



Product Name	Battler 4 x 12
Description	Monitor Trailer
Manufacturer	William's Fire & Hazard Control
Revision	1.1/2024

ASK ABOUT THE PRODUCT

1. Description

The Battler Monitor Trailer is a large flow, mobile firefighting platform capable of large volume discharge to elevations difficult to attain by conventional equipment. The Battler was developed to provide fire suppression, cooling, personnel protection, and toxic gas dispersion. It is designed to flow up to 12,000 gpm (45 424 Lpm) of water or extinguishing foam solution with HYDRO-FOAM technology. The platform provides the operator with smooth and rapid horizontal and vertical movement with a maximum articulation of 360°. This makes the Battler Monitor Trailer a superior weapon in fighting large scale industrial fires and mitigating other extremely challenging hazards.

2. Features

The Battler Monitor Trailer has the following features:

Advanced Hybrid Nozzle Technology – The integrated nozzle on the Battler Monitor Trailer has the capability to perform as an automatic pressure or fixed flow nozzle. During automatic operation, the nozzle responds to varying flows to maintain a nearly constant nominal tip pressure of 100 psi (6.9 bar), maximizing the reach distance for a given discharge flow. This allows the monitor to be extremely useful for applications where the water supply may be inadequate or variable, or to establish initial discharge while more supply lines are being connected.

In fixed flow mode, the nozzle can be pre-set with the included fixed position plugs, or flow stops, to a desired flow rate:

- 15 141 dm³/min,
- 22 712 dm³/min,
- 30 283 dm³/min,
- 37 854 dm³/min,
- 45 424 dm³/min,

As the water supply increases, the flow rate and reach distance increases with a nearly constant K-factor. If the flow is not hitting the target and a distance boost is needed, increase the water supply by increasing the pump engine throttle if the water is supplied by a pump. Once the flow rate hits the set point, it per-

forms as a conventional fixed flow nozzle with a variable K-factor. This mode is important for foam proportioning operations on storage tank fires or other hazards requiring specific application densities, thus a specific flow rate.

HYDRO-FOAM Proportioning – The Battler nozzle is designed with HYDRO-FOAM proportioning at flow rates up to 10,000 gpm (45 424 Lpm) at 1% or 3% using remote jet pump technology for easy and efficient foam application. Jet pumps are supplied with the trailer. Rich foam solution from jet pumps is introduced into the water stream by a 4 in. (M)NPT foam inlet. A flood-plate disperses the rich water and foam solution from the jet pumps around the inner periphery of the master stream for thorough mixing.

Highly Efficient Waterway – The trailer has a 12 in. (300 mm) integrated stainless steel waterway to provide minimum friction loss, maximum efficiency, and reliability. The inlet manifold features standard Storz couplings with caps. Various combinations of inlet sizes are available to provide maximum connectivity. The monitor is built with a 10 in. (250 mm) waterway. The nozzle features a hard coat anodized aluminium and stainless steel assembly.

User-Friendly Operations – The nozzle has a full wrap-around handle attached to the outer sleeve. This handle provides an easy pattern control from full fog for personnel protection, to straight stream for maximum reach and delivery. The monitor allows a full articulation of 360° rotation and +15° to +75° vertical travel. The trailer features an approximately 550 gal (2,000 L) ballast for stability to counteract the reactionary force generated by the large flow. The ballast is below an anti-skid grip deck for firm footing even when the surface is completely wet. The dual gear operated monitor can be easily and safely controlled by a firefighter for pan and tilt. Four point trailer jacks ensure stability during operation.

3. Optional Features

Each Battler Monitor Trailer is supplied as a tandem axle bumper pull trailer with a tool box and foam proportioning package included. The following features are also available:

- European-style light package
- Radio remote-controlled electric/hydraulic monitor control with gear backup
- Custom inlet combination

4. Standard Battler Monitor Trailers

Part number	Flow	Control Type	5" Inlets	6" Inlets	12" Inlets
10275	15140-45420 lpm	Gear Operated	9		
10276	15140-45420 lpm	Gear Operated		8	
10277	15140-45420 lpm	Gear Operated		4	1
10278	15140-45420 lpm	Gear Operated		4	2
20289	15140-45420 lpm	Wireless Remote Control	9		
20290	15140-45420 lpm	Wireless Remote Control		8	
20291	15140-45420 lpm	Wireless Remote Control		4	1
20292	15140-45420 lpm	Wireless Remote Control		4	2

Notes:

All of the above inlets are STORZ style coupling with caps.

All of the above come with a complete foam proportioning system for Hydro-Foam nozzles.

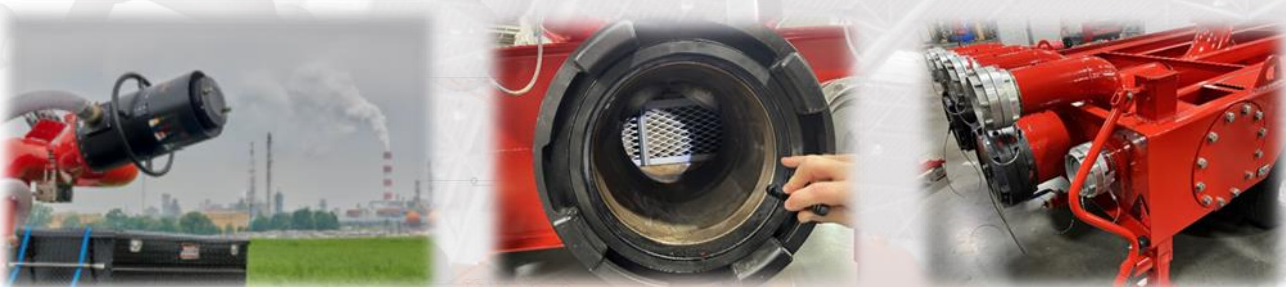
A Williams Fire & Hazard Control JPMA 3-300 Jet Pump Manifold for simplified foam proportioning can also be used

5. JPMA 3-300 Standard

Standardowe modele JPMA 3-300		
Part Number	Water Inlet Connections	Rich Solution Discharge Connections
10232	2,5" (F)NST	2 x 4" Storz
16217	2,5" (M)BI**	2 x 4" Storz
10233	2,5" (F)NST	5" Storz
16218	2,5" (M)BI	5" Storz
10234	2,5" (F)NST	6" Storz
16219	2,5" (M)BI	6" Storz
Adapters		
Part Number	Inlet From JPMA 3-300	Outlet to 3" Battler Foam Hose
20132	4" Storz	4" (M)NPSH
16884	5" Storz	4" (M)NPSH
20133	6" Storz	4" (M)NPSH

* The JPMA 3-300 is an optional foam proportioning device for the Battler Monitor Trailer. It is a safer foam supply alternative to the standard loose jet pumps that come as part of the unit. Therefore, it is not a necessary addition for foam proportioning.

** British Instantaneous (Bi)



6. Technical details

Range of Battler monitor						
Pressure 7 bar						
Flow	Nozzle angle 30°		Nozzle angle 45°		Nozzle angle 80°	
	Range	Height	Range	Height	Range	Height
lpm	m	m	m	m	m	m
15000	112	17	93	40	28	52
23000	129	20	109	43	31	61
30000	135	21	115	47	35	69
38000	140	22	118	50	39	76
45000	147	23	124	53	41	80

Notes:

- Above data for straight stream in still air to 8 km/h tail wind conditio using water only
- Foam decreases range 5-20% ll air. Winds increase stream aspiration andd reduce futher
- Height location is two-thirds water stream range



1% Proportionig for Battler				
Flow	JetPupm			Hose Lay Length at 7 bar
	Jet Pumps	Volume	Valve position	
[lpm]				[m]
15140	2,5 JP 100	1	40	600
22710	2,5 JP 100	1	60	585
30280	2,5 JP 100	1	80	570
37850	2,5 JP 100	1	10	555
45420	1,5 JP 24	1	B	540
	2,5 JP 100	1	100	
3% Proportioning for Battler				
15140	1,5 JP 24	1	B	105
	2,5 JP 100	1	100	
22710	2,5 JP 100	1	100	90
	2,5 JP 100	1	80	
30280	2,5 JP 100	2	100	75
	2,5 JP 100	1	40	
37850	2,5 JP 100	3	100	60
45420	2,5 JP 100	3	100	45
	2,5 JP 100	1	60	

Sample dosing system

Legend:

- 1 – Battler monitor
- 2 – Water supply connection
- 3 – Nozzle foam solution pick-up hose
- 4 – Siameses (foam collector manifold)
- 5 – JRC foam proportioning equipment
- 6 – Foam pick-up hose
- 7 – Foam

