Mega's water cannons are designed and built to perform in the most severe environments of mining and construction. Designed for the water pressures and flows required in the mobile water equipment industry, Mega's water cannons are ideal for fire suppression, high pressure equipment washing, and applications that require long-distance, concentrated spray. We offer water cannons for use with both electric and electro-hydraulic systems, as well as a manually-operated water cannon for use where no power is available.
» Mega Severe Duty Water Cannons .......................................................................................... 3-4
» Mega Specialty Water Cannons .......................................................................................... 3-5
» Main Parts of a Mega Water Cannon .................................................................................. 3-6
» Advantages & Benefits of Severe Duty Mega Water Cannon .............................................. 3-7
» Hydraulic, Remote, Mega Water Cannon, Part No. 304952 .................................................. 3-8
» Electric, Mega Water Cannon, 12 VDC Part No. 304653 | 24 VDC Part No. 304652 ............ 3-9
» Manual, Mega Water Cannon, Part No. 304612 .................................................................. 3-10
» Available accessories for Mega Manual Water Cannon ....................................................... 3-11
» Electric, Multi-Purpose Mega Water Cannon, 12 VDC Part No. 307200................................. 3-12
» Standard Nozzles for Mega Water Cannon ......................................................................... 3-14
» Specialty Nozzles for Mega Water Cannon .......................................................................... 3-15
» Mega Water Cannon Kits ..................................................................................................... 3-16
  » Hydraulic, Mega Water Cannon Kit, Part No. 045026 .......................................................... 3-17
  » Electric, Mega Water Cannon Kits, 12 VDC Part No. 043386 | 24 VDC Part No. 040929 .... 3-18
  » Hydraulic, Mega Water Cannon Retro Kit, Part No. 039885 ................................................ 3-19
  » Electric, Multi-Purpose Mega Water Cannon Kit, 12 VDC Part No. 307200 ....................... 3-20
» FAQ Mega Water Cannons ..................................................................................................... 3-21
» Mega Foam Eduction System .............................................................................................. 3-23
» External Foam Tanks 60, 120 and 200 Gallon ...................................................................... 3-24
» FAQ Mega Foam Eduction System ....................................................................................... 3-26
Mega Water Cannons (known as 'monitors' in the fire fighting industry) are designed for the severe duty environments of mining and construction. Mega water cannons feature 2.5 inch stainless steel waterways and a unique, permanently lubricated swivel joint design that minimizes maintenance requirements and improves service life. Mega also offers application-specific water cannons, so that no matter what your needs are, we have a water cannon that will work for you.

Mega water cannons are available in electric drive and electro-hydraulic drive models. We also offer a manually-operated water cannon suitable for both stationary and mobile applications. Kit options are available for the hydraulic and electric water cannons.

### Mega Severe Duty Water Cannons

#### Mega Hydraulic Water Cannon

The stainless steel Mega Hydraulic Water Cannon is compatible with electro-hydraulic systems that have a 24 VDC power source available. The Water Cannon is directed by a hydraulic control valve, which receives command signals from the Mega cab control system joystick. The hydraulic water cannon is rated for up to 450 psi hydraulic pressure, 200 psi water pressure, and has a reach of up to 200 ft. at 750 gpm (using the straight bore nozzle and stream shaper).

- Hydraulic drive motor; requires 24 VDC power source
- 1/2 gpm hydraulic motor flow at 500 psi
- Stainless steel waterway
- 320° horizontal rotation range, 155° vertical rotation range (+90° to -65°), and rotational speed of 20°/sec

#### Mega Electric Water Cannon

The stainless steel Mega Electric Water Cannon is compatible with any water tank that has either a 12VDC or a 24 VDC power source available. The Water Cannon is directed by a logic box, which receives command signals from either the Mega cab control system joystick or a stand alone joystick box. The electric water cannon is rated for up to 450 psi hydraulic pressure, 200 psi water pressure, and has a reach of up to 200 ft. (using the straight bore nozzle with stream shaper).

- Electric drive motor; requires either a 12 VDC or a 24 VDC power source
- 1/2 gpm hydraulic motor flow at 500 psi
- Stainless steel waterway
- 320° horizontal rotation range, 155° vertical rotation range (+90° to -65°), and rotational speed of 20°/sec
Mega Specialty Water Cannons

Mega Manual Water Cannon

For environments where no electrical power is available, we offer the Mega Manual Water Cannon. This water cannon uses a simple tiller bar control and manual friction brake, and is designed for fixed installations in non-corrosive environments. Easy to use and capable of up to 1250 gpm, this water cannon is ideal for fire suppression, equipment wash-down, and agricultural applications where no electric power is available.

- Durable, lightweight pyrolite construction
- 3.0 inch (76 mm) waterway
- Cast-in turning vanes in each elbow for more efficient flow and improved stream performance
- 360° horizontal rotation range, 150° vertical rotation range (+90° to -60°)
- Friction lock on horizontal and vertical rotation
- Not severe-duty

Mega Multi-Purpose Water Cannon

This specialty electric water cannon is compatible with any water tank that has a 12 VDC or 24 VDC power source available. The heavy-duty electric motors allows for swift positioning and high accuracy. The Mega Multi-Purpose Water Cannon comes with a adjustable electric fan to stream nozzle, and is best suited for small water tank units with lower flows and pressures.

- Easy installation
- Durable, lightweight Pyrolite construction; 10.4 kg (23 lbs) without nozzle
- Integrated and sealed electronics
- Waterproof (IP 67 rated) locking connectors
- 320° horizontal rotation range, 135° vertical rotation range (+90° to -45°), and rotational speed of 20°/sec
- Adjustable rotation stops
- Quick disconnect
- Not severe-duty

Order Parts either by calling Parts Sales at 1-800-345-8889 or by going online @ www.megacorpinc.com
Main Parts of a Water Cannon

### Features

- **Stainless Steel Waterway**
- **Large Polymer Bearings**
- **2.5 inch Diameter Waterway**
- **2.5 inch NFT Nozzle Adapter**
- **Electric or Hydraulic Motor Drives**
- **Complete Control Packages**

### Benefits

- Long life in harsh waters.
- No ball bearings. Improved service life. Easily re-buildable swivel joints.
- Perfectly matched with Mega high performance pumps for long distance water stream shots.
- Plug and play application of adjustable nozzles, stream straighteners, and foam eduction equipment.
- Can be adapted to any water tanker application.
- Modular design for any retrofit application.

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Tweet @ https://twitter.com/MegaCorpWW
Advantages and Benefits of Severe Duty Mega Water Cannons

No matter what your application or environment is, Mega has a water cannon that will work for you. All Mega Water Cannons are designed to endure harsh environments and poor water conditions. With the option of electric or hydraulic drive motors, as well as a completely manually operated version, our water cannons can be adapted to any water tank application. A variety of adjustable nozzles, stream shapers, and foam eduction equipment allows for even further customization.

High Density Polymer Bearings
With a much longer service life, these bearings are far superior to ball bearings, and are exclusive in the mining industry. The Mega water cannon high density polymer bearings are specially designed for severe duty mining, and are present only in severe duty water cannons.

Heavy Duty Gears & Shafts
Heavy duty worm gears and planetary drives absorb shock to provide longer life in heavy duty environments. Additionally, the swivels and bearings are sealed and do not require regular service.

Specialty Nozzles
Mega’s water cannons can be fitted with a variety of adjustable nozzles to customize the spray pattern and distance. In addition to the standard straight bore nozzle, Mega offers fog to stream, fog to stream with foam eduction, fan to stream (electric water cannon only), and foam eduction nozzles.

Foam Eduction Available
On-call, mobile fire suppression systems are essential for the safety of any mine or construction site. Mega offers a variety of adjustable air aspirating foam eduction nozzles for use with our water cannons. Further details on Mega's full Fire Suppression System can be found later in this section.
Mega Water Cannon, Hydraulic, Remote
Part No. 304952

- Stainless steel
- 450 PSI Drive Motors
- 2.5 inch waterway
- Severe duty construction
- Wear resistant polymer bearings
- Heavy duty shafts & gears.

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<td>Gooseneck Assembly</td>
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* Nozzle not included. Please look at our nozzle section to purchase a nozzle.
Mega Water Cannon, Electric, Remote
12 VDC Part No. 304653 | 24 VDC Part No. 304652

- 24 VDC motors • 450 PSI Drive Motors • 2.5 inch waterway • Severe duty construction
- Wear resistant polymer bearings • Heavy duty shafts & gears.

<table>
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<td>23</td>
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* VDC-Volts Direct Current.
* Nozzle not included. Please look at our nozzle section to purchase a nozzle.
# Mega Water Cannon

### Mega Water Cannon, Manual
Part No. 304612

Mega Manual Water Cannon is used where no power is available.
- Stainless Steel
- Fire Suppression
- Worker Friendly; Easy to Use
- Equipment wash down
- Agricultural Applications
- 3 inch waterway
- Up to 1250 gpm flow

**ITEM** | **PART NO.** | **DESCRIPTION** | **QTY**
--- | --- | --- | ---
304612 | Manual Water Cannon | 1
1 | 304900 | Brake Knob | 2
2 | 304901 | Gooseneck Assembly | 2
3 | 304902 | Brake Shaft | 2
4 | 304903 | Plug | 4
5 | 304904 | Elbow, Outlet | 1
6 | 304905 | Plug | 1
7 | 304906 | Handle | 1
8 | 304907 | Handle Grip | 1
9 | 304908 | Fastener, Swivel | 2
10 | 304909 | Plug | 1
11 | 304910 | Rotation Stop | 1
12 | 304911 | Grease Fitting | 4
13 | 304912 | O-Ring Seal, Joint | 3
14 | 304913 | Ball Bearing, Joint | 4
15 | 304914 | Brake Band | 1
16 | 304915 | O-Ring Seal, Joint | 1
17 | 304916 | Elbow, Swivel Joint | 1
18 | 304917 | Brake Ball | 1
19 | 304918 | Inlet Assembly | 1
20 | 304920 | Fastener, Swivel | 1

*Nozzle not included. Please look at our Mega manual water cannon accessories section for available nozzles.*
Available accessories for Mega Manual Water Cannon 304612

A variety of accessories are available for the Mega manual water cannon, allowing the customer to select components that best fit their specific application, be it fire fighting, equipment wash down, or agricultural uses.

Accessories Include:

<table>
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<tr>
<th>ITEM</th>
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<td>300087</td>
<td>Nozzle, 1 inch Standard Straight Bore with Built-in Stream Shaper</td>
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<td>300091</td>
<td>Nozzle, 1.5 inch Standard Straight Bore with Built-in Stream Shaper</td>
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<td>300822</td>
<td>Grid for Standard Straight Bore Nozzle</td>
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<td>5</td>
<td>304299</td>
<td>Short Stream Shaper</td>
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<td>6</td>
<td>000194</td>
<td>3 inch flange weld</td>
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<td>7</td>
<td>350029</td>
<td>Hex, Nut, 5/8 inch</td>
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<td>8</td>
<td>350006</td>
<td>Washer, Flat, 5/8 inch</td>
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<td>9</td>
<td>355458</td>
<td>Cap Screw, 5/8 inch X 4 1/4 inch</td>
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<td>10</td>
<td>300030</td>
<td>Butterfly Handle, 3 inch</td>
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<tr>
<td>11</td>
<td>300104</td>
<td>Butterfly Valve, 3 inch</td>
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</tbody>
</table>
Mega Multi-Purpose Water Cannon, Electric
12 VDC Part No. 307200

• 12VDC • Fire Suppression • Worker Friendly; Easy to Use • Equipment wash down
• Adjustable rotation stops • Waterproof (IP 67 rated) locking connectors

Currently we do not have a illustrated parts breakdown for the multi-purpose water cannon but we do sell the whole water cannon under part number 307200.
APPLICABILITY
Standard Nozzles for Mega Water Cannon

The water cannon system is a versatile tool suitable for many different mining and construction applications. The straight bore nozzles produce a straight stream of water able to reach long distances. The water cannon will obtain maximum reach when the nozzle is at about 32 degrees of elevation with the chassis RPM at high idle.

Standard Nozzles

1 inch Standard Straight Bore With Built-In Stream Shaper

- On-Highway truck applications (low pressure systems)
- Single stream
- Built-in stream shaper straightens water flow & increases distance for lower pressure water pump systems
- 2.5 inch NH connection

1.5 inch Standard Straight Bore With Built-In Stream Shaper

- Single stream
- Built-in stream shaper straightens water flow & increases distance
- 2.5 inch NH connection

Performance Enhancements

When even greater reach is needed (for "high-wall", "stockpile", or fire fighting operations), Mega offers stream shapers for use with the straight bore nozzles. These stream shapers straighten the water flow before it exits the nozzle, resulting in a smoother stream that travels further.

Grid For Standard Straight Bore Nozzle

- Single stream
- Built-in stream shaper straightens water flow & increases distance
- 2.5 inch NH connection

Short Stream Shaper

- Increases performance of straight bore nozzles
- Shapes water stream to produce efficient flow
- In-line Short increases reach
Specialty Nozzles for Mega Water Cannon

Mega offers a variety of specialty, adjustable nozzles for use with both hydraulic and electric water cannons. These nozzles allow the customer to adjust a water cannon’s spray pattern and reach to meet their specific application requirements. Contact our Parts Sales or Product Support Department for assistance in selecting the right nozzle for your water cannon.

Hydraulically Adjustable Nozzles For Hydraulic Drive Mega Water Cannon.

Fog To Stream
- Hydraulic Adjustment
- Variable Fog Pattern
- 150 feet stream reach

Fog To Stream With Foam Eduction
- Hydraulic Adjustment
- Variable Fog Pattern
- 150 feet stream reach
- Adjustable fog pattern with foam (1, 3 and 6% proportioning)
- System does not include foam agent
- Requires foam agent system

Electrically Adjustable Nozzles For Mega Electric Drive Water Cannon.

Fan To Stream
- 140 feet reach
- Adjustable fan pattern
- Useful for wash down operations.

Fog To Stream
- 165 feet reach
- Adjustable fog pattern

Foam Eduction
- 150 feet reach
- Adjustable fog pattern with foam (1, 3 and 6% proportioning)
- System does not include foam agent
- Requires foam agent system

Manual Adjustable Hydraulic Nozzle With Foam Eduction
- Manually adjustable fog pattern
- Foam eduction (1, 3 and 6% proportioning)
- 150 feet stream reach
- Adjustable fog pattern with foam (1, 3 and 6% proportioning)
- System does not include foam agent
- Requires foam agent system

Order Parts either by calling Parts Sales at 1-800-345-8889 or by going online @ www.megacorpinc.com
THE IDEAL SOLUTION.

When you need to add, replace, or upgrade a water cannon system, Mega's water cannon kits are the ideal solution. Our kits are available for both hydraulic and pneumatic systems and can be adapted for either a partial or complete installation on any prime mover or tank.

All of our kits come with complete installation instructions and our legendary product and customer support that Mega is known for. Please call Mega part sales at 505-345-2661 for any questions.
Mega Hydraulic Water Cannon Kit
Part No. 045026

The Mega Hydraulic Water Cannon kit comes with a detailed installation instruction manual complete with drawings, support parts list, and an illustrated parts breakdown. The base kit includes a Mega Hydraulic Water Cannon, hydraulic control valve, all required electrical cabling, hydraulic hosing, and mounting flanges.

See below for optional components that can be added to customize the kit order for customer specifications. Please call Mega part sales at 505-345-2661 for any questions or inquiries.

Kit Includes:

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<tr>
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<td>Hydraulic Water Cannon Installation Instructions</td>
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<td>Mega Hydraulic Water Cannon*</td>
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<td>All Hydraulic Hosing</td>
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<td>Mounting Hardware</td>
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<td>3 inch Weld-on Flange</td>
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<td>7</td>
<td>Solenoid Assembly</td>
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* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

The base kit does not include a butterfly valve or joystick control box, however these parts may be ordered separately to complete the installation for customer specifications. If necessary please order either or both of the two parts below along with the base hydraulic water cannon kit part no.045026.

- Hydraulic Butterfly Valve Assembly 011454
- Joystick Control Box 041489

Order Parts either by calling Parts Sales at 1-800-345-8889 or by going online @ www.megacorpinc.com
Mega Electric Water Cannon Kits
12 VDC Part No. 043386 | 24 VDC Part No. 040929

Mega electric water cannons are available in either 12 or 24 volt (VDC) models. Mega Water Cannons are designed for severe duty applications and feature stainless steel waterways and heavy duty polymer bearings.

See below for optional components that can be added to customize the kit order for customer specifications. Please call Mega part sales at 505-345-2661 for any questions or inquiries.

Kit Includes:

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<td>7</td>
<td>Logic Control</td>
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* Nozzle not included. Please look at our nozzle section to purchase a nozzle.

The base kit does not include a butterfly valve or joystick control box, however these parts may be ordered separately to complete the installation for customer specifications. If necessary please order either or both of the two parts below along with either the base 12 VDC part no. 043386 or the 24 VDC part no. 040929 Mega Electric Water Cannon kit. Depending on voltage please order the pneumatic butterfly valve specific to either the 12 VDC or 24 VDC system.
Mega Hydraulic Water Cannon Retro Kit
Part No. 039885

The hydraulic water cannon retro kit is designed to replace an older model hydraulic water cannon with the current system using the current joystick and butterfly valve. For a complete hydraulic water cannon kit please reference part no. 045026. Please call Mega part sales at 505-345-2661 for any questions.

* Nozzle not included. Please look at our nozzle section to purchase a nozzle.
Mega Multi-Purpose Water Cannon Kit
Part No. 307200

We now offer a Mega Multi-Purpose Water Cannon kit for customers who need an affordable, reliable electric water cannon for non-heavy duty applications. Help fight fires with a Mega Multi-Purpose Water Cannon.

Kit Includes:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>307200</td>
<td>Mega Multi-Purpose Water Cannon Kit</td>
</tr>
<tr>
<td>1</td>
<td>Forestry Electric Water Cannon</td>
</tr>
<tr>
<td>2</td>
<td>Electric Adjustable Nozzle</td>
</tr>
<tr>
<td>3</td>
<td>Electric Ball Valve, 2 inch</td>
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<tr>
<td>4</td>
<td>Cabling</td>
</tr>
<tr>
<td>5</td>
<td>Quick Disconnect, 2 inch</td>
</tr>
<tr>
<td>6</td>
<td>Joystick Control</td>
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</table>

* Nozzle included with kit.
Mega Water Cannon FAQ Section

What is included in the hydraulic water cannon kit?

Included in all hydraulic water cannon kits is:

• One Mega severe duty hydraulic water cannon
• Complete solenoid control box assembly
• 3.0 inch pipe flange adapter mount for the water cannon
• 3.0 inch pipe flange
• All hydraulic hoses, fittings, and hardware required to complete installation
• Installation drawings and a detailed instruction manual for installation

What is not included in the kit?

Some water cannon components are not included with the base kit, as different customers may require different versions of these components, or not need them at all. We leave it to the customer to choose which of the following components to purchase in order to complete their water cannon kit order:

• Nozzles, Mega offers four different nozzles for use with the hydraulic water cannon. Please see nozzles section.

• Joystick control box (Required if the customer does not already have a Mega spray control system with which to control the water cannon)

• Water supply valve and actuator

I need a nozzle to complete my water cannon kit. What nozzle should I choose?

Mega offers a variety of high-quality nozzles for use with our water cannons. For details, please refer to our nozzle section. Contact Parts Sales at 1-800-345-8889 for assistance in determining which nozzle is best for your specific system.
PROTECT YOUR INVESTMENT

STOP FIRES WITH A MEGA FOAM TANK
Mega Foam Eduction System

Fire Suppression

For decades, foam concentrates have been used extensively to combat surface fires in the mining, construction, and forestry industries. Foam concentrates change how water reacts with fuels, drastically increasing the water’s effectiveness in suppressing and containing fires. The use of foam reduces water consumption, suppresses fires more quickly, and more effectively prevents the fire from spreading to nearby combustible materials. No matter how large or small the operation, the safety of everyone on site depends on adequate preparation for an outbreak of fire in any class of fuel.

Tire and Equipment Fires

Tire and equipment fires are a dangerous and costly hazard in the mining and construction industries. Tire fires in particular are extremely difficult to extinguish, as the fire can smolder deep within the rubber where water cannot reach. The presence of an on-call, mobile fire suppression system is essential for the safety of any mine or construction site, to rapidly contain, mop up, and minimize the damage these fires cause. Mega's Fire Suppression System is designed to be installed on water trucks, creating a multi-purpose mobile fire response unit without needing to re-purpose or purchase a dedicated fire suppression vehicle.

Hydrocarbon Fuel

Lighter than water and highly flammable, hydrocarbons present an extreme fire hazard. Hydrocarbon fires are capable of reaching temperatures in excess of 1000°C (1832°F) in as little as 10 minutes if left unchecked. Mine and construction sites must be prepared to respond immediately in order to contain a hydrocarbon fuel fire and minimize its destructive potential.

Forest Fires

Mega's Forestry Monitor (Water Cannon) was designed specifically for brush and wildfire fire fighting. A high speed electric drive motor allows for swift positioning and high accuracy. The forestry monitor comes with a mid-flow adjustable fog nozzle that can be adapted for use with a foam eduction system. Additionally, Mega's vertical side spray heads (VSS) discharge vertical fans of water that are ideal for reinforcing black lines.
Mega Foam Eduction System

The Mega Fire Suppression System is an air-aspirated foam eduction system compatible with any class of foam that can be nozzle-aspirated. The system consists of a stainless steel (304 grade) foam concentrate tank, water cannon, and foam eduction nozzle. Our medium-expansion nozzles allow for adjustable foam percentages of 1%, 3%, 6%, and 10%, and possible flow rates of 350, 500, and 750 GPM.

The Mega foam tank is mounted externally on the water tank, and is available in 60, 120 gallon and 200 gallon sizes. Mega’s foam system can be ordered as an optional addition on a new Mega water tank, or purchased as a kit and installed on an existing water tank.

*Always follow the foam concentrate manufacturer’s recommendations for proper storage of the foam concentrate.

<table>
<thead>
<tr>
<th>Foam Concentrate liters/gallons</th>
<th>Water liters/gallons</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>57/15</td>
<td>1893/500</td>
<td>1 minute</td>
</tr>
<tr>
<td>114/30</td>
<td>3786/1000</td>
<td>2 minutes</td>
</tr>
<tr>
<td>228/60</td>
<td>7571/2000</td>
<td>4 minutes</td>
</tr>
<tr>
<td>341/90</td>
<td>11,357/3000</td>
<td>6 minutes</td>
</tr>
<tr>
<td>455/120</td>
<td>15,142/4000</td>
<td>8 minutes</td>
</tr>
</tbody>
</table>
**What type of foam system does Mega offer?**

Mega's foam fire suppression system is a foam eduction system. In this type of system, pressurized water flows through a narrowed section waterway in the eductor (an air-aspirated nozzle on the Mega water cannon), creating an area of negative pressure that draws foam concentrate from a storage container (foam concentrate tank) into the nozzle throat. There, the concentrate is mixed with water to create foam. Eduction systems require a pump capable of generating at least 200 psi water pressure in order to function.

**What are Class A fuels?**

Solid, combustible materials that are not metals are considered to be Class A fuels. Examples of Class A fuels are paper, wood, cloth, rubber (tires, etc), plastics, trash, etc.

**What is Class A foam?**

Class A foam is created by mixing Class A foam concentrate with water, creating a solution of bubbles that is effective at suppressing Class A fuel fires. This solution has a lower density than water and contains 'wetting agents' that reduce the surface tension of the water and increase its heat absorption potential. This allows the solution to penetrate and soak the burning fuel more quickly and efficiently than plain water. Class A foam is commonly said to "make water wetter".

**What are Class B fuels?**

Combustible non-metal liquids are considered to be Class B fuels. Examples of Class B fuels are gasoline, oil, and grease.

**What is Class B foam?**

Class B foam is created by mixing Class B foam concentrate with water to create a foam solution effective at suppressing Class B fuel fires. Instead of soaking into the burning fuel (Class B fuels are liquids), Class B foam forms a film or blanket on top of the fuel. This effectively deprives the fire of oxygen and suffocates it.
Can Class A foam be used to suppress Class B fuel fires, and vice versa?

This is not recommended. Class A and Class B foams interact very differently with fuel, and they are most effective when used against their respective classes of fuel fires. Class A foam attracts carbon and reduces the surface tension of water, allowing it to penetrate fuels more easily–this is more effective on solid fuels than on liquid fuels. Conversely, Class B foam repels carbon and forms a film on top of the fuel instead of soaking in, making it very effective at smothering liquid fuels. It is highly recommended for mining and construction sites to have both Class A and Class B foam on hand.

What about Class C and D fires?

Class C fires are electrical fires. Do not use water or a water-based foam to combat Class C fires. Water is an excellent conductor of electricity, and it is therefore extremely dangerous to use foam (which is generally at least 90% water) on electrical fires. Class D fires involve combustible metals like magnesium, sodium, and potassium. These metals are highly reactive with water, so water and water-based foam should not be used to suppress Class D fires.

When is foam not effective?

- **Class C and D Fires** – Water or water-based foams should never be used to combat electrical fires or fires involving combustible metals. Water is highly conductive, and most combustible metals are reactive with water.

- **Pressurized Gases** – Pressurized gases are often stored as liquids, but are vapors at room temperature and atmospheric pressure. Class B foam solutions are designed to blanket flammable fuel and smother the fire, but the vapor pressure of pressurized gases is much too high for this to be possible.

- **Three-dimensional Class B Fires** – Three-dimensional fires are Class B fires in which fuel is being discharged from an elevated or a pressurized source, creating a pool of combustible fuel on a lower surface. Because of the geometry of these types of fires, foam solutions cannot blanket the fuel to smother the fire.

How do I store foam concentrate?

Always refer to the foam concentrate manufacturer’s specifications and recommendations for storage. Mega's foam concentrate tank is made with grade 304 stainless steel, and does not have an interior coating.

Additional resources:


