

FireFighter[®] Elimintor 1330[™]

Expansion Rates



Technical Bulletin
www.noblecompany.com

Description:

Refer to the chart to determine expansion rates of FireFighter Eliminator 1330.

TEMPERATURE CHANGE															
INITIAL VOLUME		APPROXIMATE FLUID EXPANSION / CONTRACTION IN GALLONS AND LITERS													
-		20°F - (11.1°C)		40°F - (22.2°C)		60°F - (33.3°C)		80°F - (44.4°C)		100°F - (55.6°C)		120°F - (66.7°C)		160°F - (88.9°C)	
GALLONS	LITERS	GALLONS	LITERS	GALLONS	LITERS	GALLONS	LITERS	GALLONS	LITERS	GALLONS	LITERS	GALLONS	LITERS	GALLONS	LITERS
25	95	0.1	0.4	0.2	0.9	0.4	1.4	0.5	1.9	0.7	2.6	0.8	3.1	1.1	4.3
50	189	0.2	0.9	0.5	1.8	0.7	2.8	1.0	3.7	1.4	5.1	1.6	6.2	2.2	8.5
75	284	0.3	1.3	0.7	2.7	1.1	4.2	1.5	5.6	2.0	7.7	2.4	9.3	3.4	12.8
100	379	0.5	1.7	0.9	3.6	1.5	5.6	2.0	7.4	2.7	10.3	3.3	12.4	4.5	17.0
150	568	0.7	2.6	1.4	5.4	2.2	8.4	2.9	11.1	4.1	15.4	4.9	18.5	6.7	25.5
200	757	0.9	3.4	1.9	7.2	2.9	11.1	3.9	14.9	5.4	20.6	6.5	24.7	9.0	34.0
250	946	1.1	4.3	2.4	8.9	3.7	13.9	4.9	18.6	6.8	25.7	8.2	30.9	11.2	42.5
300	1,136	1.4	5.2	2.8	10.7	4.4	16.7	5.9	22.3	8.2	30.9	9.8	37.0	13.5	51.0

SYSTEM REQUIREMENTS, LIMITATIONS, & CAUTIONS

All fire protection sprinkler systems that use FireFighter Eliminator 1330 should conform to local, state, and NFPA requirements. The use of antifreeze within these systems should also conform to NFPA requirements.

Use of antifreeze solutions should also be in conformance with any state or local health codes. Please contact your local health authorities if you have any questions concerning the codes in your area.

COPPER TUBE TYPE L	
TUBING SIZE	GALLONS OF FLUID / 100 ft
1/2"	1.210
3/4"	2.510
1"	4.280
1 1/4"	6.520
1 1/2"	9.250
2"	16.060
2 1/2"	23.780

SCHEDULE 40 PIPE	
TUBING SIZE	GALLONS OF FLUID / 100 ft
1"	4.82
1 1/4"	8.29
1 1/2"	11.107
2"	18.42
2 1/2"	24.87
3"	38.40
4"	66.13

CPVC PIPE	
TUBING SIZE	GALLONS OF FLUID / 100 ft
3/4"	3.188
1"	5.018
1 1/4"	7.997
1 1/2"	10.471
2"	16.369
2 1/2"	23.953
3"	35.530

PEX TUBING	
TUBING SIZE	GALLONS OF FLUID / 100 ft
3/8"	0.50
1/2"	0.92
5/8"	1.34
3/4"	1.83
1"	3.03

Numbers are approximate as per ASTM requirements.

Dimensional data is subject to manufacturing tolerances and may vary by brand.

Contact Noble Company at (800) 578-5788 for additional information.



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File #TB082023-08 | 08/23

