

Kidde Fire Systems

Kidde Fire Systems - Flow Calculation Software v4.0.0 (FM-200)
UL: EX4674 / Component of FM Approved System

Hiller New England

240 Ballardvale Street
Wilmington, MA 01887
Phone: (978) 657 5550
File Name: Flow Calc.FC4

Consolidated Report

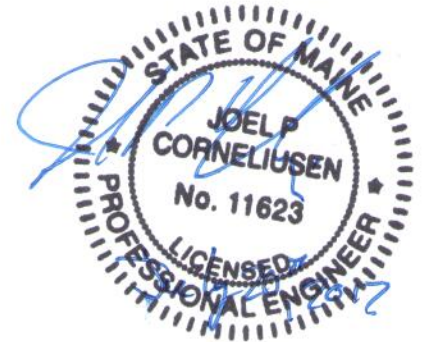
Customer Information

Company Name: BENDETT & McHUGH
Address: 30 DANFORTH STREET
PORTLAND, ME

Phone:
Contact:
Title:

Project Data

Project Name: SERVER ROOM
Designer: HILLER NEW ENGLAND
Number:
Account:
Location: WILMINGTON, MA
Description:



Enclosure Report

Elevation: 0 ft (relative to sea level)
Atmospheric Correction Factor: 1
Enclosure 1 SERVER ROOM
Enclosure Temperature: Number of Nozzles: 1

Consolidated Report

Minimum:	70 F	Width:	0.0 ft
Maximum:	70 F	Length:	0.0 ft
Max. Concentration:	7.68 %	Height:	0.0 ft
Design Concentration:		Volume:	583.5 ft ³
Adjusted:	7.68 %	Non-permeable:	0.0 ft ³
Minimum:	7.00 %	Total Volume:	583.5 ft ³
Min. Agent Required:	20.0 lb		
Adjusted Agent Required:	22.0 lb		

Agent Source Report

Agent: FM-200 / Propellant N2
(FM-200 is a Trademark of DuPont)
Container Name: 40 lb Cylinder
Container Part Number: 90-100040-001
Agent Per Container: 22.0 lb
Fill Density: 38.5 lbs / cubic ft
Number of Main Containers: 1
Number of Reserve Containers: 0

Container Empty Weight: 38.0 lb
Weight, All Containers + Agent: 60.0 lb
Floor Area Per Container: 0.44 ft²
Floor Loading Per Container: 136 lbs / ft²

Calculation Date/Time: Wednesday, July 19, 2017, 11:46:18 AM

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Key ID: 180987596

Consolidated Report Parts Report

Total Agent Required: 22.0 lb

Container Name: 40 lb Cylinder (Part: 90-100040-001)

Number of Containers: 1

Nozzle	Type	Nozzle Area	Part Number
E1-N1	180°	0.1342 in ²	90-194014-144

Pipe & Fittings	Type	Diameter	Length	Elbows (90)	Elbows (45)	Tees	Unions
	40T	3/4 in	9.75 ft	3	0	0	1

Other Objects	Name	Quantity	Part Number
	1-1/2 in. Valve Outlet Adapter	1	283904

System Acceptance Report

Unable to run the report. No valid calculations data. Run or rerun the Main Calculations.

The main calculations for this project need to be run.
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Consolidated Report

Pipe Network Report

Description	Pipe Section	Start Node	End Node	Pipe Type	Pipe Diameter	Pipe Length	Union	Elevation Change	Total Equivalent Length	Nozzle Name	Nozzle Size	Nozzle Type	Nozzle Area
Cylinder - On	Man./End	0	2		1-1/2 in	1.79 ft	0	1.79 ft	50.00 ft				
Adapter	System	2	3		1-1/2 in	0.22 ft	0	-----	11.80 ft				
Pipe	System	3	4	40T	3/4 in	0.50 ft	0	-----	0.50 ft				
Elbow (90)	System	4	5	40T	3/4 in	-----	0	-----	2.20 ft				
Pipe	System	5	6	40T	3/4 in	5.50 ft	1	5.50 ft	6.00 ft				
Elbow (90)	System	6	7	40T	3/4 in	-----	0	-----	2.20 ft				
Pipe	System	7	8	40T	3/4 in	3.67 ft	0	-----	3.70 ft				
Elbow (90)	System	8	9	40T	3/4 in	-----	0	-----	2.20 ft				
Pipe&Nozzle	System	9	10	40T	3/4 in	0.08 ft	0	-0.08 ft	0.10 ft	E1-N1	3/4 in	180°	0.1342 in ²

View: 1 - Frontal View Node

