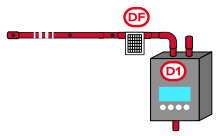
Table C1_DF, holes from 1 to 18

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

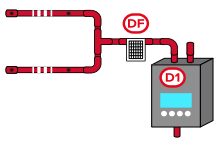
D1	detector 1 module
DF	filter for dust

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)

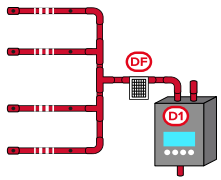
1 branch



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: 7.5	Ø 1: 4 Ø 2: 4.5 Ø 3: 7.5	Ø 1: 3.5 Ø 2: 4 Ø 3: 4.5 Ø 4: 7	Ø 1..2: 3.5 Ø 3: 4 Ø 4: 4.5 Ø 5: 7	Ø 1: 2.5 Ø 2..4: 3 Ø 5: 3.5 Ø 6: 4.5	Ø 1: 2.5 Ø 2..3: 3 Ø 4..6: 3.5 Ø 7: 5	Ø 1: 2.5 Ø 2..4: 3 Ø 5..7: 3.5 Ø 8: 5	Ø 1: 2.5 Ø 2..3: 3 Ø 4..5: 3.5 Ø 6: 4 Ø 7: 4.5 Ø 8: 5 Ø 9: 7.5	Ø 1..3: 2.5 Ø 4..7: 3 Ø 8..9: 3.5 Ø 10: 4.5		Ø 1: 2 Ø 2..7: 2.5 Ø 8..11: 3 Ø 12: 4		Ø 1..2: 2 Ø 3..7: 2.5 Ø 8..11: 3 Ø 12..13: 3.5 Ø 14: 4.5				
		S	20000	6845	4928	3936	2982	2463	2166	1978	1757	1612		1276		1089				
		V	3000	3250	3500	3750	3750	4250	4500	4250	4500	4750		4750		4750				
		F	22.8	28.8	33.0	37.2	40.7	39.3	45.9	45.3	51.9	56.8		52.6		55.3				
		B	100	58	54	54	53	50	51	53	55	53		50		51				
		T	59	60	62	60	61	67	62	67	61	58		67		66				
1	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 4 Ø 2: 6.5	Ø 1: 4 Ø 2: 4.5 Ø 3: 6.5	Ø 1: 4 Ø 2: 4.5 Ø 3: 5 Ø 4: 8	Ø 1: 3 Ø 2..4: 3.5 Ø 5: 5	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 5	Ø 1..3: 3 Ø 4..6: 3.5 Ø 7: 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..2: 2.5 Ø 3..7: 3 Ø 8..9: 3.5 Ø 10: 4.5	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..8: 2 Ø 9..13: 2.5 Ø 14: 3	Ø 1..9: 2 Ø 10..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	6244	4981	3932	2999	2580	2214	1892	1730	1556	1406	1293	1186	1085	1019	948	894	842
		V	2000	2250	2250	2250	2500	2500	2500	2750	2750	2750	3000	3000	3000	3250	3250	3250	3250	3250
		F	16.4	18.8	23.4	28.2	27.1	29.2	31.1	31.4	32.4	35.6	37.9	39.5	39.7	37.6	38.4	40.4	40.6	41.6
		B	100	50	61	57	53	52	51	50	53	52	51	51	51	50	50	51	51	51
		T	49	54	53	49	55	54	54	56	58	55	53	53	55	56	56	56	56	56
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: 2.5 Ø 2..6: 3 Ø 7: 4	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..12: 2.5 Ø 13: 3.5	Ø 1..10: 2.5 Ø 11..13: 3 Ø 14: 3.5	Ø 1: 2 Ø 2..11: 2.5 Ø 12..14: 3 Ø 15: 3.5	Ø 1..2: 2 Ø 3..12: 2.5 Ø 13..15: 3 Ø 16: 3.5	Ø 1..3: 2 Ø 4..13: 2.5 Ø 14..16: 3 Ø 17: 3.5	Ø 1..3: 2 Ø 4..14: 2.5 Ø 15..17: 3 Ø 18: 3.5
		S	20000	6398	4743	4081	3291	2387	2107	2065	1830	1638	1478	1341	1224	1102	951	902	857	825
		V	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
		F	7.2	8.6	10.9	12.2	14.3	15.4	17.1	15.3	16.5	17.7	18.7	19.7	20.6	22.1	22.3	22.6	22.9	23.5
		B	100	49	47	58	58	50	53	52	52	52	52	52	52	57	56	56	55	56
		T	56	59	54	58	55	52	51	59	57	56	55	55	55	52	52	51	51	52
2	30 ÷ 60	Ø	Ø 1: 7.5	Ø 1: 4 Ø 2: 6.5	Ø 1: 4 Ø 2: 4.5 Ø 3: 7	Ø 1: 3.5 Ø 2..3: 4 Ø 4: 6	Ø 1..4: 3 Ø 5: 4.5	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 5	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 4 Ø 7: 5.5	Ø 1..3: 2.5 Ø 4..7: 3 Ø 8: 4	Ø 1..4: 2.5 Ø 5..8: 3 Ø 9: 4	Ø 1..4: 2.5 Ø 5..9: 3 Ø 10: 4	Ø 1..3: 2.5 Ø 4..8: 3 Ø 9..10: 3.5 Ø 11: 4.5	Ø 1..10: 2 Ø 11: 2.5 Ø 12: 3	Ø 1..7: 2 Ø 8..12: 2.5 Ø 13: 3	Ø 1..7: 2 Ø 8..13: 2.5 Ø 14: 3	Ø 1..9: 2 Ø 10..14: 2.5 Ø 15: 3	Ø 1..9: 2 Ø 10..15: 2.5 Ø 16: 3	Ø 1..9: 2 Ø 10..16: 2.5 Ø 17: 3	Ø 1..11: 2 Ø 12..17: 2.5 Ø 18: 3
		S	10000	3135	2429	1899	1510	1282	1122	951	853	777	711	640	585	541	505	474	441	415
		V	2250	2500	2500	2750	3000	3000	3000	3250	3250	3500	3500	3750	4000	4000	4000	4000	4000	4250
		F	29.3	37.5	44.3	50.5	50.1	57.4	61.2	61.2	63.2	69.7	72.3	66.0	74.6	76.0	77.6	79.8	80.0	86.6
		B	100	50	56	52	47	52	50	50	50	52	52	45	50	50	50	51	50	51
		T	55	54	55	54	58	55	55	57	58	56	55	61	55	56	56	56	58	55
2	15 ÷ 30	Ø	Ø 1: 5	Ø 1: 3.5 Ø 2: 5	Ø 1..2: 3 Ø 3: 4.5	Ø 1..3: 3 Ø 4: 4.5	Ø 1..4: 3 Ø 5: 4.5	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 5	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..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 Ø 8..12: 2.5 Ø 13: 3	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..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	9999	3464	2374	1861	1511	1280	1182	1033	913	815	710	652	587	543	510	480	451	425
		V	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750	1750	1750	2000	2000	2000	2000	2000	2000
		F	13.8	19.0	19.9	22.9	25.3	29.0	28.7	30.7	32.3	33.8	36.9	37.6	38.7	40.1	40.9	41.6	42.3	42.9
		B	100	55	48	47	47	52	52	52	52	52	51	51	50	51	51	51	51	51
		T	59	54	59	58	58	55	59	59	59	59	54	55	52	53	53	53	53	54
4	20 ÷ 40	Ø	Ø 1: 6	Ø 1: 4 Ø 2: 6	Ø 1..2: 3 Ø 3: 4.5	Ø 1..2: 3 Ø 3: 3.5 Ø 4: 4.5	Ø 1..3: 3 Ø 4: 3.5 Ø 5: 4.5	Ø 1: 2.5 Ø 2..5: 3 Ø 6: 4	Ø 1..5: 2 Ø 6: 2.5 Ø 7: 3	Ø 1..6: 2 Ø 7: 2.5 Ø 8: 3	Ø 1..6: 2 Ø 7..8: 2.5 Ø 9: 3	Ø 1..6: 2 Ø 7..9: 2.5 Ø 10: 3	Ø 1..2: 2 Ø 3..10: 2.5 Ø 11: 3	Ø 1..11: 2 Ø 12: 2.5						
		S	5000	1709	1187	926	763	607	557	495	432	383	330	376						
		V	2000	2250	2500	2750	2750	3000	3250	3250	3500	3500	3750	4250						
		F	37.2	49.6	51.9	63.1	65.9	72.2	67.5	70.5	79.8	83.0	94.3	101.3						
		B	100	56	48	51	51	52	46	46	45	48	57	64						
		T	58	56	60	57	60	60	61	62	58	58	61	58						
4	5 ÷ 20	Ø	Ø 1: 4	Ø 1: 3 Ø 2: 4	Ø 1..2: 2.5 Ø 3: 3.5	Ø 1..3: 2.5 Ø 4: 3.5	Ø 1..4: 2.5 Ø 5: 3	Ø 1..5: 2 Ø 6: 2.5	Ø 1..6: 2 Ø 7: 2.5	Ø 1..7: 2 Ø 8: 2.5	Ø 1..8: 2 Ø 9: 2.5	Ø 1..9: 2 Ø 10: 2.5	Ø 1..11: 2	Ø 1..12: 2						
		S	5000	1820	1264	997	900	751	649	570	507	458	440	403						
		V	1500	1500	1500	1500	1750	2000	2000	2000	2000	2250	2500	2750						
		F	19.0	26.2	26.2	29.8	36.6	36.8	39.8	42.2	44.2	51.7	58.3	66.0						
		B	100	59	52	52	70	64	64	64	64	64	92	91						
		T	47	44	50	50	49	50	50	49	49	44	48	44						

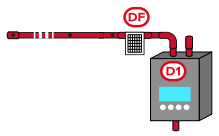
Table C1_DF, holes from 19 to 36

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

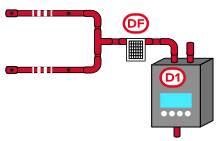
D1	detector 1 module
DF	filter for dust

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)

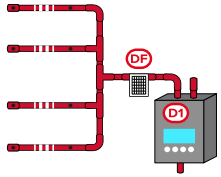
1 branch



2 branches



4 branches



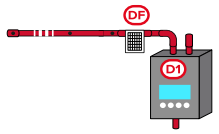
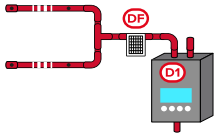
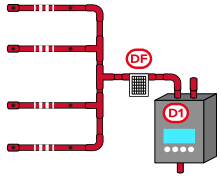
Number of branches	Length of branches (m)	parameters	Number of holes for each branch																	
			19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	60 ÷ 90	Ø	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 19: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 20: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 21: 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..17: 2 Ø 18..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..25: 2 Ø 26: 2.5	Ø 1..10: 2 Ø 11..17: 2.5 Ø 18..26: 3 Ø 27: 4	Ø1 ÷ 28: 2	Ø 1..28: 2 Ø 29: 2.5	Ø 1..30: 2	Ø1 ÷ 31: 2	N/A	N/A	N/A	N/A	N/A
		S	791	766	703	667	634	599	570	606	555	506	520	517	477	N/A	N/A	N/A	N/A	N/A
		V	3250	3500	3500	3500	3500	3500	3500	4250	3750	3250	4000	4750	4250	N/A	N/A	N/A	N/A	N/A
		F	42.1	45.1	47.0	47.8	48.7	49.2	49.9	60.3	61.1	55.8	59.0	71.3	77.3	N/A	N/A	N/A	N/A	N/A
		B	51	46	50	50	50	50	50	55	56	45	50	50	45	N/A	N/A	N/A	N/A	N/A
		T	57	52	53	53	53	54	55	53	47	84	58	57	83	N/A	N/A	N/A	N/A	N/A
1	15 ÷ 30	Ø	Ø 1..4: 2 Ø 5..15: 2.5 Ø 16..18: 3 Ø 19: 3.5	Ø 1..5: 2 Ø 6..16: 2.5 Ø 17..19: 3 Ø 20: 3.5	Ø 1..6: 2 Ø 7..17: 2.5 Ø 18..20: 3 Ø 21: 3.5	Ø 1..21: 2 Ø 22: 2.5	Ø 1..22: 2 Ø 23: 2.5	Ø 1..23: 2 Ø 24: 2.5	Ø 1..24: 2 Ø 25: 2.5	Ø 1..25: 2 Ø 26: 2.5	Ø 1..26: 2 Ø 27: 2.5	Ø 1..27: 2 Ø 28: 2.5	Ø 1..28: 2 Ø 29: 2.5	Ø 1..22: 2 Ø 23..29: 2.5 Ø 30: 3	Ø 1..28: 2 Ø 29..30: 2.5 Ø 31: 3	Ø 1..32: 2	Ø 1..32: 2 Ø 33: 2.5	Ø 1..33: 2 Ø 34: 2.5	Ø 1..34: 2 Ø 35: 2.5	Ø 1..36: 2
		S	786	750	717	769	730	694	660	629	600	573	547	480	468	506	473	454	436	438
		V	1500	1500	1500	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	2000	2000	2000	2000	2250
		F	23.7	24.0	24.2	25.5	26.1	26.7	27.3	27.9	28.4	28.9	29.3	30.7	30.6	34.7	35.0	35.4	35.8	40.3
		B	56	56	56	64	64	64	64	64	63	62	60	50	45	60	57	55	54	54
		T	52	52	52	56	56	55	55	55	55	56	56	46	47	57	49	49	50	52
2	30 ÷ 60	Ø	Ø 1..11: 2 Ø 12..18: 2.5 Ø 19: 3	Ø 1..11: 2 Ø 12..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	Ø 1..11: 2 Ø 12..22: 2.5 Ø 23: 3													
		S	394	373	355	342	331													
		V	4250	4250	4500	4500	4750													
		F	87.6	88.5	95.0	96.4	102.5													
		B	51	52	54	58	60													
		T	55	57	55	57	56													
2	15 ÷ 30	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..21: 2 Ø 22: 2.5	Ø 1..22: 2 Ø 23: 2.5	Ø 1..23: 2 Ø 24: 2.5	Ø 1..24: 2 Ø 25: 2.5											
		S	401	381	364	383	363	350	333											
		V	2000	2000	2000	2250	2250	2500	2500											
		F	43.5	44.2	44.9	49.5	50.2	56.8	57.4											
		B	51	52	54	64	64	64	64											
		T	54	55	57	58	58	52	52											

Table C1_DF, holes from 37 to 42

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

D1	detector 1 module
DF	filter for dust

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
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..40: 2	Ø 1..41: 2	Ø 1..41: 2 Ø 42: 2.5
		S	427	416	407	401	386	368
		V	2500	2750	3250	4500	4000	4500
		F	45.1	50.1	59.9	84.3	75.2	85.7
		B	54	53	53	54	52	51
		T	46	42	35	25	29	22