



Colona Fire Department

www.colonafire.com

401 1st Ave. P.O. Box 110

Colona, IL, 61241

Tel: 309-792-3231

Fax: 309-792-3250

6/15/2011

Practical Required Knowledge

Engine 3

Hose Lengths & Pump Pressure Settings

Size	Name / Type	Length	Nozzle	Pump Pressure
1 3/4"	Pre-connects (2)	200 ft.	Fog	130psi
1 3/4"	Trash Line (1)	100 ft.	Fog	115psi
2 1/2"	Pre-connects (2)	200 ft.	Fog	116psi
	Deck / Deluge Gun		Fog	110psi

- **Industrial Lay**

400 ft. of 3" hose to a gated wye to (2) 150 ft each 1 1/2" hose w/ Fog Nozzle (168psi)

Large Diameter Hose

- 1200 ft. of 5" Supply line hose

Water Capacity

- 1250 gallon tank
- 1750 gallons per minute pump
- 1500 gallon port-a-tank

Foam

- 2 Foam Tanks 20 gallon & 40 gallon both contain AFFF Foam
- Can use Foam with Deluge / Deck Gun & Top 1 3/4" Pre-connect

Ladder Sizes:

- 28 ft. Extension Ladder
- 14 ft. Roof Ladder
- 10 ft. Folding / Attic Ladder





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Rescue 2

Pressure Settings

1. Airbag pressure 116 psi
2. Air Chisle pressure 150 psi
3. Water Can pressure 100 psi

4-Gas Monitor / Meter

Gases Measured

- **O₂ – Oxygen** – amount of oxygen in the air. Normal reading should be 21%. As the reading lowers it is very dangerous and could result in death. Readings higher cause fire to burn much faster and stronger. Alarm activates at when level is less than 19.5% or greater than 22%
- **CO - Carbon Monoxide** - colorless, odorless and tasteless, but highly toxic. It combines with blood's hemoglobin making blood ineffective for delivering oxygen to bodily tissues, eventually causing death. Formed from incomplete burning of gases during the burning process. Alarm activates when greater than 35ppm is present.
- **H₂S - Hydrogen Sulphide**- colorless, very poisonous, flammable gas with foul odor of rotten eggs. Alarm activates when greater than 10ppm
- **LEL -Lower Explosive Limit** – measures the % of the lower limit of air mixture that will allow flammable gases to burn or explode. As the % gets closer to 100%, the risk of an explosion increases. Alarm activates when you are in a 10% of LEL environment.





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Rescue 2 (continued)

Combustible Gas Detector



The **SENSIT® HXG-1** instrument is an advanced leak detector capable of detecting many combustible, noncombustible and toxic gases. It features an adjustable tick rate to pinpoint gas leaks. As the tick rate increases the source of the gas is closer. The big orange dial is used to control the initial tick rate. The detector also measures LEL of combustible gases in the environment. It is currently set to sound a different alarm when it reaches 7% of LEL. The % alarm setting is on the back of the device as well as the alarm silence button.