

Flow Charts

Need to know the reach of any of our monitors under a particular set of flow and pressure conditions? Fire Pro has a state-of-the-art software suite for calculating flow conditions, reach and in the case of elevated monitors, stress. Here are some of the quantities Fire Pro can calculate and produce detailed charts for:

All Monitors:

- Pressure losses through monitor systems
- Jet reaction forces at the nozzle
- Hydraulic horsepower necessary to produce required flow rate and pressure through any of our monitors
- Waterway velocities
- Pressure losses and velocities through supply piping systems

Elevated monitors:

- Waterway Bending stresses
- Total deflection at the nozzle due to waterway bending stresses
- Monitor safety factor due to bending stresses
- Loads at base of elevated monitors (Necessary for concrete pad construction)

Ask us for a flow and reach chart today!

REACH REPORT

FirePro Stream Trajectories

2.50" STATION MONITOR WITH 500GPM FOG NOZZLE (100PSI@BASE)

Monitor Model #:	FP4-750
Flow Rate (USGPM):	480
Nozzle Angle (Degrees):	45
Nozzle Angle Limits:	
Maximum Nozzle Angle:	80
Minimum Nozzle Angle:	25
Angle Increment:	15
Nozzle Model #:	FP500B-HF
Nozzle Inlet Pressure (PSI):	92.1
N Exponent:	1.88
B Factor:	0.0013

Fire Pro Monitors, 2007 PROPRIETARY INFORMATION

Reach Data is for information purposes only. This data is considered conservative and represents 'effective' reach in still air conditions. Effective reach is the horizontal distance between the nozzle outlet and the center of the footprint where the firestream lands. Only large, tightly grouped slugs of water that would be effective in extinguishing a fire were considered. Overspray and isolated droplets were NOT considered in this report. NOTE: Reach claims in this report represent the performance of Fire Pro products ONLY!