



Purge Calculator & Timetable for CF Systems

I. For exact "minimum" purge times, use the CALCULATOR below:

Volume in Cubic Feet X 4 Volume Exchanges/ Orifice Plate Size = Purge Time (Min & Sec)
Simply Enter Your Parameters in the respective data column below & let the program do the work.

DATA	
2	<<< Enter Enclosure Size in Cubic Feet here.
4	<<< 4 Volume Changes (VC) per NFPA (See Note)
2.3	<<< Enter Orifice Size in SCFM. Select from 0.4, 0.9, 1.4, 2.3, 3.2, 4.8, 6.4, or 8.0

Purge Time = **3 29/60** <<< This is your exact minimum Purge Time in Minutes and Seconds.
NOTE: Replace 4 VC with 10 Internal Free Volume Changes for Motors, and with 5 for IEC.

II. For a "Quick Reference" to your Purge Time requirements, use the table below:

Orifice Number/Size	Flow Rate in SCFM							
	0.4 #1	0.9 #2	1.4 #3	2.3 #4	3.2 #5	4.8 #6	6.4 #7	8 #8
1	10	5	3	2	2			
2	20	9	6	4	3	2	2	1
3	30	14	9	6	4	3	2	2
4		18	12	7	5	4	3	2
5		23	15	9	7	5	4	3
6		27	18	11	8	5	4	3
7			20	13	9	6	5	4
8			23	14	10	7	5	4
9			26	16	12	8	6	5
10			29	18	13	9	7	5
11				20	14	10	7	6
12				21	15	10	8	6
13				23	17	11	9	7
14				25	18	12	9	7
15				27	19	13	10	8
16				28	20	14	10	8
17				30	22	15	11	9

(Times above are in Minutes rounded to the next highest)

Key: Grey Shaded Area- Purge Times are greater than 30 minutes.
Yellow Shaded Area- Purging with Orifice Sizes 5, 6, 7, and 8 will use higher quantities of purge medium (protective gas). User should be aware of this and use caution.

Note: Information on this data sheet is meant to be used as a guide. For further information on Purge Times and Flow Rates please refer to Instruction Manual ML-306, Pages 14, 15, and 16 for 'X' Purge Systems, and Instruction Manual ML-307, Sections 6.6.6 through 6.6.8 for 'Y' or 'Z' Purge Systems.

Note: For Leakage Compensation (LC) Systems see:

"Purge Calculator & Timetable for LC Systems"

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