

MARINEFIRE 740



Clean Agent Manual and Automatic Fixed Fire Suppression System for pleasure Craft, Yachts and other Marine & Offshore Environments

KEY FEATURES OF THE MARINEFIRE 740 SERIES

- Pre-engineered, self-contained automatic, manual and manual/automatic fire suppression assembly.
- Thermally activated by high strength, fast response glass bulb.
- Clean Agent HFC-227 is a clean agent gaseous extinguishing agent ideally suited to marine application.
- Specifically designed for pleasure craft and yachts.
- Designed to protect engine compartments and small enclosures.
- Protects areas from 50 cubic feet (1.4 m³) to 1500 cubic feet (42.5 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 (Leave no residue).
- A preferred alternative for the environment.
- All brass components and valve assembly eliminated risk of leakage.
- Meets NFPA 2001 Marine Requirements for Engine Compartments, Electrical Cabinets, Paint Lockers, Flammable Liquid Storage.
- **APPROVED BY USCG, RINA, and CE PED/TPED FOR ISO 9094-1 and ISO 9094 2.**

TECHNICAL CHARACTERISTICS

CLEAN AGENT: The extinguishing agent used in all Marinefire 740 models is Heptafluoropropane, more commonly known as HFC-227. HFC-227 rapidly extinguishes 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 has a minimal impact on the environment when compared with that of a major fire or other traditional agents such as Halon: The ozone depletion potential of HFC-227 is zero and it has a reduced estimated atmospheric lifetime.

CYLINDER: All cylinders containing from 2 lbs to 40 lbs (1 Kg to 18 Kg) of agent are high quality, seamless, lightweight aluminium with epoxy coating designed to hold the HFC-227 under pressure until it is discharged. Cylinders containing more than 40 lbs (18 Kg) of agent are made of high quality steel, designed and built to US DOT 4BW500 and European PED/TPED standards, finished with an epoxy coating. All cylinders containing more than 40 lbs (18 Kg) of agent must be installed in the upright position. Each cylinder contains a thermally operated discharge valve, pressure gauge, siphon tube (Rigid or semi-rigid according to desired position of cylinder) and pressure switch. All components and valve assembly are brass thus eliminating risk of leakage.

SYSTEM ACTIVATION: The discharge valve is a thermally operated device, a piston is held in place by an thermally sensitive glass bulb which ruptures upon sensing extreme heat, releasing the piston and releasing agent into the protected space. The system can be activated in either of three different ways :

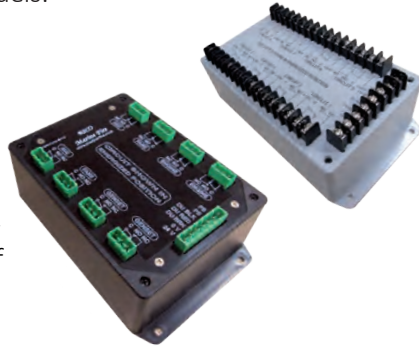
- 1) Manually via cable pull
- 2) Automatically via thermal actuator,
- 3) Manual activation and automatic activation together.

MARINEFIRE 740 SERIES

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:

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

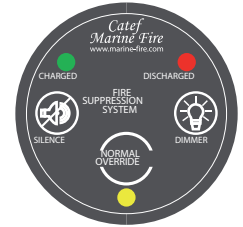


dust and elements.

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

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.



MARINE FIRE MODELS					CYLINDER DIMENSIONS							
VOLUME PROTECTED		AUTOMATIC	MANUAL / AUTOMATIC	MANUAL	DIAMETER		HEIGHT		GROSS WEIGHT		NOMINAL FILL	
FT ³	m ³				INCHES	mm	INCHES	mm	LBS	Kg	LBS	Kg
50	1.40	A740-50	MA740-50	M740-50	3	75	13.5	340	4.2	1.9	2.2	1.00
75	2.10	A740-75	MA740-75	M740-75	3.5	89	17.5	444	6.5	2.95	3.3	1.50
100	2.80	A740-100	MA740-100	M740-100	3.5	89	17.5	444	8.5	3.90	4.3	1.95
125	3.50	A740-125	MA740-125	M740-125	4.25	108	17.5	444	9.6	4.36	5.4	2.45
150	4.20	A740-150	MA740-150	M740-150	4.25	108	17.5	444	10.5	4.77	6.5	2.95
200	5.60	A740-200	MA740-200	M740-200	5.25	134	18.5	470	12.0	5.44	8.7	3.95
250	7.10	A740-250	MA740-250	M740-250	5.25	134	20.5	520	16.8	7.63	10.8	4.90
300	8.50	A740-300	MA740-300	M740-300	5.25	134	22.5	575	21.25	9.65	12.9	5.86
350	9.90	A740-350	MA740-350	M740-350	6.89	175	22.5	575	28.50	12.95	15.2	6.90
400	11.30	A740-400	MA740-400	M740-400	6.89	175	22.5	575	30.50	13.86	17.3	7.85
450	12.70	A740-450	MA740-450	M740-450	6.89	175	22.5	575	32.50	14.77	19.5	8.85
500	14.20	A740-500	MA740-500	M740-500	6.89	175	22.5	575	35.50	15.90	21.6	9.80
550	15.60	A740-550	MA740-550	M740-550	6.89	175	26.2	665	38.75	17.45	23.8	10.80
600	17.00	A740-600	MA740-600	M740-600	6.89	175	26.2	665	41.00	18.45	26.0	11.80
650	18.40	A740-650	MA740-650	M740-650	8.00	205	26.7	678	49.50	22.50	28.1	12.75
700	19.80	A740-700	MA740-700	M740-700	8.00	205	26.7	678	51.50	23.41	30.3	13.75
750	21.20	A740-750	MA740-750	M740-750	8.00	205	26.7	678	54.00	24.50	32.5	14.74
800	22.60	A740-800	MA740-800	M740-800	8.00	205	26.7	678	56.00	25.45	34.6	15.70
900	25.50	A740-900	MA740-900	M740-900	8.00	205	31.5	800	68.00	31.00	38.9	17.65
1000	28.30	A740-1000	MA740-1000	M740-1000	8.00	205	31.5	800	72.50	33.00	43.3	19.64
1100	31.20		MA740-1100	M740-1100	10.00	250	28.5	725	86.00	39.10	48.0	21.80
1200	34.00		MA740-1200	M740-1200	10.00	250	28.5	725	98.00	44.60	52.0	23.60
1300	35.40		MA740-1300	M740-1300	10.00	250	28.5	725	106.00	48.20	56.5	25.63
1400	39.60		MA740-1400	M740-1400	10.00	250	28.5	725	111.00	50.50	60.5	27.44
1500	42.50		MA740-1500	M740-1500	10.00	250	28.5	725	115.00	52.80	65.0	29.50