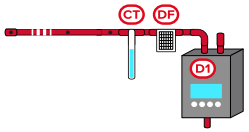
Table B1_DF_CT

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

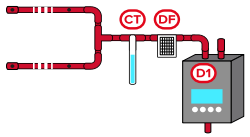
D1	detector 1 module
DF	filter for dust
CT	trap for condensation

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)

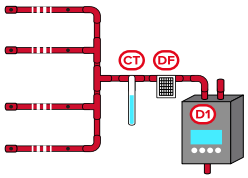
1 branch



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: 5 Ø 2: 7.5	Ø 1: 4.5 Ø 2: 5.5 Ø 3: 8	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: 3 Ø 2..3: 3.5 Ø 4..5: 4 Ø 6: 5	Ø 1: 3 Ø 2..3: 3.5 Ø 4..5: 4 Ø 6: 4.5 Ø 7: 5.5	Ø 1: 3 Ø 2..3: 3.5 Ø 4: 4 Ø 5: 4.5 Ø 6: 5.5 Ø 7: 7 Ø 8: 10	Ø 1..2: 2.5 Ø 3..6: 3 Ø 7..8: 3.5 Ø 9: 4									
		S	6000	2436	1644	1264	1012	850	725	693	552									
		V	3000	3250	3750	4000	4500	4500	4750	4750	4750									
		F	22.8	30.0	36.4	43.7	41.7	50.1	53.4	62.8	50.9									
		B	100	72	76	68	64	69	69	82	66									
		T	59	61	61	59	66	59	61	55	69									
1	30 ÷ 60	Ø	Ø 1: 10	Ø 1: 5 Ø 2: 6.5	Ø 1: 5 Ø 2: 6.5 Ø 3: 10	Ø 1..2: 4 Ø 3: 4.5 Ø 4: 5.5	Ø 1..4: 3.5 Ø 5: 4.5	Ø 1..2: 3.5 Ø 3..5: 4 Ø 6: 5	Ø 1..3: 3 Ø 4..6: 3.5 Ø 7: 4	Ø 1..4: 3 Ø 5..7: 3.5 Ø 8: 4	Ø 1..2: 2.5 Ø 3..8: 3 Ø 9: 3.5	Ø 1..2: 2.5 Ø 3..8: 3 Ø 9..10: 3.5	Ø 1..10: 2.5 Ø 11: 3	Ø 1..11: 2.5 Ø 12: 3	Ø 1..5: 2.5 Ø 6..12: 3 Ø 13: 3.5	Ø 1: 2 Ø 2..8: 2.5 Ø 9..14: 3	Ø 1..14: 2 Ø 15: 2.5	Ø 1..15: 2 Ø 16: 2.5	Ø 1..17: 2	
		S	6000	2503	1615	1238	977	839	707	619	541	487	468	423	376	320	354	328	320	
		V	2000	2250	2250	2500	2750	2750	3000	3000	3250	3250	3500	3500	3500	3750	4000	3750	4750	
		F	16.4	20.9	28.8	29.2	30.8	34.2	35.5	37.5	38.4	40.3	41.4	42.4	48.9	49.4	43.5	42.2	54.7	
		B	100	80	82	70	64	69	71	70	69	76	70	69	71	69	64	64	75	
		T	49	54	48	52	54	53	54	54	55	55	56	57	50	52	56	59	56	
1	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: 3.5 Ø 4: 4	Ø 1..2: 3 Ø 3..4: 3.5 Ø 5: 4	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 4	Ø 1..3: 3 Ø 4..6: 3.5 Ø 7: 4	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: 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..4: 2.5 Ø 5..11: 3 Ø 12: 3.5	Ø 1..5: 2.5 Ø 6..12: 3 Ø 13: 3.5	Ø 1..6: 2.5 Ø 7..13: 3 Ø 14: 3.5	Ø 1..6: 2.5 Ø 7..14: 3 Ø 15: 3.5	Ø 1..7: 2.5 Ø 8..15: 3 Ø 16: 3.5	Ø 1..17: 2	Ø 1..18: 2
		S	6000	2343	1644	1338	967	820	708	589	531	486	444	409	378	350	327	306	328	305
		V	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1750	1750	2250	2000
		F	7.2	9.4	12.4	14.4	15.4	17.5	18.9	18.1	19.0	20.2	21.0	21.6	22.3	22.9	28.5	29.1	28.3	25.8
		B	100	66	65	80	66	71	70	70	69	73	72	71	71	70	70	70	83	79
		T	56	57	52	56	53	51	50	57	55	55	55	54	54	54	44	45	52	59
2	30 ÷ 60	Ø	Ø 1: 7.5	Ø 1: 5 Ø 2: 7	Ø 1..2: 4.5 Ø 3: 6	Ø 1: 3.5 Ø 2..3: 4 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: 3 Ø 4..6: 3.5 Ø 7: 4	Ø 1: 2.5 Ø 2..7: 3 Ø 8: 3.5	Ø 1..8: 2.5 Ø 9: 3									
		S	3000	1183	803	614	499	410	356	305	294									
		V	2250	2500	2750	3000	3250	3250	3500	3750	4000									
		F	29.1	41.2	49.4	53.9	61.2	59.7	67.0	70.9	70.8									
		B	100	74	68	70	70	67	72	71	70									
		T	56	54	55	55	55	59	57	58	60									
2	15 ÷ 30	Ø	Ø 1: 5	Ø 1: 4 Ø 2: 5	Ø 1..2: 3.5 Ø 3: 4.5	Ø 1: 4 Ø 2..3: 4.5 Ø 4: 5.5	Ø 1..2: 3 Ø 3..4: 3.5 Ø 5: 4	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6: 4	Ø 1..3: 3 Ø 4..6: 3.5 Ø 7: 4	Ø 1..2: 3 Ø 3..5: 3.5 Ø 6..7: 4 Ø 8: 4.5	Ø 1..8: 2.5 Ø 9: 3									
		S	3000	1229	822	650	484	412	356	306	294									
		V	1500	1500	1500	1500	1750	1750	1750	1750	2000									
		F	13.7	20.3	22.0	29.4	30.6	33.4	34.9	37.7	36.4									
		B	100	73	65	76	66	72	71	75	70									
		T	59	54	59	54	53	54	55	54	58									
4	20 ÷ 40	Ø	Ø 1: 6	Ø 1: 3.5 Ø 2: 4.5	Ø 1: 3.5 Ø 2: 4 Ø 3: 4.5	Ø 1: 3 Ø 2..3: 3.5 Ø 4: 4														
		S	1500	587	410	296														
		V	2000	2500	2750	3000														
		F	37.0	47.8	61.8	68.6														
		B	100	66	73	69														
		T	58	60	58	59														
4	5 ÷ 20	Ø	Ø 1: 4	Ø 1: 3.5 Ø 2: 4	Ø 1..2: 2.5 Ø 3: 3	Ø 1..3: 2.5 Ø 4: 3														
		S	1500	657	436	334														
		V	1500	1500	1750	1750														
		F	19.0	27.9	28.1	32.8														
		B	100	80	70	70														
		T	47	45	52	50														