

Introducing

PuriFiRE

SYSTEMS™

by Darley

Water Purification

Darley is excited to announce a complete line of quickly deployable water purification systems that can be used by first responders to aid in establishing and maintaining a potable water supply in the event of an emergency situation.

A total of six PuriFire systems have been developed. Systems have been designed for both municipal and military applications.

The municipal PuriFire systems are designed to work with the pump on a fire apparatus, or in conjunction with an in-place water department. The systems are available as both portable self-contained units and systems that are integrated with fire apparatus.

pu • ri • fy: to become clean or pure

Municipal PuriFire Systems

- Model 3S3P
- Model 3S10P
- Model 3S20F
- Model 5S10F

Military PuriFire Systems

- Model LWPS 7S2P/3S15P
- Model LWPS 7S15T

A team of Darley and Ohler engineers worked collectively on the PuriFire systems. Lead design was done by Yi "Max" Meng, a PhD candidate in environmental engineering.



Fire truck integrated system.

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Since 1908

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Model 353P

An optional water sensor gives assurance that the water is safe to drink.

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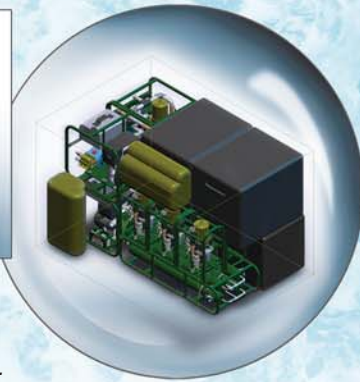
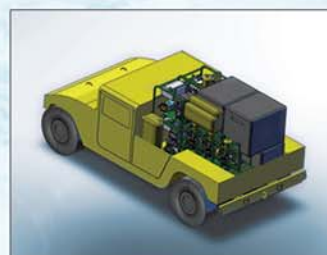
Municipal PuriFire Systems

- Model 353P
- Model 3510P
- Model 3520F
- Model 5510F

Military PuriFire Systems

- Model LWPS 752P/3S15P
- Model LWPS 7515T

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Darley responded when asked to design a compact, lightweight hi-performance system for the Marine Corps.



Darley PuriFire Systems™ Quick Facts

PuriFire System Model	3S3P	3S10P	3S20F	5S10F	LWPS 7S2P	7S15T
Strainer			X	X		X
Intake pump	X	X			X	X
Cyclone separator				X		X
Sediment filter	X	X	X	X	X	X
Self-clean filter		X			X	
IE media filter			X			
Carbon absorption	X	X	X	X	X	X
Reverse osmosis				X	X	X
CRBNE removal					X	X
Ultraviolet	X	X	X	X		
Chlorination					X	X
Water tank					X	
Diesel engine		X			X	X
Emergency lighting (Optional)		X				X
Emergency power generation (Optional)		X			X	X
Firefighting			X	X		X

* CRBNE - Chemical, Radiological, Biological, Nuclear, and Explosive (CRBNE) contaminants

* IE media filter - Ion exchange media filter

* 3S3P - 3 stages 3 gpm portable, F stands for fire truck integrated system, T stands for trailer system

PuriFire Systems™ Technical Specifications



PuriFire System Model 3S3P

- Power source: Vehicle, 12 VDC or 110 VAC
- Purification process: 3 stages
- Disinfection: Ultraviolet light
- Capacity: 3 gpm
- Operating pressure: 45 psi
- Connection: Push-in quick connection
- Strong self-priming, auto-shutoff pump
- Cigarette lighter cable for power from a vehicle
- Reusable/washable filter
- Molded resin carrying case: 25"L x 20"W x 9"D
- Weight: 49 lbs.

PuriFire System Model 3S20F

- Power source: Fire pump engine
- Purification process: 3 stages
- Disinfection: Ultraviolet light
- Capacity: 20 gpm
- Operating pressure: 150 psi
- Twist-to-clean pre-filter
- Reusable/washable filter
- Ion exchange media filter
- Weight: 152 lbs.

PuriFire System Model LWPS 7S2P

- Power source: Diesel engine
- Purification process: 7 stages
- Disinfection: Chlorine
- Capacity: 2 gpm
- Operating pressure: 1000 psi
- Twist-to-clean pre-filter
- Reusable/washable filter
- Reverse osmosis membrane
- Water driven chemical injection
- Fabric water tank
- CRBNE module
- Emergency lighting and power generation are optional
- Weight: 2,015 lbs.; each individual module is less than 200 lbs.

PuriFire System Model 3S10P

- Power source: Diesel engine
- Purification process: 3 stages
- Disinfection: Ultraviolet light
- Capacity: 10 gpm
- Operating pressure: 150 psi
- Twist-to-clean pre-filter
- Reusable/washable filter
- Emergency lighting and power generation are optional
- Aluminum frame: 40"L x 20"W x 30"D
- Weight: 305 lbs.

PuriFire System Model 5S10F

- Power source: Fire pump engine
- Purification process: 5 stages
- Disinfection: Ultraviolet light
- Capacity: 10 gpm
- Operating pressure: 300 psi
- Cyclone separator
- Reusable/washable filter
- Ion exchange media filter
- High pressure pretreatment
- Reverse osmosis membrane
- CRBNE module
- Weight: 214 lbs.

PuriFire System Model 7S15T

- Power source: Diesel engine
- Purification process: 7 stages
- Disinfection: Chlorine
- Capacity: 15 gpm
- Operating pressure: 1000 psi
- Reusable/washable filter
- Reverse osmosis membrane
- Water driven chemical injection
- CRBNE module
- Firefighting hoses and nozzle
- Emergency lighting and power generation are optional
- Weight: 3,051 lbs.