

DELTA DF130 MOBILE FOAM UNIT



INTRODUCTORY NOTES

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- DFA Leaflet
- ISO 9001, ISO 45001 & 14001 Certificate



**DELTA
FIRE**



DF130 MOBILE FOAM UNIT

HIGH CAPACITY FOAM STATION FOR MAJOR RISKS

KEY USERS

- Petrochemicals
- Fuel Storage Sites
- Oil & Gas
- Mining
- Chemical Facilities
- Major Industrials
- Aviation
- Nuclear
- Marine

KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Lloyds Certified
- One-Man Deployable
- Highly Mobile / Easy to Use
- 130 Litre Capacity
- 34,000 Litre Foam Output
- Long Running Times
- Suitable for all Foam Types
- Optional Marinised Version



MK II DF130 Marine Option

Doc Ref: DDS026

DELTA FIRE

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GENERAL DESCRIPTION

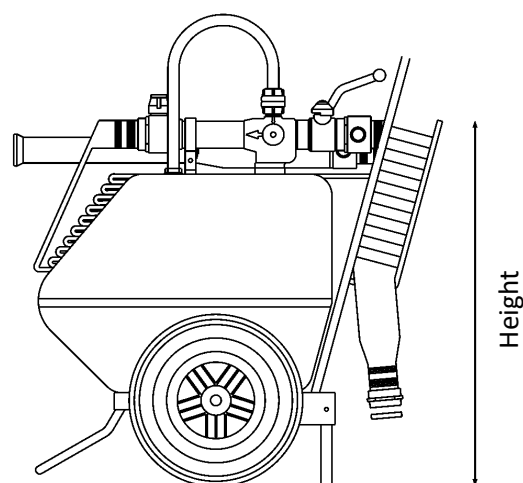
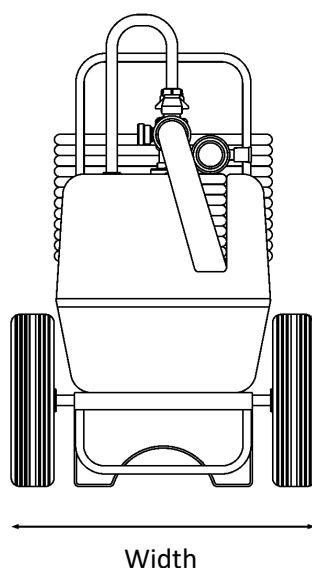
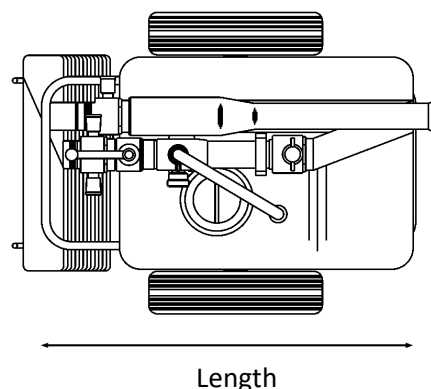
The Delta DF130 Mobile Foam Unit is a one-man deployable, highly mobile, high capacity foam station designed principally for the protection of oil storage and loading terminals, solvent stores, boiler rooms, engine compartments and many other high risk areas. Ergonomically designed and manufactured to exacting standards the DF130 simply requires connection to any suitable pressurized water supply and is capable of run times in excess of 20 minutes producing an output of over 34,000 litres of finished low expansion foam.

Suitable for use with all foam types the DF130 is fitted with a Delta Z-Series foam inductor for accurate proportioning between 1% and 6%. Foam discharge is via a Delta HV-Series foam branchpipe designed to first expand the foam and then accelerate it to high velocity, producing long throws beyond the capability of many older designs. Connecting hoses are neatly stowed and deployed from the DF130 with ease. The special Delta Nova Polyamide hose used on the DF130 is designed to minimise kinking at low pressures enabling enhanced maneuverability in confined spaces.

The DF130 is available in either standard Hi-Viz Yellow or optional International Orange and can be supplied in a fully Marineised version with 316 stainless steel Delta S-Series branchpipe and Gunmetal Z-Series Inductor on request. The DF130 is available with any International hose adaptors for compatibility to existing equipment.

DF130 Mk I Weights and Dims

DF130 Model	Weight (empty) (kg)	Length (mm)	Height (mm) Inc. Pick Up Tube Fitted	Width (mm)
No Hose or Fittings L/A	34.5kg	910mm	1280mm	710mm
No Hose or Fittings G/M	38.0kg	910mm	1280mm	710mm
No Hose or Fittings Marine	40.8kg	910mm	1280mm	710mm
225 or 450 LPM L/A	48.7kg	1130mm	1280mm	760mm
225 or 450 LPM G/M	57.5kg	1130mm	1280mm	760mm
225 or 450 LPM Marine	60.5kg	1130mm	1280mm	760mm
900 LPM L/A	49.5kg	1260mm	1280mm	760mm
900 LPM G/M	58.3kg	1260mm	1280mm	760mm
900 LPM Marine	61.5kg	1260mm	1280mm	760mm



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GENERAL DESIGN

The Delta DF130 range of Mobile Foam Units are the culmination of extensive design and development work over many years resulting in a superior, high performance product suited to a wide spectrum of applications around the world.



Componentry

The DF130 is fitted with the Delta Z-Series Variable Inductor allowing for accurate foam proportioning between 1% & 6%. The HV-Series Branchpipe delivers the foam at high velocity providing fast, effective foam coverage over the risk area laying down a protective blanket of foam suppressing flammable vapours and preventing fire spread.



Connectivity

The DF130 has 2 x 15m lengths of 45mm Nova Polyamide 'all nylon' hose which is neatly stowed for fast deployment. Nova Hose is designed to resist kinking at low pressures enabling ease of maneuverability and maintaining performance at all times. Any type of International hose fitting can be supplied to ensure compatibility with existing equipment.



Foam Tank

The 130 litre capacity foam tank is manufactured from chemically resistant GRP and is fitted with a 'quick-fill' twist off filler cap easily located on the top of the tank. A transparent sight gauge allows the operator to assess foam levels with ease. A Tag Plate provides full traceability for every unit detailing a unique serial number and product specification.



Durability

The DF130 has a corrosion resistant plastic coated frame (handle and chassis) fitted with 400mm wide solid rubber tyres impervious to punctures making the DF130 an 'all-terrain' unit suitable for use on rough ground and for maneuvering over obstacles. An integral support arm stabilises the DF130 when stationary.

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THE RANGE

The DF130 Mobile Foam Unit is available in a choice of three flow rates, 225, 450 or 900 litres per minute and is supplied with either light alloy fittings for Industrial/In-shore applications or Gunmetal fittings for Marine/Off-shore applications.

A fully Marinised version and MK II option is also available for extreme, harsh environment use. All models are available with either Low or Medium Expansion Foam Branchpipes.

Product Code	Expansion	Flow L/Min	Fitting Options	Colour (Yellow Standard, Orange Optional)	Application
FEP700002	Low Expansion	225	Light Alloy	Hi-Viz Yellow or International Orange	Industrial In-shore
FEP700001	Low Expansion	225	Gunmetal	Hi-Viz Yellow or International Orange	Marine Off-shore
FEP710002	Low Expansion	450	Light Alloy	Hi-Viz Yellow or International Orange	Industrial In-shore
FEP710001	Low Expansion	450	Gunmetal	Hi-Viz Yellow or International Orange	Marine Off-shore
FEP720002	Medium Expansion	225	Light Alloy	Hi-Viz Yellow or International Orange	Industrial In-shore
FEP720001	Medium Expansion	225	Gunmetal	Hi-Viz Yellow or International Orange	Marine Off-shore
FEP760002	Medium Expansion	450	Light Alloy	Hi-Viz Yellow or International Orange	Industrial In-shore
FEP760001	Medium Expansion	450	Gunmetal	Hi-Viz Yellow or International Orange	Marine Off-shore
FEP750001	Low Expansion	225	Gunmetal	Hi-Viz Yellow or International Orange	Harsh Environment
FEP760001	Low Expansion	450	Gunmetal	Hi-Viz Yellow or International Orange	Harsh Environment

Other models and colours available on request with minimum production runs.

Designed and Manufactured by Delta Fire in the UK the DF 130 Mobile Foam Unit range is built under an ISO9001 Quality Management Standard from top quality materials including a high quality GRP foam tank, corrosion resistant plastic coated steel frame and solid rubber, non-puncture, tyres.

Manufactured on-site at Delta Fire in the UK the DF130 is suited to a wide range of applications and offers a broad range of different model specifications suited for use in any environment.

Available with a choice of most International hose fittings to suit the customer's specific needs the DF130 is an excellent choice for rapid, one-man deployment, risk protection.



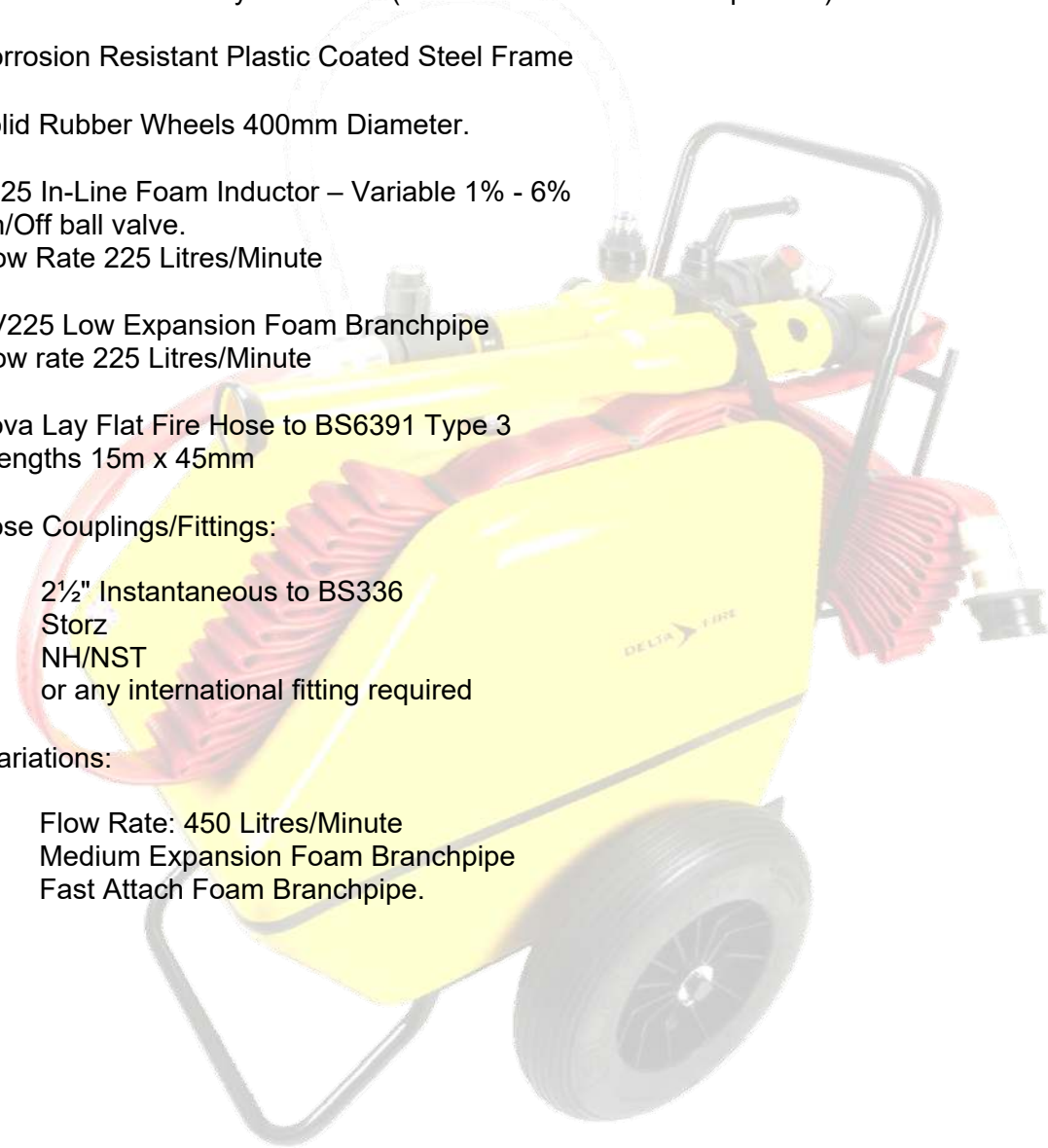
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DELTA DF130 MOBILE FOAM UNIT GENERAL DETAIL

- GRP Tank Chemically Resistant (Suitable for all Foam Compounds)
- Corrosion Resistant Plastic Coated Steel Frame
- Solid Rubber Wheels 400mm Diameter.
- Z225 In-Line Foam Inductor – Variable 1% - 6%
On/Off ball valve.
Flow Rate 225 Litres/Minute
- HV225 Low Expansion Foam Branchpipe
Flow rate 225 Litres/Minute
- Nova Lay Flat Fire Hose to BS6391 Type 3
2 lengths 15m x 45mm
- Hose Couplings/Fittings:
 - 2½" Instantaneous to BS336
 - Storz
 - NH/NST
 - or any international fitting required
- Variations:
 - Flow Rate: 450 Litres/Minute
 - Medium Expansion Foam Branchpipe
 - Fast Attach Foam Branchpipe.



**DELTA DF130 MOBILE FOAM UNIT
PRODUCT SPECIFICATION
DF130-1 Rev B**

1.00 CHASSIS

1.10 Mild steel welded chassis and frame to:

- BS 6323 Part 5 ERW1
- BS 4360 1986 Grade 43A
- BS 970 EN3B 080A15.

1.20 Degrease and iron phosphate to DEF29A Class 4.

1.30 As required grit blast to BS 7079 SA2 or apply Rilsan primer.

1.40 Two coats of Black RAL 9011 nylon to minimum thickness 90 microns.

2.00 FOAM TANK

2.10 130L capacity tank, colour: International Orange.

2.20 Weight: 10.75Kg ± 0.75Kg.

2.30 Isophthalic resin 3 layers 450gm/m² chopped strand matt gel coat.
Gel coat International Orange.

3.00 Z225 INLINE VARIABLE FOAM INDUCTOR

3.10 225 L/min flow – Variable foam inductor 1% to 6%

3.20 LG4 gunmetal body.

3.30 316 stainless steel, nylon 6 and LG4 internal parts.

3.40 Anodised aluminium outlet tube, epoxy polyester coated International Orange.

4.00 HV225 LOW EXPANSION FOAM BRANCHPIPE

4.10 Anodised aluminium HE 30TF Nozzle.

4.20 Anodised aluminium S1C BS 1470 branchpipe, epoxy polyester powder coated International Orange.

4.30 Nitrile rubber buffer.

5.00 FITTINGS

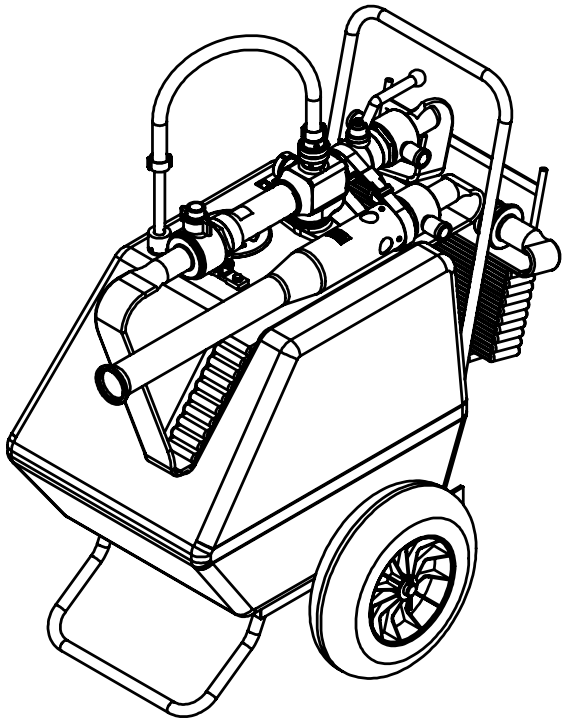
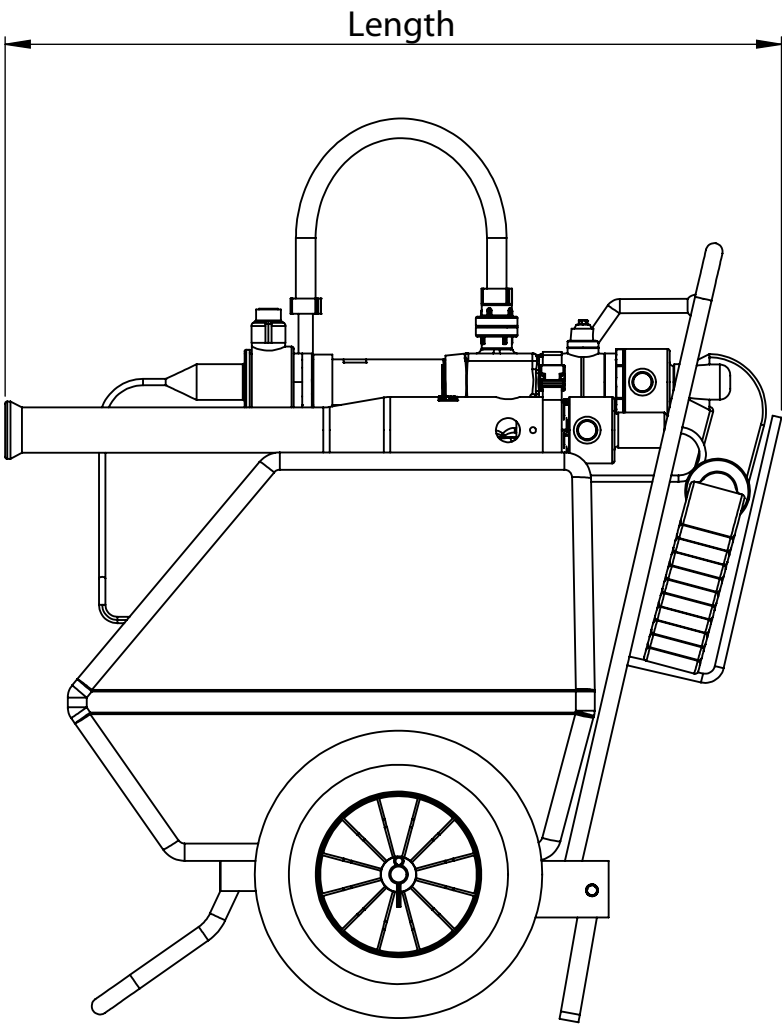
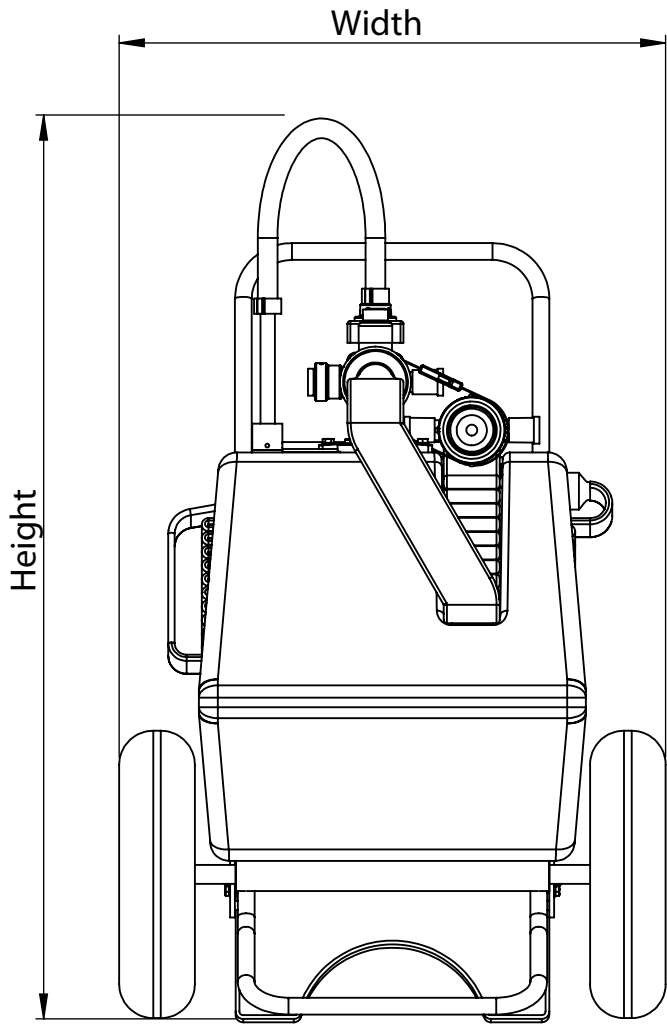
British instantaneous 2½" to BS 336 LM25 aluminum.

All units individually tested, certified and given a unique serial number.

6.00 APPROVALS

DF130 has gained acceptance from Lloyds Register of Shipping for marine and offshore use and is approved by the UK Department of Transport Marine Directorate.



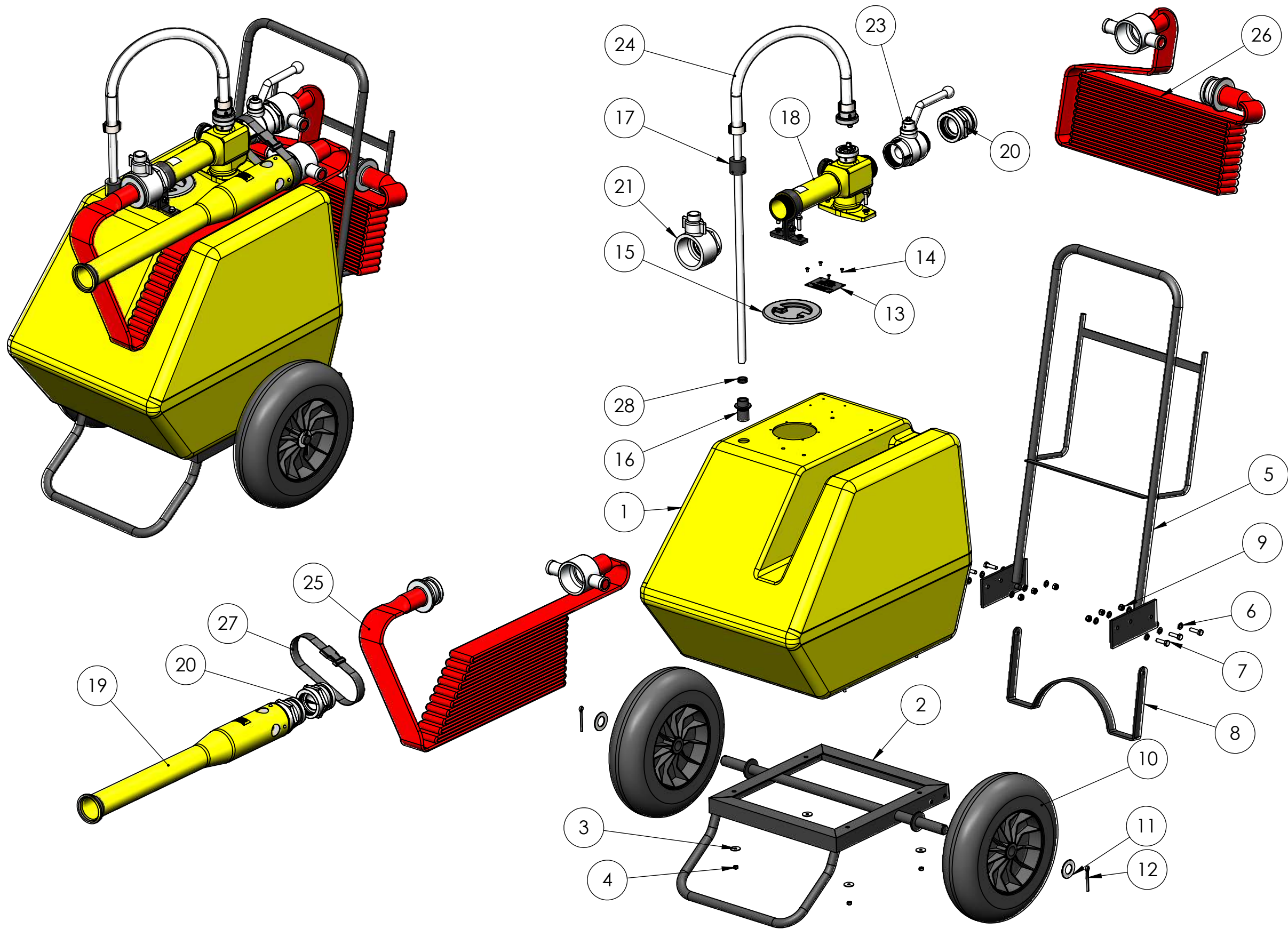
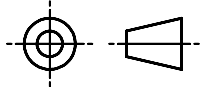


DF130 Mk I Weights and Dims

DF130 Model	Weight (empty) (kg)	Length (mm)	Height (mm) Inc. Pick Up Tube Fitted	Width (mm)
No Hose or Fittings L/A	34.5kg	910mm	1280mm	710mm
No Hose or Fittings G/M	38.0kg	910mm	1280mm	710mm
No Hose or Fittings Marine	40.8kg	910mm	1280mm	710mm
225 or 450 LPM L/A	48.7kg	1130mm	1280mm	760mm
225 or 450 LPM G/M	57.5kg	1130mm	1280mm	760mm
225 or 450 LPM Marine	60.5kg	1130mm	1280mm	760mm
900 LPM L/A	49.5kg	1260mm	1280mm	760mm
900 LPM G/M	58.3kg	1260mm	1280mm	760mm
900 LPM Marine	61.5kg	1260mm	1280mm	760mm

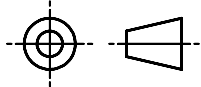
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B	2 off XOR000043 ADDED TO ASSY	2355	23/08/2024	JRS
A	FIRST ISSUE	2324	09/07/2024	JRS
REV.	DESCRIPTION	ECN	DATE	SIG.

 2 BURTT WAY BROADLAND BUSINESS PARK NORWICH NR7 0FE TEL: (+44 (0)1603 735000) FAX: (+44 (0) 1603 735009)	MATERIAL AS PARTS	FINISH AS PARTS	TITLE DF130 MOBILE FOAM UNIT		
	DRAWN JRS	TOLERANCES (UNLESS OTHERWISE STATED) 0. - ±0.2mm 0.0 - ±0.1mm 0.00 - ±0.05mm ANGULAR - ±0.5 °	DRAWING No. FEP700002		REV. C
	DATE 09/07/2024		(1) ALL BURRS AND SHARP EDGES TO BE REMOVED. (2) DO NOT SCALE DRAWING.		
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NOTES:
PROTECTIVE TRANSPORT TAPES, AND FIXED
TRANSPORT BANDS NOT SHOWN, AS THESE ARE
REMOVED BY THE CUSTOMER ON RECEIPT OF THE
PRODUCT.

 2 BURTT WAY BROADLAND BUSINESS PARK NORWICH NR7 0FE TEL: (+44 (0)1603 735000) FAX: (+44 (0) 1603 735009)	MATERIAL AS PARTS		FINISH AS PARTS		TITLE DF130 MOBILE FOAM UNIT			
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					OF 3			



ITEM NO.	Part Number	DESCRIPTION	QTY.
1	XFDMFC101Y	DF130 FOAM CART MOULDING YELLOW	1
2	XFDMFC102	FOAM CART CHASSIS	1
3	XWA060002	M6 PENNY WASHER	4
4	XNU060001	M6 NLOC	4
5	XFDMFC104	FOAM CART HANDLE FRAME	1
6	XWA080001	M8 FLAT WASHER A4	18
7	XSC083008	M8 x 30 HEX HEAD SCREW A4	10
8	XFDMFC103	FOAM CART BACK PIVOT FOOT	1
9	XNU080001	M8 NYLOC	10
10	XFDMFC108	DF130 FOAM UNIT WHEEL	2
11	XFDMFC125	1" WASHER BZP 26 ID 47 OD	2
12	XFDMFC126	3/16" X 2" SPLIT PIN	2
13	XFDMFC140	DF130 SERIAL NUMBER LABEL	1
14	XR0000004	ALUMINIUM DOME RIVET 4.0 x 25mm	4
15	XFDMFC503	FOAM TANK FILLING CAP	1
16	XFDMFC107	TANK BUSH	1
17	XFDMFC110	FOAM PICK UP BREATHER	1
18	FEP201000A	DF130 - Z225 FOAM INDUCTOR 2" BSP MALE LIGHT ALLOY	1
19	FEP000002	HV225 BRANCHPIPE 2.5" INST LA	1
20	ADA001008	2 1/2" INST MALE X 2" BSP F/M LA	2
21	ADA001048	2 1/2" INST FEMALE X 2" BSP F/M LA	1
22	XWA080002	M8 X 25 WASHER	4
23	XNADML207	2" ALLOY BALL VALVE	1
24	XNAZPU106	DF130 INDUCTOR PICK UP ASSEMBLY, L/A STORZ D	1
25	HND100121	NOVA ULTRAFLEX HOSE C/W 2.5" INST L/A COUPLINGS FRONT ASSY	1
26	HND100121	NOVA ULTRAFLEX HOSE C/W 2.5" INST L/A COUPLINGS BACK ASSY	1
27	XFDMFC117	BLACK NYLON STRAP WITH QUICK RELEASE BUCKLE	1
28	XOR000043	O-RING 18.5 I.D. x 2.6mm	2

 2 BURTT WAY BROADLAND BUSINESS PARK NORWICH NR7 0FE TEL: (+44 (0)1603 735000) FAX: (+44 (0) 1603 735009)	MATERIAL AS PARTS	FINISH AS PARTS	TITLE DF130 MOBILE FOAM UNIT			
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Page: 1 of 3
Certificate No: LR2552242SF
Issue Date: 16/04/2025
Expiry Date: 15/04/2030

Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Delta Fire Ltd
Address	2 Burt Way, Broadland Business Park, Norwich, Norfolk, NR7 0FE, United Kingdom
Type	Fire Fighting - Foam Making Unit - Mobile
Description	Mobile Foam Making Trolley Unit - Type: "DF 130"
Trade Name	DF 130
Specified Standard	SOLAS 1974 (as amended), Performance testing

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Bruce McDonald

Global Fire & Safety Manager to Lloyd's
Register North America, Inc.
A member of the Lloyd's Register group

820 Gessner Road, Suite 300, Houston, Texas,
77024, United States

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DESIGN APPRAISAL DOCUMENT

Page: 2 of 3
Certificate No: LR2552242SF
Issue Date: 16/04/2025
Expiry Date: 15/04/2030
Reference: GTSO/FIRE/TA/HH/BM/TSO/24-023508/PRJ11100477360

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2552242SF

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal of Certificate Number LR2006596SF

APPROVAL DOCUMENTATION

Marine Safety Agency Certificate of Inspection and Tests of a DF130 Foam Making Mobile Trolley Unit dated 20 January 2000.

CONDITIONS OF CERTIFICATION

1. DF130 Foam Making Mobile trolley unit consists of: HV225 foam making branch pipe and Z225 inline variable foam inductor as per Delta drawings no: DM-HV225 and DM-Z225 respectively, together with a 130 litre storage tank, general arrangement drawing no: DM-DF130.
2. The unit is to be used in conjunction with a standard hose of diameter not less than 65mm if unlined, or 45mm if lined.
3. Instructions concerning the maintenance and operation are to be supplied.
4. Sample performance using ATC 6% FC 602:

Inlet Pressure	Induction Rate	Expansion Ratio	Foam Solution	Range of Throw	Foam Rate
(bar)	(%)	-	(l/min)	(m)	(m3/min)
7.0	6.0	-	195.0	12	1.9

5. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
6. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, are fully compliant with the relevant statutory regulate and Lloyd's Register Class rules as applicable and are designed, manufactured, and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.



DESIGN APPRAISAL DOCUMENT

Page: 3 of 3
Certificate No: LR2552242SF
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Reference: GTSO/FIRE/TA/HH/BM/TSO/24-023508/PRJ11100477360

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2552242SF

PLACE OF PRODUCTION

Delta Fire Limited

2 Burt Way, Broadland Business Park,
Norwich, Norfolk,
NR7 0FE,
United Kingdom (UK)

B. McDonald

Bruce McDonald
Global Fire & Safety Manager
Lloyd's Register Americas

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)

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Certificate of Inspection and Tests

This is to certify that:

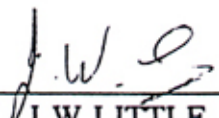
a specimen of: a DF130 Foam Making Mobile Trolley Unit

manufactured by: Delta Fire Limited
8 Mission Road
Rackheath Industrial Estate
Norwich
NR13 6PL

and described in the attached schedule has been examined and tested. The Secretary of State is satisfied that the specimen examined and tested is acceptable for the purpose of complying with the requirements of:

- a. The Merchant Shipping (Fire Protection) Regulations 1984,
- b. The Merchant Shipping (Fire Appliances) Regulations 1980,
- c. The Merchant Shipping (Fire Protection) (Ships Built Before 25th May 1980) Regulations 1985.
- d. The International Convention for the Safety of Life at Sea consolidated text of the 1974 SOLAS Convention, the 1978 SOLAS Protocol as amended by the SOLAS Amendments to date.

provided that the conditions attached to the schedule are fulfilled and the item remains satisfactory in service.

Signed 
J W LITTLE

Issued by the Marine Safety Agency this 20 day of January 1995

Note

This Certificate does not apply to equipment which has been varied or modified from the specimen tested. The manufacturer must submit modified equipment for consideration by this Agency, if they wish to obtain for it a valid Certificate of Inspection and Tests.

DELTA DF130 MOBILE FOAM UNIT OPERATION / MAINTENANCE

The DF130 Mobile Foam Cart is designed for simplicity of use and ease of maintenance. All that is required to operate the unit is a pressured water supply with a supply pressure of between 5 and 16 bar. 10 bar pressure is the operating ideal.

1 INSTRUCTIONS FOR USE

- 1.1 Fill the foam tank with a maximum of 130 Litres of a Foam Concentrate and set the % dial on the inductor to the required pick up percentage (usually 3% or 6%).
- 1.2 Check that the On/Off Ball Valve is in the off position on the Inductor and that the hoses, inductor and branchpipe are connected.
- 1.3 Remove the Supply Hose from the carrying support on the handle.
- 1.4 Connect the male Instantaneous hose coupling of the water Supply Hose to a closed hydrant valve.
- 1.5 The Foam Branchpipe Delivery Hose should be unflaked by the Branchpipe man.
- 1.6 The unit is now ready for use and the delivery hose can be pressurized. Foam production can now be controlled by the inductor On/Off ball valve.

2 MAINTENANCE

Minimal Maintenance is required but the Key factor is to flush the unit thoroughly after use with fresh water.

The procedure is as follows:-

- 2.1 Remove the foam pick-up from the tank or temporarily disconnect the one inch Storz connector on the top of the inductor. (This stops the inductor picking up foam concentrate during the flushing process).
- 2.2 Flush with clean fresh water for one minute.
- 2.3 Reconnect the Storz coupling or re-insert the pick-up tube into the tank.
- 2.4 Clean the hoses of necessary and reflake. (Leave the unpressurised supply hose connected to the ring main hydrant valve if required).
- 2.5 Refill the tank to just below the lid lip to recharge the unit.

3 PERIODIC MAINTENANCE / INSPECTION

The foam units should be inspected and tested at least annually with a full function test. The fire hoses should first be tested at a proof pressure of 1.5 times the maximum water supply pressure with no sign of leakage under pressure for a minimum of 2 minutes. If any coupling seals are worn/damaged they should be replaced before this test.

It is also recommended that a 0.5 litre sample of the foam concentrate be taken annually from the foam unit and sent for analysis at a recognised foam test laboratory.



**DELTA
FIRE**



HV & S-SERIES FOAM BRANCHPIPES

LOW EXPANSION

KEY USERS

- Fire & Rescue Services
- Marine
- Petrochemicals
- Fuel Storage Sites
- Oil & Gas
- Mining
- Chemical Facilities
- Major Industrials
- Aviation
- Nuclear

KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Lloyds Certified
- Long Throw Capability
- Suitable for all Foam Types
- Various Flow Options
- Self-Inducing Models
- Fully Marinised Options
- Optional On/Off Ball Valve
- All International Inlets



**Self-Inducing HV-Series
Foam Branchpipe**

Doc Ref: DDS027



DELTA FIRE

Broadland Business Park, Norwich, Norfolk, UK, NR7 0FE

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www.deltafire.co.uk

GENERAL DESCRIPTION

The Delta HV-Series of Foam Branchpipes have been designed for use with all foam types including Fluoroproteins, AFFF's, FFFP's and All-Purpose Alcohol Resistant foams. Designed to first expand and then accelerate the foam to high velocity the HV-Series is capable of long throws beyond the range of many older designs. Standard models are designed for use in conjunction with Delta Z-Series Variable Foam Inductors and Self-Inducing models with quick release pick-up sticks are also available for foam induction direct from the drum.

Manufactured by Delta in the UK the HV-Series has a light alloy body, powder-coated inside and out for resistance to corrosion. Finished in epoxy coated polyester International Orange or High-Viz Yellow the HV-Series can be supplied with a wide range of International inlet adaptors for compatibility to existing hoselines.

A fully Marinised S-Series version is also available, manufactured with a 316 stainless steel body and LG2 gunmetal nozzle for use in extreme off-shore environments where regular contact with salt water and saline atmospheres is expected.

Optional On/Off ball valves can be supplied for ease of operator control and carrying handles are fitted as standard on the larger HV-450 & HV-900 models.



Designed and Manufactured by Delta Fire in the UK the HV-Series Foam Branchpipe range is built under an ISO9001 Quality Management Standard from top quality materials and rigorously tested prior to dispatch.



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GENERAL DESIGN

The Delta HV-Series Foam Branchpipes are the culmination of extensive design and development work over many years resulting in a superior, high performance product suited to a wide spectrum of applications around the world.



HV-Series

The standard range of Delta HV-Series Foam Branchpipes is available in a choice of three flow rates – 225, 450 and 900 litres per minute and designed to be paired to a Delta Z-Series Variable Foam Inductor with matching flow rate. The larger 450 & 900 models are fitted with carrying handles as standard.



HV-Series (Self-Inducing)

Delta's Self-Inducing HV-Series Foam Branchpipes allow the operator to induce the foam concentrate directly from the drum via a pick-up tube and stainless steel drum piercer negating the need for a separate foam inductor. This option is also available in three flow rates – 225(S), 450(S) & 900(S).



S-Series

A fully Marinised S-Series version is available for use in harsh environments and saline atmospheres and is designed to withstand corrosion and degradation from use with salt water. Manufactured with a 316 stainless steel body and LG2 Gunmetal nozzle the S-Series is ideal for all in-shore & off-shore Marine applications. Available in either Standard or Self-Inducing models.



Ball Valve Control (Optional)

All Delta HV & S-Series Foam Branchpipes can be supplied with lever-operated 'On/Off' ball valves as an optional extra. This allows the operator to have total control over the flow of foam at all times. Available in Light Alloy or Marine Brass to suit all climates and applications.



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THE RANGE

The Delta HV-Series of Foam Branchpipes covers all possible applications for fast, effective discharge of low-expansion foam. With a choice of epoxy powder coated models or fully Marinised stainless steel models and Standard or Self-Inducing options, the HV-Series can be supplied in either International Orange or High-Viz Yellow and fitted with a wide range of International inlet adaptors for compatibility to existing hoses. Optional On/Off ball valves are available in either Light Alloy or Brass for ease of Operator control.

Product Code	Model	Inlet	Flow L/Min	Body material	Colour Options
FEP001028	HV225	2" BSP Male	225	Epoxy Powder Coated Light Alloy	Hi-Viz Yellow or International Orange
FEP011028	HV450	2" BSP Male	450	Epoxy Powder Coated Light Alloy	Hi-Viz Yellow or International Orange
FEP021028	HV900	2" BSP Male	900	Epoxy Powder Coated Light Alloy	Hi-Viz Yellow or International Orange
FEP031028	HV225S Self-Inducing	2" BSP Male	225	Epoxy Powder Coated Light Alloy	Hi-Viz Yellow or International Orange
FEP041000	HV450S Self-Inducing	2" BSP Male	450	Epoxy Powder Coated Light Alloy	Hi-Viz Yellow or International Orange
FEP051028	HV900S Self-Inducing	2" BSP Male	900	Epoxy Powder Coated Light Alloy	Hi-Viz Yellow or International Orange
FEP091003	S200	2" BSP Male	200	316 Stainless Steel + Gunmetal Nozzle	Natural Finish Stainless Steel
FEP101028	S400	2" BSP Male	400	316 Stainless Steel + Gunmetal Nozzle	Natural Finish Stainless Steel
FEP111028	S900	2" BSP Male	900	316 Stainless Steel + Gunmetal Nozzle	Natural Finish Stainless Steel
FEP121000	S200S Self-Inducing	2" BSP Male	200	316 Stainless Steel + Gunmetal Nozzle	Natural Finish Stainless Steel
FEP131028	S400S Self-Inducing	2" BSP Male	400	316 Stainless Steel + Gunmetal Nozzle	Natural Finish Stainless Steel
FEP141028	S900S Self-Inducing	2" BSP Male	900	316 Stainless Steel + Gunmetal Nozzle	Natural Finish Stainless Steel
XNADML207	Optional On/Off Ball Valve			Light Alloy	Natural Finish
MIS220002	Optional On/Off Ball Valve			Brass	Natural Finish

Typical Performance

Standard Model	HV225	HV450	HV900		S200	S400	S900
Self-Inducing	HV225S	HV450S	HV900S		S200S	S400S	S900S
Nominal Flow 5 Bar	200	400	800		200	400	800
L/Min 7 Bar	225	450	900		225	450	900
Foam Expansion	6-10	6-10	6-10		6-10	6-10	6-10
Range (mtr) @ 7 Bar *	18-22	20-24	22-26		18-22	22-24	22-26
Length (mm)	740	880	1010		825	825	975
Weight (Kg)	2.2	2.6	3.0		2.9	2.9	3.8

*Effective Range in still air conditions - typical throw performance using standard AFFF Foam



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**DELTA
FIRE**



Z-SERIES VARIABLE INLINE INDUCTORS

VARIABLE 1% - 6%

KEY USERS

- Fire & Rescue Services
- Marine
- Petrochemicals
- Fuel Storage Sites
- Oil & Gas
- Mining
- Chemical Facilities
- Major Industrials
- Aviation
- Nuclear

KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Lloyds Certified
- Simple to Use
- Fully Portable
- Various Flow Options
- Variable Foam Induction
- Fully Marinised Options
- All International Inlets



**225, 450 & 900 Litre per
minute Flow options**

Doc Ref: DDS029

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GENERAL DESCRIPTION

The Delta Z-Series of Variable Inline Foam Inductors provide a simple, cost effective means of introducing foam concentrates into the water stream. Fully variable and calibrated to pick up the foam concentrate between 1% & 6% the Z-Series range is manufactured in high quality materials and designed for use in conjunction with Delta Low and Medium Expansion Foam Branchpipes or equivalent types. Very simple to use and fully portable the Z-Series are suited to a wide range of Industrial & Marine sectors.

The Standard Z-Series range is manufactured with an epoxy polyester coated Aluminium or LG4 Gunmetal body for excellent corrosion resistance and boasts a stainless steel nozzle and filter. A fully Marinised version is also available with all stainless steel and Gunmetal componentry for use in extreme environments where harsh, saline atmospheres exist.

Supplied as standard with a quick release flexible foam pick-up tube and stainless steel drum piercer the Z-Series is fitted with BSP threaded inlet and outlet for flexibility of use with any type of International inlet adaptor. Colour options in High-Viz Yellow (optional International Orange)



Designed and Manufactured by Delta Fire in the UK the Z-Series Foam Inductor range is built under an ISO9001 Quality Management Standard from top quality materials and rigorously tested prior to dispatch.



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GENERAL DESIGN

The Delta Z-Series range of Variable Foam Inductors are the culmination of extensive design and development work over many years resulting in a superior, high performance product suited to a wide spectrum of applications around the world.



Applications

Designed as a fully portable, easy to use, low cost means of inducing foam concentrate into the water stream the Z-Series can be used in conjunction with any foam discharge device including Branchpipes, Hi-Ex Generators and Fire Monitors.



Flow Engineering

Delta's Z-Series Variable Inductors are flow engineered to provide three flow options – 225, 450 or 900 litres per minute to cater for all types of fire and spill risks.

Fixed, bespoke flow options are also available for integration into fixed foam suppression systems.



Materials

The Z-Series are manufactured with a choice of either Light Alloy or Gunmetal bodies to suit the environment of use. Both options have stainless steel nozzles and filters and a fully Marinised option is available for use in harsh saline atmospheres.

A wide choice of light alloy or gunmetal International adaptors are available for ease of connection to existing equipment.



Features

Z-Series Inductors are designed to pick up foam concentrate at either 1%, 3% or 6%, easily selected via a twist operated dial mounted on the side of the body.

A stainless steel drum piercer and quick release pick-up tube is supplied as standard with all models.



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THE RANGE

The Delta Z-Series of Foam Inductors covers all possible applications for fast, effective induction of foam concentrate into the water-stream. With a choice of epoxy powder coated models in International Orange or High-Viz Yellow or Natural Finish fully Marinised Gunmetal models, the Z-Series can be fitted with a wide range of International inlet adaptors for compatibility to existing hoses.

Product Code	Model	Inlet/Outlet	Flow L/Min	Body material	Colour Options
FEP201002	Z225	2" BSP Male	225	Light Alloy	Hi-Viz Yellow or International Orange
FEP211002	Z450	2" BSP Male	450	Light Alloy	Hi-Viz Yellow or International Orange
FEP221002	Z900	2" BSP Male	900	Light Alloy	Hi-Viz Yellow or International Orange
FEP201001	Z225	2" BSP Male	225	Gunmetal	Hi-Viz Yellow or International Orange
FEP211001	Z450	2" BSP Male	450	Gunmetal	Hi-Viz Yellow or International Orange
FEP221000	Z900	2" BSP Male	900	Gunmetal	Hi-Viz Yellow or International Orange
Fully Marinised Versions with Gunmetal Outlet Tube					
FEP201003	Z225M	2" BSP Male	225	Gunmetal	Hi-Viz Yellow or International Orange
FEP211003	Z450M	2" BSP Male	450	Gunmetal	Hi-Viz Yellow or International Orange
FEP221003	Z900M	2" BSP Male	900	Gunmetal	Hi-Viz Yellow or International Orange

Spares

XNAZPU101	Pick-Up Stick & Stainless Steel Drum Piercer – Light Alloy Connections
XNAZPU102	Pick-Up Stick without Drum Piercer - Light Alloy Connections
XNAZPU103	Pick-Up Stick & Stainless Steel Drum Piercer – Gunmetal Connections
XNAZPU104	Pick-Up Stick without Drum Piercer – Gunmetal Connections



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**DELTA
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M-SERIES FOAM BRANCHPIPES

MEDIUM EXPANSION

KEY USERS

- Fire & Rescue Services
- Marine
- Petrochemicals
- Fuel Storage Sites
- Oil & Gas
- Mining
- Chemical Facilities
- Major Industrials
- Aviation
- Nuclear

KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Long Throw Capability
- Stainless Steel Body
- Various Flow Options
- Stable Foam production
- Optional Pressure Gauge
- Optional On/Off Ball Valve
- Compact & Lightweight
- All International Inlets



**225, 450 & 900 Litre per
minute Flow options**

Doc Ref: DDS028



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GENERAL DESCRIPTION

The Delta M-Series Medium Expansion Foam Branchpipes have been designed for use with all foam types, producing long throws and coherent flows of stable medium expansion foam over a wide pressure range. The M-Series are strong, compact and lightweight and designed for use in conjunction with Delta Inline Foam Inductors.

Perfectly suited for tackling fire scenarios where rapid foam coverage is essential the M-Series Branchpipes require minimal water for effective fire suppression or blanket coverage of inflammable liquid spills. They are also the perfect choice for use with many of the new hazard material vapour suppression foams. Perfect powerful jets of medium expansion foam are produced, even at low branchpipe inlet pressures. Optimum inlet pressures are between 2 to 7 bar depending on the foam type. The M-Series have a stainless steel body available in a choice of three flow options and can be supplied in either International Orange, High-Viz yellow or Natural finish.

Optional pressure gauge and On/Off ball valves can be supplied for ease of operator control and carrying handles are fitted as standard on all models. Supplied with 2" BSP male threaded inlets the M-Series can accept any International inlet adaptor for compatibility to existing hoselines.



Designed and Manufactured by Delta Fire in the UK the M-Series Foam Branchpipe range is built under an ISO9001 Quality Management Standard from top quality materials and rigorously tested prior to dispatch.



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GENERAL DESIGN

The Delta M-Series Foam Branchpipes are the culmination of extensive design and development work over many years resulting in a superior, high performance product suited to a wide spectrum of applications around the world.



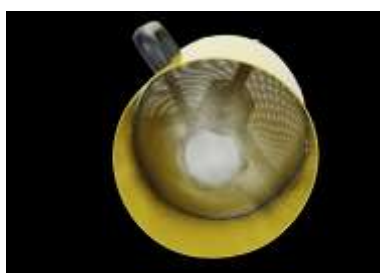
Applications

Rapid coverage of flammable liquid spills.
Hazmat vapour suppression.
Extinguishment of fires with difficult access.
Total foam flooding of cellars, cable ducts and small enclosures.
Fixed versions available for Bund and Dyked protection.



Flow Engineering

Delta's M-Series Medium Expansion Foam Branchpipes are flow engineered to provide three flow options – 225, 450 or 900 litres per minute to cater for all types of fire and spill risks.
Fixed, bespoke flow options are also available for integration into fixed foam suppression systems.



Materials

The M-Series are manufactured with a stainless steel body and mesh net for excellent corrosion resistance and can be supplied in a choice of finishes. Available with either black epoxy powder-coated or bronze nozzle holders the M-Series is incredibly robust and suited for use in any environments. A wide choice of light alloy or gunmetal International adaptors are available for ease of connection to existing equipment.



Optional Extras

All Delta M-Series Foam Branchpipes can be supplied with lever-operated 'On/Off' ball valves as an optional extra. This allows the operator to have total control over the flow of foam at all times. Available in Light Alloy or Marine Brass to suit all climates and applications. A pressure gauge is also available for accurate monitoring of inlet pressures.



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THE RANGE

The Delta M-Series Foam Branchpipes covers all possible applications for fast, effective discharge of medium-expansion foam. With a choice of epoxy powder coated models in International Orange or High-Viz Yellow or Natural Finish stainless steel models, the M-Series can be fitted with a wide range of International inlet adaptors for compatibility to existing hoses.

Optional On/Off ball valves (light alloy or brass) and Pressure Gauges are available for ease of Operator control.

Product Code	Model	Inlet	Flow L/Min	Body material	Colour Options
FEP061028	M225	2" BSP Male	225	Stainless Steel	Hi-Viz Yellow, International Orange or Natural Finish
FEP071028	M450	2" BSP Male	450	Stainless Steel	Hi-Viz Yellow, International Orange or Natural Finish
FEP081029	M900	2½" BSP Male	900	Stainless Steel	Hi-Viz Yellow, International Orange or Natural Finish
XNADML207	Optional On/Off Ball Valve			Light Alloy	Natural Finish
MIS220002	Optional On/Off Ball Valve			Brass	Natural Finish
XFEDMM213	Optional Pressure Gauge				Black Case/White Case

PERFORMANCE

Model	M225		M450		M900	
Operating Pressure	3	4	3	4	3	4
Nominal Flow (L/Min)	200	225	400	450	800	900
Foam Expansion	50		50		50	
Maximum Throw (m)	8		10		12	
Length (mm)	385		465		745	
Diameter (mm)	198		235		340	
Weight (Kg)	3.5		4.5		8.0	

FIXED MODELS (MX-SERIES)



A fixed version of the M-Series, the Delta MX-Series Bund Pourers, are designed for both fire protection systems and vapour suppression in bunded or dyked areas surrounding flammable liquid or toxic chemical storage tanks. They are also ideally suited to other applications where large volumes of free flowing foam are required such as Process Areas, Warehouses and Cable Ductings etc. Bespoke flow-engineering is available to suit the specific system design. For further information please see MX-Series Foam Bund Pourer Data Sheet.



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**DELTA
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FAST ATTACK FOAM BRANCHPIPES

KEY USERS

- Fire & Rescue Services
- Airport Fire Services
- Major Industrials
- Chemical Facilities
- Waste Recycling
- Mining
- Nuclear

KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Fast Fire Knockdown
- On/Off Squeeze Trigger Action
- Jet to Spray/Fan Function
- Stainless Steel Foam Barrel
- Lightweight & Maneuverable
- Available with any International Inlet fitting



Fast Attack in Action

Doc Ref: DDS042



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GENERAL DESCRIPTION

The Delta **Fast Attack Foam Branchpipe** provides maximum operator fire control in emergency situations thanks to effortless operation between foam jet and spray/fan modes. The On/Off squeeze trigger allows easy control over the quantity of foam used conserving supplies and facilitating rapid movement and targeted foam application within the risk area.

Ideal for use on Rapid Intervention Vehicles for aircraft crash protection and helicopter landing areas, the Fast Attack is also perfectly suited to a wide range of high risk areas such as fuel loading bays where substantial spill fires may occur.

The Fast Attack is available in two flow options and designed to match the Delta Z225 or Z450 Variable In-Line Foam Inductors and can also be used on the Delta DF130 Mobile Foam Units.

Manufactured with a stainless steel foam tube and spreader the Fast Attack is supplied as standard with 2" BSP male threaded inlet for compatibility to a wide range of British & International inlet adaptors.

THE RANGE

Product Code	Model	Inlet	Inlet Pressure	Flow Rate	Full Jet		Full Fan	
					Throw	Spread	Throw	Spread
FEP801008	DFA225	2" BSP Male	7 Bar	225 LPM	16m	1.4m	7m	4.5m
FEP811028	DFA450	2" BSP Male	7 Bar	450 LPM	19m	1.5m	9m	5m

TECHNICAL DATA

Body Material	316 Stainless steel
Foam Spreaders	316 Stainless Steel
Pistol Grip	Epoxy Coated Alluminium
Inlet	2"BSP Male (Alternative British & International Inlets available)
Length	750mm
Width	140mm
Height	220mm
Weight	5kg



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Certificate of Approval

This is to certify that the Management System of:

Delta Fire Ltd

2 Burt Way, Broadland Business Park, Norwich, NR7 0FE, United Kingdom

has been approved by LRQA to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 0015918

The scope of this approval is applicable to:

Design and manufacture of foam and water spray equipment and systems. Manufacture and testing of fire hose assemblies. Manufacture, service and repair of nozzle assemblies. Testing of foam samples to established acceptance criteria.

This certificate is a continuation of a previous approval from another certification body as follows:

Previous original ISO 9001 approval on 02-FEB-1996, SGS certificate number GB96/6511



David Derrick

Regional Director, UKAM

Issued by: LRQA Limited



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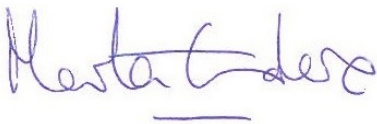
has been approved by LRQA to the following standards:

ISO 14001:2015, ISO 45001:2018

Approval number(s): ISO 14001 – 00043446, ISO 45001 – 00043447

The scope of this approval is applicable to:

Design and manufacture of foam and water spray equipment and systems. Manufacture and testing of fire hose assemblies. Manufacture, service and repair of nozzle assemblies. Testing of foam samples to established acceptance criteria.



Marta Escudero

Regional Director, United Kingdom and Americas (UKAM)

Issued by: LRQA Limited

