

MARINEFIRE 760

FOR VOLUMES UP TO 3000 FT³/85 M³



CLEAN AGENT: The extinguishing agent used in all Marinefire 760 models is Heptafluoropropane, more commonly known as HFC-227. HFC-227 extinguishing agent rapidly suppresses fire by cooling the fire to the extent that the combustion reaction cannot sustain itself. It can suppress a fire in 10 seconds or less after discharge. HFC-227 does not significantly reduce oxygen levels and is safe for use in occupied spaces in accordance with US EPA guidelines and others internationally recognised safety standards eg. NOAEL, LOAEL. HFC-227 can be removed from the protected space by simply ventilating the space after a system discharge. It is non-corrosive and leaves no residue or collateral damage. It is environmentally friendly - with zero Ozone Depletion Potential (OPD) and a short atmospheric lifetime.

KEY FEATURES OF THE MARINEFIRE 760 SERIES

- Pre-engineered, self-contained, manual, manual/automatic or pneumatic fire suppression assembly.
- Automatic activation via thermal high strength, fast response glass bulb (79°C).
- Clean Agent FE 227, TM- HFC 227ea is a clean agent gaseous extinguishing agent ideally suited to marine applications.
- Specifically designed for pleasure craft and yachts.
- Designed to protect engine compartments and small enclosures.
- Protects areas up to 3000 cubic feet (85 m³)
- Will extinguish a fire in less than 10 seconds after discharge.
- No piping or flow calculations required .
- Minimizes collateral damage and downtime.
- Safe for people and equipment.
- A preferred alternative for the environment
- All brass components and valve assembly eliminates risk of leakage.
- Can be used in conjunction with AUTOMATIC ENGINE SHUTDOWN AND OVERRIDE SYSTEM
- **APPROVED FOR ISO 9094-1 and ISO 9094 2, USCG, RINA, CE.**



TECHNICAL CHARACTERISTICS

The Marinefire 760 Series is a **highly versatile fixed fire suppression system** capable of protecting NET volumes up to 85 m³ with out the need to install piping. The system is pre-approved for use on pleasure craft up to 24mt and normally accepted by class on motor yachts exceeding 24mt with engine room volumes up to 85 m³.

Marinefire 760 Series systems are **UNIQUE** in that they are fitted with a brass pressure differential valve assembly for total flooding of the protected space, which means greater volume protection can be achieved. A single full array radial nozzle is mounted directly on the cylinder outlet to ensure proper agent distribution throughout the protected area.

The flexibility of the 760 series is enhanced by the ability to link more than one cylinder together in a master-slave format. The controlling actuator is fitted to the master system which simultaneously discharges the slave systems using a pneumatic flexible link. **The advantage of such a system design is that several separate but adjoining compartments can be protected by a single fire suppression system.**

An innovative stacking system has been developed to enable use of one or a combination of actuation devices. The performance of the system can be enhanced by the addition of detection devices (HAD), automatic engine and ventilation shutdown, and time delay functions.

MARINEFIRE is committed to providing full international warranty, as well as expert design and technical assistance to all of its customers, worldwide.

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MARINEFIRE 760 SERIES

SYSTEM ACTIVATION:

The Marinefire 760 series offers a choice of activation and detection methods, including:

AUTOMATIC:

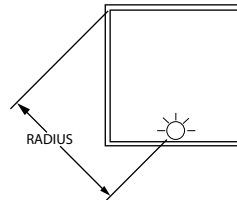
- Heat Actuated Devices
- Thermal Actuator
- Thermal/Cable Actuator
- Pneumatic Actuator

MANUAL:

- Push Actuator (manual)
- Push Actuator (manual/Pneumatic)
- Cable Actuator
- Cable Pneumatic Actuator

MANUAL-AUTOMATIC:

- Combinations of the above



FULL ARRAY RADIAL NOZZLE AREA COVERAGE

NOZZLE SIZE		RADIUS (R) DIMENSION		CEILING HEIGHT RANGE	
Inch	MM	Feet	Metre	Feet	Metre
1/2	15	12	3.67	1.0-8.0	0.3-2.44
3/4	20	16	4.88	1.0-10.0	0.3-3.05
1	25	24	7.32	1.0-12.0	0.3-3.66

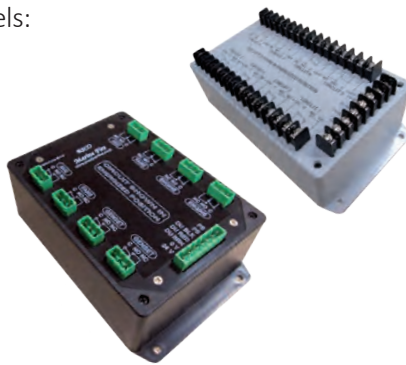
EQUIPMENT SHUTDOWN: Engines, generators and power ventilation systems will reduce the concentration level of extinguishing agent in the compartment and it is strongly recommended that they be shut down in the event of fire. The manufacturer has used its 35 year experience in the fire industry to develop shutdown override system which offers significant improvements on other models:

dust and elements.

- Relay unit is housed in a UL rated plastic enclosure.
- Additional safety features include manual back up override system incorporated into relay box.

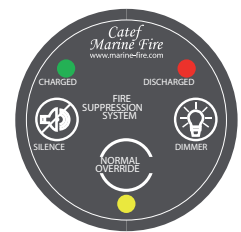
RELAY UNIT:

- Two different models are available : 6 contacts or 8 contacts.
- Flexible design: 12 V or 24 V or select combination of the two.
- Purpose designed circuit board in which all circuits are isolated avoiding risk of one circuit cutting out all the others.
- Relay unit is sealed tight to protect internal components from



DISPLAY UNIT:

- 2" diameter gauge constructed in a single, water tight unit.
- 100% waterproof (sealed switch or push button and sounder).
- State-of-the-art internal PC board and sounder.
- Filter system to protect unit from external electrical disturbance.
- If system is accidentally put into override a yellow light will show.



BSCO MARINE FIRE MODELS *					CYLINDER DIMENSIONS							
NET VOLUME PROTECTED		PNEUMATIC	MANUAL/ AUTOMATIC	MANUAL	DIAMETER		HEIGHT		GROSS WEIGHT		AGENT WEIGHT	
FT ³	M ³				INCHES	MM	INCHES	MM	LBS	KG	LBS	KG
1600	45,30	P760-1600	MA760-1600	M760-1600	12.75	325	34	863	159.94	72.70	75.02	34.10
1700	48,14	P760-1700	MA760-1700	M760-1700	12.75	325	34	863	164.63	74.83	79.71	36.23
1800	50,97	P760-1800	MA760-1800	M760-1800	12.75	325	34	863	169.31	76.96	84.40	38.36
1900	53,80	P760-1900	MA760-1900	M760-1900	12.75	325	34	863	173.99	79.09	89.09	40.49
2000	56,63	P760-2000	MA760-2000	M760-2000	12.75	325	34	863	178.71	81.23	93.78	42.63
2100	59,46	P760-2100	MA760-2100	M760-2100	12.75	325	34	863	183.39	83.36	98.47	44.76
2200	62,30	P760-2200	MA760-2200	M760-2200	12.75	325	34	863	188.08	85.49	103.16	46.89
2300	65,13	P760-2300	MA760-2300	M760-2300	12.75	325	34	863	192.76	87.62	107.85	49.02
2400	67,96	P760-2400	MA760-2400	M760-2400	12.75	325	34	863	197.45	89.75	112.54	51.15
2500	70,79	P760-2500	MA760-2500	M760-2500	12.75	325	34	863	202.14	91.88	117.23	53.28
2600	73,62	P760-2600	MA760-2600	M760-2600	12.75	325	32	1080	206.82	94.01	121.91	55.41
2700	76,45	P760-2700	MA760-2700	M760-2700	12.75	325	42.5	1080	211.51	96.14	126.60	57.54
2800	79,28	P760-2800	MA760-2800	M760-2800	12.75	325	42.5	1080	216.22	98.28	131.29	59.68
2900	82,12	P760-2900	MA760-2900	M760-2900	12.75	325	42.5	1080	220.90	100.41	135.98	61.81
3000	84,95	P760-3000	MA760-3000	M760-3000	12.75	325	42.5	1080	225.59	102.54	140.67	63.94

* for alternative combinations contact sales office