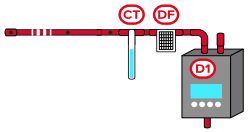
Table C1_DF_CT, holes from 1 to 18

Detection class	**C**
Number of detectors	**1**
Anti-dust filter	**Yes**
Condensation trap	**Yes**

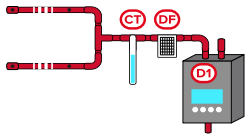
D1	detector 1 module
DF	filter for dust
CT	trap for condensation

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)

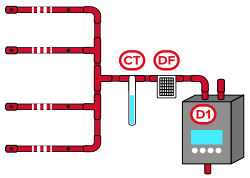
1 branch



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..8: 3 Ø 9: 3.5 Ø 10: 4.5	Ø 1..3: 2.5 Ø 4..6: 3 Ø 7..8: 3.5 Ø 9..10: 4 Ø 11: 5.5			Ø 1..2: 2 Ø 3..7: 2.5 Ø 8..11: 3 Ø 12..13: 3.5 Ø 14: 4.5				
		S	20000	6848	4929	3937	2983	2463	2166	2018	1758	1541	1468			1089				
		V	3000	3250	3500	3750	3750	4250	4500	4250	4500	4500	4750			4750				
		F	22.8	28.7	32.9	37.1	40.6	39.2	45.8	45.2	51.8	49.4	55.3			55.2				
		B	100	58	54	54	53	50	51	53	55	50	53			51				
		T	59	60	62	60	62	67	62	67	62	68	61			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	6246	4983	3932	3000	2550	2215	1892	1716	1557	1407	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	23.3	28.1	27.1	29.1	31.0	31.3	32.4	35.5	37.8	39.4	39.6	37.5	38.3	40.3	40.5	41.5
		B	100	50	61	57	53	52	51	50	53	52	51	51	51	50	50	51	51	51
		T	49	54	53	50	55	54	54	56	58	55	53	53	55	56	56	56	57	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..2: 2.5 Ø 3..7: 3 Ø 8: 4	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	2108	1883	1830	1638	1477	1341	1223	1102	952	903	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	14.2	15.4	17.0	18.0	16.5	17.6	18.7	19.6	20.5	22.0	22.2	22.5	22.8	23.4
		B	100	49	47	58	58	50	53	52	52	52	52	52	52	57	56	56	56	56
		T	56	59	54	58	55	52	51	50	57	56	56	55	55	52	52	52	52	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..3: 2.5 Ø 4..8: 3 Ø 9: 4	Ø 1..2: 2.5 Ø 3..6: 3 Ø 7..9: 3.5 Ø 10: 4.5	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: 2.5 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..9: 2 Ø 10..16: 2.5 Ø 17: 3	Ø 1..11: 2 Ø 12..17: 2.5 Ø 18: 3
		S	10000	3137	2432	1902	1509	1283	1123	948	865	743	712	649	596	541	505	478	444	415
		V	2250	2500	2500	2750	3000	3000	3000	3250	3500	3500	3500	3750	3750	4000	4000	4000	4000	4250
		F	29.1	37.3	44.0	50.2	49.9	57.0	60.8	60.8	67.5	71.0	71.7	66.6	78.3	75.5	77.1	78.8	79.7	86.0
		B	100	50	56	52	47	52	50	50	53	56	52	45	51	50	50	51	51	51
		T	56	54	55	54	59	56	55	58	55	56	56	59	56	56	56	57	58	56
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..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 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	3465	2374	1861	1510	1281	1181	1032	913	777	710	652	587	543	511	480	451	425
		V	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750	1750	1750	2000	2000	2000	2000	2000	2000
		F	13.7	19.0	19.8	22.8	25.2	28.9	28.6	30.5	32.2	35.8	36.6	37.3	38.5	39.8	40.6	41.3	42.0	42.6
		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	54	55	56	53	53	53	54	54	54
4	20 ÷ 40	Ø	Ø 1: 6	Ø 1: 4 Ø 2: 6.5	Ø 1..2: 3 Ø 3: 4.5	Ø 1..2: 3 Ø 3: 3.5 Ø 4: 4.5	Ø 1..4: 3 Ø 5: 4	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..7: 2 Ø 8: 2.5 Ø 9: 3	Ø 1..6: 2 Ø 7..9: 2.5 Ø 10: 3	Ø 1..10: 2 Ø 11: 2.5	Ø 1..11: 2 Ø 12: 2.5						
		S	5000	1575	1187	926	819	608	557	496	432	383	410	376						
		V	2000	2250	2500	2750	3000	3000	3250	3500	3500	3500	4000	4250						
		F	37.0	50.2	51.5	62.6	69.8	71.6	67.1	75.6	79.1	82.2	92.2	100.4						
		B	100	50	48	51	58	52	46	45	45	48	64	64						
		T	58	54	61	57	60	61	62	57	59	59	59	62						
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	401						
		V	1500	1500	1500	1500	1750	2000	2000	2000	2000	2250	2500	2500						
		F	19.0	26.0	26.1	29.6	36.3	36.6	39.5	41.9	43.9	51.2	57.8	59.4						
		B	100	59	52	52	70	64	64	64	64	64	92	90						
		T	47	45	51	50	50	51	50	50	50	44	48	48						

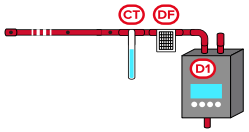
Table C1_DF_CT, holes from 19 to 36

Detection class	**C**
Number of detectors	**1**
Anti-dust filter	**Yes**
Condensation trap	**Yes**

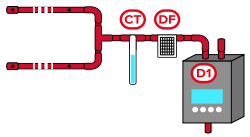
D1	detector 1 module
DF	filter for dust
CT	trap for condensation

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)

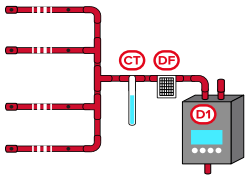
1 branch



2 branches



4 branches



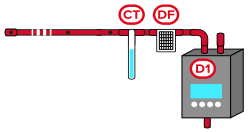
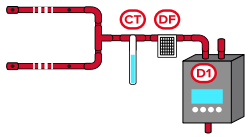
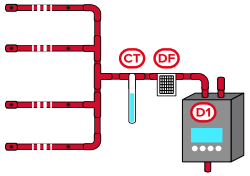
Number of branches	Length of branches (m)	parameters	Number of holes for each branch																	
			19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	60 ÷ 90	Ø	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 19: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 20: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 21: 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..18: 2 Ø 19..25: 2.5 Ø 26: 3	Ø 1..26: 2 Ø 27: 2.5	Ø1 ÷ 28: 2	Ø1 ÷ 29: 2	Ø 1..29: 2 Ø 30: 2.5	Ø1 ÷ 31: 2	N/A	N/A	N/A	N/A	N/A
		S	791	765	703	667	634	599	571	542	577	506	510	503	477	N/A	N/A	N/A	N/A	N/A
		V	3250	3500	3500	3500	3500	3500	3750	4000	4250	3250	3750	4750	4250	N/A	N/A	N/A	N/A	N/A
		F	42.0	45.0	46.8	47.7	48.5	49.0	53.4	57.9	61.0	55.8	65.9	71.2	77.3	N/A	N/A	N/A	N/A	N/A
		B	51	46	50	50	50	50	50	51	53	45	47	49	45	N/A	N/A	N/A	N/A	N/A
		T	57	52	53	53	54	55	51	49	54	84	84	49	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..26: 2 Ø 27..28: 2.5 Ø 29: 3	Ø 1..27: 2 Ø 28..29: 2.5 Ø 30: 3	Ø 1..28: 2 Ø 29..30: 2.5 Ø 31: 3	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..34: 2 Ø 35: 2.5	Ø 1..36: 2
		S	787	751	718	769	730	693	660	628	599	572	510	488	467	494	473	453	436	437
		V	1500	1500	1500	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	2000	2000	2000	2000	2250
		F	23.6	23.9	24.1	25.4	26.0	26.6	27.2	27.7	28.2	28.7	29.6	30.0	30.4	34.7	34.7	35.2	35.6	40.1
		B	56	56	56	64	64	64	64	64	63	62	45	45	45	59	56	55	54	54
		T	52	52	52	56	56	56	56	56	56	56	47	47	47	49	50	50	50	52
2	30 ÷ 60	Ø	Ø 1..11: 2 Ø 12..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	394	372	355	340														
		V	4250	4250	4500	4750														
		F	86.9	89.7	94.3	100.9														
		B	51	52	54	58														
		T	56	56	56	54														
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	362	350	332											
		V	2000	2000	2000	2250	2250	2500	2500											
		F	43.2	43.9	44.5	49.1	49.8	56.3	56.9											
		B	51	52	54	64	64	64	64											
		T	55	56	57	58	59	52	53											

Table C1_DF_CT, holes from 37 to 41

Detection class	**C**
Number of detectors	**1**
Anti-dust filter	**Yes**
Condensation trap	**Yes**

D1	detector 1 module
DF	filter for dust
CT	trap for condensation

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
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..40: 2 Ø 41: 2.5
		S	429	416	405	401	390
		V	2500	2750	3000	4500	4000
		F	46.0	49.8	54.9	83.8	78.7
		B	56	53	53	54	57
		T	45	42	39	25	23