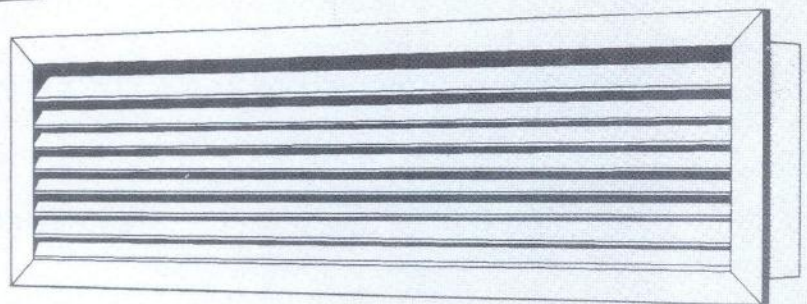
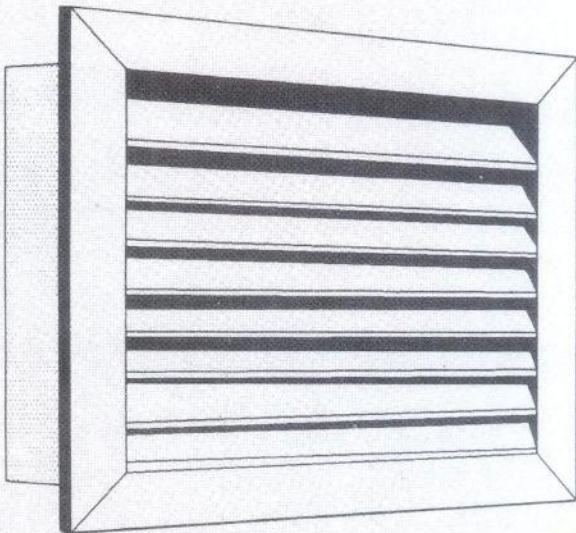


# AIRTRON



## CHAPTER - 07 EXTERNAL LOUVERS



**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](mailto:airtron@emirates.net.ae) Website : [www.airtronuae.com](http://www.airtronuae.com)

أرترون ذ.م.م.

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

# EXTERNAL LOUVRES

## CONTENTS

|   |                               |                  |
|---|-------------------------------|------------------|
| 1 | CONTENTS                      | PAGE NO. 07 - 00 |
| 2 | INTRODUCTION                  | PAGE NO. 07 - 01 |
| 3 | DIMENSIONAL DATA              | PAGE NO. 07 - 02 |
| 4 | DIMENSIONAL DATA              | PAGE NO. 07 - 03 |
| 5 | PERFORMANCE DATA (AK FACTORS) | PAGE NO. 07 - 04 |
| 6 | PERFORMANCE DATA (Ratings)    | PAGE NO. 07 - 05 |
| 7 | ORDERING PROCEDURES           | PAGE NO. 07 - 06 |



**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](mailto:airtron@emirates.net.ae) Website : [www.airtronuae.com](http://www.airtronuae.com)

أرترون ذ.م.م.

## SILENT FEATURES

"AIRTRON" External louvres are manufactured to highest standards and designed for both Intake and Exhaust air applications.

Blades are firmly riveted to main frame by means of suitable 'L' sections to give rigid and strong construction for Industrial and commercial use to give effective weather protection and long life.

The frames and the blades are manufactured from high quality extruded aluminium in Natural Anodised finish.

The blades are inclined at 45° on a 30mm-35mm pitch to minimise water ingress and effective weather protection.

The Bird screen and the insect screen in galvanised steel is optional.

The available Filter thickness is 12.5mm and 25mm.

"AIRTRON" External louvres are available in maximum length and width upto 1200mm and shall be supplied in various sections with central partitions as per required length and width.

## AVAILABLE STANDARD SIZES

|   |     |     |     |     |     |     |     |     |      |      |      |      |
|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| L | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |      |
| W | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900  | 1000 | 1100 | 1200 |

"AIRTRON" External louvres are also available in 50mm increments.

## AVAILABLE STANDARD TYPES & MODELS

| MODEL | NOMENCLATURE | ACCESSORIES                            |
|-------|--------------|--|
| EL    | "B"          | Bird Screen                            |
|       | "S"          | Insect Screen                          |
|       | "V"          | Volume Control Damper                  |
|       | "F"          | 12.5mm/25mm Filter                     |
|       | "FV"         | Combine Filter & volume Control Damper |
|       | "T"          | Twin / Double Bank                     |



**AIRTRON L.L.C.**

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

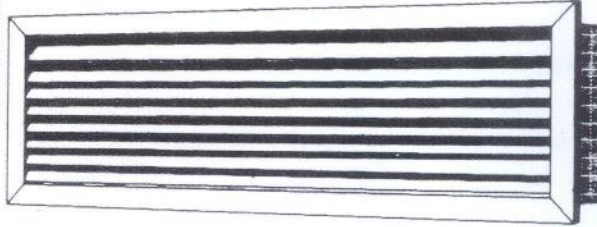
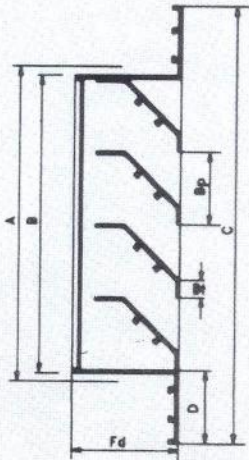
TEL. : 00971 4 2672477 FAX: 00971 4 2672330

E-mail : [airtron@emirates.net.ae](mailto:airtron@emirates.net.ae) Website : [www.airtronuae.com](http://www.airtronuae.com)

أرترون ذ.م.م.

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

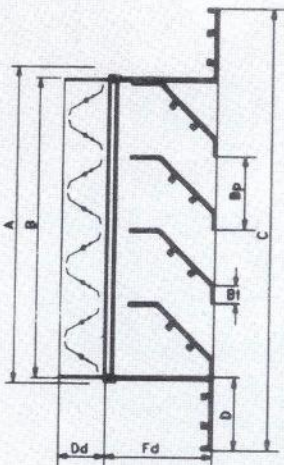
## DIMENSIONAL DETAILS

**MODEL: EL-B & EL-S**

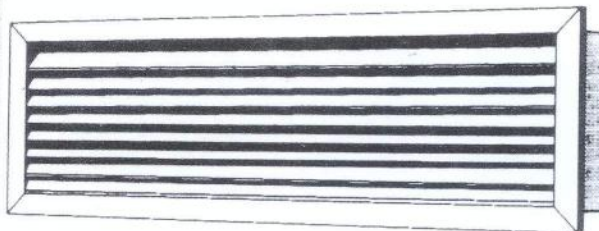
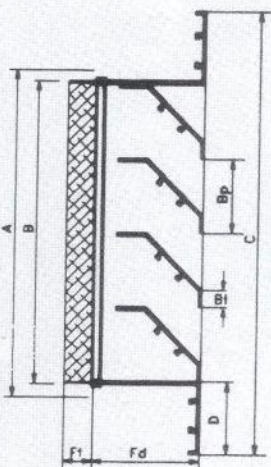
"AIRTRON" Models EL-B & EL-S are Exhaust or intake air louvres fitted with bird screen & insect screen respectively.

**CONSTRUCTIONAL DETAILS**

|    |                                  |
|----|----------------------------------|
| A  | Nominal size (L x W)             |
| B  | Neck size (L-10) x (W-10)        |
| C  | Over all size (B+60)             |
| D  | Frame width = 30mm               |
| Bp | Blade pitch = 30-35mm            |
| Bt | Blade tip = 6mm                  |
| Fd | frame depth = 45mm               |
| Dd | damper depth = 30mm              |
| Ft | filter thickness = 12.5mm - 25mm |

**MODEL: EL-V**

"AIRTRON" Model EL-V is an Exhaust or intake air louvre fitted with opposed blade volume control damper and bird or insect screen.

**MODEL: EL-F**

"AIRTRON" Model EL-F is an Exhaust or intake air louvre fitted with a removable type washable air filter. The thickness of the filter is 12.5mm - 25mm



**AIRTRON L.L.C.**

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

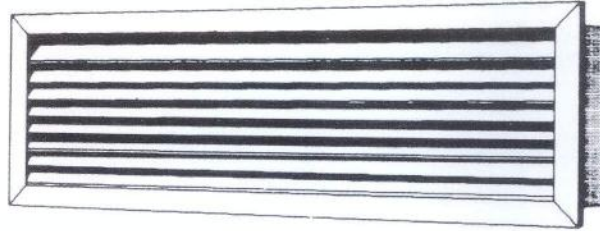
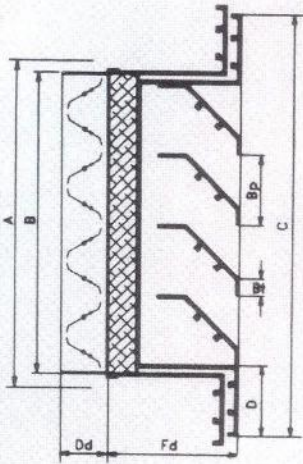
TEL. : 00971 4 2672477 FAX: 00971 4 2672330

E-mail : [airtron@emirates.net.ae](mailto:airtron@emirates.net.ae) Website : [www.airtronuae.com](http://www.airtronuae.com)

أرترون ذ.م.م.

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

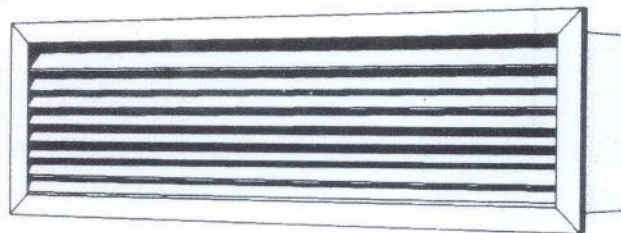
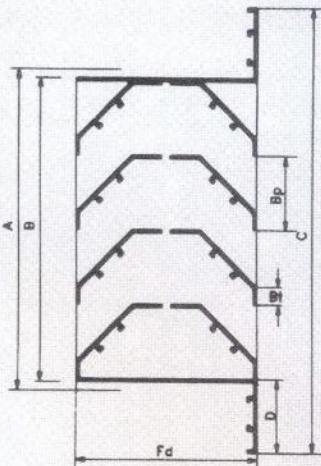
## DIMENSIONAL DETAILS

**MODEL: EL-FV**

"AIRTRON" Model EL-FV is an Exhaust or intake air louvre complete with a removable type washable filter and opposed Blade Volume Control Damper. The Damper can easily be operated with a screw driver from the face of the louvre after removal of the frame.

**CONSTRUCTIONAL DETAILS**

|    |                                  |
|----|----------------------------------|
| A  | Nominal size (L x W)             |
| B  | Neck size (L-10) x (W-10)        |
| C  | Over all size (B+60)             |
| D  | Frame width = 30mm               |
| Bp | Blade pitch = 30-35mm            |
| Bt | Blade tip = 6mm                  |
| Fd | frame depth = 85mm               |
| Dd | damper depth = 30mm              |
| Ft | filter thickness = 12.5mm - 25mm |

**MODEL: EL-T**

"AIRTRON" Model EL-T is an Exhaust or intake air louvre having dual bank of louvres.

the louvres are fixed on either side of the frame, to be used for variable weather conditions.



**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](mailto:airtron@emirates.net.ae) Website : [www.airtronusae.com](http://www.airtronusae.com)

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

أرترون ذ.م.م.

## PERFORMANCE DATA

Selection tables for External louvres Model EL-B, S, F, V, FV  
Effective free area Ak (m<sup>2</sup>)

| Nominal Size | 300   | 350   | 400   | 450   | 500   | 550   | 600   | 650   | 700   | 750   | 800   | 850   | 900   | 1000  | 1100  | 1200  |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 300          | 0.028 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 350          | 0.034 | 0.040 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 400          | 0.038 | 0.045 | 0.052 |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 450          | 0.045 | 0.053 | 0.061 | 0.069 |       |       |       |       |       |       |       |       |       |       |       |       |
| 500          | 0.050 | 0.060 | 0.068 | 0.077 | 0.087 |       |       |       |       |       |       |       |       |       |       |       |
| 550          | 0.057 | 0.067 | 0.077 | 0.087 | 0.097 | 0.101 |       |       |       |       |       |       |       |       |       |       |
| 600          | 0.060 | 0.072 | 0.080 | 0.091 | 0.101 | 0.118 | 0.129 |       |       |       |       |       |       |       |       |       |
| 650          | 0.067 | 0.080 | 0.091 | 0.101 | 0.117 | 0.121 | 0.141 | 0.151 |       |       |       |       |       |       |       |       |
| 700          | 0.073 | 0.086 | 0.100 | 0.110 | 0.126 | 0.141 | 0.153 | 0.165 | 0.179 |       |       |       |       |       |       |       |
| 750          | 0.079 | 0.093 | 0.108 | 0.121 | 0.136 | 0.151 | 0.161 | 0.171 | 0.191 | 0.201 |       |       |       |       |       |       |
| 800          | 0.084 | 0.100 | 0.115 | 0.131 | 0.146 | 0.161 | 0.175 | 0.191 | 0.201 | 0.221 | 0.232 |       |       |       |       |       |
| 850          | 0.091 | 0.107 | 0.123 | 0.141 | 0.156 | 0.171 | 0.187 | 0.201 | 0.221 | 0.237 | 0.252 | 0.263 |       |       |       |       |
| 900          | 0.096 | 0.110 | 0.130 | 0.148 | 0.166 | 0.181 | 0.201 | 0.211 | 0.231 | 0.251 | 0.262 | 0.283 | 0.032 |       |       |       |
| 1000         | 0.108 | 0.126 | 0.144 | 0.162 | 0.180 | 0.198 | 0.216 | 0.234 | 0.252 | 0.274 | 0.292 | 0.31  | 0.333 | 0.37  |       |       |
| 1100         | 0.119 | 0.139 | 0.158 | 0.178 | 0.198 | 0.218 | 0.238 | 0.257 | 0.277 | 0.305 | 0.326 | 0.346 | 0.371 | 0.412 | 0.454 |       |
| 1200         | 0.132 | 0.153 | 0.175 | 0.197 | 0.219 | 0.241 | 0.263 | 0.285 | 0.306 | 0.337 | 0.36  | 0.383 | 0.41  | 0.456 | 0.502 | 0.547 |

### NOMENCLATURE

Effective free area Ak:

Indicated in m<sup>2</sup> 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](mailto:airtron@emirates.net.ae) Website : [www.airtronuae.com](http://www.airtronuae.com)

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

أرترون ذ.م.م.

## PERFORMANCE DATA

Selection tables for External louvres Model EL  
(Ratings without Filter )

| Ak (m2) | Air Volume qv. (l / sec.) |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         | 0.026                     | 0.04 | 0.061 | 0.087 | 0.118 | 0.141 | 0.165 | 0.191 | 0.221 | 0.237 | 0.252 | 0.283 | 0.302 | 0.370 | 0.454 | 0.547 |
| 1.00    | 28                        | 40   | 61    | 87    | 118   | 141   | 165   | 191   | 221   | 237   | 252   | 283   | 302   | 370   | 454   | 547   |
| 1.25    | 35                        | 50   | 76    | 109   | 148   | 176   | 206   | 239   | 276   | 296   | 315   | 354   | 378   | 463   | 568   | 684   |
| 1.50    | 42                        | 60   | 92    | 131   | 177   | 212   | 248   | 287   | 332   | 356   | 378   | 425   | 453   | 555   | 681   | 821   |
| 1.75    | 49                        | 70   | 107   | 152   | 207   | 247   | 289   | 334   | 387   | 415   | 441   | 495   | 529   | 648   | 795   | 957   |
| 2.00    | 56                        | 80   | 122   | 174   | 236   | 282   | 330   | 382   | 442   | 474   | 504   | 566   | 604   | 740   | 908   | 1094  |
| 2.25    | 63                        | 90   | 137   | 196   | 266   | 317   | 371   | 430   | 497   | 533   | 567   | 637   | 680   | 833   | 1022  | 1231  |
| 2.50    | 70                        | 100  | 153   | 218   | 295   | 353   | 413   | 478   | 553   | 593   | 630   | 708   | 755   | 925   | 1135  | 1368  |
| 2.75    | 77                        | 110  | 168   | 239   | 325   | 388   | 454   | 525   | 608   | 652   | 693   | 778   | 831   | 1018  | 1249  | 1504  |
| 3.00    | 84                        | 120  | 183   | 261   | 354   | 423   | 496   | 573   | 663   | 711   | 756   | 849   | 906   | 1110  | 1362  | 1641  |
| 3.25    | 91                        | 130  | 198   | 283   | 384   | 458   | 536   | 621   | 718   | 770   | 819   | 920   | 982   | 1203  | 1476  | 1778  |
| 3.50    | 98                        | 140  | 214   | 305   | 413   | 494   | 578   | 669   | 774   | 830   | 882   | 991   | 1057  | 1295  | 1589  | 1915  |
| 3.75    | 105                       | 150  | 229   | 326   | 443   | 529   | 619   | 716   | 829   | 889   | 945   | 1061  | 1133  | 1388  | 1703  | 2051  |
| 4.00    | 112                       | 160  | 244   | 346   | 472   | 564   | 660   | 764   | 884   | 948   | 1008  | 1132  | 1208  | 1480  | 1816  | 2188  |

### NOMENCLATURE

**Air Volume qv :** Air volume is given in l/sec.

**Discharge velocity V<sub>k</sub>:** 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 m<sup>2</sup> within a tolerance of + 10%



**AIRTRON L.L.C.**

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

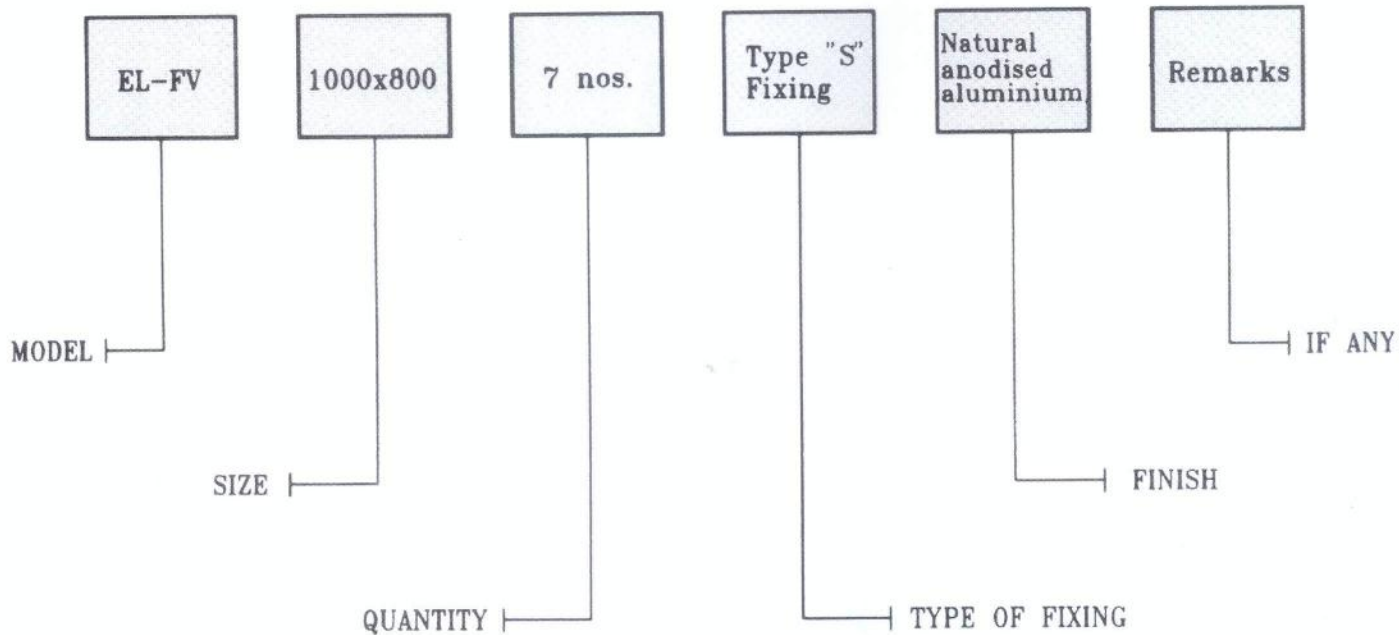
TEL. : 00971 4 2672477 FAX: 00971 4 2672330

E-mail : [airtron@emirates.net.ae](mailto:airtron@emirates.net.ae) Website : [www.airtronusae.com](http://www.airtronusae.com)

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

أرترون ذ.م.م.

# ORDERING PROCEDURES



### FIXING DETAILS

Counter sunk screw fixing type "S" is standard  
Recommended for side wall or sill fixing.

### AVAILABLE FINISH

- \*.....Powder Coated colour Finish
- \*.....Natural Anodised Aluminium
- \*.....Mill finish Aluminium
- \*.....Bronze Anodised



**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](mailto:airtron@emirates.net.ae) Website : [www.airtronuae.com](http://www.airtronuae.com)

أرترون ذ.م.م.