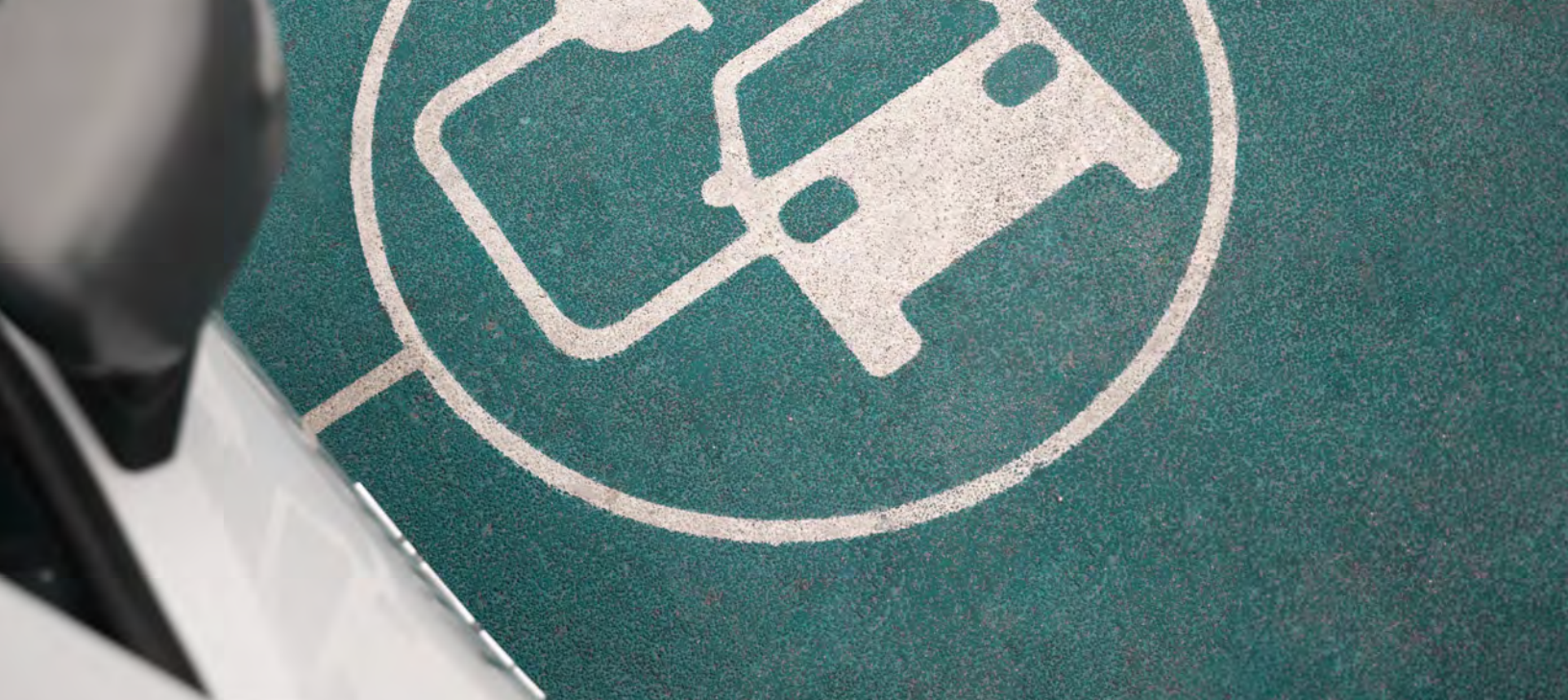




Parking Garage Hazard Protection



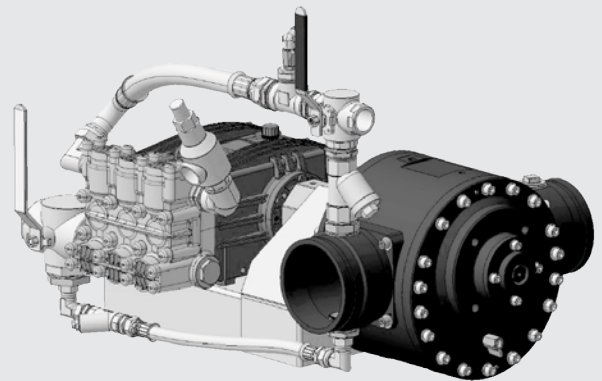


Exploring

Hazard Control for Parking Structures



Automotive manufacturers are using more plastics, larger fuel tanks, combustible metals, and lithium-ion battery technology to improve performance and reduce emissions. At the same time, parking structures are increasingly housing charging stations to entice electric vehicle owners with a convenient parking experience. Throughout this era of rapid growth, fire codes and standards have remained stagnant until fairly recently, providing little guidance to prepare building owners. The complete Diamond Doser® fire protection system powered by F-500 EA® offers a tailor-made solution.



**Internationally
Approved by Applus+**

Hazard Control Technologies, Inc.

150 WALTER WAY, FAYETTEVILLE, GEORGIA 30214 / +1 770 719 5112 / INFO@HCT-WORLD.COM / HCT-WORLD.COM

Fire, Vapor, Spill, and Contamination Testing since 1997

F-500 EA®

A fire protection system powered by an NFPA-recognized Encapsulator Agent can provide a fluorine free solution for multi-class and three-dimensional fires when plain water and foams fall short.

“

Special risks require special measures. The use of F-500 EA® in the special risk of storage and/or use (charging) of lithium-ion batteries is a possible option permitted under German building law to cover this risk, although classic sprinkler technology or the use of foam agents does not cover this risk or does not cover it adequately. Fire tests carried out in accordance with NFPA can also be used as proof of the design of sprinkler systems in accordance with German building law, provided the boundary conditions are met.

DEKRA
F-500 EA® for Suppression Systems



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Internationally Certified Under ETI 23/32306438

Diamond Doser®

In July of 2023, our complete Diamond Doser® fire protection system was tested at Applus+'s facility in Spain to ensure optimum safety, performance, consistency, and sustainability.

Applus+ Approved

Specification

Extinguishing Agent	3% F-500 EA®
Extinguishing Area	37.5m ² (3 Parking Spaces)
Working Flow Rate	250 l/min (Minimum)
Working Pressure	3 Bar (Minimum)
Operating Time	60 Minutes
Pump System	Diamond Doser®
Sprinkler Nozzles	Tyco D3 (2 Nozzles/Parking Space)
Water Requirement	14.6m ³

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System Benefits

Performance

Protect your facility against multi-class and three-dimensional hazards when you make F-500 EA® your agent of choice.

Continuity

Improve accuracy with a mechanical pump unit, driven by water flow alone, to adjust dosing as more heads open.

Sustainability

Avoid unexpected discharges, pollution, and disposal costs when you add a Dosing Return Valve (DRV) to your unit.

Maintenance

Save resources with effortless installation, upkeep, and NFPA mandated testing. Enjoy easy access to your atmospheric tank.

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Parking Garages

Preserve your facility's structural integrity while extinguishing ICE, hybrid, and electric vehicle fires.



Bus Depots

Protect electric bus fleets and prevent the spread of fire to adjacent vehicles in a constricted environment.



Charging Stations

Detect fires early on to safeguard critical infrastructure utilizing significantly less water and resources.

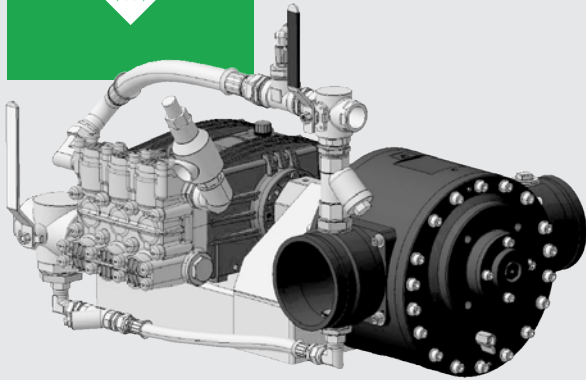


Airports

Secure aircrafts, airports, car parks, hangars, rental centers, and runways with FAA recognized technology.

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Higher application rates can be achieved when two DD 10000 Diamond Doser® units are placed parallel on a skid to deliver a flow rate of 20,000 lpm (5,284 gpm) at 3%.

Unit #	Minimum Flow		Maximum Flow		Inlet
DD 00180	40 lpm	11 gpm	180 lpm	48 gpm	1.50"
DD 00450	75 lpm	20 gpm	450 lpm	119 gpm	2.00"
DD 00800	150 lpm	40 gpm	800 lpm	212 gpm	2.50"
DD 01200	180 lpm	48 gpm	1,200 lpm	317 gpm	3.00"
DD 01800	170 lpm	45 gpm	1,800 lpm	475 gpm	4.00"
DD 02400	230 lpm	61 gpm	2,400 lpm	634 gpm	4.00"
DD 03200	300 lpm	79 gpm	3,200 lpm	846 gpm	6.00"
DD 04500	400 lpm	106 gpm	4,500 lpm	1,190 gpm	6.00"
DD 06000	500 lpm	132 gpm	6,000 lpm	1,587 gpm	6.00"
DD 08000	800 lpm	212 gpm	8,000 lpm	2,116 gpm	8.00"
DD 10000	1,000 lpm	265 gpm	10,000 lpm	2,645 gpm	10.00"

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