Ceiling Diffuser

Type ADT

TROX® TECHNIK

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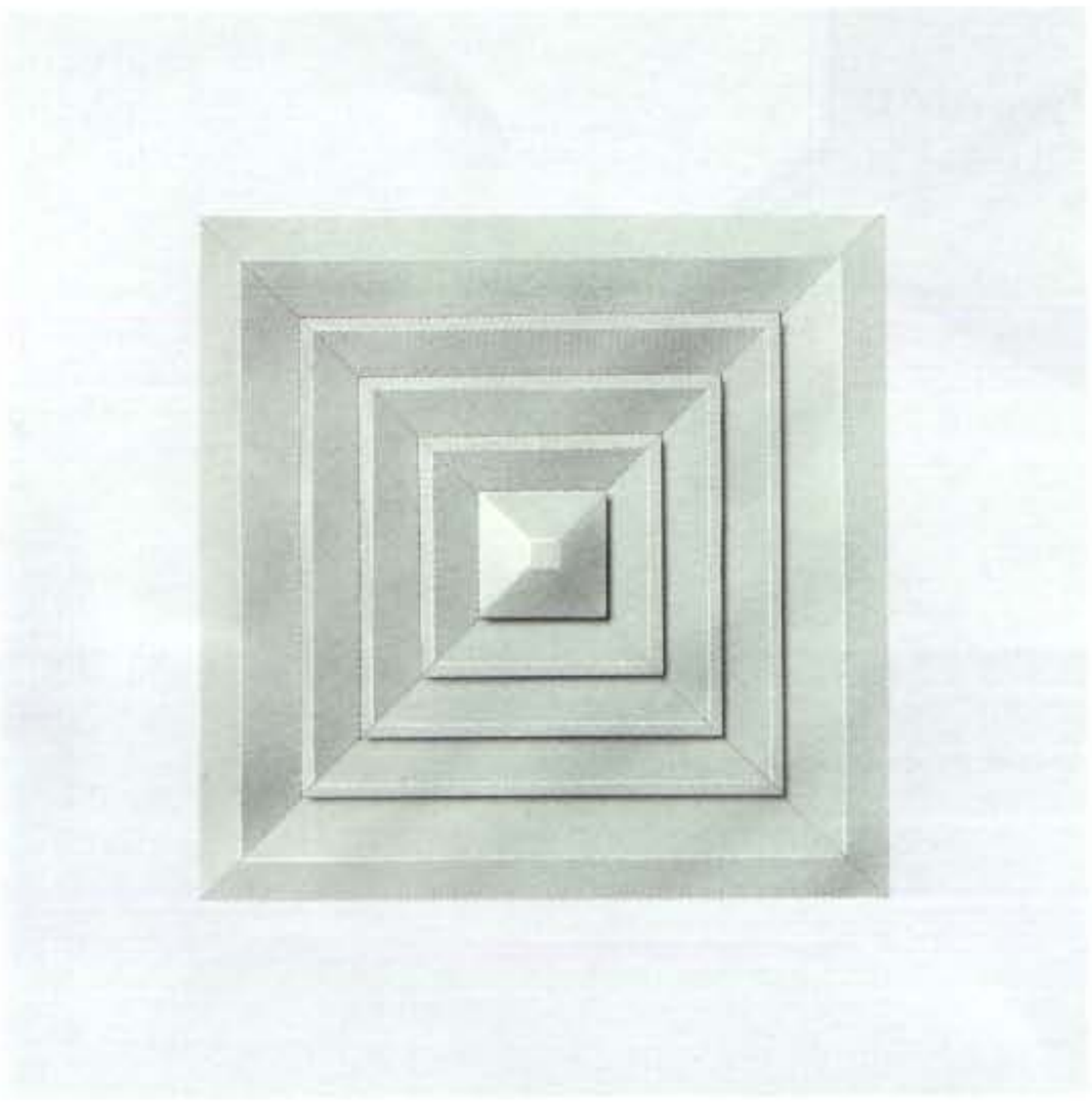
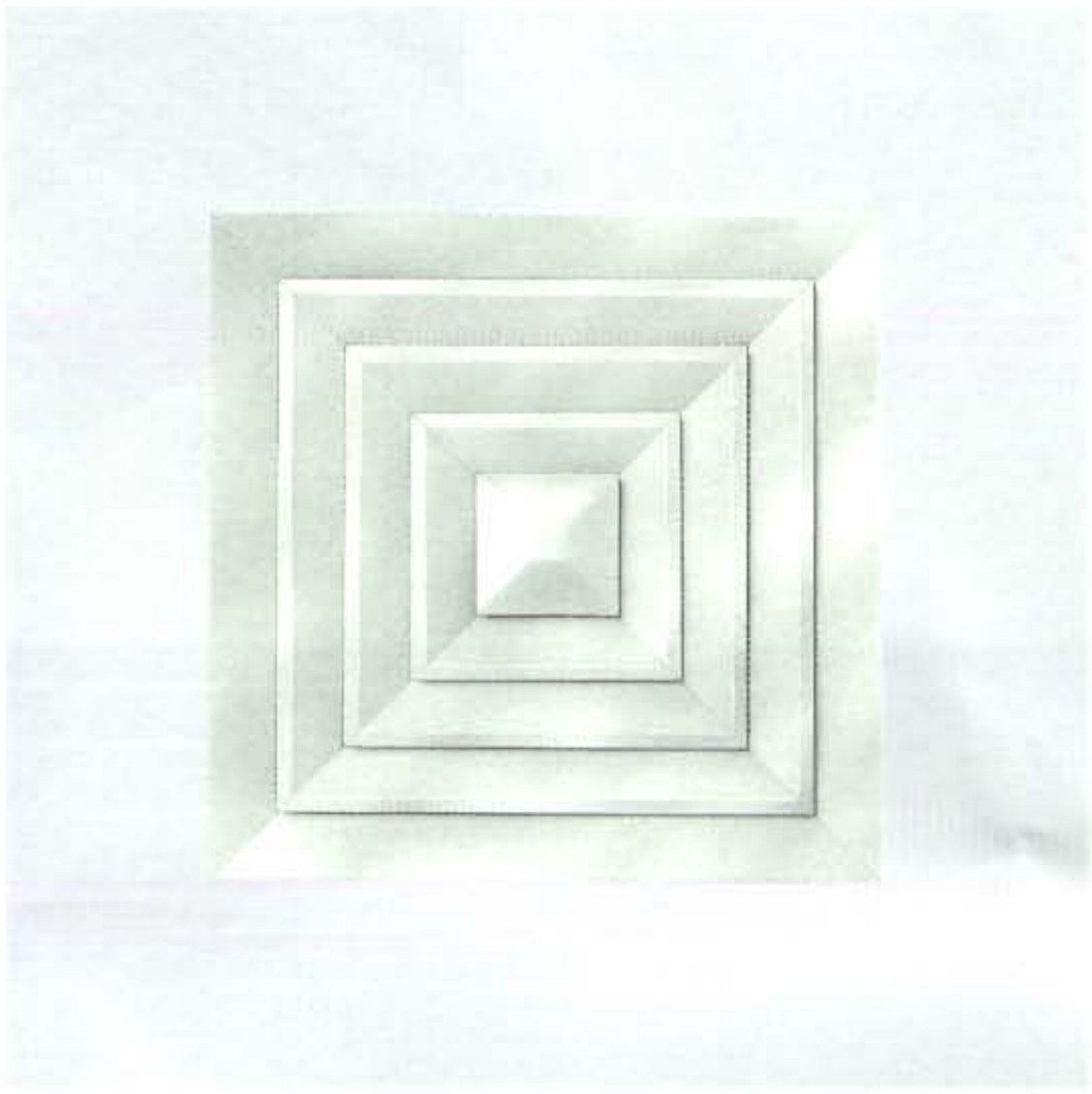
Contents · Description





Square or rectangular ceiling diffusers type ADT are removable core 1, 2, 3 and 4 way discharge diffusers, ideal for flush mounting in ceilings. They are suitable for use in rooms with heights from 2.6 to 4 m. The recommended supply air temperature differential is ± 10K. Ceiling diffusers can be used for both supply and extract air applications.

The removable blade core is mainly suitable for horizontal discharge.

Various border sections are available to cater for flush, recessed T-bar and tile clip fixing. Specially developed ancillaries and plenum boxes with optional flow rate control dampers are available to ensure optimum discharge characteristics.

Construction · Dimensions

Types ADTF • ADTC • ADTL

Types ADTF, ADTC and ADTL have face sections consisting of a peripheral border, removable diffuser core made up with fixed air control blades designed for horizontal air discharge. The core is positioned or removed by action of spring loaded device located through the outer frame.

The type ADTF has a flanged border for directly mounting to a closed flush ceiling (to maintain horizontal discharge).

The type ADTC has a modified border detail to enable fitting into a Burgess ceiling or equivalent. The type ADTC has a modified border detail to enable fitting into a Bargess ceiling or equivalent. This border style is also suitable used as a recessed bprder to enable the diffused to be mounted flush with ceiling tile modules without overlaping (in this method clips are not required).

The type ADTL is similar to ADTF but has a border designed to lay into exposed T-Bar System.

Duct Fixing and Core Removal

Insertion of diffuser core is effected by depressing core pin springs in holes located at end of border frame and releasing core when pins are aligned with corresponding holes at opposite end of frame.

Procedure is reversed for removal of core.

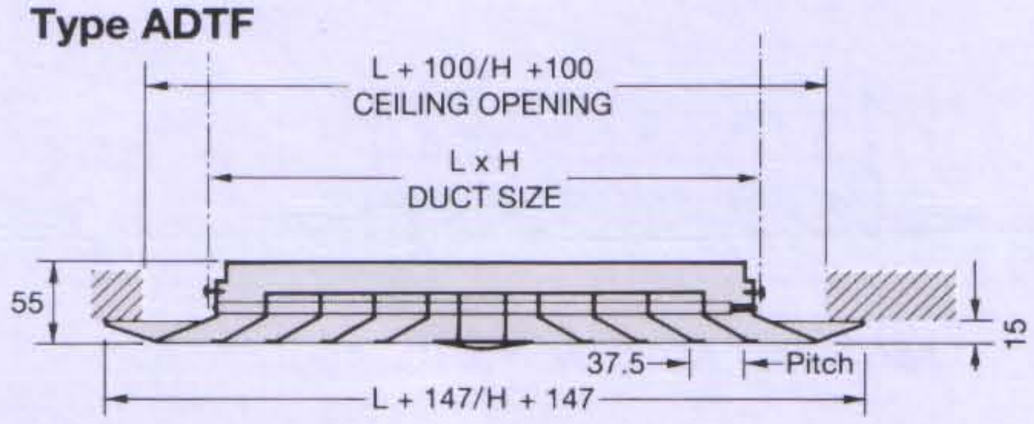
Core Styles

For aerodynamic and acoustic performance see pages 9 to 21.

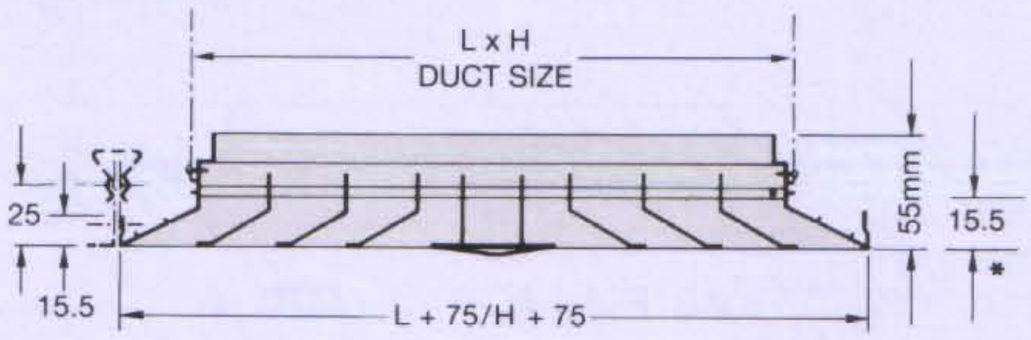
Core styles are interchangeable between diffusers with a given border configuration and of the same size.

Should site requirements alter, alternative air patterns can in some cases be obtained by repositioning of existing cores ie : 2 way configuration.

Type ADTF

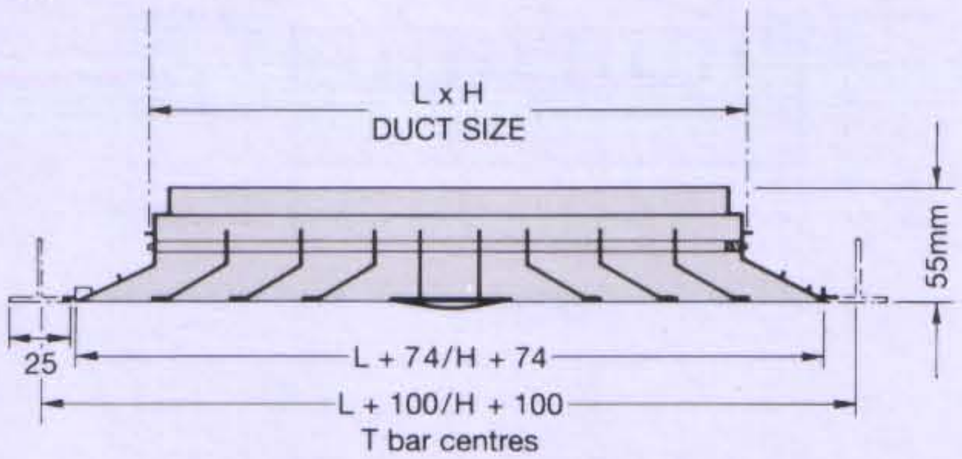


Type ADTC

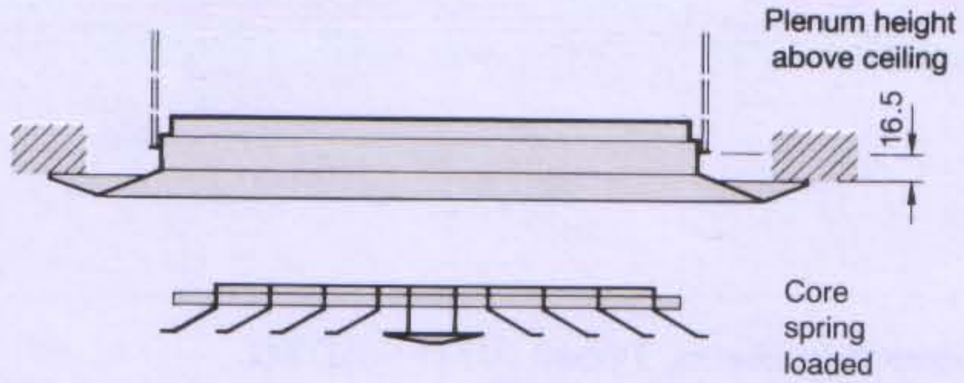


Note: When fixing clips not required this must be defined on the order.
* Rectangular diffusers will have clips fitted to longest side as standard.

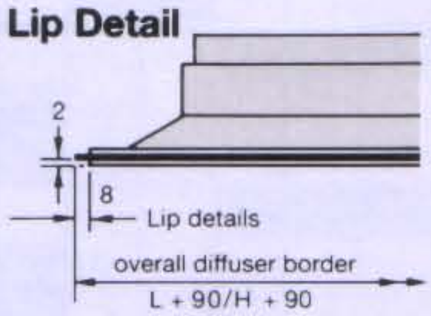
Type ADTL



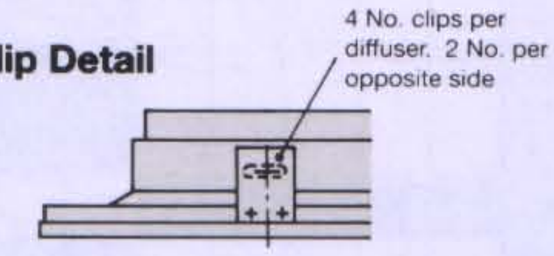
Core Removal Detail



Type ADTL Lip Detail



Type ADTC Clip Detail



Standard Sizes · Ancillaries · Materials

Types ADTF-A · ADTC-A · ADTL-A

Fixed blade diffuser, face section only for supply or extract.

Types ADTF-AG · ADTC-AG · ADTL-AG

Diffuser face section plus opposed blade volume control, accessible for adjustment by removal of core.

Types ADTF-C · ADTC-C · ADTL-C

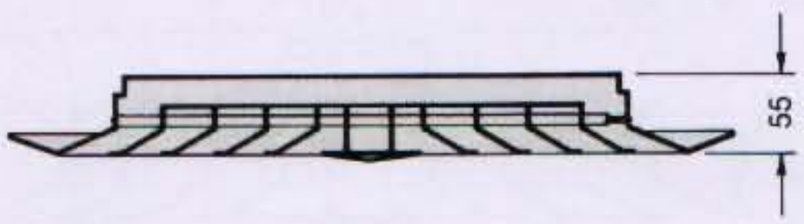
Diffuser face section plus friction held individually adjustable flaps, accessible for adjustment by removal of core.

Materials ADT

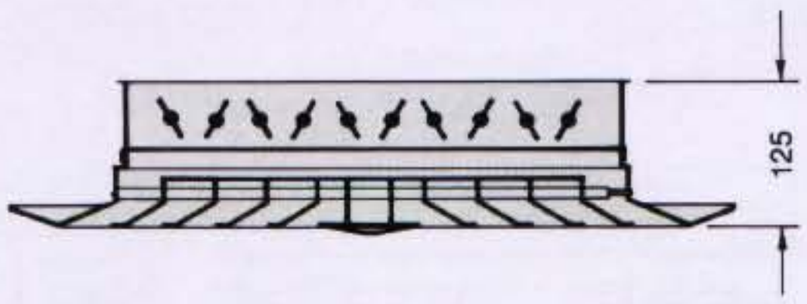
The diffuser face is in extruded aluminium sections natural anodised E6-C-O. The rear ancillaries are formed sheet steel surfaces, stove enamelled black (RAL 9005).

Standard sizes Type ADTL

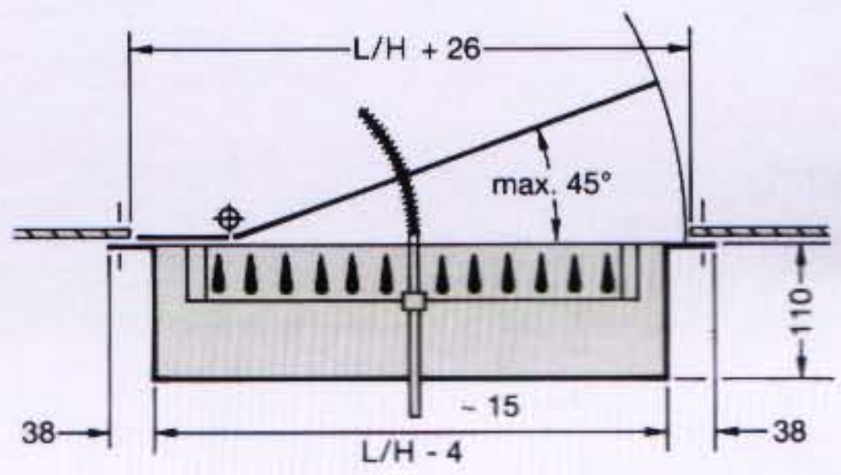
Duct Size L x H (mm)	Core Style										
	1	2	2C	3	4	1L	2L	3L	4L	1S	2S
200 x 200 500 x 350 500 x 500											



ADTF-A · ADTC-A · ADTL-A



ADTF-AG · ADTC-AG · ADTL-AG



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Standard Sizes, Types ADTF · ADTC

Duct Size L x H (mm)	Core Style										
	1	2	2C	3	4	1L	2L	3L	4L	1S	2S
150 x 150	■	■	■	■	■						
225						■	■	■	■	■	■
300						■	■		■	■	■
375						■	■		■		
450						■	■		■		
225 x 225	■	■	■	■	■						
300						■	■	■	■	■	■
375						■	■	■	■	■	■
450						■	■	■	■	■	■
525						■	■	■	■	■	■

Duct Size L x H (mm)	Core Style										
	1	2	2C	3	4	1L	2L	3L	4L	1S	2S
300 x 300	■	■	■	■	■						
375						■	■	■	■	■	■
450						■	■		■		■
525						■	■	■	■	■	■
375 x 375	■	■	■	■	■						
450								■	■		
525								■	■		
450 x 450	■	■	■	■	■						
525								■	■		
600								■	■		
525 x 525	■	■	■	■	■						
600 x 600	■	■	■	■	■						

Standard Sizes · Installation · Plenum Boxes

Type ADTF-AC · ADTC-AC

Diffuser with selected border style complete with circular friction held damper in circular spigot. Damper comprises two flaps each individually adjustable from front face with diffuser core removed.

Type ADTF-CS · ADTC-CS

As above excluding flap damper.

Type ADTF-AGC · ADTC-AGC

Diffuser with selected border style complete with opposed blade volume control damper adjustable from front face with diffuser core removed and with top entry plenum with circular spigot.

Type ADTF-KM · ADTC-KM

Diffuser with selected border style complete with side entry plenum with a perforated metal volume control damper in the spigot manually adjustable with diffuser core removed ('X' = 75).

Type ADTF-K · ADTC-K

As above but excluding volume control damper ('X' = 38).
All sizes are available.

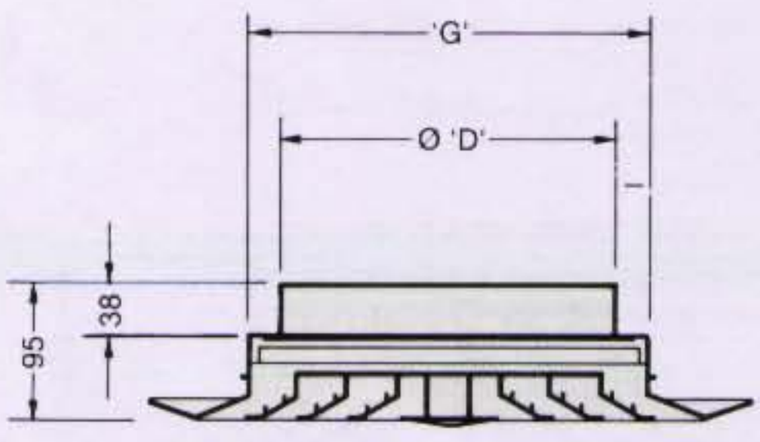
Notes : Side mounted hanging brackets all types except ADTF-AC and CS (quantity 4, 2 off on opposite sides). Types ADTF-AC and CS will be fitted with flat swing out brackets fixed to top face plenum.

All side entry plenums are internally baffled to ensure correct discharge performance.

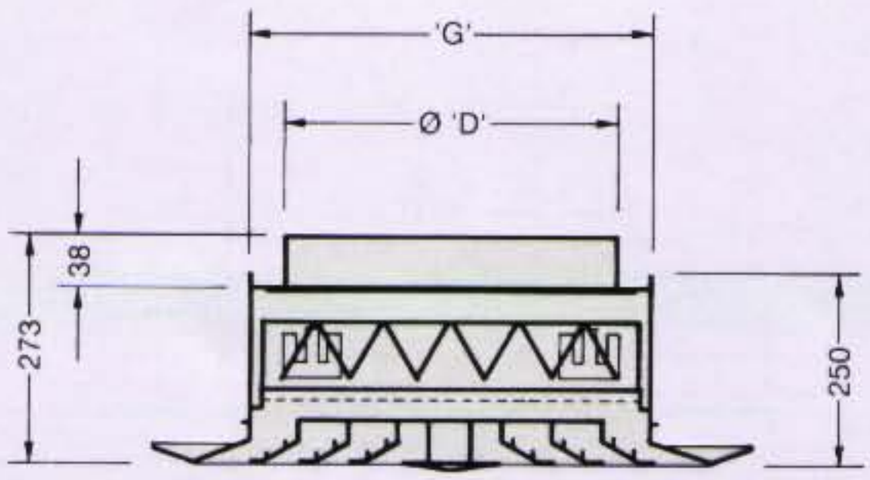
For rectangular diffusers the spigot diameter and location is related to the largest dimensions of 'H' or 'L'.

Spigot sizes ØD are Trox Standard. Non-standard sizes should be referred to Trox Technical Department for evaluation.

* Spigots are located on longest side.



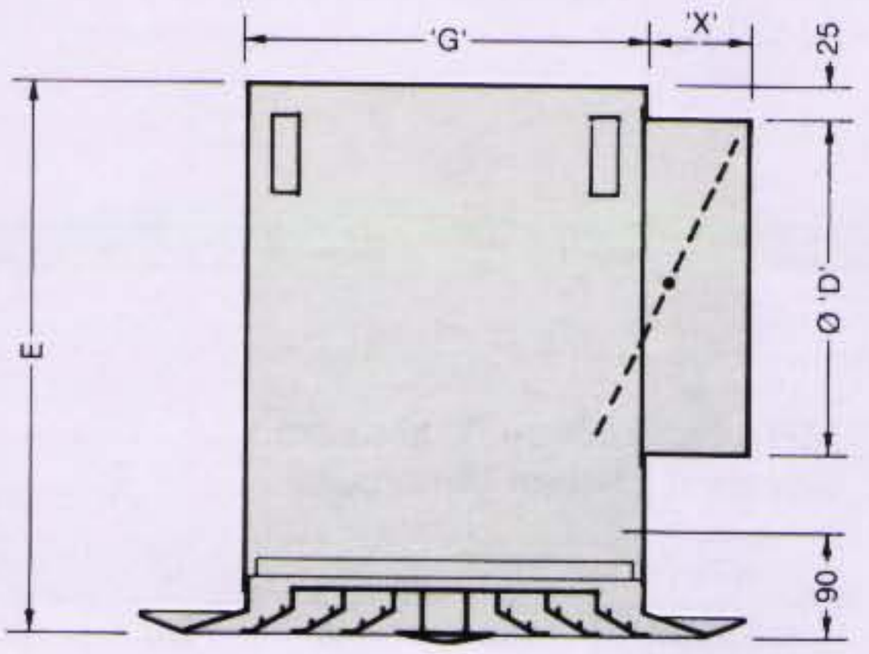
ADTF-AC · ADTC-AC



ADTF-AGC · ADTC-AGC

Standard Sizes, Types ADTF · ADTC

SIZE	C	ØD	E	G
150	152	123	285	150
225	190	198	360	225
300	215	248	410	300
375	247	298	475	375
450	290	298	475	450
525	315	298	475	525
600	340	298	475	600



ADTF-K & KM · ADTC-K & KM

Note : ADTF border style shown

Standard Sizes · Installation · Plenum Boxes

Type ADTL

Type ADTL-AC

Diffuser with selected border style complete with circular friction held damper in circular spigot. Damper comprises two flaps each individually adjustable from front face with diffuser core removed.

Type ADTL-CS

As above excluding flap damper.

Type ADTL-AGC

Diffuser with selected border style complete with opposed blade volume control damper adjustable from front face with diffuser core removed. C/W top entry plenum with circular spigot.

Type ADTL-KM

Diffuser with selected border style complete with side entry plenum with a perforated metal volume control damper in the spigot manually adjustable with diffuser core removed ('X' = 75).

Type ADTL-K

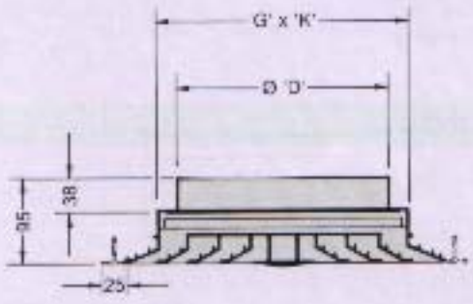
As above but excluding volume control damper ('X' = 38). All sizes are available.

Notes : Side mounted hanging brackets all types except ADTL-AC and CS (quantity 4, 2 off on opposite sides). Types ADTL-AC and CS will be fitted with flat swing out brackets fixed to top face plenum.

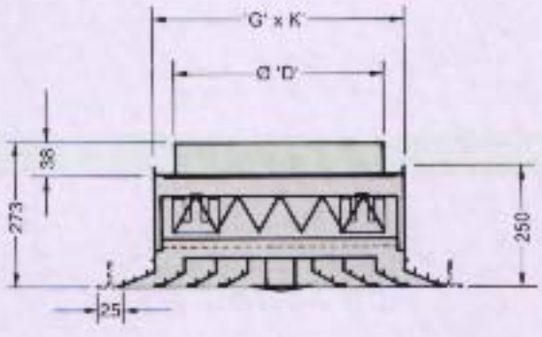
All side entry plenums are internally baffled to ensure correct discharge performance.

Spigot sizes ØD are Trox Standard. Non-standard sizes should be referred to Trox Technical Department for evaluation.

ADTL can also be supplied with 15mm 'T' section. Refer to Trox for details.



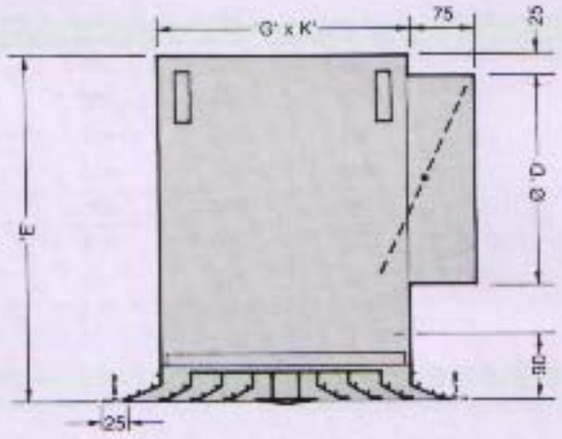
ADTL-AC · ADTL-CS



ADTL-AGC

ADTL (with 25mm 'T' section)
Standard Plenum Dimension

SIZE	C	ØD	E	G	K
200 X 200	149	148	320	200	200
500 X 350	229	298	475	350	500
500 X 500	269	298	475	500	500



ADTL-KM · ADTL-K

Core Arrangements

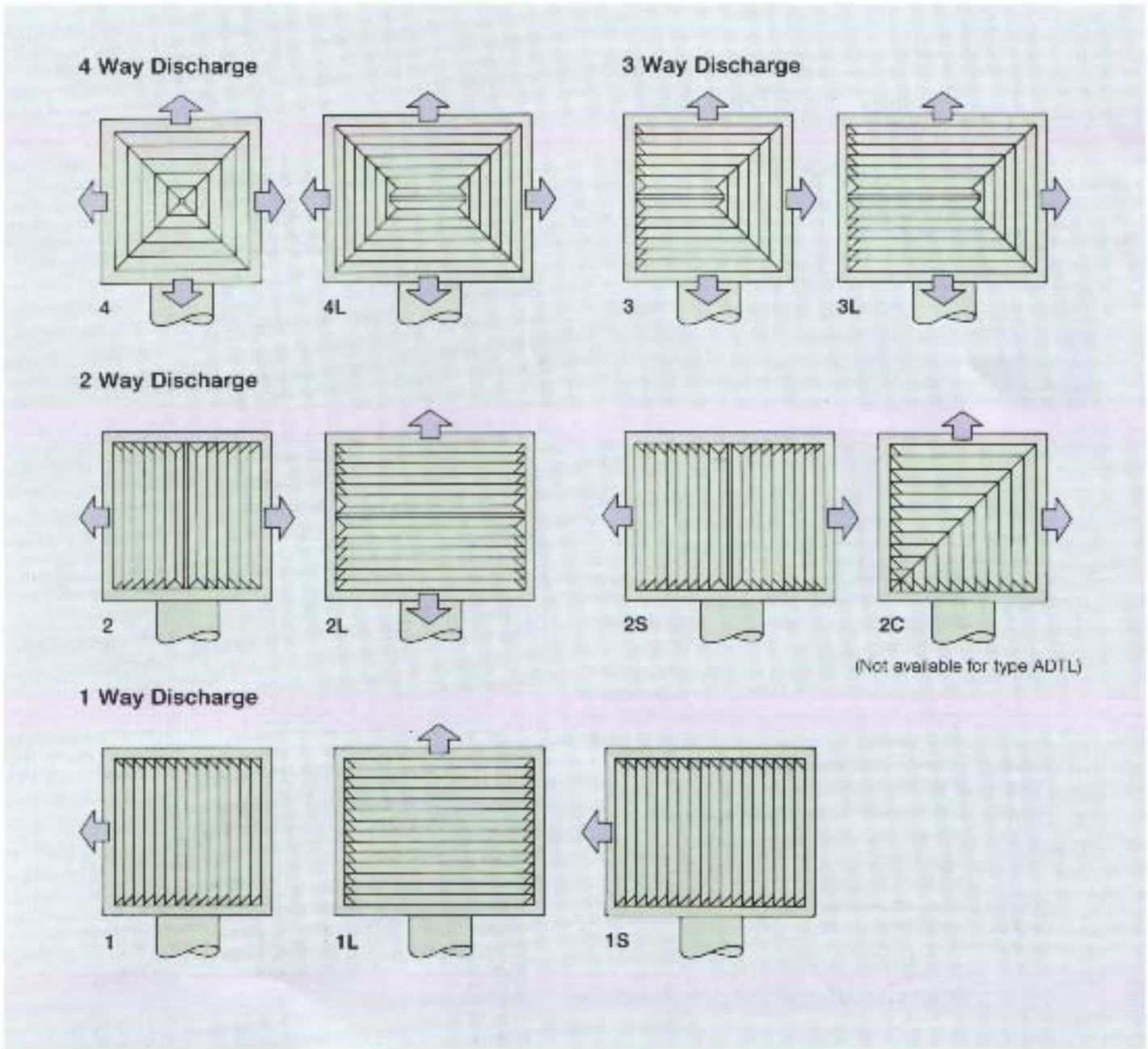
Core Styles

For aerodynamic and acoustic performance see pages 9 to 21.

Cores are interchangeable between borders of the same configuration and size.

Should site requirements alter, alternative air patterns can in some cases be obtained by repositioning of existing cores ie : 2 way configuration.

Core Style	Possible Angle of Rotation		
	90°	180°	270°
1			
1L			
1S			
2			
2C			
3			
3L			



Nomenclature · Technical Data

Air Generated Noise

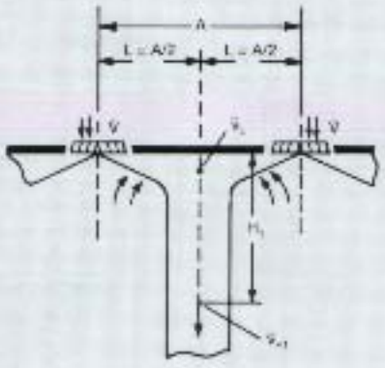
All sound pressure levels (L_{WA}) quoted on the following tables exclude noise generated by plenum boxes. When these are fitted refer to correction tables.

Correction Table: Plenum Boxes

Type	Size	Correction in dB
ADTF – AC/AGC ADTC – AC/AGC ADTL AC/CS/AGC	All	+5
ADTF – K/KG ADTC – K/KG	150 to 300 375 450 525 600	+10 +12 +14 +15 +19
ADTL – K/KM	200 x 200 500 x 350 500 x 500	+10 +10 +14

Correction Table: Damper

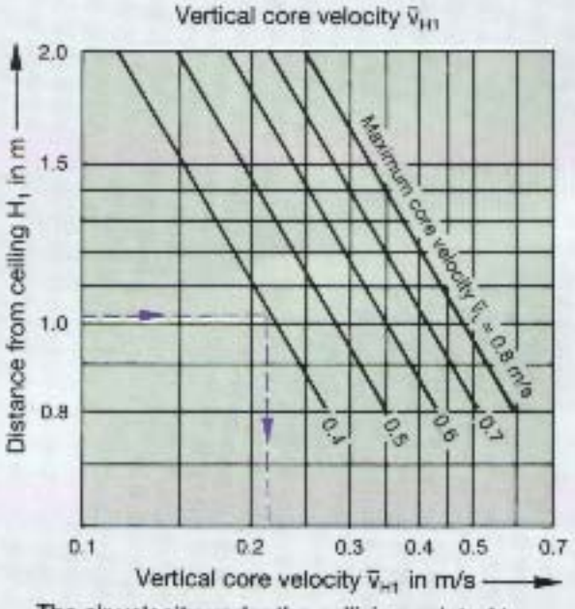
Damper Position	Supply Air		Return Air	
	Δp_t	L_{WA}	Δp_t	L_{WA}
100% open	x 1	0	1.2 x Δp_t	+ 7
50% open	x 1.5	+ 5	1.7 x Δp_t	+ 9
25% open	x 2.4	+ 11	2.6 x Δp_t	+ 12



Nomenclature

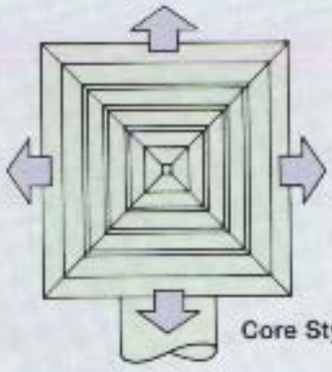
$\dot{V}$	in l/s :	Volume flow per diffuser.
A	in m :	Spacing between two diffusers (distance to collision point L = A/2).
L	in m :	Distance from the outlet where the maximum time average air velocity $\bar{v}_L$ is 0.75 m/s - 0.50 m/s - 0.25 m/s respectively.
Lx	in m :	Distance from the short side of a rectangular diffuser where the maximum time average air velocity $\bar{v}_L$ is 0.75 m/s - 0.50 m/s - 0.25 m/s respectively.
Ly	in m :	Distance from the long side of a rectangular diffuser where the maximum time average air velocity $\bar{v}_L$ is 0.75 m/s - 0.50 m/s - 0.25 m/s respectively.
H_1	in m :	Distance between ceiling and occupied zone.
A_{eff}	in m² :	Effective outlet area.
v_{eff}	in m/s :	Effective discharge jet velocity.
v_K	in m/s :	Diffuser neck velocity.
$\bar{v}_{H1}$	in m/s :	Time average air velocity between two diffusers at distance H_1 from the ceiling.
$\bar{v}_L$	in m/s :	Time average air velocity.
Δp_t	in Pa :	Total pressure drop.
Δp_s	in Pa :	Static pressure drop.
L_{pNC}	:	NC rating of room sound pressure level based on an assumed 8dB room attenuation.

Graph 1



The air velocity under the collision point of two airstreams can be calculated as follows:

From the tabulated data for terminal velocities, and throw distance, estimate the terminal velocity $\bar{v}_L$ at the collision point halfway between adjacent diffusers. The air velocity $\bar{v}_{H1}$ can be obtained from using graph 1 for the terminal velocity $\bar{v}_L$ at the ceiling; and H_1 the distance down from the ceiling to the occupied zone.

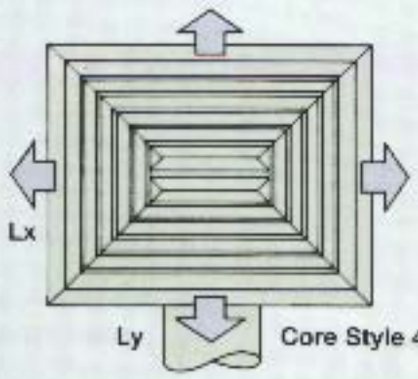


Core Style 4

Core Style 4 - 4 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
150 x 150	$\dot{V}$ (l/s)	24	36	48	60	72	84
	L (m)	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	L_{pNC}			16	22	28	33
225 x 225	$\dot{V}$ (l/s)	53	80	105	130	160	185
	L (m)	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	L_{pNC}			19	26	31	36
300 x 300	$\dot{V}$ (l/s)	95	140	190	240	280	330
	L (m)	0.9-1.5-3.1	1.5-2.2-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	L_{pNC}			22	28	34	39
375 x 375	$\dot{V}$ (l/s)	150	225	300	375	450	525
	L (m)	1.2-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	L_{pNC}			24	30	36	41
450 x 450	$\dot{V}$ (l/s)	212	320	425	530	640	750
	L (m)	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	L_{pNC}			25	32	37	42
525 x 525	$\dot{V}$ (l/s)	287	430	575	720	860	1010
	L (m)	1.8-2.7-4.6	2.7-4.0-5.5	3.4-4.6-6.4	4.3-5.2-7.3	4.6-5.5-7.9	4.9-6.1-8.5
	L_{pNC}		18	27	32	39	44
600 x 600	$\dot{V}$ (l/s)	375	560	750	940	1120	1310
	L (m)	2.1-3.1-4.9	3.1-4.3-6.1	4.0-4.9-7.0	4.6-5.5-7.6	4.9-6.1-8.5	5.2-6.4-9.2
	L_{pNC}		19	28	34	40	45

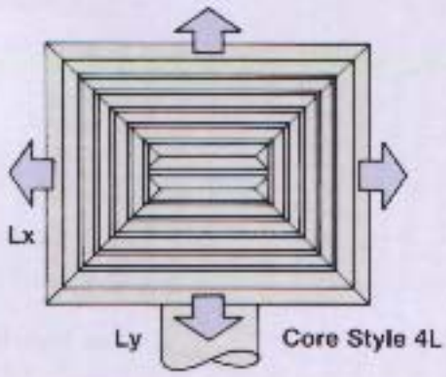
Technical Data ADTF · ADTC



Core Style 4L - 4 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_T (Pa)	5	12	21	33	47	64
225 x 150	$\dot{V}$ (l/s)	35	50	70	90	100	120
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	Ly	0.9-1.2-2.4	1.2-1.5-4.0	1.5-2.4-4.3	1.8-3.4-4.6	2.7-4.0-5.2	3.4-4.0-5.8
	L_{pNC}			17	24	29	34
300 x 150	$\dot{V}$ (l/s)	47	70	95	120	140	165
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	Ly	0.9-1.5-2.7	1.5-1.8-4.0	1.5-2.7-4.6	2.1-3.4-4.9	2.7-4.0-5.8	3.7-4.3-6.1
	L_{pNC}			19	25	31	36
375 x 150	$\dot{V}$ (l/s)	60	90	120	150	180	210
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	Ly	1.2-1.5-3.1	1.5-2.1-4.3	1.1-3.1-4.9	2.4-3.7-5.2	3.1-4.3-5.8	3.7-4.6-6.4
	L_{pNC}			19	26	31	35
450 x 150	$\dot{V}$ (l/s)	70	105	140	175	210	245
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	Ly	1.2-1.5-3.1	1.5-2.1-4.6	1.8-3.4-4.9	2.7-4.0-5.5	3.4-4.6-6.1	4.4-6.0-6.7
	L_{pNC}			20	27	32	37
300 x 225	$\dot{V}$ (l/s)	70	105	140	175	210	245
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.2-1.8-3.4	1.8-2.1-4.3	1.8-3.1-4.9	2.7-4.0-5.5	3.1-4.6-6.1	4.4-6.0-6.7
	L_{pNC}			20	27	32	37
375 x 225	$\dot{V}$ (l/s)	87	130	175	220	260	310
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.2-1.8-3.4	1.8-2.4-4.6	2.1-3.4-5.2	2.7-4.0-5.8	3.4-4.6-6.4	4.0-4.9-7.0
	L_{pNC}			21	28	34	38
450 x 225	$\dot{V}$ (l/s)	105	160	210	265	320	375
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.2-1.8-4.0	1.8-2.7-4.9	2.4-4.0-5.5	3.4-4.3-6.1	4.0-4.9-6.7	4.3-5.2-7.3
	L_{pNC}			22	29	34	39

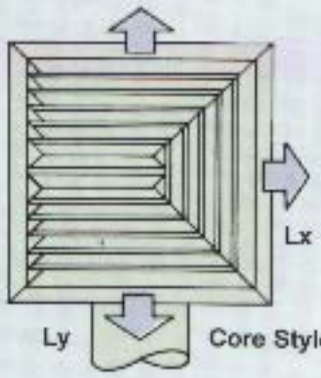
Continued on Page 11



Core Style 4L - 4 Way Discharge (continued)

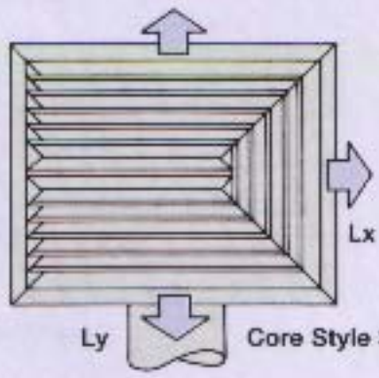
NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
525 x 225	V (l/s)	122	185	245	305	370	435
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.5-2.1-4.3	2.1-3.4-5.2	2.7-4.3-5.8	3.7-4.6-6.4	4.3-5.2-7.0	4.6-5.5-7.5
	L_{pNC}			23	30	35	40
375 x 300	V (l/s)	112	180	235	295	360	420
	Lx	0.9-1.5-3.1	1.5-2.1-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	Ly	1.2-2.1-4.0	2.1-2.7-4.9	2.4-3.7-5.5	3.4-4.3-6.1	3.7-4.9-6.7	4.3-5.2-7.3
	L_{pNC}			22	29	34	38
450 x 300	V (l/s)	140	210	280	350	420	490
	Lx	0.9-1.5-3.1	1.5-2.1-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	Ly	1.5-2.1-4.0	2.1-3.1-4.9	2.7-4.0-5.8	3.4-4.6-6.4	4.0-4.9-7.0	4.3-5.5-7.6
	L_{pNC}			23	30	36	40
525 x 300	V (l/s)	165	250	330	415	500	585
	Lx	0.9-1.5-3.1	1.5-2.1-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	Ly	1.5-2.4-4.3	2.4-3.7-5.2	3.1-4.3-6.1	4.0-4.9-6.7	4.3-5.2-7.3	4.6-5.8-7.9
	L_{pNC}			24	31	36	41
450 x 375	V (l/s)	177	265	355	445	530	620
	Lx	1.2-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	Ly	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-5.8	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.6
	L_{pNC}			24	31	37	41
525 x 375	V (l/s)	205	310	410	515	620	725
	Lx	1.2-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	Ly	1.5-2.4-4.6	2.4-3.7-5.5	3.4-4.6-6.4	4.0-4.9-7.0	4.6-5.5-7.6	4.9-5.8-8.2
	L_{pNC}			25	32	37	42
525 x 450	V (l/s)	247	370	495	620	740	865
	Lx	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	Ly	1.8-2.4-4.6	2.4-4.0-5.5	3.4-4.6-6.4	4.3-5.2-7.0	4.6-5.5-7.9	4.9-6.1-8.5
	L_{pNC}			26	33	38	43
600 x 450	V (l/s)	282	425	565	705	850	995
	Lx	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	Ly	1.8-2.7-4.9	2.7-4.3-5.8	4.0-4.9-6.7	4.3-5.2-7.6	4.9-5.8-8.2	5.2-6.4-8.8
	L_{pNC}		18	26	33	39	43

Technical Data ADTF · ADTC



Core Style 3 - 3 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
150 x 150	$\dot{V}$ (l/s)	24	36	48	60	72	84
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.8-2.7-4.2	2.1-3.3-4.5
	Ly	0.6-0.9-2.1	0.9-1.5-3.1	1.2-2.1-3.7	1.5-2.7-4.3	2.1-3.1-4.6	2.4-3.4-4.7
	L_{pNC}			16	22	28	33
225 x 225	$\dot{V}$ (l/s)	53	80	105	130	160	185
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	0.9-1.2-2.7	1.2-2.1-4.0	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.8	3.1-4.3-6.1
	L_{pNC}			19	26	31	36
300 x 300	$\dot{V}$ (l/s)	96	140	190	240	280	330
	Lx	1.2-1.5-3.1	1.5-2.1-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	Ly	1.2-1.8-3.7	1.8-2.1-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.0-4.9-7.0
	L_{pNC}			22	28	34	39
375 x 375	$\dot{V}$ (l/s)	150	225	300	375	400	525
	Lx	1.5-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	Ly	1.5-2.4-4.3	2.4-3.4-5.2	3.1-4.3-6.1	4.0-4.9-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	L_{pNC}			24	30	36	41
450 x 450	$\dot{V}$ (l/s)	212	320	425	530	640	750
	Lx	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	Ly	1.8-2.7-4.6	2.7-4.0-5.8	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.8-7.9	5.2-6.1-8.8
	L_{pNC}			25	32	37	42
525 x 525	$\dot{V}$ (l/s)	287	430	575	720	860	1010
	Lx	1.8-2.7-4.6	2.7-4.0-5.5	3.4-4.6-6.4	4.3-5.2-7.3	4.6-5.5-7.9	4.9-6.1-8.5
	Ly	2.1-3.4-5.2	3.4-4.3-6.1	4.3-5.2-7.0	4.6-5.8-7.9	5.2-6.1-8.8	5.5-6.7-9.5
	L_{pNC}		18	27	33	39	44
600 x 600	$\dot{V}$ (l/s)	375	560	750	940	1120	1310
	Lx	2.1-3.1-4.9	3.1-4.3-6.1	4.0-4.9-7.0	4.6-5.5-7.6	4.9-6.1-8.5	5.2-6.4-9.2
	Ly	2.4-3.7-5.5	3.7-4.6-6.7	4.3-5.5-7.6	4.9-6.1-8.5	5.5-6.7-9.5	5.8-7.0-10.1
	L_{pNC}		17	28	34	40	45

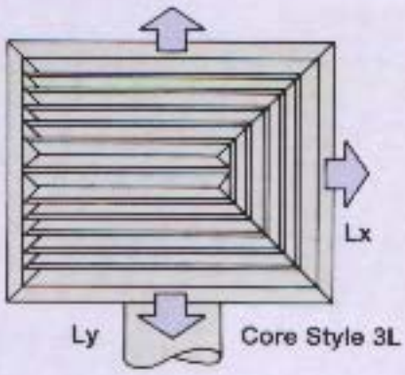


Core Style 3L - 3 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
225 x 150	$\dot{V}$ (l/s)	35	50	70	90	100	120
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	Ly	0.9-1.2-2.7	1.2-1.8-3.7	1.5-2.7-4.6	2.1-3.4-4.9	2.7-3.7-5.5	3.3-4.3-6.1
	L_{pNC}			17	24	29	34
300 x 150	$\dot{V}$ (l/s)	47	70	95	120	140	165
	Lx	0.4-0.8-1.5	0.8-1.0-2.7	0.9-1.5-3.5	1.2-2.1-3.8	1.6-2.7-4.2	2.1-3.3-4.5
	Ly	0.9-1.2-3.1	1.2-2.1-4.0	1.8-3.1-4.9	2.4-3.7-5.2	3.1-4.0-5.8	3.7-4.6-6.4
	L_{pNC}			19	25	31	36
300 x 225	$\dot{V}$ (l/s)	70	105	140	175	210	245
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.2-2.1-3.4	1.8-2.4-4.3	2.1-3.4-5.2	2.7-4.0-5.8	3.4-4.3-6.4	4.0-4.9-7.0
	L_{pNC}			20	27	32	37
375 x 225	$\dot{V}$ (l/s)	87	130	175	220	260	310
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.2-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	L_{pNC}			21	28	34	38
450 x 225	$\dot{V}$ (l/s)	106	160	112	265	320	375
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.7	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.5-2.1-4.0	2.1-3.1-4.9	2.7-4.0-5.8	3.4-4.6-6.4	4.0-4.9-7.0	4.3-5.5-7.6
	L_{pNC}			22	29	34	39
525 x 225	$\dot{V}$ (l/s)	125	190	250	315	380	445
	Lx	0.6-1.2-2.1	1.2-1.5-3.4	1.5-2.1-4.3	1.8-2.7-4.6	2.1-3.4-5.2	2.7-4.0-5.5
	Ly	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.9-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	L_{pNC}			23	30	35	40
375 x 300	$\dot{V}$ (l/s)	112	180	235	295	360	420
	Lx	0.9-1.5-3.1	1.5-2.1-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	Ly	1.5-2.1-4.3	2.1-3.1-4.9	2.7-4.0-5.8	3.4-4.6-6.4	4.0-4.9-7.3	4.6-5.5-7.9
	L_{pNC}			22	29	34	38

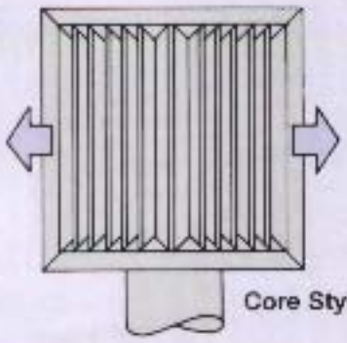
Continued on Page 14

Technical Data ADTF · ADTC

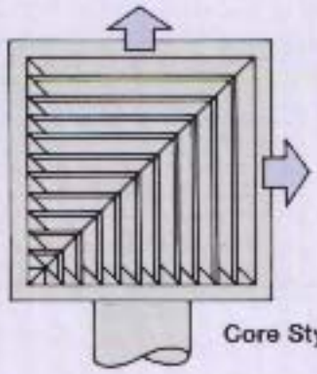


Core Style 3L - 3 Way Discharge (continued)

NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
450 x 300	$\dot{V}$ (l/s)	140	210	280	350	420	490
	Lx	0.9-1.5-3.1	1.5-2.1-4.3	1.8-3.1-4.9	2.4-3.7-5.5	3.1-4.3-5.8	3.4-4.6-6.4
	Ly	1.5-2.4-4.3	2.4-3.7-5.2	3.1-4.3-6.1	4.0-4.9-6.7	4.3-5.2-7.3	4.6-5.8-7.9
	L_{pNC}			23	30	36	40
450 x 375	$\dot{V}$ (l/s)	177	265	355	445	530	620
	Lx	1.2-1.9-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	Ly	1.8-2.4-4.6	2.4-4.0-5.5	3.4-4.6-6.4	4.0-4.9-7.0	4.6-5.5-7.9	4.9-5.8-8.5
	L_{pNC}			24	31	37	41
525 x 375	$\dot{V}$ (l/s)	205	310	410	515	620	725
	Lx	1.2-1.9-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3
	Ly	1.8-2.7-4.6	2.7-4.0-5.8	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.8-8.2	5.2-6.1-8.8
	L_{pNC}			25	32	37	42
525 x 450	$\dot{V}$ (l/s)	247	370	495	620	740	865
	Lx	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	Ly	2.1-3.1-5.2	3.1-4.3-6.1	4.0-5.2-7.0	4.6-5.8-7.6	5.2-6.1-8.5	5.2-6.4-9.2
	L_{pNC}			26	33	38	43
600 x 450	$\dot{V}$ (l/s)	282	425	565	705	850	995
	Lx	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-6.1	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	Ly	2.1-3.4-5.2	3.4-4.3-6.1	4.3-5.2-7.3	4.6-5.8-7.9	5.2-6.1-8.8	5.5-6.7-9.5
	L_{pNC}		18	26	33	39	43



Core Style 2

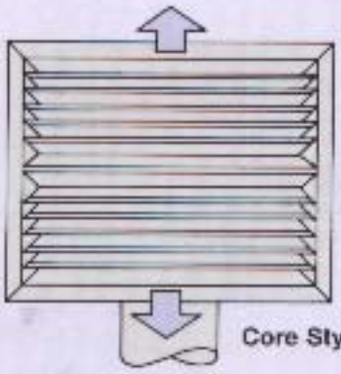


Core Style 2C

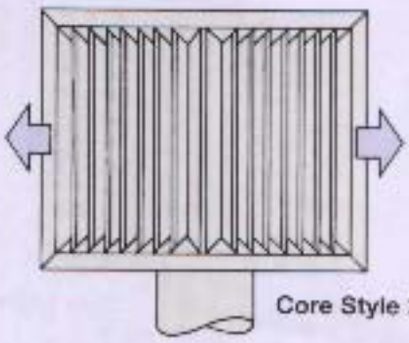
Core Style 2/ 2C - 2 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
150 x 150	$\dot{V}$ l/s	24	36	48	60	72	84
	L	0.6-0.9-2.4	0.9-1.8-3.4	1.5-2.4-4.0	2.1-3.4-4.6	2.4-3.4-4.9	3.1-3.7-5.5
	L_{pNC}			16	22	28	33
225 x 225	$\dot{V}$ l/s	53	80	105	130	160	185
	L	0.9-1.5-3.1	1.5-2.4-4.3	2.1-3.1-4.9	2.7-4.0-5.5	3.1-4.3-6.1	3.7-4.6-6.7
	L_{pNC}			19	26	31	36
300 x 300	$\dot{V}$ l/s	95	140	190	240	280	330
	L	1.5-2.1-4.1	2.1-3.1-4.9	2.7-4.0-5.8	3.4-4.6-6.4	4.0-4.9-7.0	4.3-5.5-7.6
	L_{pNC}			22	28	34	39
375 x 375	$\dot{V}$ l/s	150	225	300	375	450	525
	L	1.8-2.7-4.6	2.7-4.0-5.5	3.7-4.6-6.4	4.3-5.2-7.3	4.6-5.5-7.9	4.9-6.1-8.5
	L_{pNC}			24	30	36	41
450 x 450	$\dot{V}$ l/s	212	320	425	530	640	750
	L	2.1-3.1-4.9	3.1-4.3-6.1	4.0-4.9-7.0	4.6-5.5-7.9	4.9-6.1-8.5	5.5-6.7-9.5
	L_{pNC}			25	32	37	42
525 x 525	$\dot{V}$ l/s	287	430	575	720	860	1010
	L	2.4-3.6-5.5	3.7-4.6-6.7	4.6-5.5-7.6	4.9-6.1-8.5	5.5-6.7-9.5	5.8-7.3-10.1
	L_{pNC}		18	27	33	39	49
600 x 600	$\dot{V}$ l/s	375	560	750	940	1120	1310
	L	2.7-4.0-5.8	4.0-4.9-7.0	4.9-5.8-8.2	5.2-6.4-9.2	5.8-7.0-10.1	6.4-7.6-11.0
	L_{pNC}		19	28	34	40	45

Technical Data ADTF · ADTC



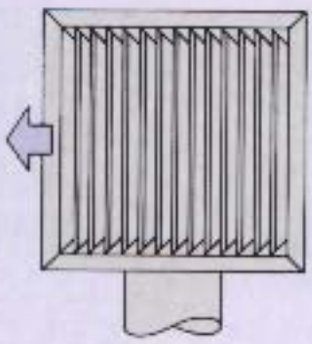
Core Style 2L



Core Style 2S

Core Style 2L/ 2S - 2 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
225 x 150	$\dot{V}$ l/s	35	55	70	90	110	130
	L	0.6-1.5-3.4	1.2-2.1-3.7	1.8-3.4-4.6	2.1-3.7-5.2	3.1-3.7-5.5	3.2-4.0-6.1
	L_{pNC}			17	24	29	34
300 x 150	$\dot{V}$ l/s	47	70	95	120	140	165
	L	0.9-1.5-3.4	1.5-2.4-4.0	2.1-3.4-4.9	2.4-4.0-5.5	3.3-4.0-6.1	3.5-4.3-6.7
	L_{pNC}			19	25	31	36
375 x 150	$\dot{V}$ l/s	60	90	120	150	180	210
	L	0.9-1.8-3.7	1.8-2.7-4.3	2.5-3.7-5.2	2.7-4.0-5.8	3.6-4.3-6.4	3.7-4.6-7.0
	L_{pNC}			19	26	31	35
450 x 150	$\dot{V}$ l/s	70	105	140	175	210	245
	L	0.9-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.0-4.9-7.3
	L_{pNC}			20	27	32	37
300 x 225	$\dot{V}$ l/s	70	105	140	175	210	245
	L	0.9-1.8-3.7	1.8-2.7-4.6	2.4-3.7-5.5	3.1-4.3-6.1	3.7-4.6-6.7	4.0- 4.9-7.3
	L_{pNC}			20	27	32	37
375 x 225	$\dot{V}$ l/s	87	130	175	220	260	310
	L	1.2-2.0-4.1	2.1-3.1-4.9	2.7-4.0-5.8	3.4-4.6-6.4	4.0-4.9-7.0	4.3-5.2-7.6
	L_{pNC}			21	28	34	38
450 x 225	$\dot{V}$ l/s	105	160	210	265	320	375
	L	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-5.8	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-8.0
	L_{pNC}			22	29	34	39
525 x 225	$\dot{V}$ l/s	122	185	245	305	370	435
	L	1.5-2.4-4.3	2.4-3.7-5.5	3.4-4.3-6.1	4.0-4.9-7.0	4.3-5.5-6.7	4.6-5.7-8.2
	L_{pNC}			23	30	35	40
375 x 300	$\dot{V}$ l/s	112	180	235	295	360	420
	L	1.5-2.4-4.3	2.4-3.4-5.2	3.1-4.3-6.1	3.7-4.9-6.7	4.3-5.2-7.6	4.6-5.5-8.2
	L_{pNC}			22	29	34	38
450 x 300	$\dot{V}$ l/s	140	210	280	350	420	490
	L	1.8-2.4-4.6	2.4-4.0-5.5	3.4-4.6-6.4	4.3-5.2-7.0	4.6-5.5-7.9	4.9-6.1-8.5
	L_{pNC}			23	30	36	40
525 x 300	$\dot{V}$ l/s	165	250	330	415	500	585
	L	1.8-2.7-4.6	2.7-4.0-5.6	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.8-8.2	5.2-6.1-8.8
	L_{pNC}			24	31	36	41

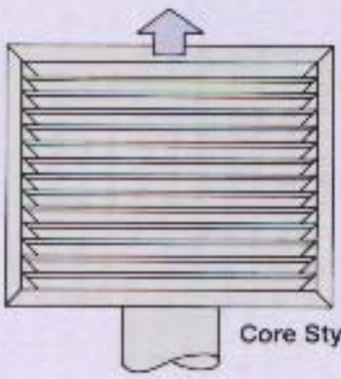


Core Style 1

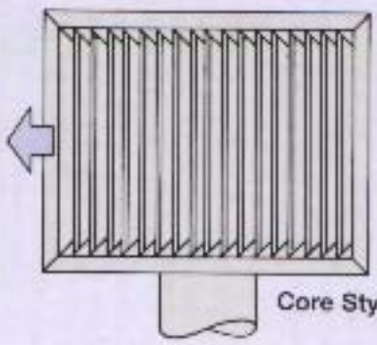
Core Style 1 - 1 Way Discharge

NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
150 x 150	$\dot{V}$ l/s	24	36	48	60	72	84
	L	0.9-1.5-3.4	1.5-2.7-4.3	2.4-3.4-4.6	3.1-3.7-5.5	3.4-4.3-6.1	3.7-4.6-6.4
	L_{pNC}			16	22	28	33
225 x 225	$\dot{V}$ l/s	53	80	105	130	160	185
	L	1.5-2.1-4.3	2.1-3.4-5.2	3.1-4.3-5.8	3.7-4.6-6.7	4.3-5.2-7.3	4.6-5.5-7.9
	L_{pNC}			19	26	31	36
300 x 300	$\dot{V}$ l/s	95	140	190	240	280	330
	L	1.8-3.1-4.9	3.1-4.3-5.8	4.0-4.9-6.7	4.6-5.5-7.6	4.9-5.8-8.5	5.2-6.4-9.2
	L_{pNC}			22	28	34	39
375 x 375	$\dot{V}$ l/s	150	225	300	375	450	525
	L	2.4-3.7-5.5	3.7-4.6-6.7	4.6-5.5-7.6	4.9-6.1-8.5	5.5-6.7-9.5	5.8-7.3-10.2
	L_{pNC}			24	30	36	41
450 x 450	$\dot{V}$ l/s	212	320	425	530	640	750
	L	3.1-4.3-6.1	4.3-5.2-7.3	4.9-6.1-8.5	5.5-6.7-9.5	6.1-7.3-10.4	6.4-7.9-11.3
	L_{pNC}			25	32	37	42
525 x 525	$\dot{V}$ l/s	287	430	575	720	860	1010
	L	3.4-4.6-6.4	4.6-5.5-7.4	5.2-6.4-9.2	5.8-7.3-10.1	6.4-7.9-11.3	7.0-8.5-12.2
	L_{pNC}		18	27	33	39	44
600 x 600	$\dot{V}$ l/s	375	560	750	940	1120	1310
	L	4.0-4.9-7.0	4.9-6.1-8.5	5.5-7.0-9.8	6.4-7.6-11.0	7.0-8.5-11.9	7.3-9.2-12.8
	L_{pNC}		19	28	34	40	45

Technical Data ADTF · ADTR · ADTC



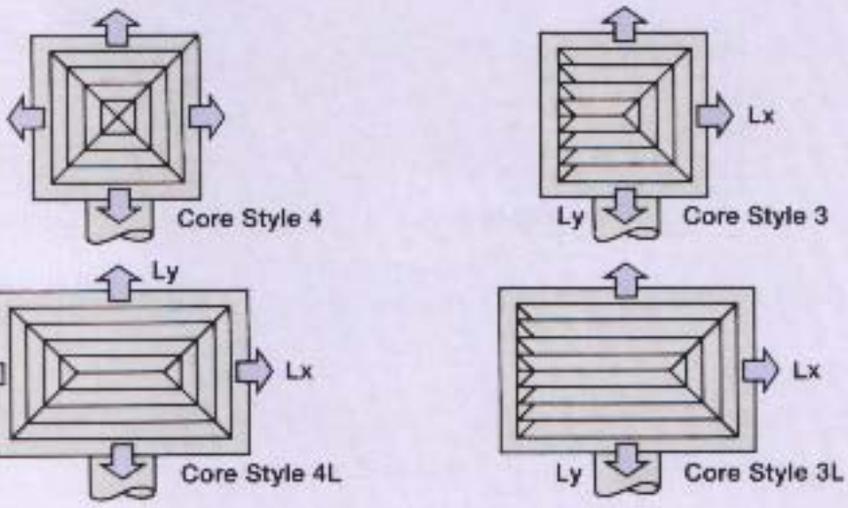
Core Style 1L



Core Style 1S

Core Style 1L/ 1S - 1 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	5	12	21	33	47	64
225 x 150	$\dot{V}$ l/s	35	50	70	90	100	120
	L	0.9-1.5-4.0	1.5-3.5-4.5	3.0-4.0-5.4	3.4-4.0-6.1	4.0-4.6-6.4	4.0-5.2-7.0
	L_{pNC}			17	24	29	34
300 x 150	$\dot{V}$ l/s	47	70	95	120	140	165
	L	1.2-1.8-4.3	1.8-3.7-4.9	3.4-4.3-5.8	3.7-4.3-6.7	4.3-4.9-7.0	4.3-5.5-7.6
	L_{pNC}			19	25	31	36
375 x 150	$\dot{V}$ l/s	60	90	120	150	180	210
	L	1.5-2.1-4.6	2.1-4.0-5.2	3.4-4.6-6.1	3.7-4.6-7.0	4.6-5.2-7.3	4.5-5.8-7.9
	L_{pNC}			19	26	31	35
450 x 150	$\dot{V}$ l/s	70	105	140	175	210	245
	L	1.5-2.4-4.6	2.4-4.0-5.5	3.7-4.6-6.4	4.0-4.9-7.3	4.6-5.5-7.6	4.9-6.1-8.2
	L_{pNC}			20	27	32	37
300 x 225	$\dot{V}$ l/s	70	105	140	175	210	245
	L	1.5-2.4-4.6	2.4-4.0-5.5	3.7-4.6-6.4	4.0-4.9-7.3	4.6-5.5-7.6	4.9-6.1-8.2
	L_{pNC}			20	27	32	37
375 x 225	$\dot{V}$ l/s	87	130	175	220	260	310
	L	1.8-2.7-4.9	2.7-4.3-5.8	4.0-4.9-6.7	4.3-5.2-7.6	4.9-5.8-8.2	5.2-6.4-8.8
	L_{pNC}			21	28	34	38
450 x 225	$\dot{V}$ l/s	106	160	112	265	320	375
	L	2.2-3.1-4.9	3.1-4.3-6.1	4.0-4.9-7.0	4.6-5.5-7.9	4.9-6.1-8.5	5.5-6.7-9.5
	L_{pNC}			22	29	34	39
525 x 225	$\dot{V}$ l/s	125	190	250	315	380	445
	L	2.1-3.4-5.2	3.4-4.6-6.4	4.3-5.2-7.3	4.9-5.8-8.2	5.2-6.4-8.8	5.5-7.0-9.8
	L_{pNC}			23	30	35	40
375 x 300	$\dot{V}$ l/s	112	180	235	245	360	420
	L	2.1-3.4-5.2	3.4-4.6-6.1	4.3-5.2-7.3	4.6-5.5-8.2	5.2-6.1-8.8	5.5-6.7-9.6
	L_{pNC}			22	29	34	38
450 x 300	$\dot{V}$ l/s	140	210	280	350	420	490
	L	2.4-3.7-5.5	3.7-4.6-6.7	4.3-5.5-7.6	4.9-6.1-8.5	5.5-6.7-9.2	5.8-7.0-10.1
	L_{pNC}			23	30	35	40
525 x 300	$\dot{V}$ l/s	165	250	330	415	500	585
	L	2.7-4.0-5.5	4.0-4.9-6.7	4.6-5.5-7.9	5.2-6.1-8.8	5.5-6.7-9.8	6.1-7.3-10.4
	L_{pNC}			24	31	36	41



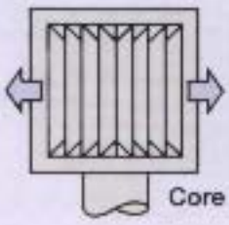
Core Style 4/ 4L - 4 Way Discharge

NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	6	12	23	38	54	73
200 x 200	V (l/s)	40	60	80	100	120	140
	L (m)	0.5-1.1-2.0	0.8-1.4-2.5	1.3-1.6-3.6	1.5-2.1-4.4	1.8-2.6-4.8	2.0-3.1-5.1
	L_{pNC}			19	25	30	34
500 x 500	V (l/s)	250	375	500	625	700	875
	L (m)	1.7-2.6-4.5	2.3-3.8-5.4	3.1-4.5-7.1	3.8-5.0-7.0	4.3-5.3-7.5	4.8-5.7-8.2
	L_{pNC}		16	25	31	36	41
500 x 350	V (l/s)	175	263	350	438	525	613
	Lx	1.1-1.7-3.5	1.6-2.4-4.3	2.1-3.2-5.2	2.6-4.0-5.8	3.2-4.5-6.3	3.9-4.8-7.0
	Ly	1.5-2.3-4.5	2.1-3.2-5.3	2.9-4.2-6.1	3.6-4.9-6.8	4.2-5.1-7.3	4.8-5.7-7.9
	L_{pNC}			22	28	33	38

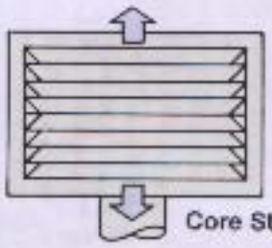
Core Style 3/ 3L - 3 Way Discharge

NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	6	12	23	38	54	73
200 x 200	V (l/s)	40	60	80	100	120	140
	Lx	0.5-1.1-2.0	0.8-1.4-2.5	1.3-1.6-3.6	1.5-2.1-4.4	1.8-2.6-4.8	2.0-3.1-5.1
	Ly	0.7-1.1-2.6	0.8-2.0-3.0	1.6-2.1-3.9	1.6-2.6-4.9	2.3-3.1-5.4	2.3-3.4-5.7
	L_{pNC}			19	25	30	34
500 x 500	V (l/s)	250	375	500	625	700	875
	Lx	1.7-2.6-4.5	2.5-3.8-5.4	3.6-4.5-6.1	3.8-5.0-7.0	4.3-5.3-7.5	4.8-5.7-8.2
	Ly	2.0-3.3-5.1	3.2-4.1-6.0	4.0-5.1-6.7	4.1-5.6-7.6	4.9-5.9-8.4	5.4-6.3-9.2
	L_{pNC}		16	25	31	36	41
500 x 350	V (l/s)	175	263	350	438	525	613
	Lx	1.1-1.7-3.5	1.6-2.4-4.3	2.1-3.2-5.2	2.6-4.0-5.8	3.2-4.5-6.3	3.9-4.8-7.0
	Ly	1.7-2.5-4.4	2.4-3.6-5.4	3.2-4.0-6.4	3.6-4.8-7.0	4.0-5.6-7.7	4.7-5.6-8.4
	L_{pNC}			22	28	33	38

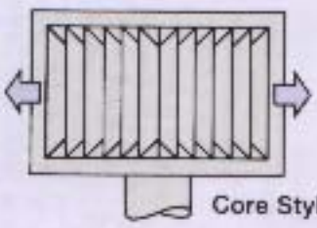
Technical Data ADTL



Core Style 2



Core Style 2L



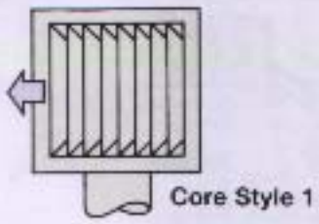
Core Style 2S

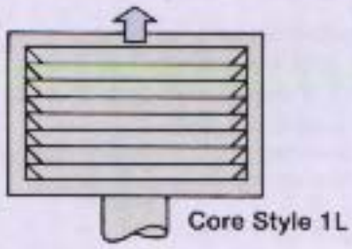
Core Style 2 - 2 Way Discharge

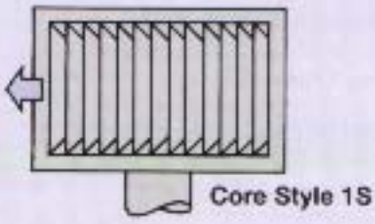
NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	6	12	23	38	54	73
200 x 200	$\dot{V}$ l/s	40	60	80	100	120	140
	L	0.6-1.1-2.2	1.2-1.8-3.6	1.6-2.6-4.6	2.1-3.2-5.1	2.7-4.0-5.7	3.0-4.4-6.1
	L_{pNC}			19	25	30	34
500 x 500	$\dot{V}$ l/s	250	375	500	625	700	875
	L	2.4-3.6-5.6	3.3-4.4-6.5	4.3-5.6-7.4	4.9-5.9-8.3	5.1-6.3-8.7	5.7-7.0-9.9
	L_{pNC}		16	25	31	36	41

Core Style 2L/ 2S - 2 Way Discharge

NECK SIZE	v_K - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	6	12	23	38	54	73
500 x 350	$\dot{V}$ l/s	175	263	350	438	525	613
	L	2.1-3.0-4.9	3.0-4.3-5.8	4.0-4.9-7.3	4.6-5.5-7.8	4.9-6.1-8.8	5.6-6.5-9.4
	L_{pNC}			22	28	33	38







Core Style 1 - 1 Way Discharge

NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	6	12	23	38	54	73
200 x 200	$\dot{V}$ l/s	40	60	80	100	120	140
	L	1.4-1.9-4.1	1.7-2.6-5.0	2.3-3.6-5.6	3.1-4.4-6.1	3.6-4.8-6.8	4.2-5.1-7.4
	L_{pwc}			19	25	30	34
500 x 500	$\dot{V}$ l/s	250	375	500	625	700	875
	L	3.4-4.6-6.5	4.3-5.4-7.3	5.1-6.1-8.6	5.6-7.1-10.0	6.0-7.5-10.4	6.7-7.1-11.8
	L_{pwc}		16	25	31	36	41

Core Style 1L/ 1S - 1 Way Discharge

NECK SIZE	v_k - m/s	1.0	1.5	2.0	2.5	3.0	3.5
	Δp_t (Pa)	6	12	23	38	54	73
500 x 350	$\dot{V}$ l/s	175	263	350	438	525	613
	L	3.3-4.6-5.8	4.6-5.2-7.0	4.9-5.8-8.5	5.5-6.4-9.4	5.8-7.0-10.8	6.7-7.6-11.0
	L_{pwc}			22	28	33	38

Flow Measurement

Air Flow Measurement

Place velocity probe in a position as shown :
For supply air : at various slots and locations.
For return air : outer slot only.
Determine the average velocity and calculate volume flow rate as shown :

$$\dot{V} = A_{eff} \times v_{eff} \times 1000$$

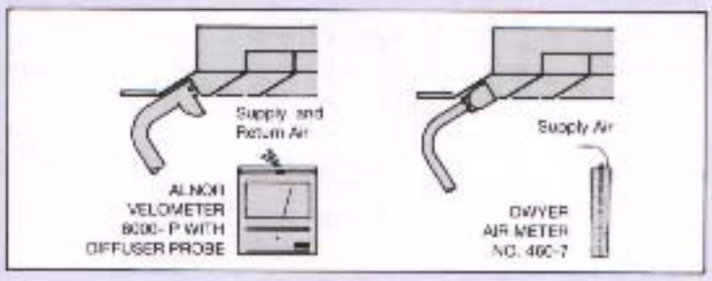
Supply and Return air with ALNOR.

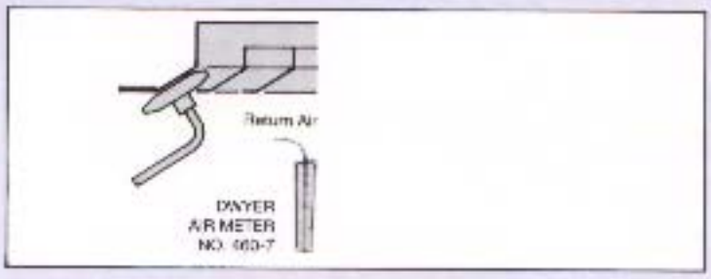
$$\dot{V} = A_{eff} \times v_{eff} \times 930$$

Supply air with DWYER.

$$\dot{V} = A_{eff} \times v_{eff} \times 1080$$

Return air with DWYER.





Effective Areas (A_{eff}) - Types ADTF . ADTC

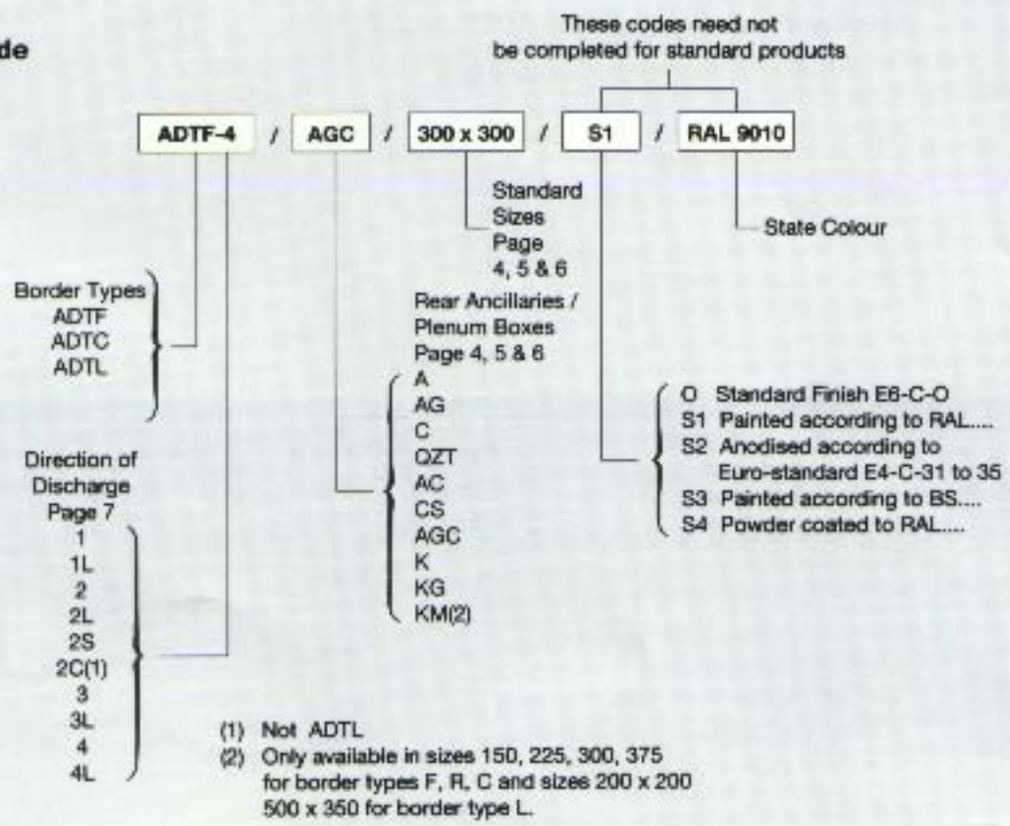
NECK SIZE	Core Style							
	1 - 2C - 4		2 - 3		2L - 3L - 4L		1L - 1S - 2S	
	Supply	Return	Supply	Return	Supply	Return	Supply	Return
150 x 150	0.007	0.007	0.006	0.006				
225 x 150					0.009	0.008	0.01	0.009
300 x 150					0.012	0.011	0.016	0.012
375 x 150					0.016	0.014	0.018	0.015
450 x 150					0.02	0.017	0.022	0.019
225 x 225	0.017	0.015	0.015	0.013				
300 x 225					0.02	0.017	0.022	0.019
375 x 225					0.026	0.021	0.028	0.023
450 x 225					0.031	0.025	0.034	0.028
525 x 225					0.037	0.03	0.04	0.032
300 x 300	0.032	0.026	0.030	0.024				
375 x 300					0.037	0.029	0.039	0.03
450 x 300					0.044	0.035	0.047	0.037
525 x 300					0.052	0.04	0.056	0.043
375 x 375	0.05	0.039	0.048	0.037				
450 x 375					0.059	0.044		
525 x 375					0.068	0.051		
450 x 450	0.074	0.055	0.071	0.053				
525 x 450					0.083	0.061		
600 x 450					0.096	0.07		
525 x 525	0.102	0.074	0.099	0.072				
600 x 600	0.135	0.095	0.131	0.092				

Effective Areas (A_{eff}) - Types ADTL

NECK SIZE	Core Style							
	1 - 4		2 - 3		2L - 3L - 4L		1L - 1S - 2S	
	Supply	Return	Supply	Return	Supply	Return	Supply	Return
200 x 200	0.013	0.011	0.011	0.010				
500 x 500	0.081	0.07	0.079	0.068				
500 x 350					0.053	0.046	0.057	0.049

Order Details

Order Code



(1) Not ADTL
(2) Only available in sizes 150, 225, 300, 375 for border types F, R, C and sizes 200 x 200 500 x 350 for border type L.

Specification Text

Square or rectangular ceiling diffuser with removable 1, 2, 3 or 4 way discharge core suitable for horizontal discharge. The diffuser core has fixed air control blades and is held securely in position by means of spring loaded pins. The perimeter border has a number of optional styles, flange for flush mounting on ceiling surface, recessed to enable flush mounting with ceiling tiles, recessed with clip fixing detail (Burgess type ceilings) or lay-in 'T' Bar. Optional ancillaries, double flap or opposed blade volume control dampers, mounted on rear of diffuser; top entry plenum boxes; dampers if required; side entry boxes; dampers if required. All plenum boxes complete with hanging brackets for suspending assembly from the ceiling slab.

Materials

The diffuser face is in extruded aluminium sections, natural anodised E6-C-O, rear ancillaries in formed sheet steel surfaces stove enamelled black (RAL 9005). The plenum box is galvanised sheet steel.

Order Example

Make : TROX
Type : ADTF-4/AGC/300 x 300