

## Fog Nozzle Model NF8107

### Description

The Model NF8107 fog nozzle is an extremely robust fog nozzle ideal for onshore and offshore applications. It is a single flow fog nozzle that maintains essentially the same flow rate when adjusted from straight stream to wide fog. Nozzles can be supplied with customised flow rates. The data below is for four of many flow options. The NF8107 is a constant flow nozzle with a 80mm BSP female inlet.



Flow Range: 800 lpm up to 4,500 lpm at 700 kPa inlet pressure.

Like all real fog nozzles, this nozzle has teeth so that it provides a full cone spray pattern for very effective cooling.

### Specifications

Length: 177mm

Diameter: 130mm

Weight: 5.5 kg

Seawater applications we recommend using nickel plated gunmetal construction for the longest trouble free service life.

### Materials of Construction

LG2 Gunmetal (bronze)

Nickel plated gunmetal

Knurled inlet coupling (lugged coupling optional)

All nozzles are available in remote controlled versions as follows.

NF8107-RH Hydraulic

NF8107-RE Electric - IP66

NF8107-RE EX Electric - EXd Class 1 Zone 1

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## ORION FIRE ENGINEERING PTY LIMITED

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## Performance Data 4,000 lpm Stem

		STRAIGHT STREAM	NARROW FOG	WIDE FOG
PRESSURE	FLOW (lpm)	THROW (M)	THROW (M)	THROW (M)
500 kPa	3,381	70	29	13
600 kPa	3,703	76	32	15
700 kPa	4,000	79	34	16
800 kPa	4,276	81	37	18
900 kPa	4,536	83	40	20
1000 kPa	4,781	85	43	21

## 3,785 lpm (1,000 gpm) Stem

		STRAIGHT STREAM	NARROW FOG	WIDE FOG
PRESSURE	FLOW (lpm)	THROW (M)	THROW (M)	THROW (M)
500 kPa	3275	70	29	13
600 kPa	3590	76	32	15
700 kPa	3785	79	34	16
800 kPa	4140	81	37	18
900 kPa	4390	83	40	20
1000 kPa	4630	85	43	21

## 3030 lpm (800 gpm) Stem

		STRAIGHT STREAM	NARROW FOG	WIDE FOG
PRESSURE	FLOW (lpm)	THROW (M)	THROW (M)	THROW (M)
500 kPa	2560	65	27	13
600 kPa	2803	71	30	15
700 kPa	3030	74	33	16
800 kPa	3235	77	35	18
900 kPa	3430	79	37	19
1000 kPa	3620	80	38	20

## 2800 lpm (750 gpm) Stem

		STRAIGHT STREAM	NARROW FOG	WIDE FOG
PRESSURE	FLOW (lpm)	THROW (M)	THROW (M)	THROW (M)
500 kPa	2390	64	26	13
600 kPa	2620	70	29	15
700 kPa	2830	73	32	16
800 kPa	3025	75	34	18
900 kPa	3210	77	36	19
1000 kPa	3385	79	38	20

This data is for the furthest water drop in approximately still air conditions and with the nozzle mounted on a monitor aimed 25° above horizontal. This is the standard method of rating fog nozzles, however, even a slight cross or head wind will reduce the throw by about 5 meters and an allowance for this should be made when designing systems. Ideally, monitor systems should assume only 75% of the nozzle maximum rate throw to allow for the impact of wind.

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