



THE INNOVATIVE DRAGO FIRE CONTROL SOLUTION

SUPERIOR THERMAL ABSORPTION WITH 70% LESS WATER

THE DRAGO SPIDER

Unique vaporization technology

Unlike any other fan cannon on the market, the Drago uses our proprietary constant spray technology. What makes it unique is the center nozzle (Spider) design which delivers a smooth performance curve with optimal water flow and droplet quality settings.

This makes it possible to effectively project a mixture of water / air / water + fire fighting agent (foam or even encapsulating agents) at a great distance, in order to effectively carry out various maneuvers aimed at extinguishing a fire, cooling the air, and repelling smoke and toxic fumes.

Drago-ISI Inc. specializes in the design and marketing of innovative fire control solutions. The Drago cannon is simple in design, yet highly effective and capable of a water flow up to 785 GPM with a projection exceeding 200 feet.



THE TECHNOLOGY BEHIND THE DRAGO SPIDER

One strategy for improving the efficiency of water and extinguishing a fire faster with a given water flow rate would be to divide the flow into a large number of fine droplets and directing it over a large area of the flaming mass. This promotes rapid evaporation of the droplets as they approach or contact the brazier.

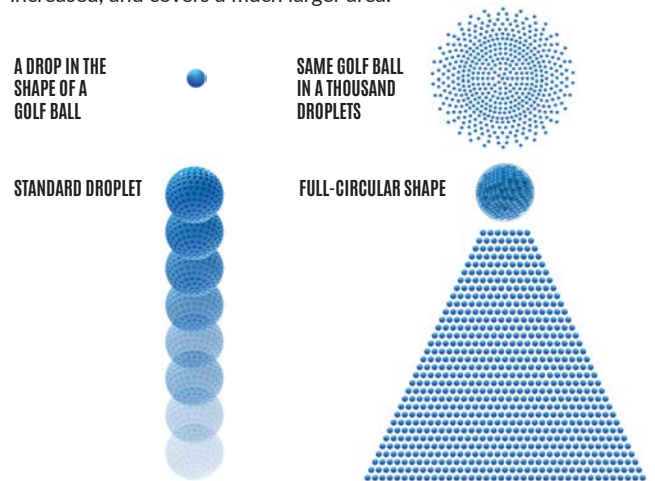
Spraying water on any burning material is a common way to lower the temperature of the flaming mass and extinguish the flames. However, directing a strong stream of water at the base of a fire has proven to be an ineffective way of fighting the fire. One indication of this is the large volume of water that surrounds a site after fighting a fire which, incidentally, causes damage to remaining structures.

Thanks to its unrivaled latent heat of evaporation, one of the most useful advantages of water when it comes to extinguishing a fire is its incredible ability to absorb heat. Therefore, water that doesn't evaporate is not used efficiently and ultimately becomes a source of collateral damage.

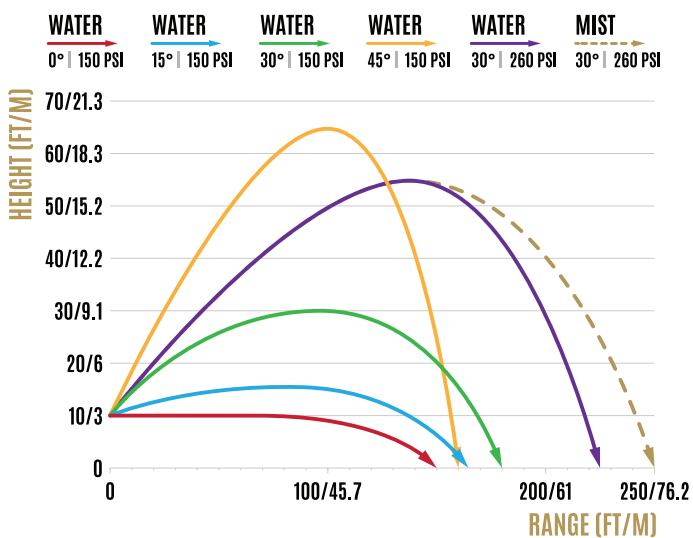


DROPLET PEDAGOGY

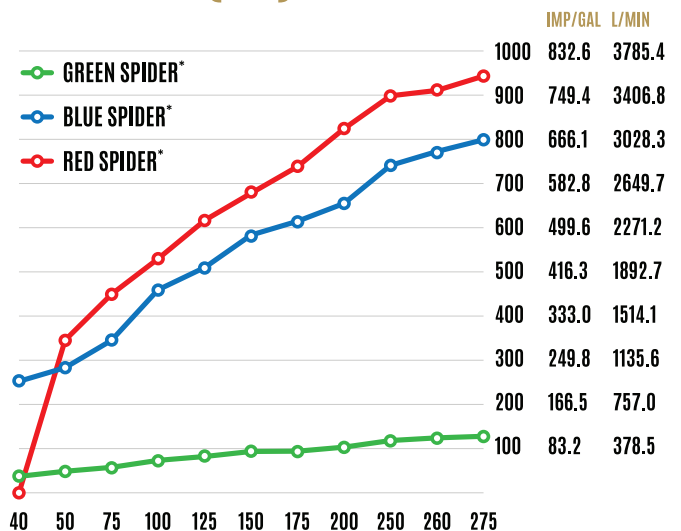
A regular water drop with its one-dimensional trajectory. The trajectory of fine water droplets sprayed at high-velocity is exponentially increased, and covers a much larger area.



SPRAY GRAPH



PSI/GPM(US) GRAPH



TECHNICAL DATA

- Height 18.2 – 22 inches | 46.2 – 56 cm
- Diameter 21.3 – 23.8 inches | 54.1 – 60.4 cm
- Number of nozzles 14 – 16 nozzles
- Central module (Spider) Blue std 14 nozzles
- Weight 18 lbs
- Central module (Spider) Blue with diffuser screen 14 nozzles
- Weight 19 lbs
- Central module (Spider) Red std 16 nozzles
- Weight 18.5 lbs
- Central module (Spider) Red with diffuser screen 16 nozzles
- Weight 19.5 lbs
- Central module (Spider) Green std 14 nozzles
- Weight 18 lbs
- Connection Spider 2 ½ inches | 64 mm / NST
- Water pressure (40 – 275 psi | 2.75 – 18.9 Bars)
- Water flow 181.8 – 3568.6 liters | minute | 40 – 785 GPM
- Droplet between 500 and 1000 micron
- Complete anodization
- No filtration or maintenance system
- Quick installation indicator
- 1 year warranty

MAIN FEATURES

- Spider all aluminum and anodized for lightness and extended life
- Central module (Spider) varying from (50 to 275 psi | 3.45 to 19 Bars) for all types of conditions
- Hybrid spray (air / water) in aerosol for 3x better thermal absorption in optimal fragmentation
- Single fragmentation curved tip for long distance spraying
- Fragmentation screen, foam / encapsulator (3.8 inches | 96.5 mm) for optimal expansion
- Easy connection with indicator, 2 ½ inches | 63.5 mm, NST for quick coupling
- Water flow between (40 to 785 GPM | 182 to 3,568 liters / minute) for superior water savings
- Water projection distance of (100 to 200 feet | 30.5 – 60.9 m) and more to reach summits
- Water / foam (1%) / encapsulator projection distance, (100 to 180 feet | 30.5 to 54.8 m) to cover summits
- Water penetration width greater than 100 feet | 30 m of (30 to 40 feet | 9.1 to 12.1 m) for maximum overlap
- Width of penetration (1%) foam / encapsulator, more than 100 feet | 30 m of (40 to 50 feet | 12.1 to 15.2 m) for maximum removal
- Operational in cold or hot weather for hassle-free outdoor use
- Installation bar for optimal grip
- Installation indicator for quick installation
- No maintenance



- The Drago Cannon was capable of flowing an effective fire stream up to 202 feet.
- Cooling and Protecting: In combination with a hand-line team, the Drago Cannon showed capability in effectively cooling and protecting exposures.
- Foam Blanket: The Drago Cannon was able to produce an effective foam blanket without the use of a fixed structure such as a back splash or tank wall.
- Pit Fire Containment: The Drago Cannon was able to effectively control a 1,400 square foot containment pit fire using only water and extinguish with foam 2X faster with baseline (149 seconds compared to 369 seconds).
- Circular Tank Extinguishment: The Drago Cannon was able to extinguish a 1,590 square foot circular tank prop 3.3 times faster with baseline (51 seconds compared to 167 seconds).

FIGHT FIRE WITH POWER

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