

# MARINEFIRE 727



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

## KEY FEATURES OF THE MARINEFIRE 727 SERIES

- **APPROVED "CE PED/TPED" FOR ISO 9094-1 and ISO 9094 2, RINA.**
- 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 applications.
- Specifically designed for pleasure craft and yachts.
- Designed to protect engine compartments and small enclosures.
- Protects areas from 50 cubic feet (1.4 m<sup>3</sup>) to 700 cu. ft ( 19,8 m<sup>3</sup>).
- 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 (leaves no residue).
- 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.



## TECHNICAL CHARACTERISTICS

**CLEAN AGENT:** The extinguishing agent used in all Marinefire 727 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 of agent are high quality, seamless, with epoxy coating designed to hold the HFC-227 under pressure until it is discharged. Cylinders are made of high quality steel, designed and built to European PED/TPED standards, finished with an epoxy coating. Each cylinder contains a thermally operated discharge valve, pressure gauge, siphon tube 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.

**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.



VOLUME PROTECTED		AUTOMATIC			Diameter	Height	Nominal Fill
FT <sup>3</sup>	m <sup>3</sup>	ACTIVATION	MANUAL / AUTO	MANUAL	mm	mm	Kg
25	0,70	A727-25	MA727-25	M727-25	80	260	0,49
35	1,00	A727-35	MA727-35	M727-35	80	260	0,69
50	1,40	A727-50	MA727-50	M727-50	80	260	0,98
75	2,10	A727-75	MA727-75	M727-75	102	337	1,47
100	2,80	A727-100	MA727-100	M727-100	102	337	1,96
125	3,50	A727-125	MA727-125	M727-125	102	337	2,45
150	4,20	A727-150	MA727-150	M727-150	130	375	2,94
175	4,96	A727-175	MA727-175	M727-175	130	375	3,43
200	5,60	A727-200	MA727-200	M727-200	130	375	3,92
225	6,37	A727-225	MA727-225	M727-225	130	375	4,41
250	7,10	A727-250	MA727-250	M727-250	160	408	4,9
275	7,79	A727-275	MA727-275	M727-275	160	408	5,39
300	8,50	A727-300	MA727-300	M727-300	160	408	5,88
325	9,20	A727-325	MA727-325	M727-325	160	408	6,37
350	9,90	A727-350	MA727-350	M727-350	160	408	6,86
375	10,62	A727-375	MA727-375	M727-375	160	408	7,35
400	11,30	A727-400	MA727-400	M727-400	160	408	7,85
425	12,03	A727-425	MA727-425	M727-425	170	620	8,34
450	12,70	A727-450	MA727-450	M727-450	170	620	8,83
475	13,45	A727-475	MA727-475	M727-475	170	620	9,32
500	14,20	A727-500	MA727-500	M727-500	170	620	9,81
525	14,87	A727-525	MA727-525	M727-525	170	620	10,3
550	15,60	A727-550	MA727-550	M727-550	170	620	10,79
575	16,28	A727-575	MA727-575	M727-575	170	620	11,28
600	17,00	A727-600	MA727-600	M727-600	170	620	11,77
625	17,70	A727-625	MA727-625	M727-625	170	620	12,26
650	18,40	A727-650	MA727-650	M727-650	170	620	12,75
675	19,11	A727-675	MA727-675	M727-675	170	620	13,24
700	19,80	A727-700	MA727-700	M727-700	170	620	13,73