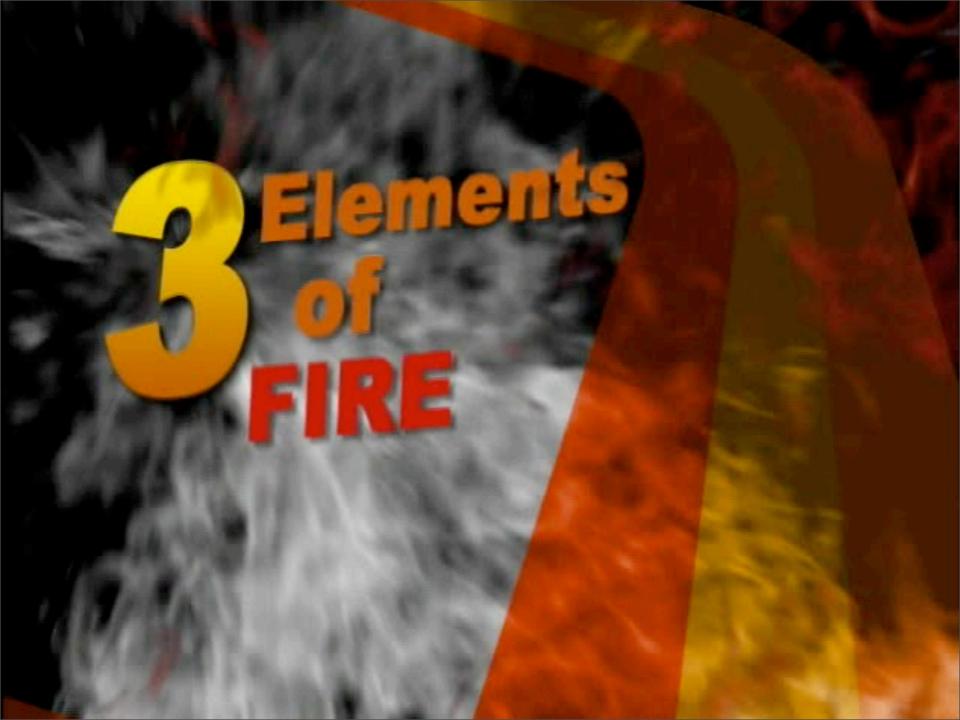
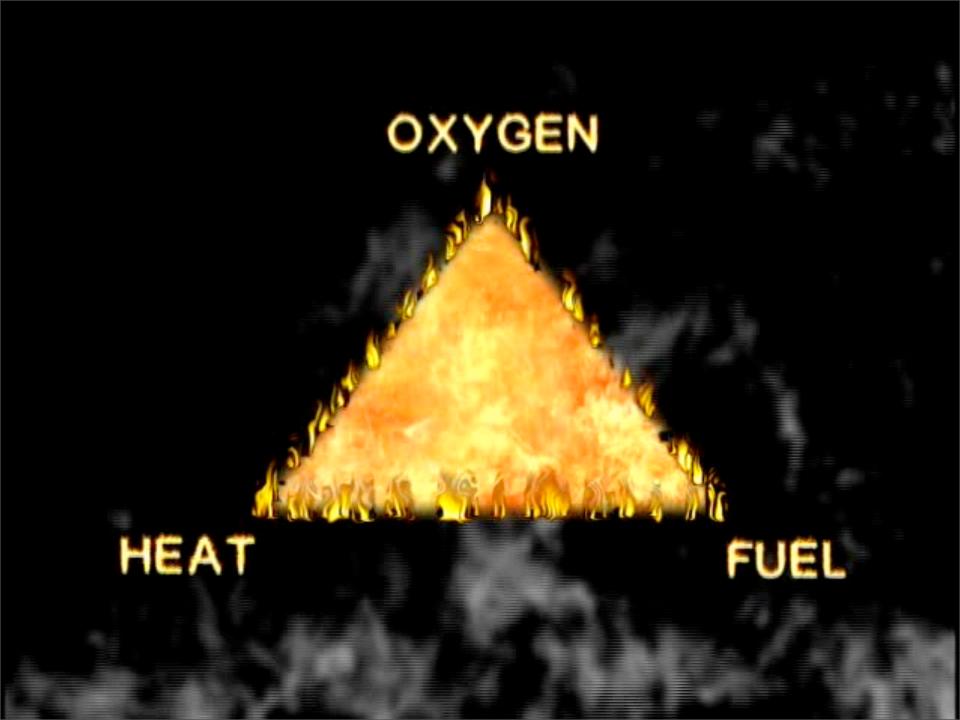
# 70% of fires in the world are Class A & E

Fires must be eliminated within the first 5 minutes to prevent from spreading. "Its hard to imagine what it would be like to live without fire.

Yet fire can be one of our deadliest enemies. It can mutilate us, kill us and destroy in a few minutes what took a lifetime to build.







OXYGEN

# HEAT

FUEL

# class

paper cloth wood rubber plastic oils gasoline kitchen greas paints solvents charcoal ligi kerosene diesel fuel

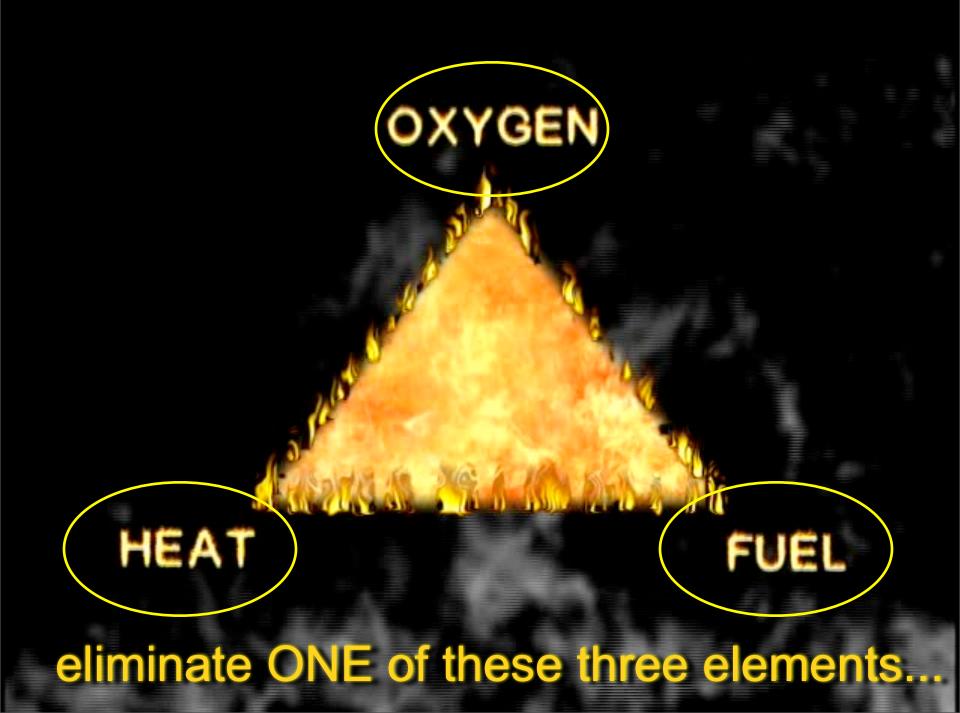
62

wiring fuse boxes motor power tools appliances

23

# c ass

metals: aluminum magnesium titanium



# HEAT FUEL

OXYGEN

# ..... and the fire will be extinguished!

# **THE WATER MIST PRINCIPLE**

# **Basic Principle**

#### WATER

discharged at

### **HIGH PRESSURE**

## through

#### SPECIAL NOZZLES

#### resulting in

**VERY SMALL DROPLET SIZE** 

and

#### **HIGH DISCHARGE SPEED**

#### HDL-250



#### 20- 50 microns 1000 times faster cooling

100- 150 microns -40 times faster cooling-

300-400 microns

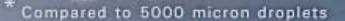
14 times faster cooling

# -WATERMIST

FIRE·TEC

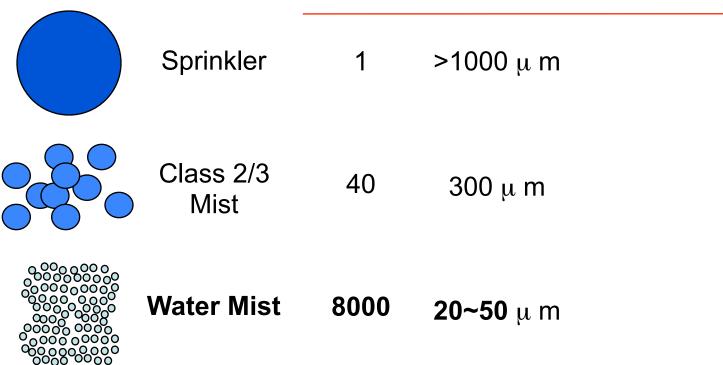
#### *Lower* the average droplet size:

- More the surface area, and
- *Greater the cooling* for the fire, as the heat is taken in as latent heat of vaporization.

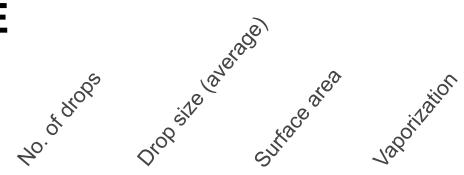


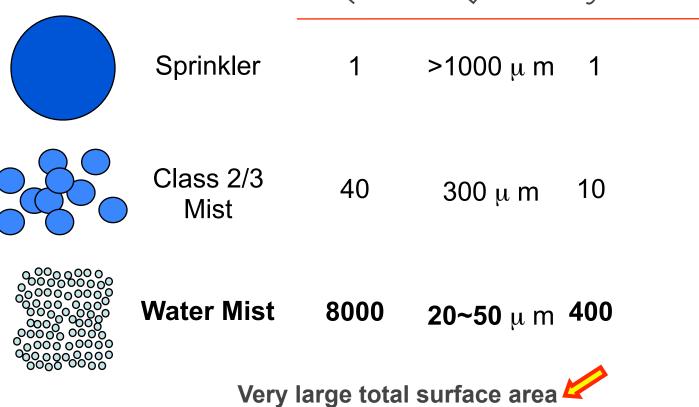
#### THE DROPLET SIZE



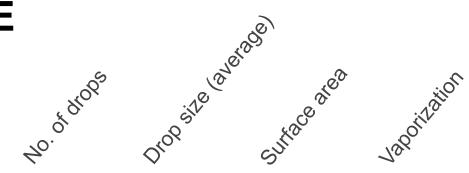


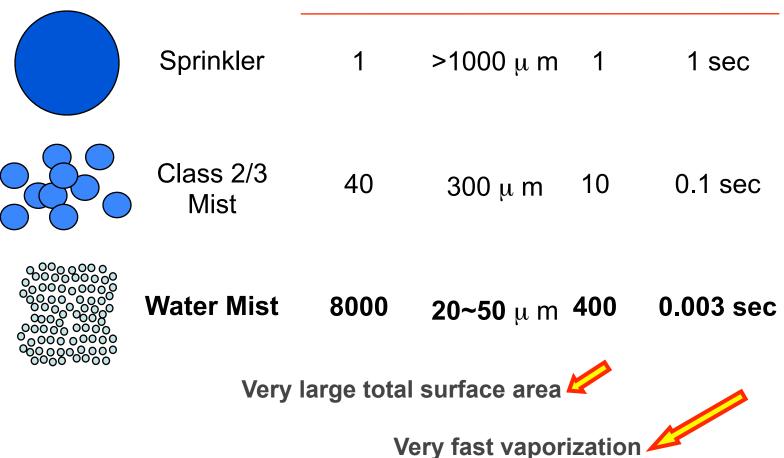
#### THE DROPLET SIZE





#### THE DROPLET SIZE



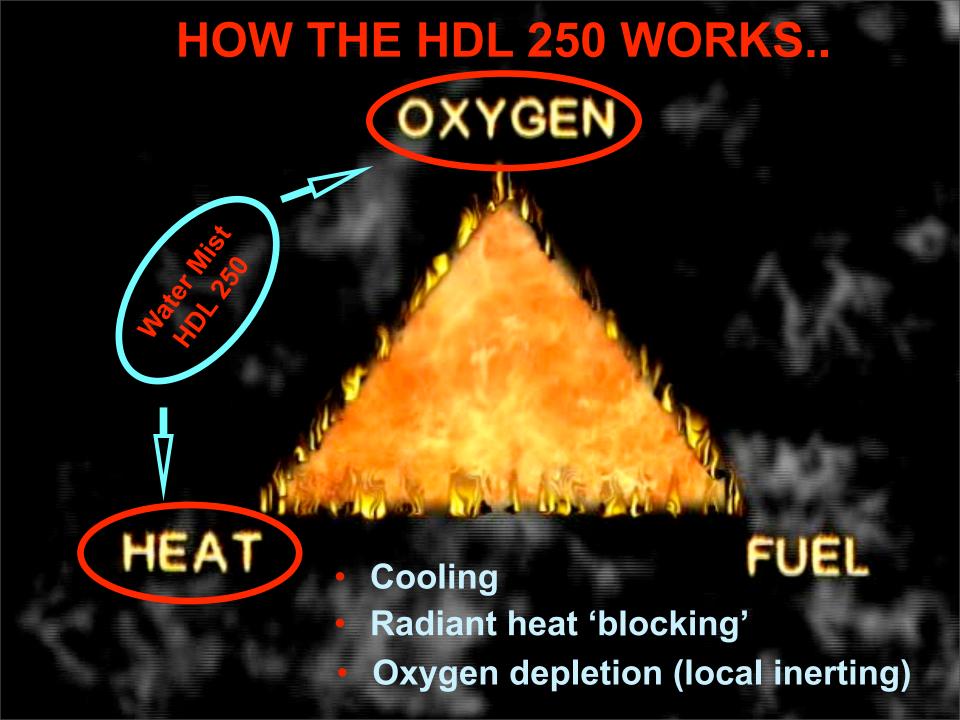


# HOW THE HDL 250 WORKS.. OXYGEN

FUEL

Welling 1941

HEAT



# IN SUMMARY

Large cooling area

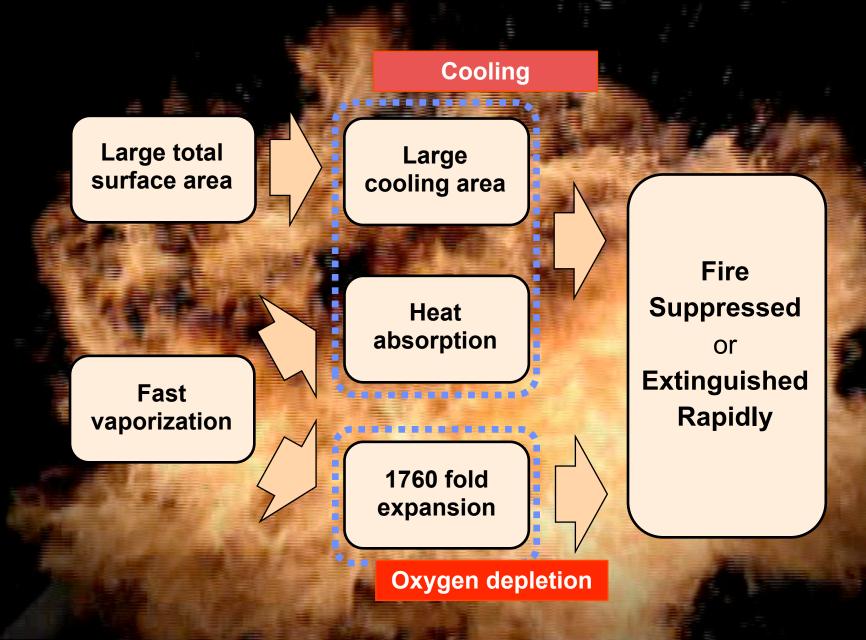
#### .....\*

1760 fold expansion

•••••••••••

...............

## IN SUMMARY













FIRE & SECURITY 2008

25 SECONDS FLAT!

FIRE & SECURITY 2008



























#### HDL-250/200



#### **Technical Data:**

Dimensions	980X560X960 mm or smaller
------------	---------------------------

Weight 156 kg

- Drive 2 Cylinder 4 stroke gasoline engine 13.2 kW
- Start Electric; Recoil rope for emergency starts
- Pump 200 or 250 bar, 20 to 50 microns mist, plunger type
- Hose 60 m high-pressure hose (600 bar)

Water Tank Integral 125 liters (5")

Foam agent injection - Serial

Extinguishing Pistol: Duplex for Spray & low expansion foam, or

Triple Rapid Attack for spray, throw & low expansion foam

- Medium Expansion Attachment for 40 100 times foam expansion rate
- Gasoline, Diesel, Electric Drives; and other options.
- ALSO EXPLOSION-PROOF FOR OIL & GAS or VOLATILE AREAS

















**OERTZEN®** FIRE-TEC

#### **Biological oil removal agent**







#### SUGGESTED ACCESSORIES



#### SLUDGE PUMP ATTACHMENT

For emptying pools of water or sludge from 5 meters below through a 1 1/2" hose. Particles / stones of up to 20-mm will also be sucked out!

#### **FOG NAIL**

For use on fires behind false ceilings without waiting to tear the ceiling down. Also for fires in cotton bales, etc.

#### **'TRIPLEX' ASSAULT GUN**

Just rotate to change from 'mist' to 'foam' to 'throw'.



#### One of the best ways to fight fires is to have an "Effective First Response System – 'in-house'."



# Thank you!