

# ***FIREFIGHTER'S***

## ***PRE-CONNECTED HOSELINE REFERENCE AND PLANNER***

### **HOSE & NOZZLE COMPARISON CHARTS**

*7 charts for various nozzle and hose combos*

- **Nozzle Pressure & Flow**
- **Nozzle Reaction & Personnel Requirements**
- **Cooling Capacity & Efficiency**
- **Indirect Attack Calculations**
- **Hose Friction Loss**
- **Engine Pressures for over 100 Pre-connected Lines**

### **BLANK COMPARISON CHART**

- **Create a Reference Chart for the Hose & Nozzle Layout you're now using**
- **Plan an Improved Layout for your Current or Future Apparatus**

### **APPARATUS LAYOUT CHART *(below)***

- **Diagram your Current or Future Hose & Nozzle Placement**

Formulas used in the creation of these charts were from the IFSTA *Pumping Apparatus Driver/Operator Handbook*, Second Edition; and Grimwood, Hartin, McDonough, and Raffel, *3D Fire Fighting Training, Techniques, and Tactics*, First Edition. Friction Loss Coefficients for Field Conditions were provided courtesy of Battalion Chief (Ret.) Sam Clark of the Harrisburg Bureau of Fire, Harrisburg, PA.

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## HOSE & NOZZLE LAYOUT

PUMP CAPACITY (G.P.M.) \_\_\_\_\_ TANK CAPACITY (GALLONS) \_\_\_\_\_
