

شرکت NK در زمینه طراحی و تامین سیستم های اطفاء حریق با استفاده از فوم با ضریب انبساط بالا یا High Expansion Foam فعالیت دارد.

- High Pressure CO2

- Low Pressure CO2

- High Expansion Foam

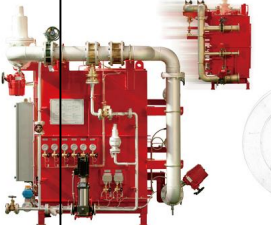
System Description
HIGH EXPANSION FOAM
 NK's TRIPLE-EX protects ship machinery spaces and the pump room, as a total flooding system that is an alternative to the Halon and CO2 systems.

Advantage

- Higher expansion ratio
- Quick operation
- Less installation space
- Less residue after fire extinguishing
- Easy maintenance

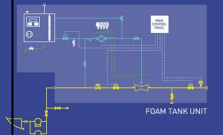
Application

- Engine Room
- Purifier Room
- Paint Store
- Pump Room



Features

- External independent heating according to IMO MSC/Circ. 1165 and Circ.1271
- Compliance with SOLAS requirements and approved by major class societies-LR, DNV, GL, ABS, BV, NK and KR.



TRIPLE-EX is designed with inside air and has a good capacity to generate foam-releasing smoke-controlled air. It also has excellent stability for high temperature and reduces smoke-contaminated air sources.

- Low Expansion Foam

- INERGEN

- Dry Chemical Powder

- Water Mist

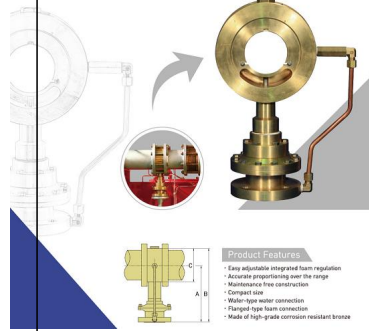
- FM-200

FOAM PROPORTIONER

MK's balanced foam proportioner is designed to introduce foam concentrate into the firewater at a pre-determined rate. Foam proportioner can be adjusted in the range of 1:20, using the adjustable nozzle. There are three basic models with 100, 150 and 200 litre capacity and the water/foam ratio is fixed between the pipe connection.

Balanced Pressure Proportioner Data

TYPE	CONNECTION	NOZZLE	MAX CAPACITY	WEIGHT	MATERIAL	FOAM	SIZE (mm)		
	FOAM	WATER	L/PMIN	KG		ADJUSTABLE	A	B	C
PS 100/100A	JIS 10K-20	JIS 10K-100	300-3,000	24	BRONZE	1:1.5	31.5	168.5	102
PS 150/150A	JIS 15K-20	JIS 15K-100	450-4,500	32	BRONZE	1-1.5	31.5	168.5	102



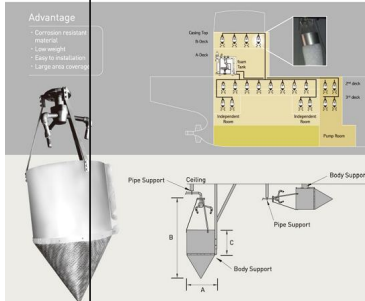
- Product Features**
- Easy adjustment through float foam regulation
 - Accurate proportioning over the range
 - Maintenance free construction
 - Compact size
 - Water spray nozzle construction
 - Flanged type foam connection
 - Made of high-grade corrosion resistant bronze

FOAM GENERATOR

MK's foam generators use bubble air to protect ship machinery spaces and the pump room.

Foam Generator Data

DESCRIPTION	MKX-HF300	MKX-HF450	MKX-HF600	MKX-HF650
TYPE PRESSURE (BAR)	4	4	4	4
WATER FOAM SOLUTION (L/M)	25.5	40.5	54.8	115.2
FILLING RATE (lit/min)	14	43	43	37
DIMENSION	A	Ø 350	Ø 450	Ø 550
	B	170 x 5	1275 x 5	1,665 x 5
	C	315	405	420
FOAM CONCENTRATION	0.7	0.7	0.7	0.7
CONNECTION	JIS 10K-20A	JIS 15K-20A	JIS 15K-20A	JIS 10K-60A
MOUNTING	Y	Y	Y	Y
NOZZLE	SUS304	SUS304	SUS304	SUS304
MATERIAL				
NOZZLE	Brass + Ni-Cr Galv	Brass + Ni-Cr Galv	Brass + Ni-Cr Galv	Brass + Ni-Cr Galv
FLANGE	SUS304	SUS304	SUS304	SUS304



Advantage

- Corrosion resistant material
- Low weight
- Easy to installation
- Large area coverage

Foam Liquid

TRIPLE-EX foam concentrate is a synthetic foam compound that uses inside air, and is a stable foam when expanded by extremely hot and aggressive combustion gases. It can be used mixed with fresh and sea water by 100% balanced foam proportioner, with a 1% concentration.

Foam Liquid Technical Data

Characteristic	Value
CHARACTERISTIC	SYNTHETIC FOAM
CONCENTRATE	1%
VISCOSITY	1000P
FREEZING POINT	-25°
PH	7
APPEARANCE	LIGHT YELLOW LIQUID
DOOR	REGULAR COVER
FOAM EXPANSION RATIO	100
STORAGE TEMPERATURE	0-50°C
STORAGE CONTAINER	200L 2000L 20000L CONTAINER

