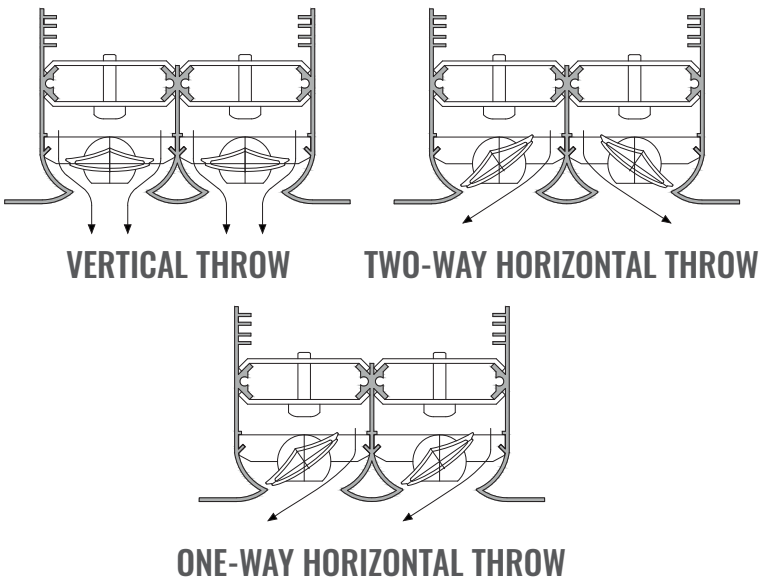




DFL-A

Slotted linear diffuser with adjustable aluminium deflectors with a high induction ratio (mixing capacity) between the injected and the ambient air. Constructed of coupled aluminium profiles to obtain multiple slots inside which adjustable aluminium deflectors are housed.
The flow of the air injected can be oriented clockwise, anticlockwise or alternating by changing the position of the deflectors.

TECHNICAL SPECIFICATION AND USAGE LIMIT				
INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	FASTENING TO PLENUM
2,5 to 4 m	The DFL diffuser can also be used for air return; in this case it is supplied without deflecting fins. The deflector can also be oriented after the diffuser has been installed in order to make adjustments to optimise airflow in the room once the system is running. The diffuser can be equipped with damper and equalizer.	Extruded anodized aluminium profiles and anodized aluminium deflector	Anodized aluminium, deflector in grey colour or aluminium. On request, frame coating in RAL 9010 or non-standard RAL colours.	by means of side screws or a central screw



GREEN BUILDING

Thanks also to the support of GreenMap, products manufactured by Tecnica srl contribute to obtain the credits of the major international rating systems for sustainable buildings:



LEED
Contributes to credits:
IP, EA, MR, EQ



WELL
Contributes to credits:
AIR, THERMAL COMFORT, MATERIALS, COMMUNITY



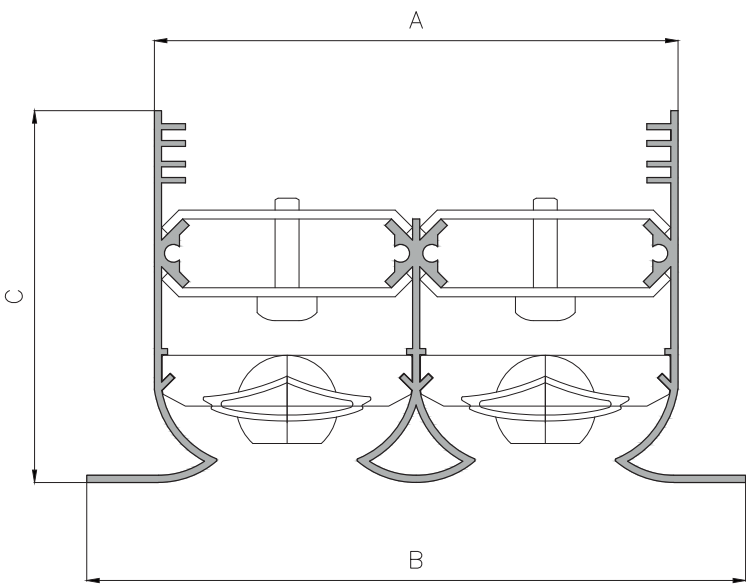
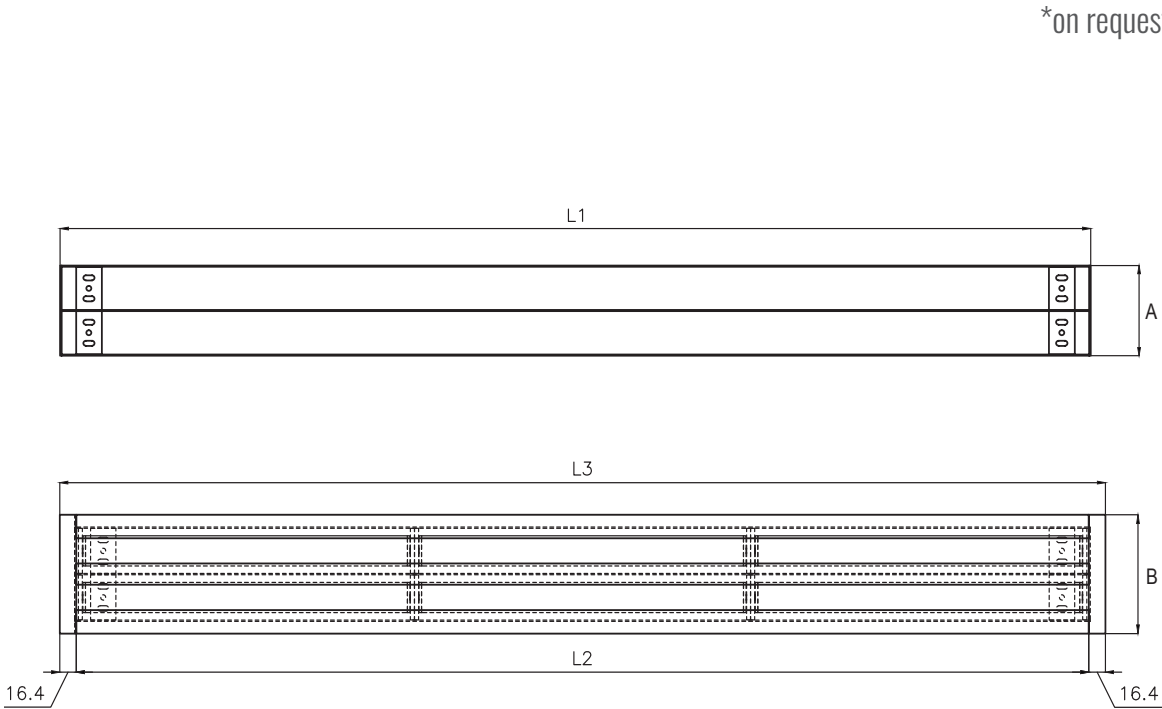
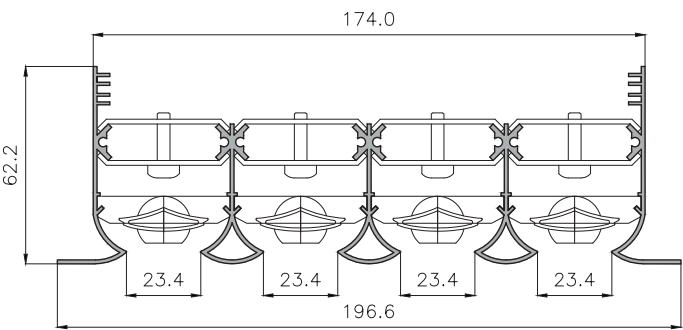
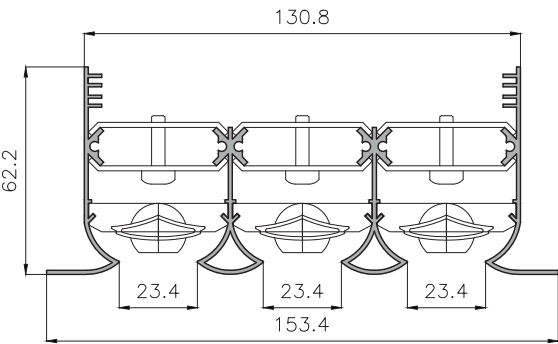
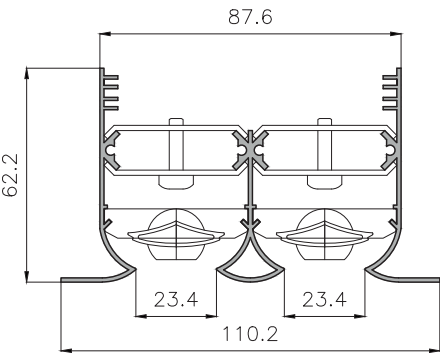
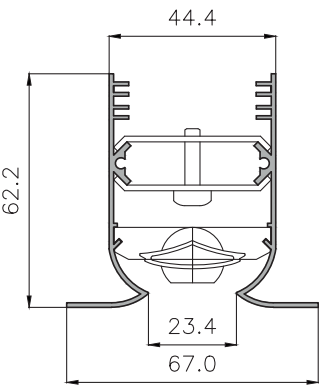
BREEAM
Contributes to credits:
MAN, HEA, WST

For further details about specific contributions to the credits indicated, contact Tecnica Srl

TECHNICAL DATA							
Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
800	1	800	797	829,8	44,4	67,0	62,2
	2	800	797	829,8	87,6	110,2	62,2
	3	800	797	829,8	130,8	153,4	62,2
	4	800	797	829,8	174,0	196,6	62,2
1000	1	1000	997	1029,8	44,4	67,0	62,2
	2	1000	997	1029,8	87,6	110,2	62,2
	3	1000	997	1029,8	130,8	153,4	62,2
	4	1000	997	1029,8	174,0	196,6	62,2

TECHNICAL DATA							
Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
1500	1	1500	1497	1529,8	44,4	67,0	62,2
	2	1500	1497	1529,8	87,6	110,2	62,2
	3	1500	1497	1529,8	130,8	153,4	62,2
	4	1500	1497	1529,8	174,0	196,6	62,2
2000	1	2000	1997	2029,8	44,4	67,0	62,2
	2	2000	1997	2029,8	87,6	110,2	62,2
	3	2000	1997	2029,8	130,8	153,4	62,2
	4	2000	1997	2029,8	174,0	196,6	62,2

APPLICATIONS								
								
Residential	Easy Pack	Calculation Method	REACH Certificat	RoHS Certificat	Industry	Building	Air Conditioning	Interior design



*on request

Selection Charts

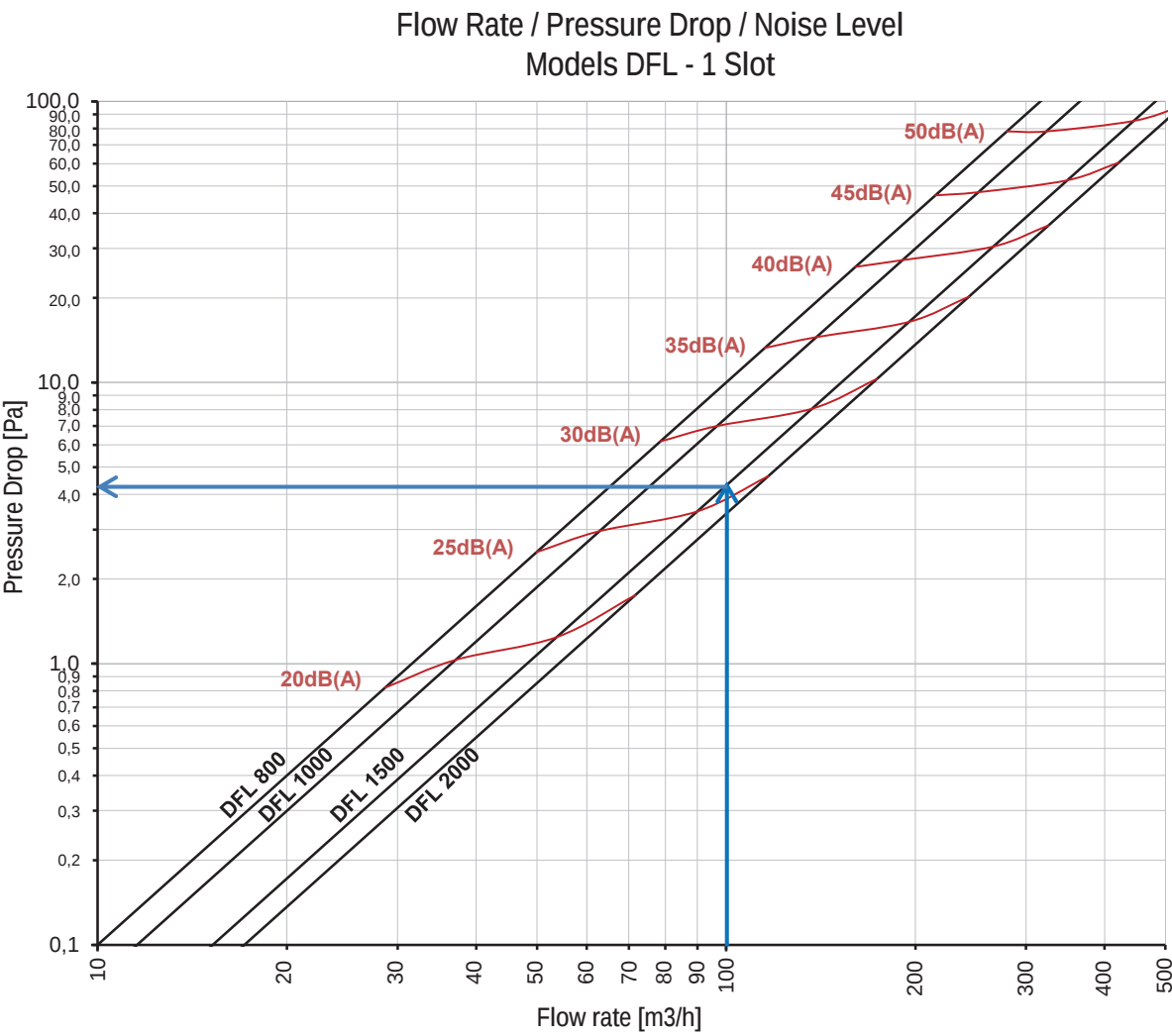
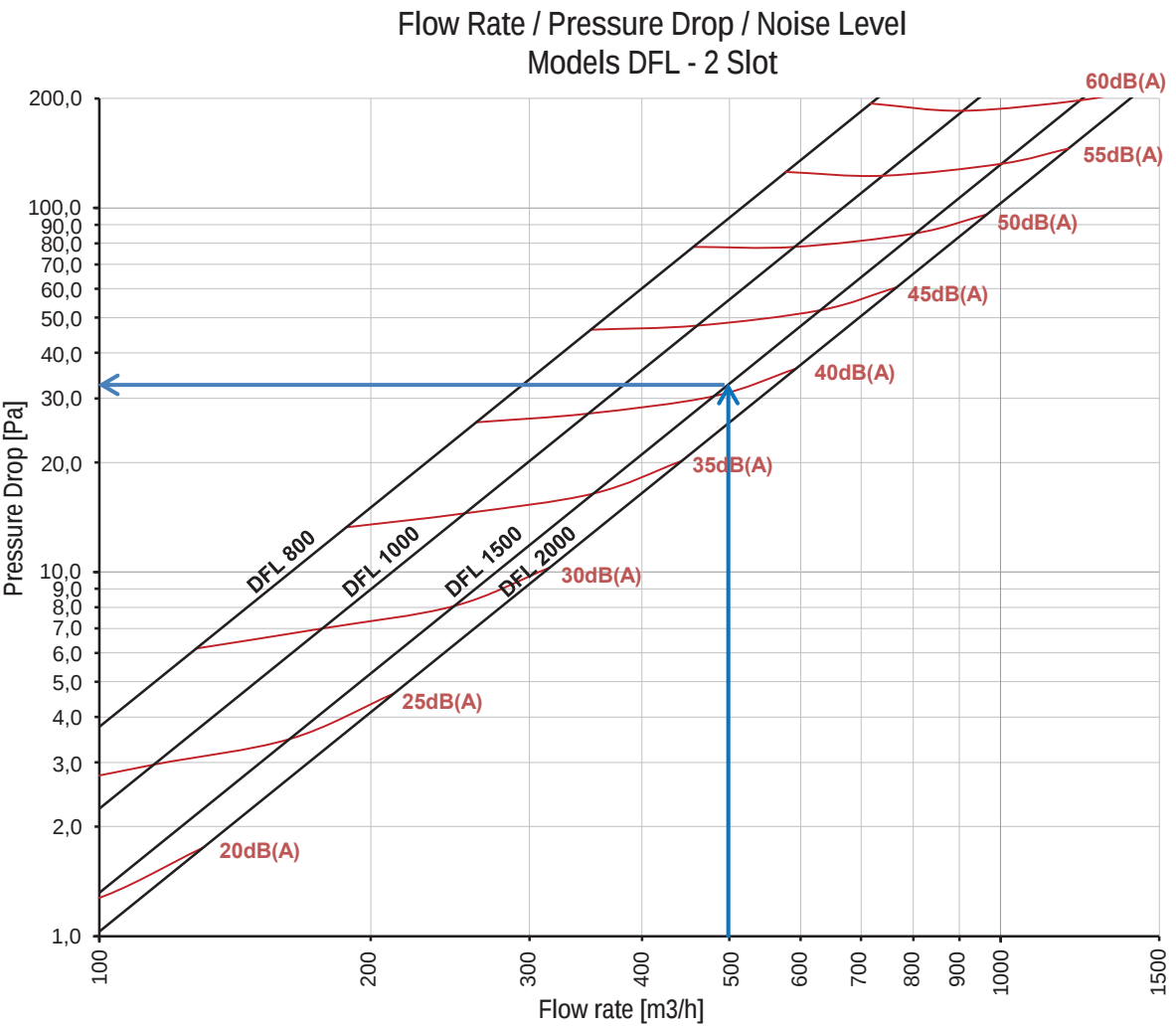


Diagram 1 - 1 slot

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the sound power level without environmental attenuation.

CALCULATION (input data)	
Total Flow Rate	100 m³/h
Max Noise Level	<30dB(A).
Horizontal Throw	4,0m.
Vertical Throw	2,8m



SELECTION	
Model	DFL 1500 1 SLOT
Flow Rate	107 m³/h
Pressure Drop	5Pa
Noise Level	27dB(A)
Inlet Air Speed	2m/s
Horizontal Isothermal Throw	4,0m
Vertical Isothermal Throw	2,8m

Diagram 2 - 2 slots

Note: Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.

Diagram 3 - 3 slots

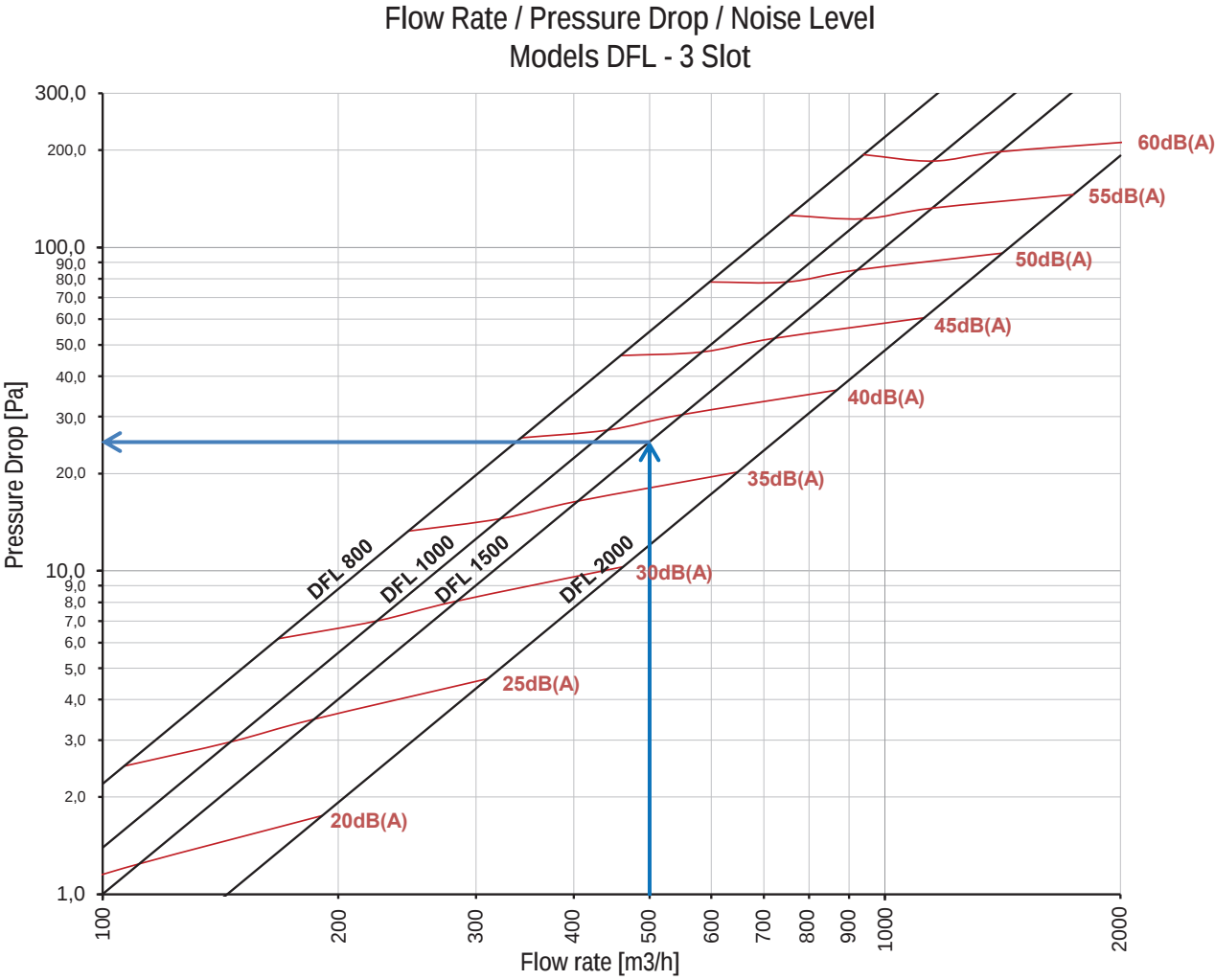
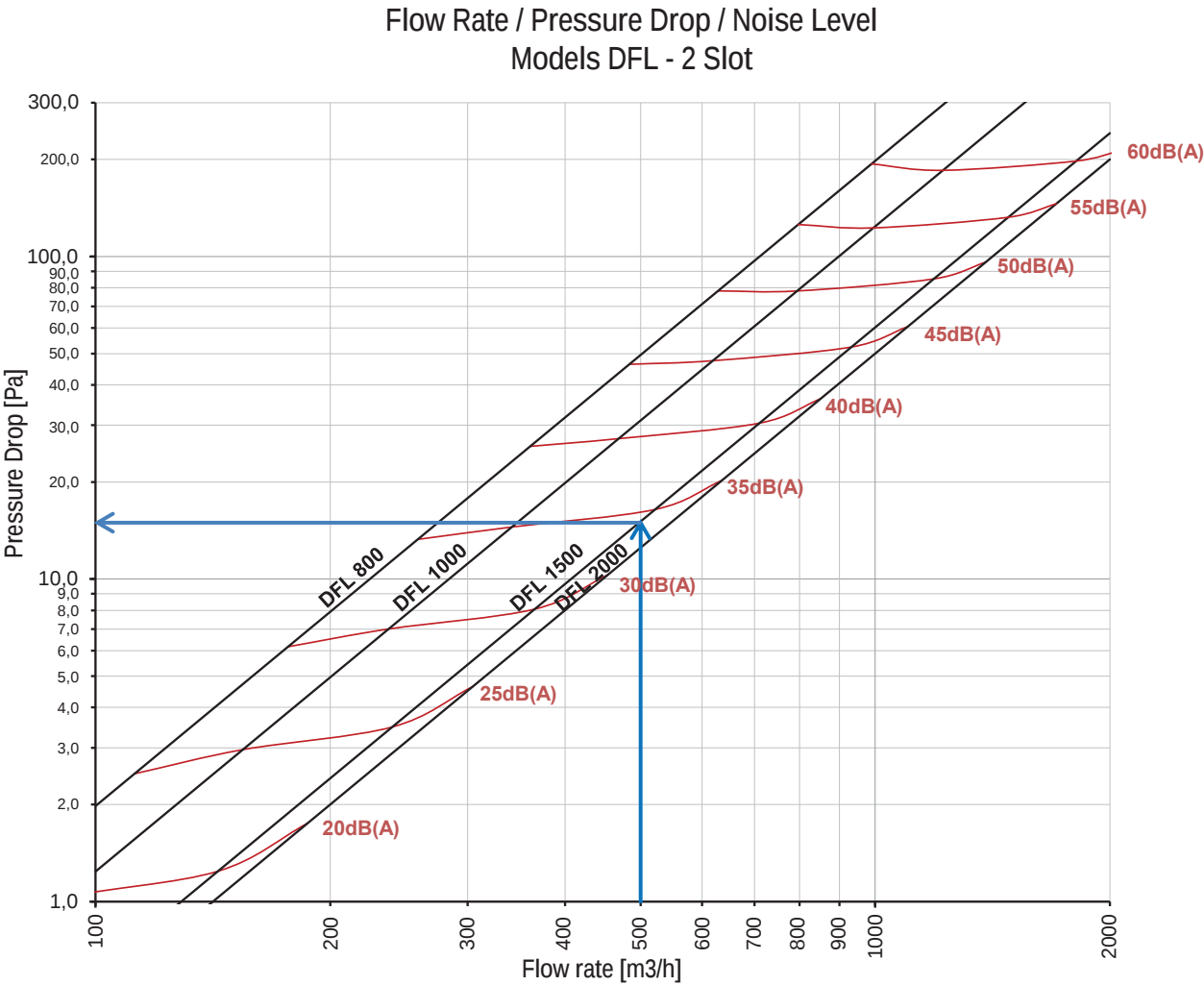


Diagram 4 - 4 slots



QUICK SELECTION TABLE - L. 800mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
DFL 800 1 SLOT Ak: 0,0080m2	Flow Rate	m3/h	29	57	86	115	143	172	201	229	258	287
	Pressure Drop	Pa	1	3	7	13	21	30	40	53	67	82
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,6
	Vertical Throw Vt 0,25	mt	0,7	1,5	2,2	3,0	3,7	4,4	5,2	5,9	6,6	7,4
	Noise Level	dB(A)	20	26	31	35	38	41	44	46	48	50
DFL 800 2 SLOT Ak: 0,0159m2	Flow Rate	m3/h	57	115	172	229	287	344	401	458	516	573
	Pressure Drop	Pa	1	5	11	20	31	44	61	79	100	124
	Horizontal Throw Vt 0,25	mt	1,5	3,0	4,5	6,0	7,5	9,0	10,5	12,0	13,5	15,0
	Vertical Throw Vt 0,25	mt	1,0	2,1	3,1	4,2	5,2	6,3	7,3	8,4	9,4	10,5
	Noise Level	dB(A)	22	29	34	38	41	45	47	50	53	55
DFL 800 3 SLOT Ak: 0,0239m2	Flow Rate	m3/h	86	172	258	344	430	516	602	688	774	860
	Pressure Drop	Pa	2	6	15	26	41	58	80	104	131	162
	Horizontal Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,9	10,6	12,4	14,2	15,9	17,7
	Vertical Throw Vt 0,25	mt	1,2	2,5	3,7	5,0	6,2	7,4	8,7	9,9	11,2	12,4
	Noise Level	dB(A)	23	30	36	40	44	47	50	53	56	58
DFL 800 4 SLOT Ak: 0,0318m2	Flow Rate	m3/h	115	229	344	458	573	688	802	917	1032	1146
	Pressure Drop	Pa	3	10	23	42	65	94	127	166	211	260
	Horizontal Throw Vt 0,25	mt	2,0	4,0	6,1	8,1	10,1	12,1	14,1	16,2	18,2	20,2
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,7	7,1	8,5	9,9	11,3	12,7	14,1
	Noise Level	dB(A)	25	33	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions

QUICK SELECTION TABLE - L. 1000mm - ISOTHERMAL CONDITIONS

MODELLO	DESCRIZIONE	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
DFL 1000 1 SLOT Ak: 0,0099m2	Flow Rate	m3/h	36	72	107	143	179	215	251	287	322	358
	Pressure Drop	Pa	1	4	9	15	24	35	47	61	78	96
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Vertical Throw Vt 0,25	mt	0,9	1,8	2,8	3,7	4,6	5,5	6,5	7,4	8,3	9,2
	Noise Level	dB(A)	20	26	31	35	39	42	45	48	50	52
DFL 1000 2 SLOT Ak: 0,0199m2	Flow Rate	m3/h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	1	5	10	18	29	41	56	74	93	115
	Horizontal Throw Vt 0,25	mt	1,9	3,8	5,6	7,5	9,4	11,3	13,2	15,1	16,9	18,8
	Vertical Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Noise Level	dB(A)	20	27	33	37	40	44	47	49	52	54
DFL 1000 3 SLOT Ak: 0,0298m2	Flow Rate	m3/h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	26	40	58	79	103	130	161
	Horizontal Throw Vt 0,25	mt	2,2	4,4	6,7	8,9	11,1	13,3	15,6	17,8	20,0	22,2
	Vertical Throw Vt 0,25	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,6
	Noise Level	dB(A)	22	29	35	40	43	47	50	53	56	58
DFL 1000 4 SLOT Ak: 0,0398m2	Flow Rate	m3/h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	3	10	23	41	64	92	125	163	206	255
	Horizontal Throw Vt 0,25	mt	2,5	5,0	7,6	10,1	12,6	15,1	17,6	20,2	22,7	25,2
	Vertical Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,8	10,6	12,4	14,1	15,9	17,6
	Noise Level	dB(A)	24	32	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions

QUICK SELECTION TABLE - L. 1500mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
DFL 1500 1 SLOT Ak: 0,0149m2	Flow Rate	m3/h	54	107	161	215	269	322	376	430	484	537
	Pressure Drop	Pa	1	5	11	20	31	45	61	79	101	124
	Horizontal Throw Vt 0,25	mt	2,0	4,0	5,9	7,9	9,9	11,9	13,9	15,9	17,8	19,8
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9
	Noise Level	dB(A)	20	27	32	36	40	43	46	49	52	54
DFL 1500 2 SLOT Ak: 0,0298m2	Flow Rate	m3/h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	24	38	55	74	97	123	152
	Horizontal Throw Vt 0,25	mt	2,9	5,7	8,6	11,5	14,4	17,2	20,1	23,0	25,9	28,7
	Vertical Throw Vt 0,25	mt	2,0	4,0	6,0	8,0	10,1	12,1	14,1	16,1	18,1	20,1
	Noise Level	dB(A)	21	28	34	38	42	45	49	51	54	57
DFL 1500 3 SLOT Ak: 0,0448m2	Flow Rate	m3/h	161	322	484	645	806	967	1128	1290	1451	1612
	Pressure Drop	Pa	3	10	23	42	65	94	128	167	211	260
	Horizontal Throw Vt 0,25	mt	3,4	6,7	10,1	13,5	16,8	20,2	23,6	26,9	30,3	33,7
	Vertical Throw Vt 0,25	mt	2,4	4,7	7,1	9,4	11,8	14,1	16,5	18,8	21,2	23,6
	Noise Level	dB(A)	23	32	38	43	47	51	55	58	61	64
DFL 1500 4 SLOT Ak: 0,0597m2	Flow Rate	m3/h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	3	11	25	45	70	100	136	178	226	278
	Horizontal Throw Vt 0,25	mt	3,8	7,6	11,4	15,2	19,0	22,8	26,6	30,4	34,1	37,9
	Vertical Throw Vt 0,25	mt	2,7	5,3	8,0	10,6	13,3	15,9	18,6	21,2	23,9	26,6
	Noise Level	dB(A)	24	32	38	43	48	52	55	59	62	65

Note: the data indicated refer to operation in isothermal conditions

QUICK SELECTION TABLE - L. 2000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
DFL 2000 1 SLOT Ak: 0,0199m2	Flow Rate	m3/h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	2	7	16	28	44	63	86	112	142	175
	Horizontal Throw Vt 0,25	mt	2,6	5,3	7,9	10,6	13,2	15,9	18,5	21,2	23,8	26,5
	Vertical Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,5
	Noise Level	dB(A)	20	27	33	38	42	45	49	52	55	57
DFL 2000 2 SLOT Ak: 0,0398m2	Flow Rate	m3/h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	2	8	19	34	53	76	104	135	171	211
	Horizontal Throw Vt 0,25	mt	3,9	7,8	11,6	15,5	19,4	23,3	27,1	31,0	34,9	38,8
	Vertical Throw Vt 0,25	mt	2,7	5,4	8,1	10,9	13,6	16,3	19,0	21,7	24,4	27,1
	Noise Level	dB(A)	21	29	35	39	44	47	51	54	57	60
DFL 2000 3 SLOT Ak: 0,0597m2	Flow Rate	m3/h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	2	9	20	36	56	80	109	142	180	222
	Horizontal Throw Vt 0,25	mt	4,5	9,0	13,5	18,1	22,6	27,1	31,6	36,1	40,6	45,1
	Vertical Throw Vt 0,25	mt	3,2	6,3	9,5	12,6	15,8	19,0	22,1	25,3	28,4	31,6
	Noise Level	dB(A)	21	29	35	40	44	48	51	55	58	61
DFL 2000 4 SLOT Ak: 0,0796m2	Flow Rate	m3/h	287	573	860	1146	1433	1719	2006	2292	2579	2866
	Pressure Drop	Pa	4	16	37	66	103	148	201	263	333	411
	Horizontal Throw Vt 0,25	mt	5,1	10,1	15,2	20,2	25,3	30,4	35,4	40,5	45,6	50,6
	Vertical Throw Vt 0,25	mt	3,5	7,1	10,6	14,2	17,7	21,3	24,8	28,3	31,9	35,4
	Noise Level	dB(A)	24	33	40	46	51	55	59	63	66	70

Note: the data indicated refer to operation in isothermal conditions