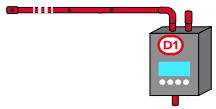
Table C1, holes from 1 to 18

Detection class	**C**
Number of detectors	**1**
Anti-dust filter	**No**
Condensation trap	**No**

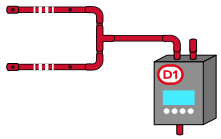
D1	detector 1 module

Øn	diameter of the hole "n" (mm)
S	detection sensitivity (10^{-5} dB/m)
V	aspiration speed (RPM)
F	expected airflow (l/min)
B	air aspiration balancing between the holes (%)
T	transit time of the smoke (s)

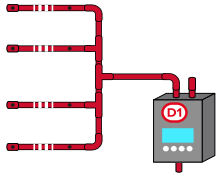
1 branch



2 branches



4 branches



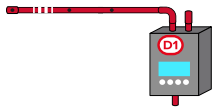
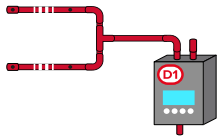
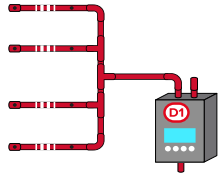
Number of branches	Length of branches (m)	parameters	Number of holes for each branch																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	60 ÷ 90	Ø	Ø 1: 10	Ø 1: 4.5 Ø 2: 10	Ø 1..2: 3.5 Ø 3: 5.5	Ø 1: 3.5 Ø 2: 4 Ø 3: 4.5 Ø 4: 7.5	Ø 1: 3 Ø 2: 3.5 Ø 3..4: 4 Ø 5: 6	Ø 1..3: 3 Ø 4..5: 3.5 Ø 6: 5	Ø 1: 2.5 Ø 2..5: 3 Ø 6: 3.5 Ø 7: 4.5	Ø 1: 2.5 Ø 2..3: 3 Ø 4..6: 3.5 Ø 7: 4 Ø 8: 5.5	Ø 1..4: 2.5 Ø 5..8: 3 Ø 9: 4	Ø 1..5: 2.5 Ø 6..9: 3 Ø 10: 4	Ø 1..4: 2.5 Ø 5..8: 3 Ø 9..10: 3.5 Ø 11: 4.5	Ø 1..4: 2.5 Ø 5..6: 3 Ø 7..9: 3.5 Ø 10..11: 4 Ø 12: 5.5	Ø 1..4: 2.5 Ø 5..6: 3 Ø 7..8: 3.5 Ø 9: 4 Ø 10: 4.5 Ø 11: 5 Ø 12: 6 Ø 13: 10	Ø 1..2: 2 Ø 3..7: 2.5 Ø 8..11: 3 Ø 12..13: 3.5 Ø 14: 4.5				
		S	20000	6228	4603	3880	3070	2502	2228	1997	1706	1505	1448	1322	1267	1089				
		V	3000	3000	3500	3500	3750	4000	4250	4000	4750	4500	4750	4750	4500	4500				
		F	23.6	28.9	30.4	35.9	40.3	40.8	46.1	45.3	50.8	50.1	56.8	59.7	65.5	55.0				
		B	100	48	47	51	52	48	50	51	50	50	53	56	53	51				
		T	57	58	65	61	61	66	63	67	64	67	61	61	55	67				
1	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 5.5 Ø 2: 10	Ø 1..2: 4 Ø 3: 6	Ø 1: 3.5 Ø 2..3: 4 Ø 4: 6	Ø 1: 3.5 Ø 2..3: 4 Ø 4: 4.5 Ø 5: 6.5	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 5	Ø 1..5: 3 Ø 6: 3.5 Ø 7: 4.5	Ø 1..3: 2.5 Ø 4..7: 3 Ø 8: 4	Ø 1..3: 2.5 Ø 4..8: 3 Ø 9: 4	Ø 1..4: 2.5 Ø 5..9: 3 Ø 10: 4	Ø 1..5: 2.5 Ø 6..10: 3 Ø 11: 4	Ø 1..11: 2.5 Ø 12: 3.5	Ø 1..7: 2.5 Ø 8..12: 3 Ø 13: 4	Ø 1: 2 Ø 2..10: 2.5 Ø 11..13: 3 Ø 14: 3.5	Ø 1: 2 Ø 2..8: 2.5 Ø 9..14: 3 Ø 15: 4	Ø 1..3: 2 Ø 4..12: 2.5 Ø 13..15: 3 Ø 16: 3.5	Ø 1..10: 2 Ø 11..16: 2.5 Ø 17: 3	Ø 1..11: 2 Ø 12..17: 2.5 Ø 18: 3
		S	20000	6836	4814	3747	3139	2543	2182	1885	1705	1556	1408	1336	1177	1088	1010	947	891	840
		V	2000	2000	2250	2250	2250	2500	2500	2750	2750	2750	2750	3000	3000	3000	3000	3000	3250	3250
		F	17.1	22.2	23.1	25.9	30.4	31.1	31.4	31.7	34.5	35.7	36.7	39.3	44.1	43.3	44.2	44.4	42.9	44.1
		B	100	68	53	52	55	51	50	50	52	52	51	52	50	56	53	56	51	51
		T	47	49	54	52	50	50	54	55	54	55	55	55	49	53	52	52	53	53
1	15 ÷ 30	Ø	Ø 1: 5	Ø 1: 3 Ø 2: 4.5	Ø 1..2: 3 Ø 3: 4.5	Ø 1..3: 3 Ø 4: 4	Ø 1..4: 3 Ø 5: 4	Ø 1: 2.5 Ø 2..5: 3 Ø 6: 4	Ø 1..6: 2.5 Ø 7: 3.5	Ø 1..7: 2.5 Ø 8: 3.5	Ø 1..8: 2.5 Ø 9: 3.5	Ø 1..9: 2.5 Ø 10: 3.5	Ø 1..10: 2.5 Ø 11: 3.5	Ø 1..11: 2.5 Ø 12: 3.5	Ø 1..7: 2 Ø 8..12: 2.5 Ø 13: 3	Ø 1..8: 2 Ø 9..13: 2.5 Ø 14: 3	Ø 1..8: 2 Ø 9..14: 2.5 Ø 15: 3	Ø 1..9: 2 Ø 10..15: 2.5 Ø 16: 3	Ø 1..10: 2 Ø 11..16: 2.5 Ø 17: 3	Ø 1..11: 2 Ø 12..17: 2.5 Ø 18: 3
		S	20000	6395	4742	4084	3297	2376	2364	2072	1839	1648	1489	1355	1174	1096	1021	960	903	851
		V	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
		F	7.2	8.7	11.1	12.6	14.8	16.1	14.5	16.0	17.4	18.8	20.1	21.3	18.5	19.3	20.4	21.2	21.9	22.6
		B	100	48	47	58	58	50	52	52	52	52	52	52	50	50	51	51	50	50
		T	56	58	53	56	52	50	58	56	54	53	51	50	55	54	53	52	51	51
2	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 4 Ø 2: 6.5	Ø 1: 3.5 Ø 2: 4 Ø 3: 5.5	Ø 1..2: 3.5 Ø 3: 4 Ø 4: 5.5	Ø 1..3: 3.5 Ø 4: 4 Ø 5: 5.5	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 4.5	Ø 1..5: 3 Ø 6: 3.5 Ø 7: 4.5	Ø 1..3: 2.5 Ø 4..7: 3 Ø 8: 4	Ø 1..3: 2.5 Ø 4..8: 3 Ø 9: 4	Ø 1..4: 2.5 Ø 5..9: 3 Ø 10: 4	Ø 1..5: 2.5 Ø 6..10: 3 Ø 11: 4	Ø 1..6: 2.5 Ø 7..11: 3 Ø 12: 4	Ø 1..7: 2.5 Ø 8..12: 3 Ø 13: 4	Ø 1..7: 2 Ø 8..13: 2.5 Ø 14: 3	Ø 1..8: 2 Ø 9..14: 2.5 Ø 15: 3	Ø 1..8: 2 Ø 9..15: 2.5 Ø 16: 3	Ø 1..10: 2 Ø 11..16: 2.5 Ø 17: 3	Ø 1..10: 2 Ø 11..17: 2.5 Ø 18: 3
		S	10000	3135	2381	1856	1508	1305	1090	944	855	776	703	643	593	541	507	473	444	415
		V	2000	2250	2500	2500	2500	2750	2750	3000	3000	3000	3250	3250	3250	3500	3500	3500	3500	3500
		F	31.7	36.5	44.5	50.5	55.4	61.2	62.2	63.2	67.7	70.3	77.8	78.8	80.9	76.9	80.4	81.2	83.1	86.2
		B	100	51	55	53	52	51	50	50	53	52	51	51	50	50	51	51	51	51
		T	51	56	54	54	55	56	55	55	55	55	51	53	53	55	55	56	56	55
2	15 ÷ 30	Ø	Ø 1: 5	Ø 1: 3 Ø 2: 4.5	Ø 1..2: 3 Ø 3: 4.5	Ø 1..3: 3 Ø 4: 4	Ø 1..4: 3 Ø 5: 4	Ø 1: 2.5 Ø 2..5: 3 Ø 6: 4	Ø 1..6: 2.5 Ø 7: 3.5	Ø 1..6: 2 Ø 7: 2.5 Ø 8: 3	Ø 1..7: 2 Ø 8: 2.5 Ø 9: 3	Ø 1..8: 2 Ø 9: 2.5 Ø 10: 3	Ø 1..5: 2 Ø 6..10: 2.5 Ø 11: 3	Ø 1..11: 2 Ø 12: 2.5	Ø 1..12: 2 Ø 13: 2.5	Ø 1..13: 2 Ø 14: 2.5	Ø 1..14: 2 Ø 15: 2.5	Ø 1..16: 2	Ø 1..17: 2	Ø 1..18: 2
		S	10000	3200	2372	2039	1643	1198	1189	991	873	794	677	752	692	641	595	582	552	521
		V	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750	1750	2000	2000	2000	2000	2250	2750	3000
		F	14.3	17.0	21.4	23.9	27.6	29.7	32.2	27.0	29.7	31.7	36.6	38.2	40.3	42.4	44.3	51.4	65.6	73.4
		B	100	49	47	59	58	51	52	46	45	45	50	64	64	64	64	83	85	83
		T	57	59	55	59	56	54	52	60	58	57	53	58	56	55	54	56	45	41
4	20 ÷ 40	Ø	Ø 1: 6	Ø 1: 3 Ø 2: 4.5	Ø 1..2: 3 Ø 3: 4	Ø 1..3: 2.5 Ø 4: 3.5	Ø 1..3: 2 Ø 4: 2.5 Ø 5: 3	Ø 1..4: 2 Ø 5: 2.5 Ø 6: 3	Ø 1..5: 2 Ø 6: 2.5 Ø 7: 3	Ø 1..7: 2 Ø 8: 2.5	Ø 1..9: 2									
		S	5000	1599	1326	995	735	636	559	568	539									
		V	1750	2250	2500	2750	3000	3000	3250	3500	4000									
		F	37.4	46.9	59.3	62.5	62.8	69.2	81.5	87.2	103.6									
		B	100	48	59	52	46	46	45	64	93									
		T	58	57	56	57	59	57	50	57	60									
4	5 ÷ 20	Ø	Ø 1: 4	Ø 1: 2.5 Ø 2: 3.5	Ø 1..2: 2.5 Ø 3: 3.5	Ø 1..3: 2 Ø 4: 2.5	Ø 1..4: 2 Ø 5: 2.5	Ø 1..5: 2 Ø 6: 2.5	Ø 1..7: 2	Ø 1..8: 2										
		S	5000	1702	1264	1091	891	751	703	617										
		V	1500	1500	1500	2000	2000	1750	2250	3000										
		F	20.2	23.3	29.7	31.4	37.1	36.8	50.0	73.6										
		B	100	52	52	64	64	64	96	96										
		T	44	49	44	50	47	50	47	34										

Table C1, holes from 19 to 36

Detection class	C
Number of detectors	1
Anti-dust filter	No
Condensation trap	No

D1	detector 1 module

Øn	diameter of the hole "n" (mm)
S	detection sensitivity (10^{-5} dB/m)
V	aspiration speed (RPM)
F	expected airflow (l/min)
B	air aspiration balancing between the holes (%)
T	transit time of the smoke (s)

1 branch	2 branches	4 branches
		

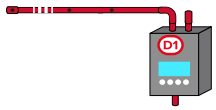
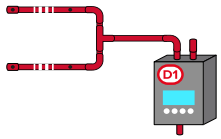
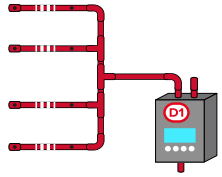
Number of branches	Length of branches (m)	parameters	Number of holes for each branch																	
			19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	60 ÷ 90	Ø	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 19: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 20: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 21: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 22: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 23: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 24: 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		S	791	759	693	651	613	575	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		V	4250	4250	4500	4500	4500	4750	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		F	60.6	61.7	65.6	66.5	67.4	72.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		B	45	47	47	47	47	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		T	85	84	82	83	84	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	30 ÷ 60	Ø	Ø 1..12: 2 Ø 13..18: 2.5 Ø 19: 3	Ø 1..13: 2 Ø 14..19: 2.5 Ø 20: 3	Ø 1..14: 2 Ø 15..20: 2.5 Ø 21: 3	Ø 1..15: 2 Ø 16..21: 2.5 Ø 22: 3	Ø 1..16: 2 Ø 17..22: 2.5 Ø 23: 3	Ø 1..17: 2 Ø 18..23: 2.5 Ø 24: 3	Ø 1..18: 2 Ø 19..24: 2.5 Ø 25: 3	Ø 1..9: 2 Ø 10..17: 2.5 Ø 18..25: 3 Ø 26: 4	Ø 1..26: 2 Ø 27: 2.5	Ø 1..28: 2	Ø 1..28: 2 Ø 29: 2.5	Ø1 ÷ 30: 2	Ø1 ÷ 31: 2	Ø 1..32: 2	N/A	N/A	N/A	N/A
		S	789	746	702	667	634	599	570	589	592	589	522	489	477	496	N/A	N/A	N/A	N/A
		V	3250	3250	3250	3250	3250	3250	3250	3500	4000	4500	3750	4250	4250	4750	N/A	N/A	N/A	N/A
		F	44.8	45.9	48.9	47.6	48.6	49.2	50.1	57.6	66.8	77.1	60.2	75.7	77.3	87.4	N/A	N/A	N/A	N/A
		B	50	50	50	50	50	50	50	56	59	60	50	45	45	55	N/A	N/A	N/A	N/A
		T	53	53	51	54	54	54	54	50	48	49	57	84	83	46	N/A	N/A	N/A	N/A
1	15 ÷ 30	Ø	Ø 1..12: 2 Ø 13..18: 2.5 Ø 19: 3	Ø 1..13: 2 Ø 14..19: 2.5 Ø 20: 3	Ø 1..14: 2 Ø 15..20: 2.5 Ø 21: 3	Ø 1..15: 2 Ø 16..21: 2.5 Ø 22: 3	Ø 1..16: 2 Ø 17..22: 2.5 Ø 23: 3	Ø 1..17: 2 Ø 18..23: 2.5 Ø 24: 3	Ø 1..17: 2 Ø 18..24: 2.5 Ø 25: 3	Ø 1..18: 2 Ø 19..25: 2.5 Ø 26: 3	Ø 1..19: 2 Ø 20..26: 2.5 Ø 27: 3	Ø 1..20: 2 Ø 21..27: 2.5 Ø 28: 3	Ø 1..21: 2 Ø 22..28: 2.5 Ø 29: 3	Ø 1..22: 2 Ø 23..29: 2.5 Ø 30: 3	Ø 1..30: 2 Ø 31: 2.5	Ø 1..31: 2 Ø 32: 2.5	Ø 1..32: 2 Ø 33: 2.5	Ø 1..33: 2 Ø 34: 2.5	Ø 1..35: 2	Ø 1..36: 2
		S	804	762	722	686	653	622	596	569	544	520	498	477	513	492	473	453	456	439
		V	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750	2000	2000
		F	23.3	23.9	24.5	25.1	25.7	26.3	27.0	27.6	28.1	28.5	29.0	29.5	33.7	34.3	34.9	35.0	40.2	40.7
		B	50	50	50	50	50	50	51	51	51	51	51	51	60	58	57	55	56	55
		T	50	50	49	49	49	49	49	49	49	49	49	49	49	49	49	50	51	51
2	30 ÷ 60	Ø	Ø 1..12: 2 Ø 13..18: 2.5 Ø 19: 3	Ø 1..12: 2 Ø 13..19: 2.5 Ø 20: 3	Ø 1..12: 2 Ø 13..20: 2.5 Ø 21: 3	Ø 1..11: 2 Ø 12..21: 2.5 Ø 22: 3														
		S	391	370	355	342														
		V	3750	4000	3750	4000														
		F	92.1	100.5	95.4	103.4														
		B	50	51	54	57														
		T	53	52	55	53														
2	15 ÷ 30	Ø	Ø 1..19: 2	Ø 1..20: 2																
		S	493	468																
		V	3500	4250																
		F	88.1	109.7																
		B	82	81																
		T	34	28																

Table C1, holes from 37 to 44

Detection class	**C**
Number of detectors	**1**
Anti-dust filter	**No**
Condensation trap	**No**

D1	detector 1 module

Øn	diameter of the hole "n" (mm)
S	detection sensitivity (10^{-5} dB/m)
V	aspiration speed (RPM)
F	expected airflow (l/min)
B	air aspiration balancing between the holes (%)
T	transit time of the smoke (s)

1 branch	2 branches	4 branches
		

Number of branches	Length of branches (m)	parameters	Number of holes for each branch							
			37	38	39	40	41	42	43	44
1	60 ÷ 90	Ø								
		S								
		V								
		F								
		B								
		T								
1	30 ÷ 60	Ø								
		S								
		V								
		F								
		B								
		T								
1	15 ÷ 30	Ø	Ø 1..37: 2	Ø 1..38: 2	Ø 1..39: 2	Ø 1..39: 2 Ø 40: 2.5	Ø 1..40: 2 Ø 41: 2.5	Ø 1..42: 2	Ø 1..42: 2 Ø 43: 2.5	Ø 1..21: 2 Ø 22..44: 2.5
		S	429	416	414	388	377	375	358	348
		V	2250	2250	2750	3250	3500	4000	4500	4250
		F	46.3	48.4	61.1	69.6	75.9	87.9	100.5	98.6
		B	54	55	57	52	51	52	51	52
		T	45	44	34	26	24	25	19	21