



AEROGRAMMI S.A.
DESIGN AND MANUFACTURE OF GRILLES AND SPECIAL AIR CONDITINING COMPONENTS



SLOT DIFFUSER

SLT





SLT

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SLT



SLT-N



SLT-C-P

OVERVIEW

The linear slot diffuser type SLT is used for air supply or return in ventilation and air conditioning systems for cooling or heating. It is installed mainly in ceilings but it may be installed at walls. Its appearance makes it ideal for architectural applications.

It consists of one or two slots in various widths. Inside each slot there is a main blade which adjusts the direction of the supply air to the right, vertical or left. At each side of the opening of each slot there are two additional plastic blades which make the final adjustment of the direction of the air.

MATERIALS

The slot diffuser is made of anodized aluminum and upon request it may be electrostatically coated in any RAL color. The main blade is made of aluminum in the color of the grille. The additional blades are plastic black or white.

At the rear of the diffuser it is possible to add a black equalizing grid.

The longest single piece is 2,5m so if the length is greater than 2,5m it will be produced in more single pieces. The middle sections will not have end caps so that the end product looks like one single item.

INSTALLATION

The installation of the diffuser is done by screw mounting (visible) or concealed using “Π” shaped frames that have to be installed in the plenum box. The diffuser neck is then attached to the “Π” shaped frames with screws. SLT-N and SLT-C-P have standard secret fixing.

For the correct operation of the diffuser the “entries” to the plenum box should be at least one for each diffuser meter.



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TYPES AND DIMENSIONS

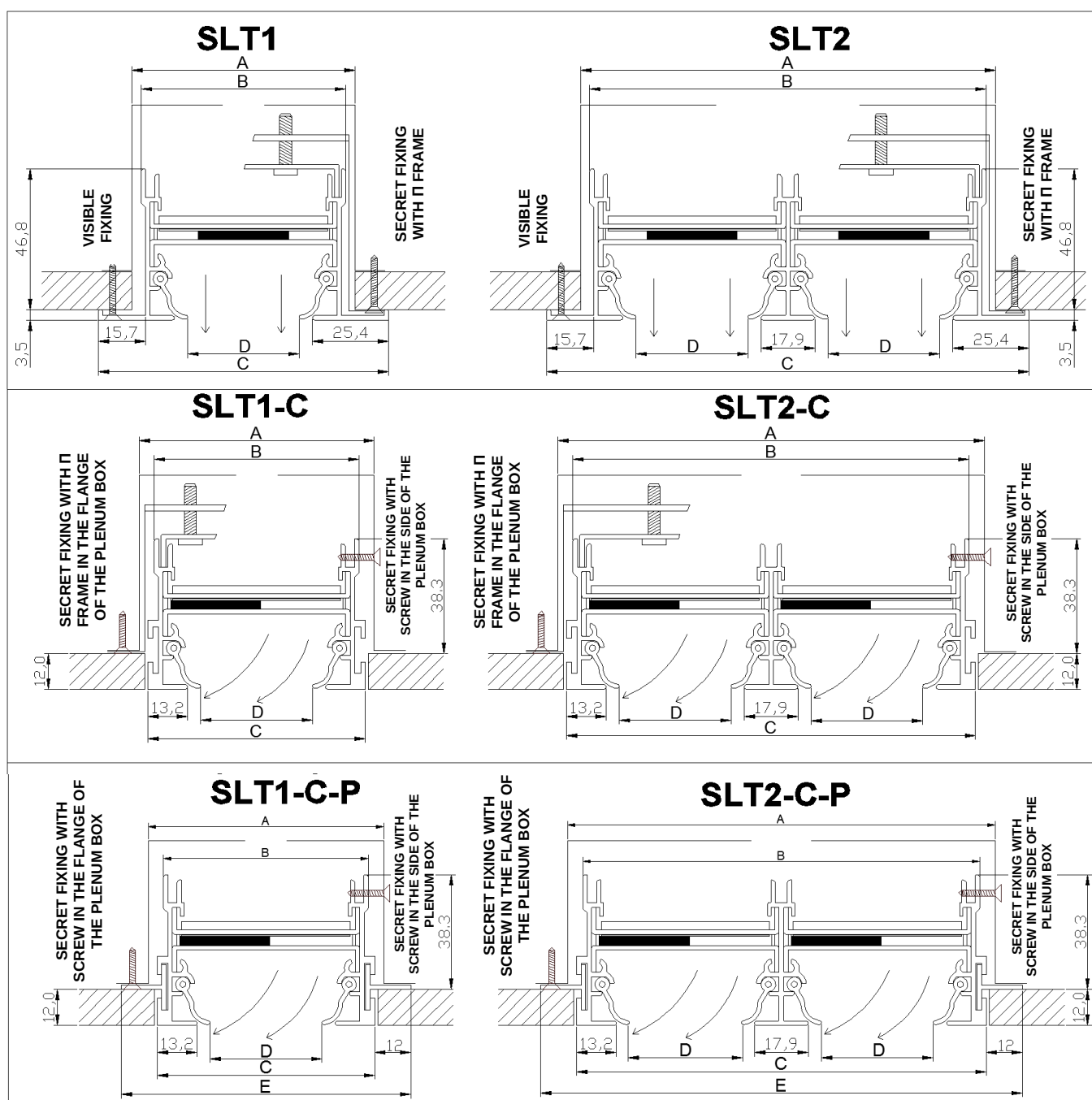
The main dimensions of the slot diffusers SLT (in relation to the size and the No of slots) are shown in the following drawings and tables.

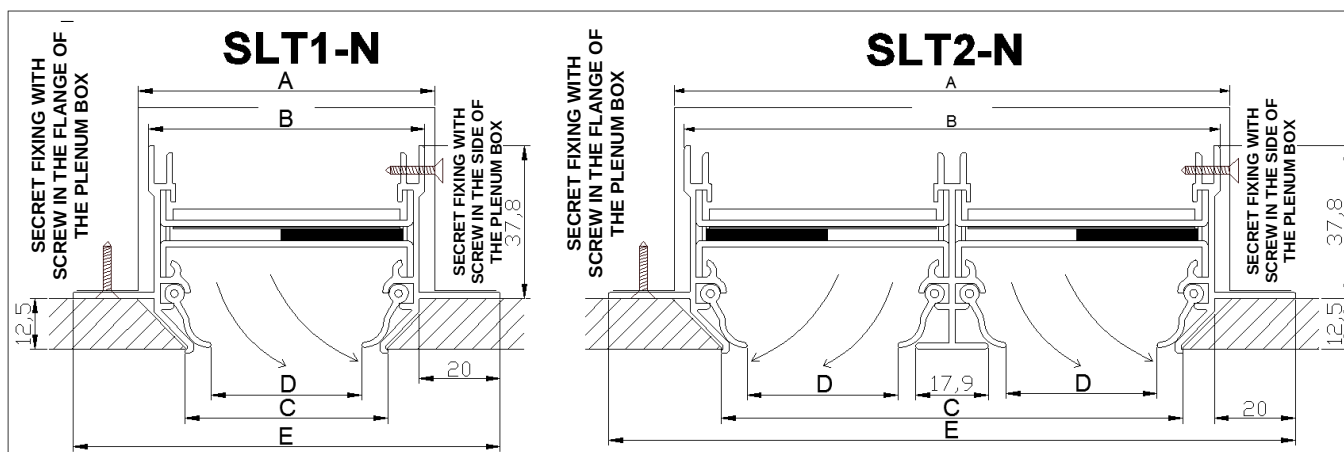
SLT slot diffuser is manufactured also with narrow or without external flange. Three types are manufactured:

SLT-C-P: With narrow external flange, for installation in gypsum board with thickness 12 mm.

SLT-C: With narrow external flange, for installation in gypsum board with thickness different of 12 mm. Always with secret fixing with "Π" frame.

SLT-N: Without external flange, for "invisible" installation in gypsum board with thickness 12 mm cutted in 45° corner.





SLT / SLT-X

SIZE	1 - SLOT				2 - SLOTS			
	A	B	C	D	A	B	C	D
25	61	55	84	25	112	106	135	25
38	74	68	97	38	138	132	161	38
50	86	80	109	50	162	156	185	50
63	99	93	122	63	188	182	211	63
76	112	106	135	76	214	208	237	76

SLT-C / SLT-C-P / SLT-C-X / SLT-C-P-X

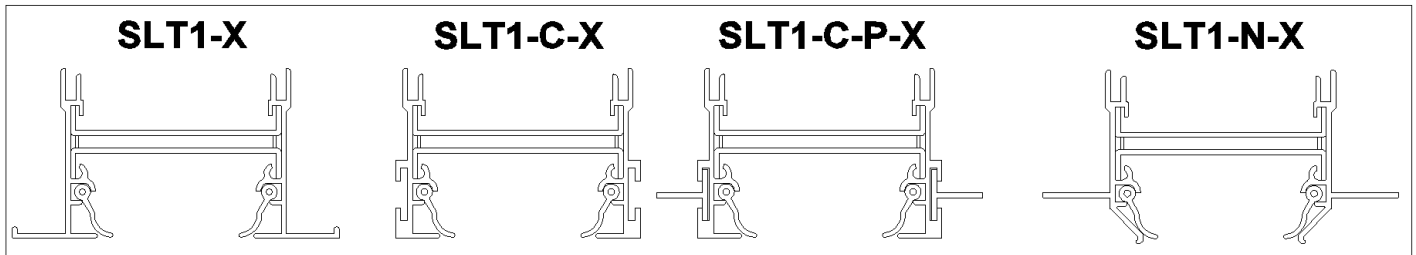
SIZE	1 - SLOT					2 - SLOTS				
	A	B	C	D	E	A	B	C	D	E
25	65	55	59	25	83	116	106	110	25	134
38	78	68	72	38	96	142	132	136	38	160
50	90	80	84	50	108	166	156	160	50	184
63	103	93	97	63	121	192	182	186	63	210
76	116	106	110	76	134	218	208	212	76	236

SLT-N / SLT-N-X

SIZE	1 - SLOT					2 - SLOTS				
	A	B	C	D	E	A	B	C	D	E
25	60	55	37	25	92	111	106	88	25	143
38	73	68	50	38	105	137	132	114	38	169
50	85	80	62	50	117	161	156	138	50	193
63	98	93	75	63	130	187	182	164	63	219
76	111	106	88	76	143	213	208	190	76	245

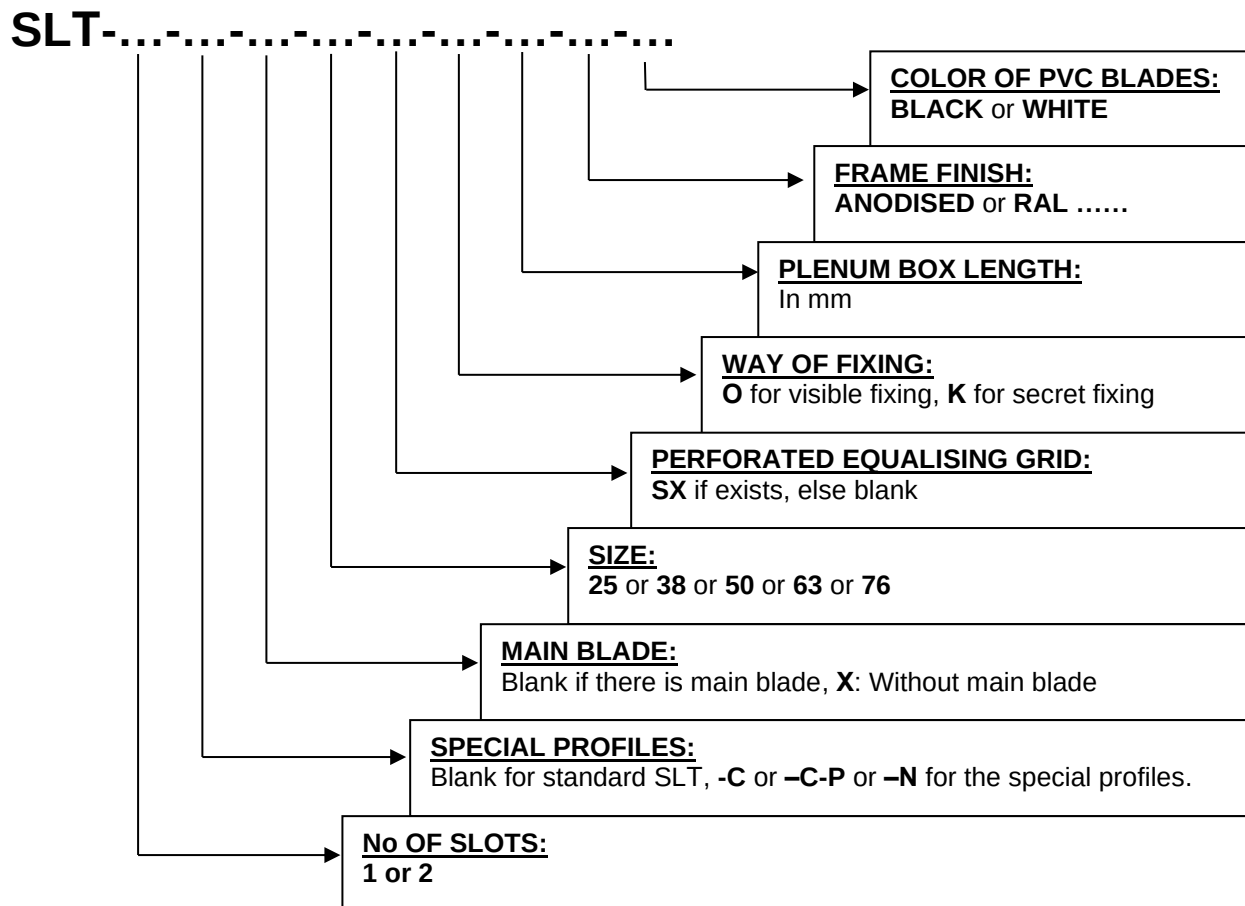


The types SLT-...-X are for diffusers without main blade.



WAY OF ORDER

For the order of the SLT slot diffusers we use the following combination of letters and numbers:



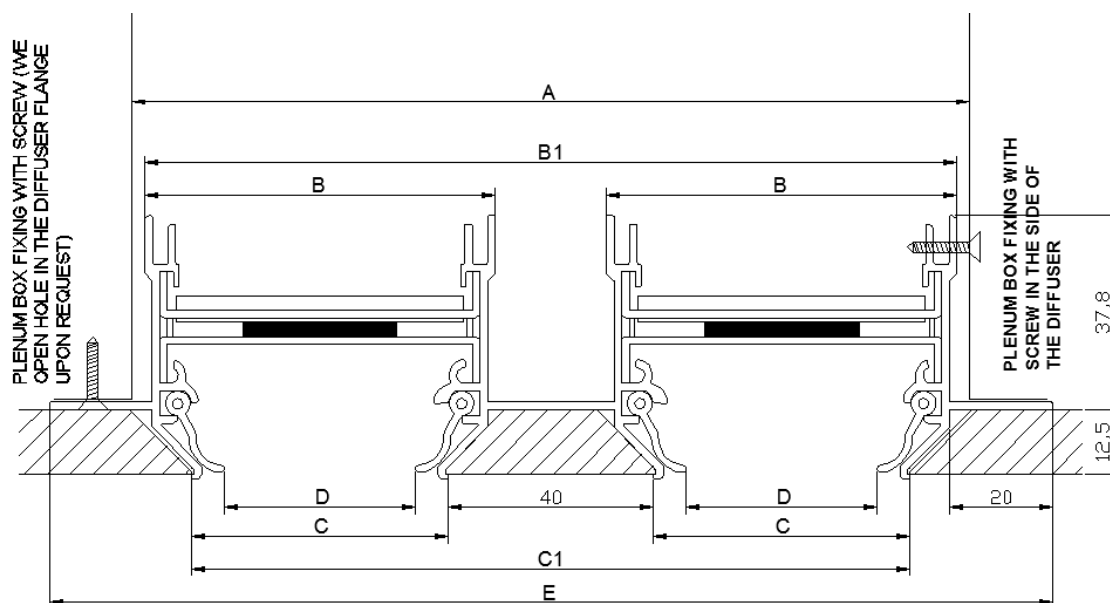
EXAMPLES:

SLT-38-1 -1500-K-ANODISED-RAL 9005
SLT-N-50-2-5350-SX-RAL 7035-RAL 9005
SLT-C-P-X-76-1-4800- -RAL9010-RAL9010



SLT2-N-G

The SLT-2-N slot diffuser is possible to be manufactured in the –G version if we want better aesthetic result in our installation. In this case the slots are in some distance and between them gypsum board is installed (by the installer). So from the front face you can see two separate slots. In the back of the diffuser it is possible to install common plenum box for both slots. The operational characteristics are the same with SLT-2.



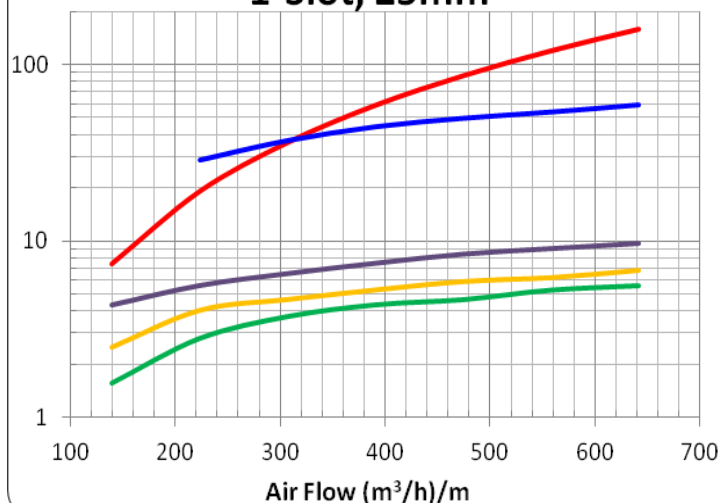
DIMENSIONS TABLE

SLT2-N-G	A	B	B1	C	C1	D	E
25	138	55	133	37	115	25	170
38	163	68	158	50	140	38	195
50	188	80	183	62	165	50	220
63	213	93	208	75	190	63	245
76	239	106	234	88	216	76	271

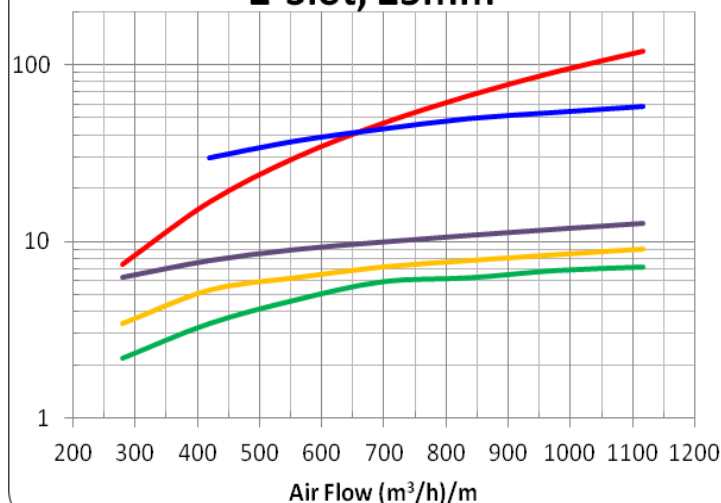


TECHNICAL DATA – ISOTHERMAL AIR THROW

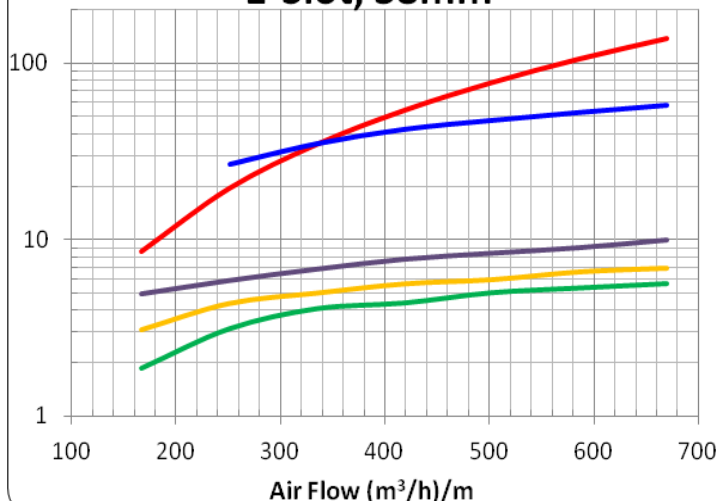
1-Slot, 25mm



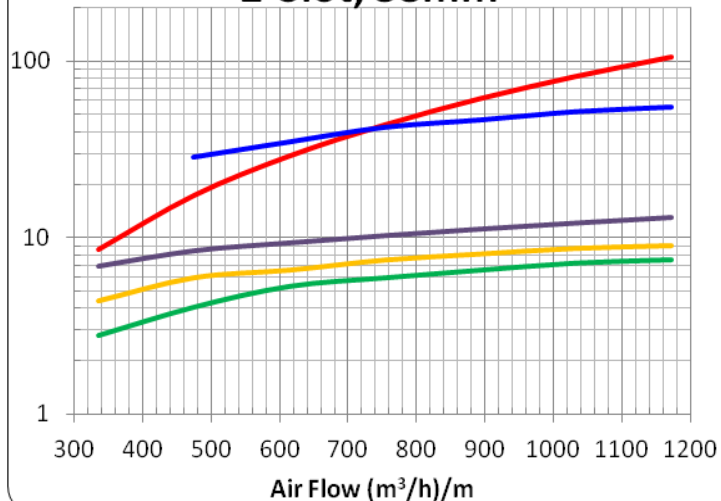
2-Slot, 25mm



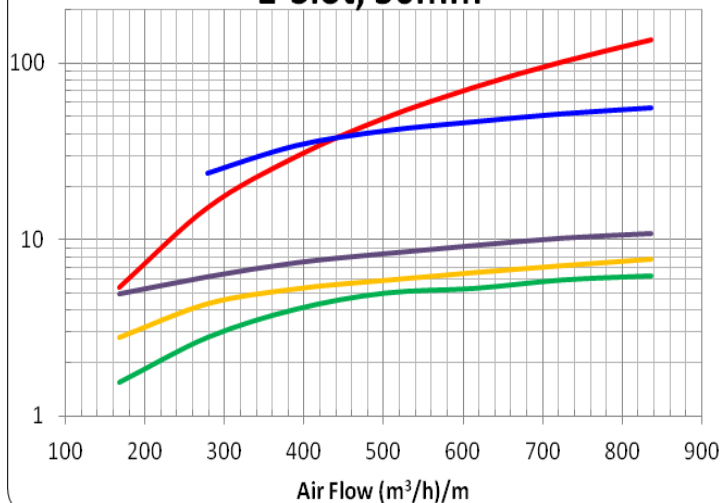
1-Slot, 38mm



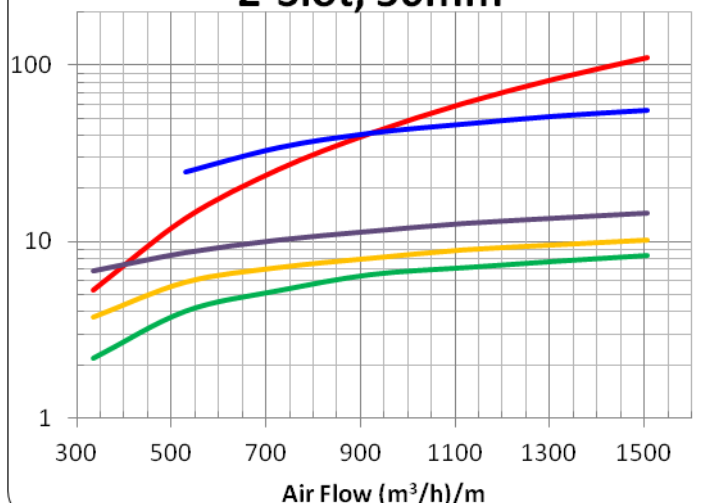
2-Slot, 38mm



1-Slot, 50mm



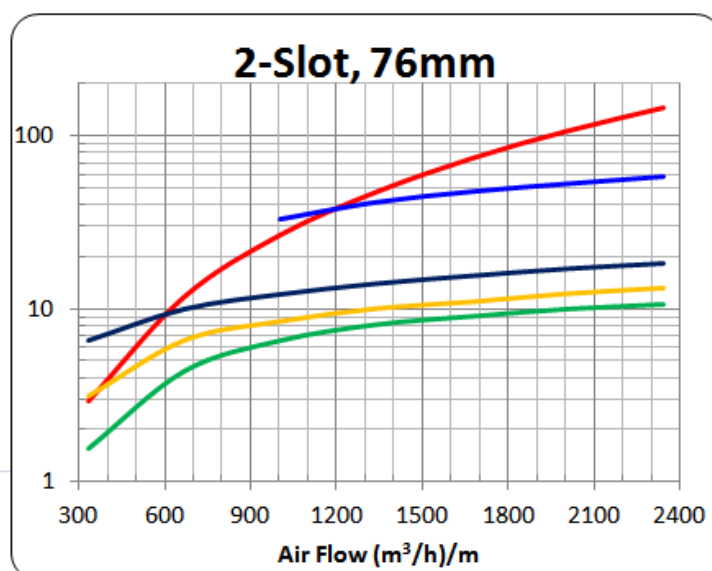
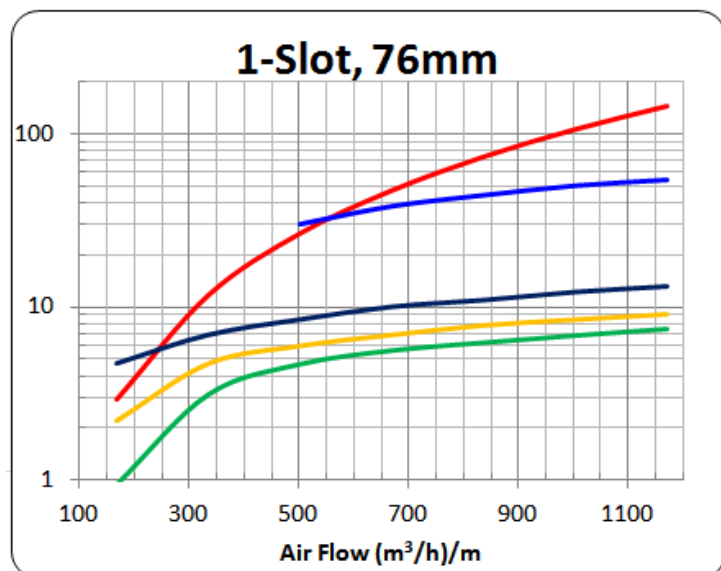
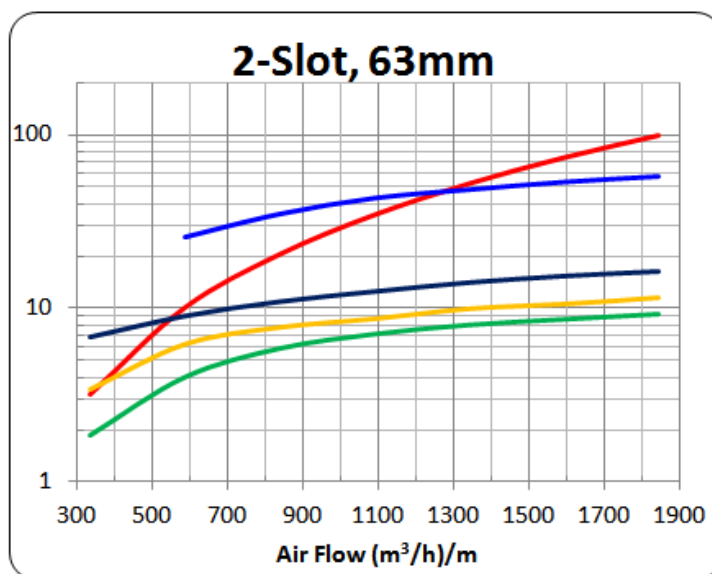
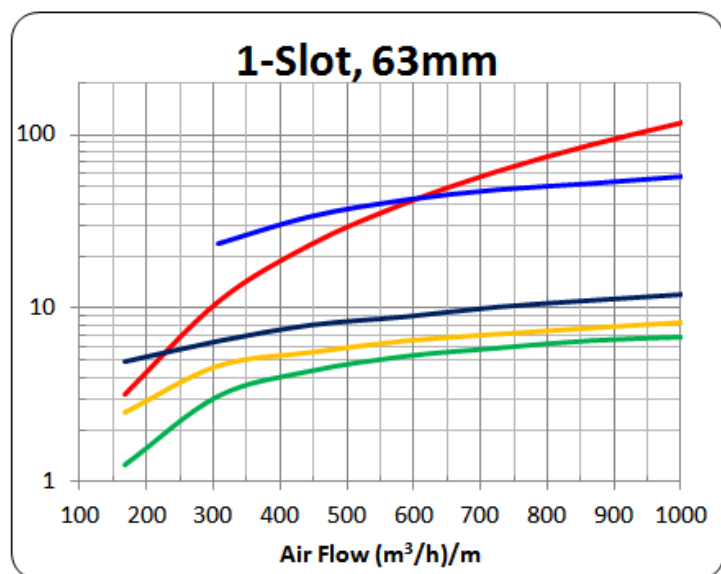
2-Slot, 50mm



 Static Pressure (Pa)	 Throw (m) @ 0,25m/sec	 Throw (m) @ 0,75m/sec
 Noise dB(A)	 Throw (m) @ 0,50m/sec	



TECHNICAL DATA – ISOTHERMAL AIR THROW



— Static Pressure (Pa)	— Noise dB(A)	— Throw (m) @ 0,25m/sec	— Throw (m) @ 0,75m/sec
		— Throw (m) @ 0,50m/sec	