

Foam Eductor Distance

Foam Eductor GPM @ 200 PSI	Fire Control size AFFF & AR-AFFF	Concentrate flow GPM	Nozzle or Hose outlet psi	Distance	Distance	Distance	Distance	Distance	Distance	Distance	
				Hose I.D. 1.5"	Hose I.D. 1.75	Hose I.D. 2	Hose I.D. 2.5	Hose I.D. 3	Hose I.D. 4	Hose I.D. 5	
				LEVEL GROUND	LEVEL GROUND	LEVEL GROUND					
60 gpm	Hydrocarbon 600 sq ft	1%= 0.6	100	300 ft	700 ft	850 ft	3300				
	AFFF & AR-AFFF	3%= 1.8	75	600 ft	1250 ft	1550 ft	6100				
	Polar Solvent 300 sq ft	6%= 3.6	50	850 ft	1850 ft	2200 ft	8800				
			10	1300 ft	2800 ft	3400 ft	13300				
95 gpm	Hydrocarbon 950 sq ft	1%= 1.0	100	100 ft	200 ft	350 ft	1200 ft	3300 ft			
	AFFF & AR-AFFF	3%= 3.0	75	250 ft	350 ft	650 ft	2200 ft	6100 ft			
	Polar Solvent 475 sq ft	6%= 6.0	50	350 ft	500 ft	1000 ft	3200 ft	8850 ft			
			10	550 ft	800 ft	1500 ft	4800 ft	13300 ft			
125 gpm	Hydrocarbon 1250 sq ft	1%= 1.25	100	50	100	250	750	1900			
	AFFF & AR-AFFF	3%= 3.75	75	175	200	450	1400	3500			
	Polar Solvent 625 sq ft	6%= 7.2	50	250	300	650	2200	5100			
			10	400	500	1000	3000	8000			
250 gpm	Hydrocarbon 2500 sq ft	1%= 2.5	100				200 ft	480 ft	3000 ft		
	AFFF & AR-AFFF	3%= 7.5	75				350 ft	880 ft	5500 ft		
	Polar Solvent 1250 sq ft	6%= 15	50				500 ft	1280 ft	8000 ft		
			10				800 ft	1920 ft	12000 ft		
350 gpm	Hydrocarbon 3500 sq ft	1%= 3.5	100				150 ft	250 ft	1250 ft	4800	
	AFFF & AR-AFFF	3%= 10.5	75				250 ft	450 ft	2300 ft	8800	
	Polar Solvent 1750 sq ft	6%= 21	50				400 ft	650 ft	3300 ft	12800	
			10				600 ft	1000 ft	5000 ft	20800	
500 gpm	Hydrocarbon 5000 sq ft	1%= 5	100				50 ft	100 ft	600 ft	2000 ft	
	AFFF & AR-AFFF	3%= 15	75				100 ft	200 ft	1100 ft	3600 ft	
	Polar Solvent 2500 sq ft	6%= 30	50				100 ft	300 ft	1600 ft	5300 ft	
			10				200 ft	450 ft	2400 ft	8000 ft	



NFPA 11 requires a 15 minute foam concentrate supply for spill fires (one-inch or less)

NFPA 11 requires a 65 minute foam concentrate supply for fires in depth (tank type fires)

Eductor back pressure cannot exceed 65% of inlet pressure. BP is sum of hose friction loss, elevation and nozzle pressure.

Put a pressure gauge on eductor inlet and outlet. At 200 psi inlet pressure, do not exceed 130 psi on the outlet gauge (65% of inlet psi).

Distance to hose outlet is based on NFPA friction loss tables and or actual field experience. BE SURE TO ADD OR SUBTRACT ELEVATION HEAD.

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