

Portable Foam Uniductor UNI-900 (M)

- Hi-Combat® Portable Foam Uniductor
- Venturi-Type Operation

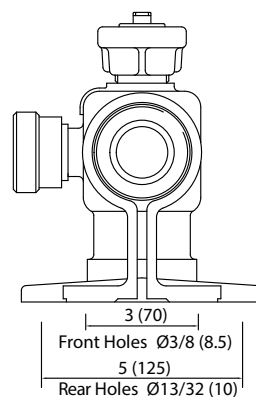
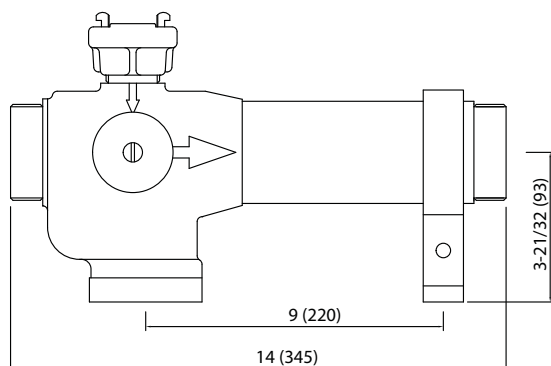


The Angus Hi-Combat® Portable Foam Uniductor UNI-900 (M), when matched with Angus Hi-Combat® foam branchpipes or nozzles, provides the simplest means possible of getting substantial quantities of foam to the fire where it is needed.

These UNI-900 (M) eductors can be placed near a portable pump or hydrant outlet, minimizing manpower requirements and leaving the firefighter to concentrate on effective application of the foam to control the fire situation.

Venturi-Type Operation

This Hi-Combat® Portable Foam Eductor is a venturi-type constant flow device, designed for use with the F900H Hi-Combat® foam branchpipe or other nozzles with the same flow characteristics for quick and reliable response to first aid fire attack duties. The UNI-900 (M) has a flow rate of 238 GPM (900 LPM) at 145 PSI (10 Bar), typically experiencing a 30-35% pressure drop across the unit.



The recommended operating pressure range is 72-145 PSI (5-10 Bar).

The variable eduction control is numbered 1-6 to indicate approximate foam concentrate percentage pick-up for each setting of the control wheel.

Using a Hi-Combat® Portable Uniductor™

If the flow rate of the branchpipe is greater than that of the eductor, range from the branchpipe will be reduced. If the flow rate of the branchpipe is less than that of the eductor, eduction may cease.

The standard unit is available in corrosion resistant light alloy, although a gunmetal version is available where salt-water applications are anticipated.

Normally one or two lengths of Duraline fire hose can be used between each portable eductor and Hi-Combat® branchpipe but it is recommended that a hose with 2½" (64 mm) diameter is chosen for the UNI-900 (M) to minimize pressure losses.

Longer lengths can be used if care is taken to keep the hose as straight and level as possible between eductor and branchpipe.

It is recommended that Hi-Combat® branchpipes are operated no more than 19.5 Ft (6 M) vertically above the Hi-Combat® Portable Eductor to avoid back pressure problems occurring, and achieve maximum performance at the nozzle.

This also avoids the potential risk of water diluting the foam supply, which can be caused by high back pressures occurring due to poor hose configurations, operating up steep slopes, or mismatching of equipment.

Each portable eductor is fitted with a check valve and 3.25 Ft (1 M) long pick-up tube, to allow use with foam pails, drums or temporary reservoirs.

Fixed Installations

For use in fixed installations, the separate range of Angus "FI" IN-LINE EDUCTORS provide a cost-effective, simple and reliable method of proportioning foam concentrate where constant flow conditions prevail.

There are six models in the range with performance extending from 17 to 1057 GPM (65 to 4,000 LPM) at inlet pressures of between 58 to 232 PSI (4 to 16 Bar). Within these limits, the eduction rate can be accurately set between 1% and 6%. Each eductor is accurately calibrated at the factory to match the specific requirements of the system into which it is to be installed.

Portable Foam Uniductor

UNI-900 (M)

The UNI-900 (M) Uniductor is available in two versions; the standard unit is manufactured in Light Alloy and a marine version manufactured in Gunmetal LG4.

PERFORMANCE		
Flow	211 GPM (800 LPM) @116 PSI (8 Bar); 238 GPM (900 LPM) @145 PSI (10 Bar)	211 GPM (800 LPM) @116 PSI (8 Bar); 238 GPM (900 LPM) @145 PSI (10 Bar)
Foam Pick-Up	1% to 6%	1% to 6%
Pressure Range	58-232 PSI (4-16 Bar)	58-232 PSI (4-16 Bar)
Weight	13 Lb. (5.8 Kg.) excludes couplings	16 Lb. (7.3 Kg.) excludes couplings
Length	14 In. (345 MM) excludes couplings	14 In. (345 MM) excludes couplings
Normal Carton Size	6-11/16 x 6-11/16 x 21-1/4 In (170 x 170 x 540 MM)	6-11/16 x 6-11/16 x 21-1/4 In (170 x 170 x 540 MM)

CONSTRUCTION		
	Light Alloy	Gunmetal LG4
Body	Aluminum Alloy	Gunmetal LG4
Outlet	Anodized Aluminum Alloy	Gunmetal LG4
Nozzle	316 Stainless Steel	316 Stainless Steel
Bypass	Gunmetal LG4	Gunmetal LG4
Filter	Stainless Steel	Stainless Steel
Venturi	High Strength Nylon	High Strength Nylon
Dial	Anodized Aluminum Alloy	Bronze
Finish	Epoxy Polyester Coated Red RAL 3002	Natural
Inlet/Outlet	2-Inch BSP Male (optional fittings available on request)	2-Inch BSP Male (optional fittings available on request)
Part Number	M861000D - UNI-900(M) Portable Foam Eductor, 2-Inch BSP Connections	M861010D - UNI-900(M) Portable Foam Eductor, 2-Inch BSP Connections
Part Number	M861100D - UNI-900(M) Portable Foam Eductor, 2-1/2-Inch British Instantaneous Connections	M861110D - UNI-900(M) Portable Foam Eductor, 2-1/2-Inch British Instantaneous Connections

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