

COMPARISON CHART

PFA-95 MARINE PORTABLE FOAM APPLICATOR ©™ USPTO
VS

TYPICAL STANDARD PORTABLE FOAM APPLICATOR (PFA) OR IN-LINE EDUCTOR

FEATURES	PFA-95	PFA & IN-LINE EDUCTOR
FOAM VEST SUPPLY DURATION	⇒ 5 1/2 minutes	⇒ 56 seconds to 2 minutes
PRESSURE LOSS	⇒ 1%	⇒ 30% to 40%
RANGE/DISTANCE	⇒ 90 FT at 100 PSI	⇒ 80 FT at 100 PSI
1 1/2" HOSE LENGTH RESTRICTION	⇒ NONE	⇒ 150 FT maximum or 2 hose-lengths. 2 flights on climbing up ladders or stairs.
ELEVATION PROBLEMS??	⇒ NONE	⇒ YES! If Nozzle is elevated too far above the eductor, the eductor will not work!
NOZZLE MATCH	⇒ Same Nozzle can be used for all foam %	⇒ Nozzle must be matched with eductor
PROPORTION SETTINGS	⇒ Ratio Controller 1% 3% 6%.	⇒ Eductor fixed at % for foam concentrate
% ACCURACY	⇒ WITHIN 0.06% OF 1%	⇒ Unknown, but UNRELIABLE !!
MANPOWER	⇒ MINIMUM 1 PERSON	⇒ MINIMUM 2-3 PERSONS
TRAINING TIME	⇒ 15 MINUTES	⇒ ??? UNKNOWN
APPLICATION TIME	⇒ Approximately 15 seconds with Jacket pre-filled	⇒ 5 minutes minimum, provided the parts are located and the foam bucket can be opened with a channel lock plyer.
FOAM QUANTITY	⇒ Fire-fighter can determine how much foam is available without relying on back-up information.	⇒ Fire-fighter must constantly rely on back-up information!
FLOW RESPONSE TIME	⇒ 1/2 SECOND!	⇒ 15 SECONDS !
INTERCHANGEABLE BETWEEN WATER & FOAM WITHOUT SHUT-DOWN	⇒ YES ! Nozzle man can switch from water-to-foam-and-back-to-water easily with just a turn of the foam 1/4 turn valve at any time during PFA-95 operation.	⇒ NO... with all standard eductors.
MINIMUM PSI	⇒ ABS TYPE APPROVED TO COMPLY WITH SOLAS NOMINAL PRESSURE MAINTAINED AT THE FIRE MAINS OF THE SHIP OF 36 PSI TO PRODUCE 1.5m3/MINUTE OF FOAM SOLUTION.	⇒ ??? Most standard portable in-line eductors can only work (produce foam solution) only at a nominal pressure of 75 psi minimum!!
NOZZLE STRAIGHT STREAM AND VARIABLE	YES!	Majority are not. JUST BECAUSE IT LOOKS LIKE RIGHT OR SOUNDS RIGHT DOES NOT MEAN IT IS RIGHT!