned South Dakota horse trainer and clinician, film consultant and author

Recommended Installation Diagram

A 1” diameter line is recommended. The line should be buried 4’ deep or 1’ below the published frost line depth in your region.

Miraco recommends installing on a concrete platform that provides a 4-6” step and 18” around the perimeter of the unit. The concrete platform must be level to ensure optimal performance.
Lil’Spring A3000
Capacity: 30 head beef  
30 head horses  
50 head sheep  
Gallons: 5  
Dimensions: 24” x 22” x 15” (L x W x H)  
Valve: Miraco automatic plastic  
Weight: 48 pounds (22 kg)  
Heat: Optional 110-volt, 250-watt submersible heater (A160)

- 3” offset drain  
- Bottom drain for inside use, 2” threaded fitting underneath for PVC plumbing  
- Installs easily on most existing concrete pads.  
- Stainless steel anchor bolts included

Lil’Spring A3100DS
Capacity: 100 head beef  
50 head dairy  
Gallons: 8  
Dimensions: 36” x 22” x 22” (L x W x H)  
Valve: Miraco automatic plastic  
Weight: 75 pounds (34 kg)  
Heat: Optional 110-volt, 250-watt submersible heater (A160)

Lil’Spring A3200
Capacity: 150 head beef  
75 head dairy  
Gallons: 25  
Dimensions: 48” x 24” x 30” (L x W x H)  
Valve: Miraco automatic plastic  
Weight: 98 pounds (45 kg)  
Heat: Optional 110-volt, 250-watt submersible heater (A160)

- Large access panel for easy access to valve area with spring load clips  
- 3” offset drain  
- Access panels at both ends  
- Installs easily on most existing concrete pads  
- Constant flow available  
- Stainless steel anchor bolts included
### Lil’Spring A3500

- **Capacity:** 225 head beef, 110 head dairy
- **Gallons:** 40
- **Dimensions:** 42” x 42” x 26” (L x W x H)
- **Valve:** Miraco automatic plastic
- **Weight:** 145 pounds (65 kg)
- **Heat:** Optional 110-volt, 500-watt submersible heater (A162)
- 168” Drinking space
- Quick release valve access cover
- Diagonal valve compartment lets more cattle drink
- 24” hook-up hose with shut off valve
- Stainless steel anchor bolts
- 2 Bottom drains
- Teflon coated

### EquiFount Corner Mount A1100

- **Dimensions:** 16” x 16” x 14” (L x W x H)
- **Capacity:** 1 Horse
- **Gallons:** 1
- **Drinking Height:** 26” (66 cm)
- **Heat:** Optional 110-volt, 250-watt submersible heater (A276)
- Smooth rounded edges for safety
- Durable 100% polyethylene construction; urethane foam insulation
- Easy valve access; one-screw, quick water level adjustment
- Four-bolt installation
- Plumb from above or below
- Ample drinking space; plentiful water supply with minimal waste
- Large easy drain; no disassembly required
- Attractive design; five color options: Gray, Standard Blue, Black or Hunter Green

### EquiFount Wall Mount A1200

- **Dimensions:** 16” x 16” x 14” (L x W x H)
- **Capacity:** 1 Horse
- **Gallons:** 1
- **Drinking Height:** 26” (66 cm)
- **Heat:** Optional 110-volt, 250-watt submersible heater (A276)
- Smooth rounded edges for safety
- Durable 100% polyethylene construction; urethane foam insulation
- Easy valve access; one-screw, quick water level adjustment
- Four-bolt installation
- Plumb from above or below
- Ample drinking space; plentiful water supply with minimal waste
- Large easy drain; no disassembly required
- Attractive design; five color options: Gray, Standard Blue, Black or Hunter Green

### EquiFount Insulated Ext Tube A834-5

- Cold barns are not a problem for EquiFount waterers. This insulated extension tube allows water line to enter from below without freezing
- Rubber plug can be removed for access to water shut-off valve

**EquiFount features smooth rounded edges for safety with minimum intrusion on stall space**
BigSpring Waterers are the preferred choice of cattle & dairy producers

**BigSpring A6000**

- **Capacity:** 250 head beef
  100 head dairy
- **Gallons:** 60
- **Dimensions:** 90” x 33” x 24” (L x W x H)
- **Weight:** 215 pounds (97 kg)
- Optional 500 watt heater (110 or 220 volt - A162)
- Optional constant flow (30 or 60 gallon level)
- Water spray for attracting new cattle to water
- 3” (8 cm) drain hole with rubber plug for rapid cleaning
- Removable dome for easy access to valve area
- Spring-loaded clips - no wrenches required
- Rubber gasket for air-tight dome seal
- End panel access
- For cleaner water, neckrail to prevent cattle from standing in the water

**BigSpring A6100**

- **Capacity:** 110 head dairy
- **Gallons:** 60
- **Dimensions:** 80” x 36” x 24” (L x W x H)
- **Weight:** 205 pounds (93 kg)
- Optional 500 watt heater (110 or 220 volt - A162)
- Flat back design fits flush with the wall
- Center between stalls or place one on each
- Curved front for full, easy access - no wasted space
- Pour foundation with a curve for easier cleaning
- No wrenches required for valve compartment access
- Rubber gasket for air-tight dome seal
- Recommended installation on 10” concrete riser or with neck rail
- Optional gravity fill assembly available
- Stainless steel anchor bolts included
- For cleaner water, neckrail to prevent cattle from standing in the water

**BigSpring A6200**

- **Capacity:** 200 head beef
  100 head dairy
- **Gallons:** 60
- **Dimensions:** 84” x 22” x 22” (L x W x H)
- **Weight:** 170 pounds (77 kg)
- Designed for free stall barns
- Flat back design for flush fit with a wall or panel
- Three access panels and no wrenches required for valve compartment access
- Two large 3” drains, severe slope for quick draining
- Rubber gasket for air-tight dome seal
- Optional 500 watt heater (110 or 220 volt - A162)
- For cleaner water, neckrail to prevent cattle from standing in the water
- Optional gravity fill assembly available
BigSpring A6300

Capacity: 300 head beef
150 head dairy

Gallons: 110

Dimensions: 144” x 22” x 22” (L x W x H)

Weight: 275 pounds (125 kg)

Heat: Optional 500 watt heater (110 or 220 volt - A162)

BigSpring A6400

Capacity: 250 head beef
125 head dairy

Gallons: 90

Dimensions: 120” x 22” x 22” (L x W x H)

Weight: 230 pounds (104 kg)

Heat: Optional 500 watt heater (110 or 220 volt - A162)

Pet Waterer A1000

- All polyethylene construction for easy cleaning
- No buildup of bacteria or algae
- Full polyurethane foam insulation
- 5 gallon reservoir - add ice during hot weather
- Bowl refills automatically - no moving parts
- Optional 250 watt heater assembly (A250)

Water Tank Accessories

Hook Up Kits (A158) 2’ rubber hose (200 psi) with shut off valve

Underground Shut Off Kit (A399-5) Comes with drain back

Insulated Heat Tubes (A834)
Outside Dimensions 14” x 30”, Insulation is 2”
Weight: 16 pounds (7 kg)

Highly insulated tube shields incoming ground water from cold as it passes through the frost level. Polyethylene construction ensures years of trouble free use. One 20” tube and 3’ of 12” plastic drainage tile provide sufficient heat in most locations. For northern locations two 30” heat tubes may be required.

Automatic Valves (A336)
GPM 14, Low pressure 5 - 40 psi

Automatic Valves (A521)
GPM 12.5, High pressure 40 - 80 psi

Automatic Valves (A519)
GPM 6, Super high pressure 80 - 90 psi

Heaters, Cable & Floating Tank Valves

250 Watt Immersion Heater (A160)
Has a built-in thermostat
Teflon coated, 1-Yr Warranty

500 Watt Immersion Heater (A162)
110 Volt or 220 Volt
Teflon coated, 1-Yr Warranty

5’ Cable Line Heater (A919-5)
8’ Cable Line Heater (A919-8) - 110 Volt or 220 Volt

Gallagher .75” Water Tank Brass Valve with Float (AQ100B)

Gallagher .75” Water Tank Poly Valve with Float (AQ400P)

1” Water Tank Poly Valve with Float (AQ500P)