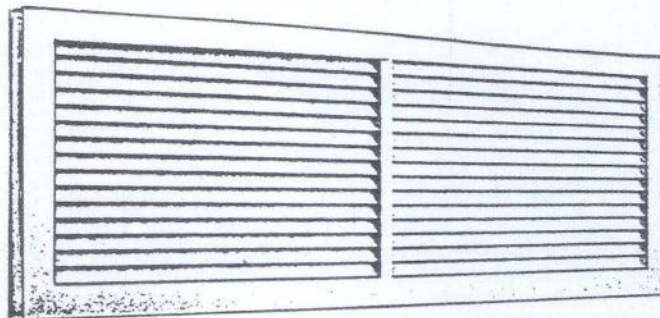
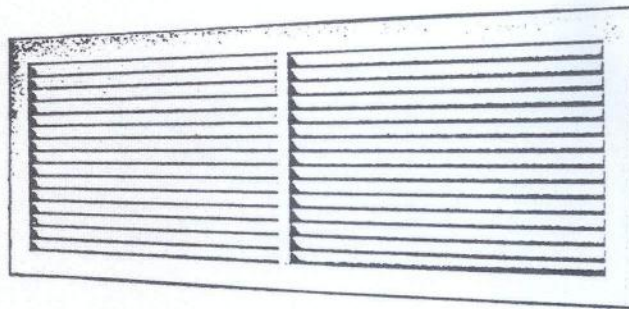


AIRTRON



CHAPTER - 05 DOOR / TRANSFER GRILLES



AIRTRON L.L.C.
P.O. BOX: 13947 DUBAI U.A.E.
TEL. : 00971 4 2672477 FAX: 00971 4 2672330
E-mail : airtron@emirates.net.ae Website : www.airtronuae.com

أرترون ذ.م.م.

As Airtron are continuously improving the products, they reserve the right to make changes without notice.

DOOR / TRANSFER GRILLES

CONTENTS

1	CONTENTS	PAGE NO. 05 - 00
2	DIMENSIONAL DATA	PAGE NO. 05 - 01
3	INSTALLATION DETAILS	PAGE NO. 05 - 02
4	PERFORMANCE DATA	PAGE NO. 05 - 03



AIRTRON L.L.C.

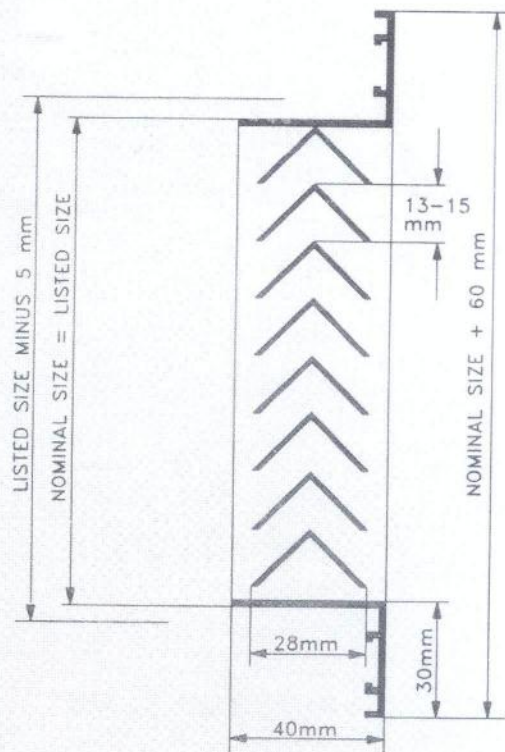
P.O. BOX: 13947 DUBAI U.A.E.

TEL. : 00971 4 2672477 FAX: 00971 4 2672330

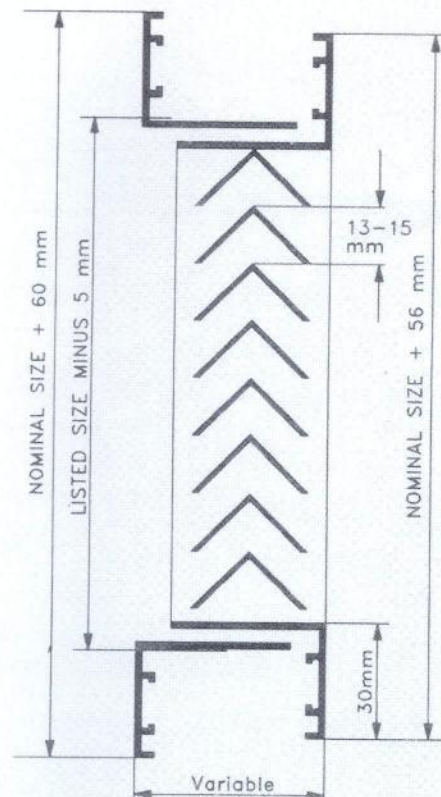
E-mail : airtron@emirates.net.ae Website : www.airtronuae.com

أرترون ذ.م.م.

DIMENSIONAL DETAILS



MODEL DTG-1



MODEL DTG-2

STANDARD MODELS:

DTG-1.....Door/Transfer grille with a fixed frame on one side.

DTG-2.....Door/Transfer grille with a fixed frame on one side and an additional removable frame on other side

INTRODUCTION:

"AIRTRON" Door/Transfer grilles are manufactured to give largest free area possible with a complete vision proof inverted "V" core design and are mostly used in doors, partitions and also in place of Exhaust and Return air where interior of duct or plenum should not be visible (non vision)

Constructed out of extruded aluminium sections the inverted "V" louvre cross section blocks the vision and provide rigidity, being installed in the lower portion of the door, it withstands knocks and bumps and assures long service and smart looks.

counter sunk screw holes are provided as Standard for flush heads with border surface.

"AIRTRON" Door/Transfer grilles are available in all the standard sizes as per table:

L mm	100	200	300	400	500	600	700	800	900	1000
W mm	100	200	300	400	500	600	700			

Door/Transfer grilles are also available in 50mm increments.



AIRTRON L.L.C.

P.O. BOX: 13947 DUBAI U.A.E.

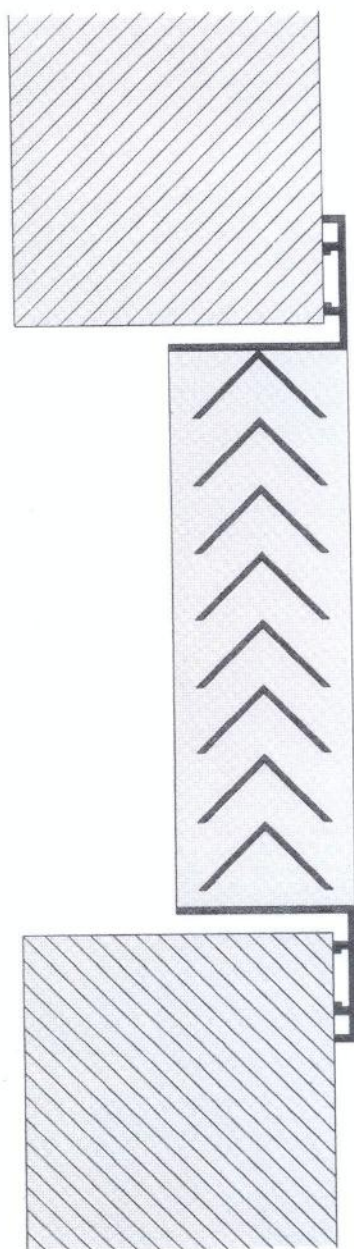
TEL. : 00971 4 2672477 FAX: 00971 4 2672330

E-mail : airtron@emirates.net.ae Website : www.airtronuae.com

أرترون ذ.م.م.

As Airtron are continuously improving the products, they reserve the right to make changes without notice.

INSTALLATION DETAILS



MODEL DTG-1 installed
on a wall.



MODEL DTG-2 installed
on a door/partition

AVAILABLE FINISHES

- *.....Natural anodised aluminium.
- *.....Powder coated colour finish.
- *.....Golden/Bronze anodised aluminium.

ORDERING PROCEDURES

Example

1 (Model no.)	2 (size)	3 (quantity)	4 (fixing)	5 (finish)
DTG-1	600x300	17	"S" (standard)	POWDER COATED



AIRTRON L.L.C.

P.O. BOX: 13947 DUBAI U.A.E.

TEL. : 00971 4 2672477 FAX: 00971 4 2672330

E-mail : airtron@emirates.net.ae Website : www.airtronuae.com

أرترون ذ.م.م.

As Airtron are continuously improving the products, they reserve the right to make changes without notice.

PERFORMANCE DATA

SELECTION TABLES**Models : DTG-1 & DTG-2**

Ak m ²	0.020	0.025	0.035	0.041	0.060	0.074	0.083	0.092	0.100	0.120	0.145	0.166	0.180	0.221
Vk (m/s)	Air volume l/s													
1	20	25	35	41	60	74	83	92	100	120	145	166	180	221
1.5	30	38	53	62	90	111	125	138	150	180	218	249	270	332
2	40	50	70	82	120	148	166	184	200	240	290	332	360	442
2.5	50	63	88	102	150	185	207	230	250	300	362	415	450	552
3	60	76	106	124	180	222	250	276	300	360	436	498	540	664
3.5	70	88	122	144	210	259	290	322	350	420	507	581	630	773
4	80	100	140	164	240	296	332	368	400	480	580	664	720	884

Effective free area Ak (m²)

Nominal Size											
mm	100	150	200	250	300	350	400	450	500	600	
150	0.007	0.010									
200	0.009	0.014	0.018								
250	0.012	0.017	0.023	0.029							
300	0.014	0.020	0.028	0.035	0.041						
350	0.016	0.024	0.032	0.040	0.048	0.056					
400	0.018	0.028	0.037	0.046	0.055	0.064	0.074				
450	0.020	0.031	0.041	0.052	0.062	0.072	0.083	0.093			
500	0.023	0.035	0.046	0.058	0.069	0.081	0.092	0.104	0.115		
550	0.025	0.038	0.051	0.063	0.076	0.089	0.100	0.114	0.127	0.152	
600	0.028	0.040	0.055	0.069	0.083	0.097	0.110	0.124	0.138	0.167	
650			0.060	0.075	0.090	0.104	0.120	0.135	0.150	0.179	
700			0.064	0.081	0.097	0.113	0.129	0.145	0.161	0.193	
750				0.086	0.104	0.121	0.138	0.155	0.173	0.207	
800				0.092	0.110	0.129	0.147	0.166	0.184	0.221	
850				0.098	0.117	0.137	0.156	0.176	0.196	0.235	
900					0.124	0.145	0.166	0.186	0.207	0.248	
950					0.131	0.153	0.175	0.197	0.219	0.262	
1000					0.138	0.161	0.184	0.207	0.230	0.276	

NOMENCLATURE

Air Volume :

Air volume is given in l/sec.

Discharge velocity Vk:

The effective discharge velocity is given in m/sec. and is related to the corresponding air volumes (qv) and effective free area (Ak)

Effective free area Ak:

Indicated in m² within a tolerance of + 10%**AIRTRON L.L.C.**

P.O. BOX: 13947 DUBAI U.A.E.

TEL : 00971 4 2672477 FAX: 00971 4 2672330

E-mail : airtron@emirates.net.ae Website : www.airtronuae.com

As Airtron are continuously improving the products, they reserve the right to make changes without notice.

أرترون ذ.م.م.

SUGGESTED DESIGN LEVELS FOR SOUND CONTROL IN AIR-CONDITIONING SYSTEM

		Range of sound levels dB A	Range of NC curves NC
Large buildings.	Radio and TV studios.....	25-30	20-25
	Concert and opera halls.....	25-35	20-30
	Churches.....	25-35	20-30
	Theaters, Multipurpose halls.....	25-35	20-30
	Libraries, Museums.....	25-35	20-30
	Schools, Classrooms.....	30-40	25-35
	Cinemas.....	35-45	30-40
	Banquet halls.....	40-50	35-45
Hospitals.	Private rooms.....	30-40	25-35
	Operation Theaters.....	35-45	30-40
	Halls, Laboratories.....	35-45	30-40
	Waiting rooms.....	40-50	35-45
Offices.	Board rooms.....	25-35	20-30
	Conference rooms.....	30-40	25-35
	Executive offices.....	35-45	30-40
	General open offices.....	35-45	30-40
	Typing pools.....	40-50	35-45
	Computer rooms.....	45-65	40-55
Hotels, Restaurants and stores	Rooms.....	30-40	25-35
	Restaurants.....	35-45	30-40
	Halls, lobbies.....	35-45	30-40
	Stores.....	40-50	35-45
	Supermarkets.....	45-55	40-50
Residential Buildings	Single Family homes (rural and suburban).....	25-35	20-30
	Single Family homes (urban).....	30-40	25-35
	Apartment buildings.....	35-45	30-40
Factories	Light machinery, assembly lines.....	50-70	45-65
	Foundries, heavy machinery.....	60-80	55-75
Damage risk criteria		90	85


AIRTRON L.L.C.

P.O. BOX: 13947 DUBAI U.A.E.

TEL. : 00971 4 2672477 FAX: 00971 4 2672330

 E-mail : airtron@emirates.net.ae Website : www.airtronuae.com

أرترون ذ.م.م.

As Airtron are continuously improving the products, they reserve the right to make changes without notice.