



HAZARD CONTROL TECHNOLOGIES, INC.

FIRE, VAPOR, AND CONTAMINATION CONTROL SOLUTIONS

F-500 EA "TKO" Nozzles

HCT's new Turbo Knockdown and Overhaul (TKO) Nozzles are designed with a reservoir to carry concentrated F-500 Encapsulator Agent (EA) for rapid deployment on small Class A or B fires, or fuel spills. The addition of F-500 EA gives firefighters the advantage of faster knockdown as the F-500 EA rapidly cools the fuel and surrounding structures and encapsulates the fuel, rendering it nonflammable and nonignitable. Compared to a fire extinguisher, the knockdown capability of the TKO Nozzle is tremendous due to the higher volume of output.

The TKO Nozzles are the convenient solution to intermediate sized fires. Deployment, with F-500 EA is instant, saving precious time. There's no need to batch mix agent in the pumper or set up an eductor. A powerful firefighting tool using F-500 EA is ready to use after attaching the hose to any stand pipe or wall box, such as in a hotel, office building or factory. Need more F-500 EA? Simply unscrew the bottle and replace it in seconds, even while wearing gloves. After the fire, there's no wasted fire suppression agent in 200 feet (60 m) of hose, because the F-500 EA came from the nozzle, not an eductor.

- **F-500 EA Rapidly Removes the Heat**
- **Renders Fuel Nonflammable**
- **Nozzles Provide Quick Knockdown**
 - **75 or 130 liter/minute (20 and 35 gpm) Flow**
- **Accurate Flow Control for Overhauls**
- **Greatly Reduces Steam, Smoke and Toxins**
- **Uses Less Water and Agent**

The nozzles can be quickly adjusted to proportion 0.5 or 1% for Class A fires and 3% for polar or nonpolar Class B fires and hydrocarbon spills. The reservoir holds 1/2 gallon of concentrated F-500 EA and the nozzles output 75 or 130 liters/minute (20 or 35 gpm) flow at 6 bar (87 psi). For a Class A fire proportioned at 0.5%, F-500 EA will provide 5 minutes of knockdown time. This is usually more than enough for most small fires and has proven to be successful fighting fully involved car fires due to the added capabilities of F-500 EA.

The F-500 EA TKO Nozzles are excellent for high rise packs. The benefits of F-500 EA in a high rise fire can mean faster extinguishment and less water damage. Unlike a fire extinguisher, which is useless once exhausted, the TKO Nozzles still have a back-up of plain water. For a Class B fire proportioned at 3%, the nozzle provides about a minute of F-500 EA. For any hydrocarbon spill, the nozzle could totally encapsulate about 15 liters (4 gallons) of fuel. The remaining F-500/fuel solution would be completely nonflammable and nonignitable. For a larger spill, the reservoir could be refilled with F-500 EA and then applied to the remainder of the spill. Knockdown with F-500 EA is so quick, there is little concern of run-off into drains or streams, which would require diking.



The TKO Nozzle

The rugged, all-metal pistol-grip nozzle is fully adjustable from a fog pattern to a straight stream. The inlet connector is a standard 1 1/2" female NH-NST (National Hose-National Standard Thread) fitting. The TKO Nozzle is perfect for wall hydrants. The nozzle has multiple proportioning settings. The droplet size and speed are optimally coordinated in the atomizing cone to most effectively use the F-500 Encapsulator Agent. The container has a screw top for rapid removal and refills.



A fire extinguisher may have a minute of firefighting power and will throw 2.5 gallons of solution. The TKO Nozzle will output 20 or 35 gallons of solution at full pressure in the same amount of time. When a 2.5-gallon fire extinguisher just won't do and a larger hose and nozzle are just too much, the TKO Nozzle is the way to go. The F-500 EA provides the "knockout" punch for fast knockdowns with plenty of water backup, if needed.

F-500 EA "TKO" Nozzles		
	Model NOZ-TKO-F5-075L	Model NOZ-TKO-F5-130L
Flow Rate	75 liters/min. (20 gpm)	130 liters/min. (35 gpm)
Streaming Reach	8 m at 6 bar (26 feet at 87 psi)	12 m at 6 bar (39 feet at 87 psi)
Fog Pattern Reach	4 m at 6 bar (13 feet at 87 psi)	4 m at 6 bar (13 feet at 87 psi)
F-500 EA Capacity	2 liters (0.52 gallons)	2 liters (0.52 gallons)
Proportioning with F-500 EA*	0%, 0.5%, 1%, 3%	0%, 0.1%, 1%
Coupling**	1 1/2" NH-NST fitting	1 1/2" NH-NST fitting
Dimensions - l/w/h	238 x 120 x 400 mm (9 3/8" / 4 3/4" / 15 3/4")	238 x 120 x 400 mm (9 3/8" / 4 3/4" / 15 3/4")
Weight (empty)	2 kg (4.5 lbs.)	2 kg (4.5 lbs.)



Multiple Proportioning Settings (75 liter model shown)

* Water continues to flow after F-500 EA is used up

** Available with Storz coupling

Ask About Our Accessories for TKO Nozzles



F-500 EA "TKO" Nozzle - Accessories	
F5-TKO-BT	F-500 EA - 2-liter Bottle with F-500 EA Label and Lid
ADP-1.5NHTx1.0NHT	Adapter 1.5" NST/NHT x 1.0" (National Hose Thread)
DP-CP	Compact Plastic Drum or Pail Hand Pump

The F-500 EA "TKO" Nozzles are excellent for:

- Firefighters for small, incipient fires and overhauls
- Industrial Fire Brigades
- Power plant - Coal fires and wash down
- Car fires and fuel spills
- Small wood and paper fires
- Maritime Applications
- Foundries, metal fabricators and steel plants
- Confined Spaces



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