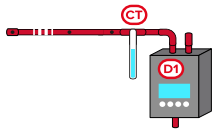
Table C1_CT, holes from 1 to 18

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

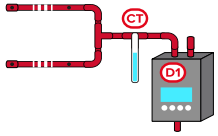
D1	detector 1 module
CT	trap for condensation

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)

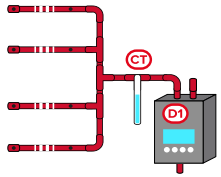
1 branch



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: 10	Ø 1: 4 Ø 2: 4.5 Ø 3: 7.5	Ø 1: 3.5 Ø 2: 4 Ø 3: 4.5 Ø 4: 7.5	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..2: 2.5 Ø 3..5: 3 Ø 6..8: 3.5 Ø 9: 5	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 Ø 2..6: 2.5 Ø 7..9: 3 Ø 10..13: 3.5 Ø 14: 5			Ø 1..3: 2 Ø 4..8: 2.5 Ø 9..11: 3 Ø 12..13: 3.5 Ø 14..15: 4 Ø 16: 4.5 Ø 17: 6	
		S	20000	6231	4908	3880	3071	2503	2228	2005	1774	1506	1449	1322	1268	1111			931	
		V	3000	3000	3500	3500	3750	4000	4250	4250	4500	4500	4750	4750	4500	4500			4750	
		F	23.6	28.8	32.8	35.9	40.2	40.7	46.0	48.5	51.3	50.0	56.7	59.5	65.2	62.5			69.2	
		B	100	48	54	51	52	48	50	50	51	51	53	56	54	51			51	
		T	57	58	62	61	61	66	62	61	61	67	61	61	56	60			56	
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	6843	4815	3749	3141	2544	2182	1885	1705	1547	1408	1335	1177	1089	1010	948	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	23.0	25.9	30.3	31.0	31.3	31.6	34.4	35.5	36.6	39.2	43.9	43.1	44.0	44.2	42.7	43.9
		B	100	68	53	52	55	51	50	50	52	52	51	52	50	56	53	56	51	51
		T	47	49	54	53	50	51	54	56	54	55	55	56	49	53	52	52	54	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	1838	1648	1489	1354	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	18.7	20.0	21.2	18.4	19.2	20.4	21.1	21.8	22.5
		B	100	48	47	58	58	50	52	52	52	52	52	52	50	50	51	51	50	50
		T	56	58	53	56	53	50	59	56	54	53	52	51	55	54	53	52	52	51
2	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 4.5 Ø 2: 7	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: 5	Ø 1..5: 3 Ø 6: 3.5 Ø 7: 4.5	Ø 1..4: 3 Ø 5..7: 3.5 Ø 8: 4.5	Ø 1: 2.5 Ø 2..5: 3 Ø 6..8: 3.5 Ø 9: 4.5	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: 2.5 Ø 8..12: 3 Ø 13: 4	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..10: 2 Ø 11..17: 2.5 Ø 18: 3
		S	10000	3422	2383	1857	1508	1286	1090	997	841	776	703	647	593	541	506	473	444	415
		V	2000	2250	2500	2500	2500	2750	2750	3000	3000	3000	3250	3250	3250	3500	3500	3500	3500	3500
		F	31.5	39.4	44.3	50.1	54.9	61.2	61.6	70.8	71.7	69.6	77.0	79.7	80.1	76.3	78.5	80.5	82.3	85.3
		B	100	59	55	53	52	51	50	58	57	52	51	51	51	50	50	51	51	51
		T	51	53	55	54	55	51	55	53	54	56	52	52	54	56	55	56	56	56
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..7: 2 Ø 8..9: 2.5 Ø 10: 3	Ø 1..5: 2 Ø 6..10: 2.5 Ø 11: 3	Ø 1..6: 2 Ø 7..11: 2.5 Ø 12: 3	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	1199	1189	991	873	794	678	629	692	640	595	582	549	521
		V	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750	1750	1750	2000	2000	2000	2250	2500	3000
		F	14.2	16.9	21.3	23.8	27.5	29.4	32.1	26.9	29.5	31.5	36.3	37.8	40.1	42.0	43.9	50.9	59.2	73.1
		B	100	49	47	59	58	51	52	46	45	45	50	50	64	64	64	83	83	84
		T	57	59	55	59	57	55	53	60	59	57	54	53	57	56	55	57	50	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	558	568	539									
		V	1750	2250	2500	2750	3000	3000	3000	3500	4000									
		F	37.1	46.6	58.8	62.0	62.4	68.6	74.2	86.3	102.5									
		B	100	48	59	52	46	46	46	64	92									
		T	58	58	56	58	59	57	56	58	61									
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	Ø 1..9: 2									
		S	5000	1702	1264	1091	891	751	703	616	550									
		V	1500	1500	1500	2000	2000	1750	2250	2750	4500									
		F	20.2	23.2	29.5	31.2	36.9	36.6	49.7	66.7	118.3									
		B	100	53	52	64	64	64	96	96	97									
		T	45	49	45	51	47	51	48	37	22									

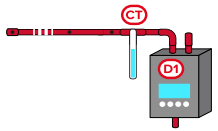
Table C1_CT, holes from 19 to 36

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

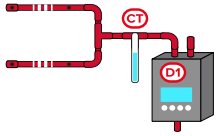
D1	detector 1 module
CT	trap for condensation

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)

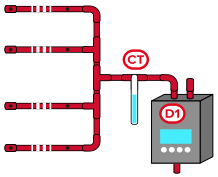
1 branch



2 branches



4 branches



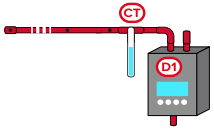
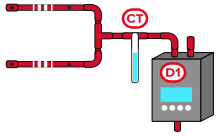
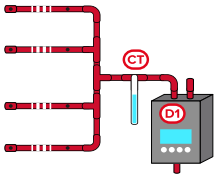
Number of branches	Length of branches (m)	parameters	Number of holes for each branch																	
			19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	60 ÷ 90	Ø	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 19: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 20: 2	Ø1: 6 Ø2: 5 Ø3: 4.5 Ø4: 4 Ø5: 3.5 Ø6, 21: 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/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
		S	791	759	693	651	613	575	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
		V	4250	4250	4500	4500	4500	4750	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
		F	60.6	61.7	65.6	66.5	67.4	72.5	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
		B	45	47	47	47	47	45	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
		T	85	84	82	83	84	80	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
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..25: 2 Ø 26: 2.5	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/D	N/D	N/D	N/D
		S	789	746	702	667	633	599	571	607	579	589	521	489	477	475	N/D	N/D	N/D	N/D
		V	3250	3250	3250	3250	3250	3250	3500	4000	4000	4500	3750	4250	4250	4750	N/D	N/D	N/D	N/D
		F	44.7	45.7	48.7	47.4	48.4	49.0	53.9	61.0	62.2	76.7	59.9	75.7	77.3	79.8	N/D	N/D	N/D	N/D
		B	50	50	50	50	50	50	50	55	54	60	50	45	45	48	N/D	N/D	N/D	N/D
		T	54	53	51	54	54	55	50	52	53	49	57	84	83	53	N/D	N/D	N/D	N/D
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..18: 2 Ø 19..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..34: 2 Ø 35: 2.5	Ø 1..36: 2
		S	804	761	722	686	652	621	593	568	543	520	497	477	513	492	472	453	434	438
		V	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1750	1750	1750	1750	1750	2000
		F	23.1	23.8	24.4	25.0	25.6	26.1	26.7	27.4	27.9	28.3	28.8	29.2	33.1	34.1	34.6	34.6	35.3	40.4
		B	50	50	50	50	50	50	50	51	51	51	51	51	58	58	57	54	54	55
		T	50	50	50	49	49	49	49	49	49	49	49	49	50	50	50	51	51	51
2	30 ÷ 60	Ø	Ø 1..10: 2 Ø 11..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..10: 2 Ø 11..22: 2.5 Ø 23: 3													
		S	391	373	355	375	332													
		V	3750	3750	3750	4250	4250													
		F	91.2	93.0	94.3	104.1	111.0													
		B	50	52	54	62	61													
		T	54	55	56	56	52													
2	15 ÷ 30	Ø	Ø 1..19: 2	Ø 1..20: 2	Ø 1..21: 2															
		S	492	466	443															
		V	3250	3750	4500															
		F	81.0	95.6	117.7															
		B	82	80	79															
		T	38	32	27															

Table C1_CT, holes from 37 to 46

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

D1	detector 1 module
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	42	43	44	45	46
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..20: 2 Ø 21..45: 2.5	Ø 1..18: 2 Ø 19..29: 2.5 Ø 30..46: 3
		S	422	413	409	391					348	332
		V	2000	2250	3000	2750					4750	4750
		F	41.0	46.5	62.9	58.0					110.9	125.6
		B	53	53	53	51					54	61
		T	51	46	33	37					20	15