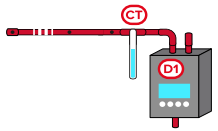
Table B1_CT

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

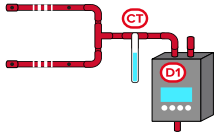
D1	detector 1 module
CT	trap for condensation

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)

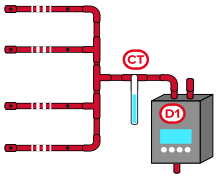
1 branch



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: 5.5 Ø 2: 10	Ø 1: 4.5 Ø 2: 5 Ø 3: 7	Ø 1: 4 Ø 2: 4.5 Ø 3: 5 Ø 4: 7	Ø 1: 3 Ø 2..4: 3.5 Ø 5: 4.5	Ø 1..2: 3.5 Ø 3: 4 Ø 4: 4.5 Ø 5: 5 Ø 6: 6.5	Ø 1: 3 Ø 2..3: 3.5 Ø 4..5: 4 Ø 6: 4.5 Ø 7: 5.5	Ø 1: 2.5 Ø 2..5: 3 Ø 6..7: 3.5 Ø 8: 4	Ø 1: 2.5 Ø 2..4: 3 Ø 5..7: 3.5 Ø 8: 4 Ø 9: 4.5									
		S	6000	2456	1684	1275	1010	856	725	617	563									
		V	3000	3000	3750	3750	4250	4250	4500	4750	4500									
		F	23.6	31.0	36.9	41.0	40.4	54.2	52.9	56.0	52.8									
		B	100	75	72	69	65	70	69	66	70									
		T	57	60	60	61	68	55	61	60	68									
1	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 5 Ø 2: 6.5	Ø 1: 4.5 Ø 2: 5.5 Ø 3: 7	Ø 1..2: 4 Ø 3: 4.5 Ø 4: 5	Ø 1: 3.5 Ø 2..4: 4 Ø 5: 5	Ø 1..3: 3 Ø 4..5: 3.5 Ø 6: 4	Ø 1: 3 Ø 2..5: 3.5 Ø 6: 4 Ø 7: 4.5	Ø 1: 2.5 Ø 2..7: 3 Ø 8: 3.5	Ø 1..2: 2.5 Ø 3..8: 3 Ø 9: 3.5	Ø 1: 2.5 Ø 2..4: 3 Ø 5..9: 3.5 Ø 10: 4	Ø 1..3: 2.5 Ø 4..10: 3 Ø 11: 3.5	Ø 1..4: 2.5 Ø 5..11: 3 Ø 12: 3.5	Ø 1..2: 2.5 Ø 3..5: 3 Ø 6..8: 3.5 Ø 9..10: 4 Ø 11..12: 4.5 Ø 13: 5	Ø 1: 2 Ø 2..9: 2.5 Ø 10..14: 3	Ø 1..14: 2 Ø 15: 2.5	Ø 1..15: 2 Ø 16: 2.5	Ø 1..17: 2	
		S	6000	2491	1600	1297	994	819	717	607	542	480	449	410	379	327	353	329	320	
		V	2000	2250	2250	2500	2500	2750	2750	3000	3000	3000	3250	3250	3250	3250	3750	3750	4250	
		F	17.1	21.8	27.8	30.3	30.6	32.1	36.8	36.2	37.1	42.2	45.9	45.1	50.8	45.3	42.5	45.4	51.3	
		B	100	79	75	80	69	66	68	73	70	77	73	71	75	68	64	64	75	
		T	47	52	48	53	56	54	52	57	57	54	50	53	49	56	57	55	60	
1	15 ÷ 30	Ø	Ø 1: 5	Ø 1: 3.5 Ø 2: 4.5	Ø 1..2: 3.5 Ø 3: 4	Ø 1..3: 3.5 Ø 4: 4	Ø 1..2: 3 Ø 3..4: 3.5 Ø 5: 4	Ø 1..5: 3 Ø 6: 3.5	Ø 1..6: 3 Ø 7: 3.5	Ø 1: 2.5 Ø 2..7: 3 Ø 8: 3.5	Ø 1: 2.5 Ø 2..8: 3 Ø 9: 3.5	Ø 1..2: 2.5 Ø 3..9: 3 Ø 10: 3.5	Ø 1..3: 2.5 Ø 4..10: 3 Ø 11: 3.5	Ø 1..5: 3 Ø 6..9: 3.5 Ø 10..12: 4	Ø 1..12: 2.5 Ø 13: 3	Ø 1..5: 2.5 Ø 6..13: 3 Ø 14: 3.5	Ø 1..9: 2.5 Ø 10..15: 3	Ø 1..9: 2.5 Ø 10..16: 3	Ø 1..8: 2.5 Ø 9..17: 3	Ø 1..18: 2
		S	6000	2342	1805	1340	965	880	746	585	529	481	440	412	398	352	323	305	292	307
		V	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1750	1500	1500	1500	1750	2000
		F	7.2	9.6	11.9	14.9	16.1	16.2	18.2	19.3	21.0	22.0	22.9	28.4	26.3	25.9	25.5	26.6	33.0	27.7
		B	100	66	80	80	66	75	75	69	72	71	70	75	70	72	70	69	73	81
		T	56	56	58	54	50	57	55	53	52	50	49	44	47	48	53	53	44	55
2	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 5 Ø 2: 7	Ø 1: 4 Ø 2: 4.5 Ø 3: 5.5	Ø 1..2: 4 Ø 3: 4.5 Ø 4: 5	Ø 1..3: 3.5 Ø 4: 4 Ø 5: 4.5	Ø 1..3: 3 Ø 4..5: 3.5 Ø 6: 4	Ø 1: 3 Ø 2..5: 3.5 Ø 6: 4 Ø 7: 4.5	Ø 1..4: 3 Ø 5..7: 3.5 Ø 8: 4	Ø 1..8: 2.5 Ø 9: 3									
		S	3000	1178	825	649	503	410	357	309	294									
		V	2000	2250	2500	2750	2750	3000	3000	3250	3750									
		F	31.5	41.2	48.0	60.2	59.3	63.5	70.6	74.8	74.2									
		B	100	74	74	81	70	66	69	70	70									
		T	51	54	55	53	57	55	54	54	57									
2	15 ÷ 30	Ø	Ø 1: 5	Ø 1: 3.5 Ø 2: 4.5	Ø 1..2: 3.5 Ø 3: 4.5	Ø 1: 3 Ø 2..3: 3.5 Ø 4: 4	Ø 1..2: 3 Ø 3..4: 3.5 Ø 5: 4	Ø 1..5: 3 Ø 6: 3.5	Ø 1..6: 2.5 Ø 7: 3	Ø 1..7: 2.5 Ø 8: 3	Ø 1..8: 2.5 Ø 9: 3									
		S	3000	1172	822	590	485	443	385	333	294									
		V	1500	1500	1500	1500	1500	1750	2000	1750	1750									
		F	14.2	18.6	24.1	26.2	29.4	35.3	35.6	33.7	36.4									
		B	100	66	65	68	67	75	70	70	70									
		T	57	58	54	57	55	52	53	59	58									
4	20 ÷ 40	Ø	Ø 1: 6	Ø 1: 3.5 Ø 2: 4.5	Ø 1..2: 3 Ø 3: 3.5	Ø 1..3: 2.5 Ø 4: 3														
		S	1500	586	445	334														
		V	1750	2250	2750	3250														
		F	37.1	50.1	60.9	68.9														
		B	100	66	76	70														
		T	58	57	59	57														
4	5 ÷ 20	Ø	Ø 1: 4	Ø 1: 3 Ø 2: 3.5	Ø 1..2: 2.5 Ø 3: 3	Ø 1..3: 2 Ø 4: 2.5														
		S	1500	639	436	327														
		V	1500	1500	1750	2000														
		F	20.2	26.1	31.1	31.2														
		B	100	76	70	64														
		T	45	47	47	51														