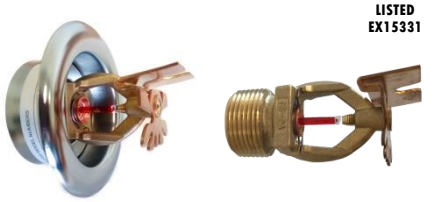
GA SERIES / MODEL GA-81

Extended Coverage / Light Hazard
Recessed Horizontal Sidewall, Horizontal Sidewall

c UL us LISTED EX15331



PRODUCT DESCRIPTION

AG Fire Sprinkler Model GA8128, GA8129 and GA8174, Horizontal Sidewall sprinklers described in this technical data sheet are extended coverage, light hazard.

Using extended coverage sprinkler can reduce installation costs by requiring fewer sprinklers, less piping and less labor than commercial sprinklers.

Thermosensitive glass bulb 3 mm or 5 mm is used. They have a capacity to react 6 times faster than standard response sprinklers. The bulb contains a special liquid hermetically sealed in a glass capsule.

TECHNICAL DATA

Nominal "K" Factor	8,0 (115 metric)
Thread Size	3/4" NPT (R3/4)
Temperatures	135ºF (57ºC) 155ºF (68ºC) 175ºF (79ºC) 200ºF (93ºC)
Maximum Working Pressure	175 psi (12 bar)
Materials	Frame: Brass Alloy Deflector: Cooper Alloy Screw: Brass Alloy Bulb Seat: Copper Alloy Sealing Spring: Nickel Alloy Lodgment Spring: Stainless Steel Bulb: Glass, 3 mm or 5 mm size
Reference	**GA8128** **GA8129** **GA8174**
Finish[1]	Bronze Chrome Polyester

1. Other Finishes available under request.

OPERATION

At normal temperatures, the glass bulb contains the fluid in both the liquid phase and the vapor phase. The vapor phase can be seen as a small bubble. As heat is applied, the liquid expands forcing the bubble smaller and smaller as the liquid pressure increases. Continued heating forces the liquid to push out against the bulb, causing to shatter, opening the waterway and allowing the deflector to distribute the discharging water.

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INSTALLATION

Model GA8128, GA8129 and GA8174 sprinklers are sprinklers intended for installation as specified in NFPA13. They must also be installed with the Model **AB** or **CO2** Sprinkler Wrench specifically designed by AG Fire Sprinkler for use with these sprinklers.

A leak tight 3/4" NPT (R3/4) sprinkler joint can be obtained with a torque of 8-18ft-lbs (10,8-24,4N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers.

The sprinklers come with an orange protection, to avoid breakage during assembly. Remove this protection once installed and made sure that everything is correct. The AG Sprinkler Wrenches are designed to install sprinklers with the protection still.

Note: Installation with a positive pressure above the housing is not pernitted.

TEMPERATURE RATINGS

Classification	Sprinkler Temperature		Max. Ambient Temperature		Bulb Color
	ºF	ºC	ºF	ºC	ºF
Ordinary	135	57	100	38	Orange
Ordinary	155	68	100	38	Red
Intermediate	175	79	150	66	Yellow
Intermediate	200	93	150	66	Green

cULus LISTING – LIGHT HAZARD

GA8128 QUICK RESPONSE	Temperatures				Ceiling to deflector distance	Width of coverage	Length of coverage	Minimum pressure	Flow
	135ºF (57ºC)	155ºF (68ºC)	175ºF (79ºC)	200ºF (93ºC)					
Horizontal Sidewall & Recessed	X	X	X	X	4" to 6" (101.6mm to 152.4mm)	16ft (4.9m)	16ft (4.9m)	10.3psi (0.71bars)	26gpm (98l/min)
	X	X	X	X			18ft (5.5m)	12.8psi (0.88bars)	29gpm (110l/min)
	X	X	X	X			20ft (6.1m)	16.6psi (1.14bars)	33gpm (125l/min)
	X	X					22ft (6.7m)	20.8psi (1.43bars)	37gpm (140l/min)
	X	X					24ft (7.2m)	26.8psi (1.84bars)	42gpm (159l/min)
GA8128 STANDARD RESPONSE	**135ºF (57ºC)**	**155ºF (68ºC)**	**175ºF (79ºC)**	**200ºF (93ºC)**	**Ceiling to deflector distance**	**Width of coverage**	**Length of coverage**	**Minimum pressure**	**Flow**
Horizontal Sidewall & Recessed	X	X	X		4" to 6" (101.6mm to 152.4mm)	16ft (4.9m)	20ft (6.1m)	16.6psi (1.14bars)	33gpm (125l/min)
	X	X					22ft (6.7m)	20.8psi (1.43bars)	37gpm (140l/min)
	X	X					24ft (7.2m)	26.8psi (1.84bars)	42gpm (159l/min)

Minimum space between sprinklers 6' (1.8m)

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GA8129 QUICK RESPONSE	Temperatures				Ceiling to deflector distance	Width of coverage	Length of coverage	Minimum pressure	Flow
	135ºF (57ºC)	155ºF (68ºC)	175ºF (79ºC)	200ºF (93ºC)					
Horizontal Sidewall & Recessed	X	X	X		6" to 12" (152.4mm to 304.8mm)	16ft (4.9m)	16ft (4.9m)	10.3psi (0.71bars)	26gpm (98l/min)
	X	X	X				18ft (5.5m)	12.8psi (0.88bars)	29gpm (110l/min)
	X						20ft (6.1m)	16.6psi (1.14bars)	33gpm (125l/min)
	X						22ft (6.7m)	20.8psi (1.43bars)	37gpm (140l/min)
	X						24ft (7.2m)	26.8psi (1.84bars)	42gpm (159l/min)
GA8129 STANDARD RESPONSE	**135ºF (57ºC)**	**155ºF (68ºC)**	**175ºF (79ºC)**	**200ºF (93ºC)**	**Ceiling to deflector distance**	**Width of coverage**	**Length of coverage**	**Minimum pressure**	**Flow**
Horizontal Sidewall & Recessed	X	X	X		6" to 12" (152.4mm to 304.8mm)	16ft (4.9m)	20ft (6.1m)	16.6psi (1.14bars)	33gpm (125l/min)
	X	X					22ft (6.7m)	20.8psi (1.43bars)	37gpm (140l/min)
	X	X					24ft (7.2m)	26.8psi (1.84bars)	42gpm (159l/min)

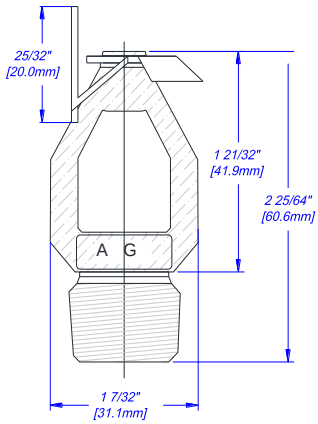
Minimum space between sprinklers 6' (1.8m)

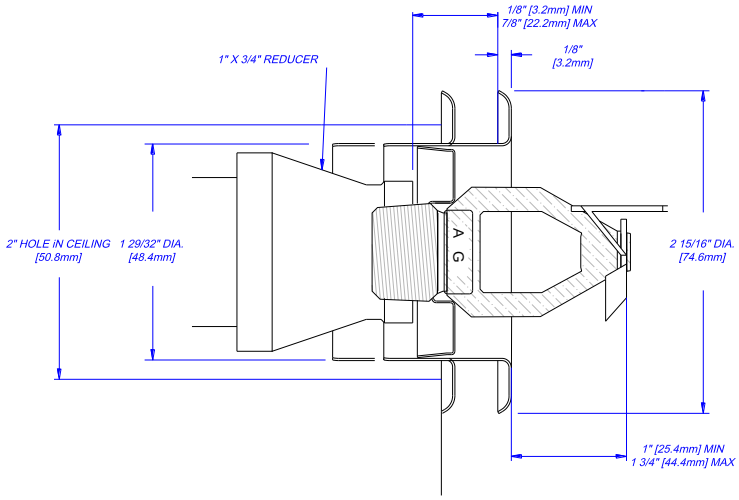
GA8174 STANDARD RESPONSE	Temperatures				Ceiling to deflector distance	Width of coverage	Length of coverage	Minimum pressure	Flow
	135ºF (57ºC)	155ºF (68ºC)	175ºF (79ºC)	200ºF (93ºC)					
Horizontal Sidewall & Recessed	X				12" to 18" (304.8mm to 457.2mm)	16ft (4.9m)	16ft (4.9m)	11.0psi (0.75bars)	28gpm (98l/min)
	X						18ft (5.5m)	13.6psi (0.93bars)	31gpm (110l/min)
	X						20ft (6.1m)	17.6psi (1.20bars)	35gpm (125l/min)
	X						24ft (7.2m)	20.8psi (1.43bars)	37gpm (159l/min)

Minimum space between sprinklers 6' (1.8m)

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DIMENSIONS





ORDERING INFORMATION

P/N	GAXXXX Y Z

DESCRIPTION	CODE
2" to 6"	GA8128
6" to 12"	GA8129
12" to 18"	GA8174

Y	1	57ºC	135ºF
	2	68ºC	155ºF
	4	79ºC	175ºF
	5	93ºC	200ºF

Z	1	BRASS
	2	CHROME
	3	WHITE RAL9003

Specify:

Quantity	
Model Number	
Type	
Orifice	
Thread Size	
Temperature	
Finishes	
Quantity - Wrenches	

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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