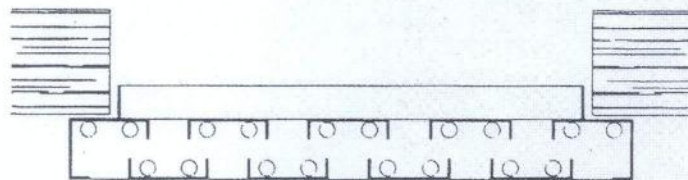
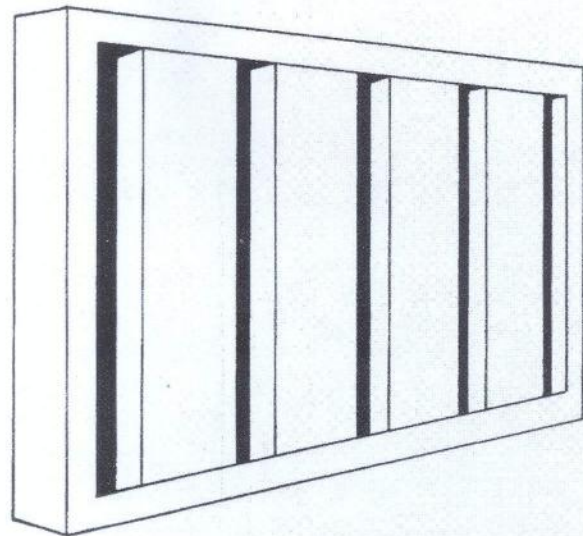
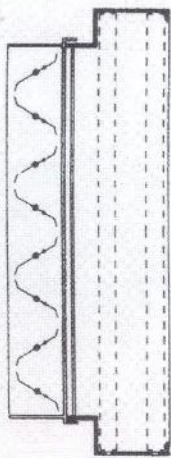


AIRTRON



CHAPTER - 08 (A) SAND TRAP LOUVRES



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

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SAND TRAP LOUVRES

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SAND TRAP LOUVRES

"AIRTRON" Sand Trap Louvres are manufactured to highest standards and designed to separate dust and sand from air stream at low velocities and moderate pressure drop, it will separate up to 80% of solid particals held in atmosphere.

SILENT FEATURES

- #....."AIRTRON" Sand Trap Louvres are available in two different type of construction of Mill finish aluminium and Galvanised sheet steel.
- #....."AIRTRON" Sand Trap Louvres are provided with a self emptying base plate and a "Z" profile in case of multiple units installation one above other.
- #....."AIRTRON" Sand Trap Louvres can be provided with a detachable filter of 25mm/50mm thickness for better filtration
- #....."AIRTRON" Sand Trap Louvres can also be provided with a Opposed blade volume Control Damper for possitive air volume control.

AVAILABLE STANDARD SIZES

(any combination of LxH)

L mm	300	450	600	750	900	1050	1200	1350	1500	
H mm	150	300	450	600	750	900	1050	1200	1350	1500

Other "H" sizes are available in 50mm increaments.

AVAILABLE STANDARD TYPES & MODELS

MODEL	NOMENCLATURE	ACCESSORIES
LST	"LST"	Standard Sand Trap louvre
	"B"	Bird Screen
	"S"	Insect Screen
	"V"	Volume Control Damper
	"F"	25mm/50mm Filter
	"FV"	Combine Filter and Volume Control Damper



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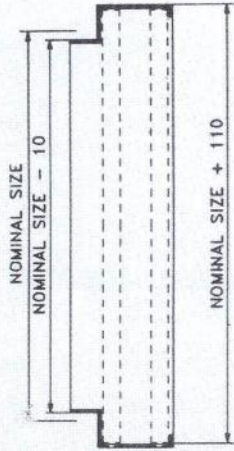
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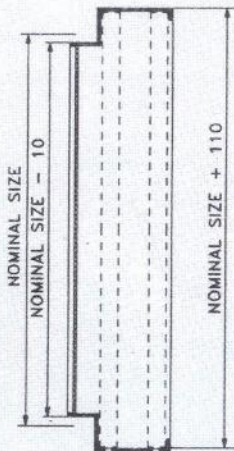
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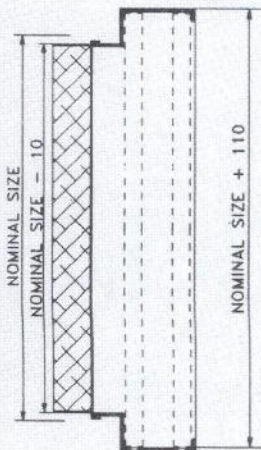
DIMENSIONAL DETAILS

MODEL: LST

"AIRTRON" Models LST is an air intake Sand Trap louvre manufactured out of Aluminium (Suffix "A") or Galvanised steel sheet (Suffix "S")

MODEL: LST-B & LST-S

"AIRTRON" Models LST is an air intake Sand Trap louvre same as LST model but with Bird Screen or Insect Screen respectively as accessory.

MODEL: LST-F

"AIRTRON" Models LST is an air intake Sand Trap louvre same as LST model but is provided with a removable type aluminium Filter as accessory.

The Filter thickness available is 25mm & 50mm.



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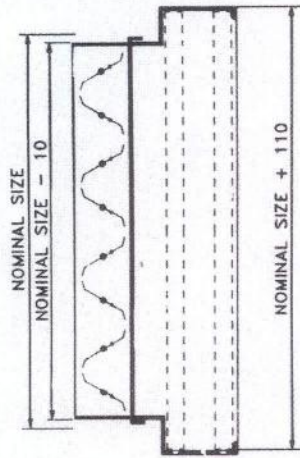
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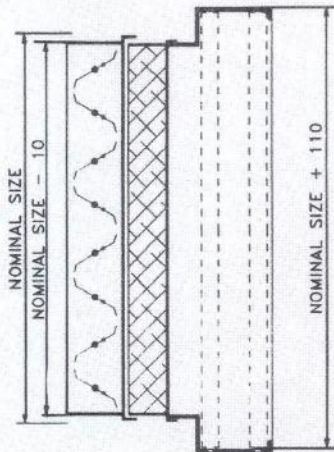
DIMENSIONAL DETAILS



MODEL: LST-V

"AIRTRON" Models LST-V is an air intake Sand Trap louvre same as LST model but with an Opposed Blade Volume Control Damper.

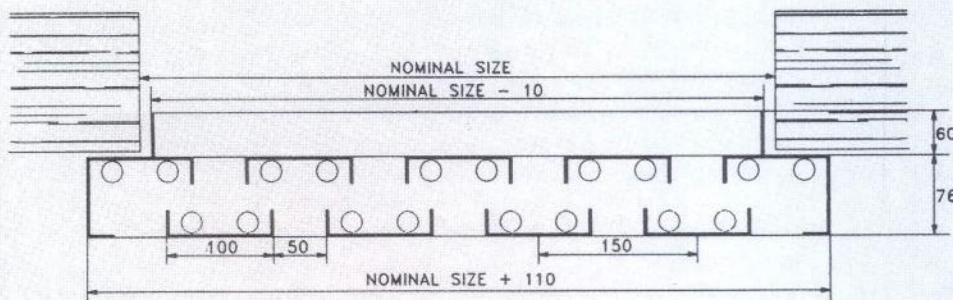
The Damper can be operated through a lever projected out side.



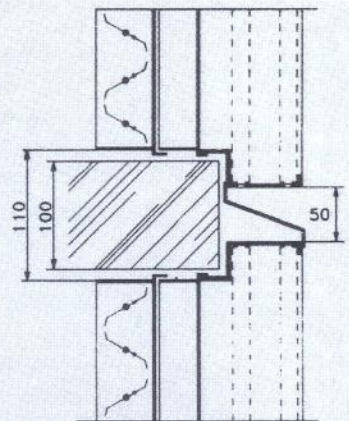
MODEL: LST-FV

"AIRTRON" Models LST-FV is an air intake Sand Trap louvre same as LST-F model but with an Opposed Blade Volume Control Damper.

The Damper can be operated through a lever projected out side.



HORIZONTAL SECTION



"Z" Profile to combine the mounting of units one above the other to enable the outflow of solid particles.



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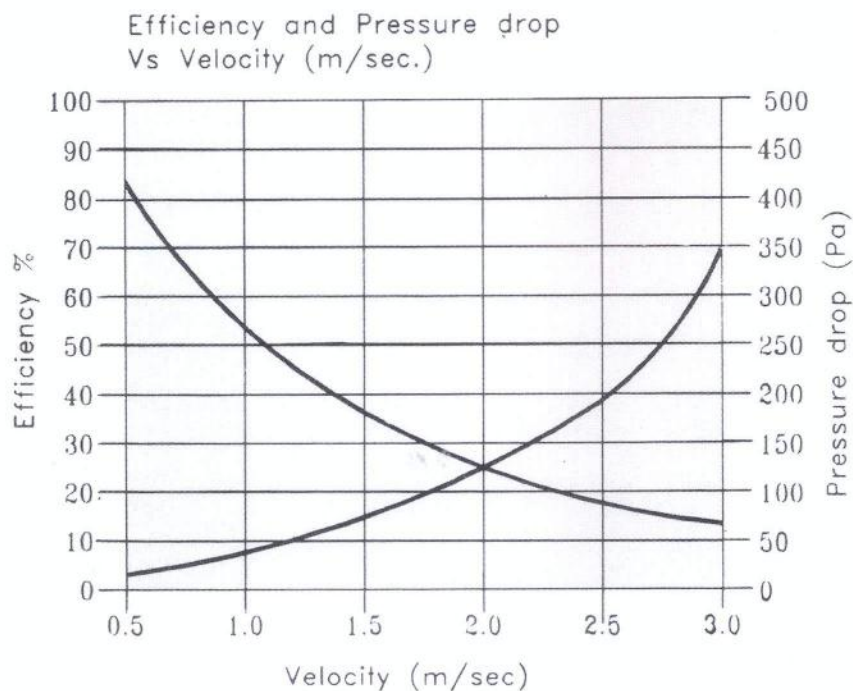
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PERFORMANCE DATA

SELECTION TABLES

For "AIRTRON" Sand Trap Louvres Model LST-"B" / "S" / "V" / "F" / "FV"

EFFECTIVE PRESSURE AREA A_k (m²)

LxH mm	300	450	600	750	900	1050	1200	1350	1500
150	0.014	0.022	0.029	0.036	0.043	0.050	0.058	0.065	0.072
300	0.029	0.043	0.058	0.072	0.086	0.101	0.115	0.130	0.144
450		0.065	0.086	0.108	0.130	0.151	0.173	0.194	0.216
600			0.115	0.144	0.173	0.202	0.230	0.259	0.288
750				0.180	0.216	0.252	0.288	0.324	0.360
900					0.259	0.302	0.346	0.389	0.432
1050						0.353	0.403	0.454	0.504
1200							0.461	0.518	0.576
1350								0.583	0.648
1500									0.720



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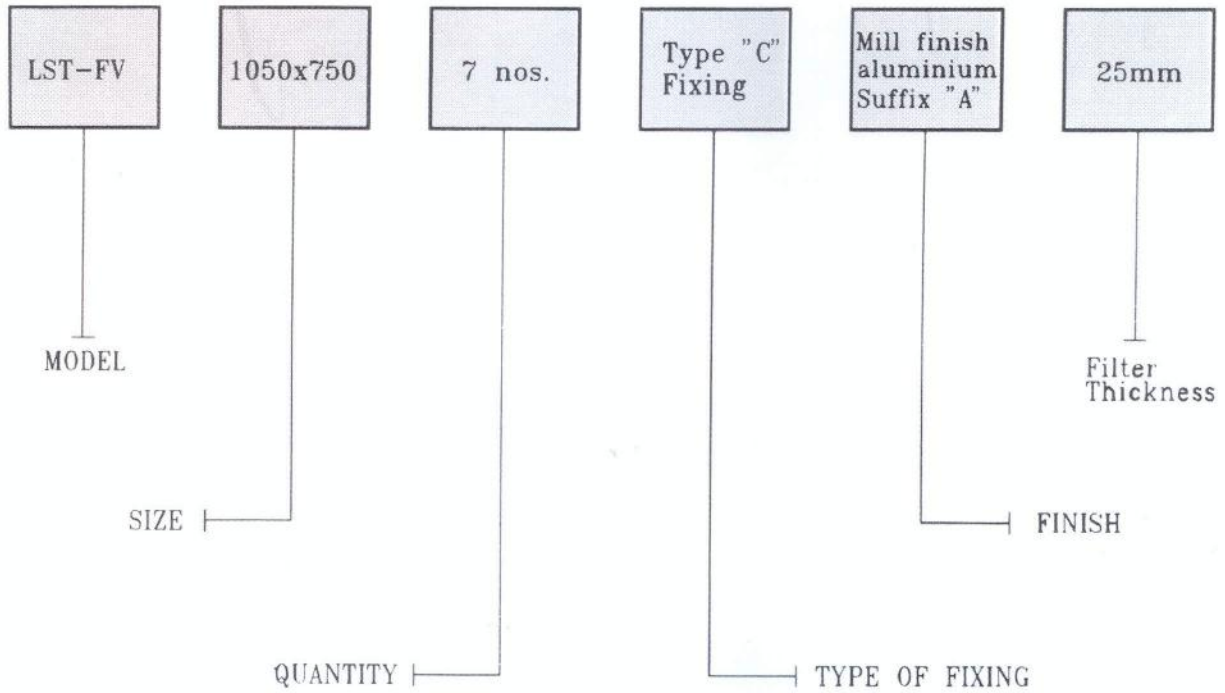
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ORDERING PROCEDURES

AVAILABLE FINISH

- *.....Mill Finish Aluminium (Suffix "A")
- *.....Galvanised Sheet Steel (Suffix "S")
- *.....Powder Coated Colour Finish.

FIXING DETAILS

- *.....Concealed type Fixing (Suffix "C")
is Standard supply.
- *.....Recommended for side wall installation.

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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



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