



L12 Sand Trap Louver

Definition:

Sand Trap Louver is used to filtrate sand or large particles to reduce dust loads in the main system. Surface of the louver is fixed flush with the plane of the wall. Composed of two sets of inverted U-channels mounted vertically in two opposite rows. The filtered sand will be drained through a sand chute. Sand chute is an inclined tray fixed at the bottom of the louver for the purpose of draining sand. These are designed to operate at medium and high velocities with high dust holding capacity at low resistance of air flow.



Construction:

i) Stationary Louvers

Prime quality extruded Aluminium profiles / Galvanized iron / Stainless Steel with Powder Coat Finish (Stainless steel in mill finish)

ii) Bird Screen wire mesh protection

Description:

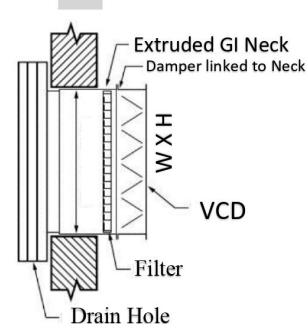
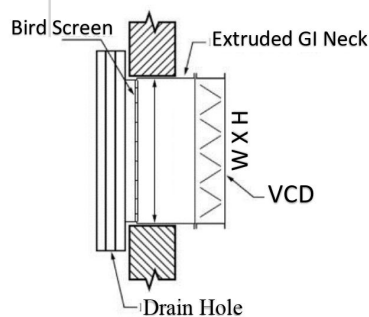
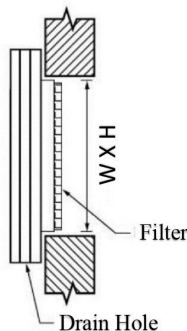
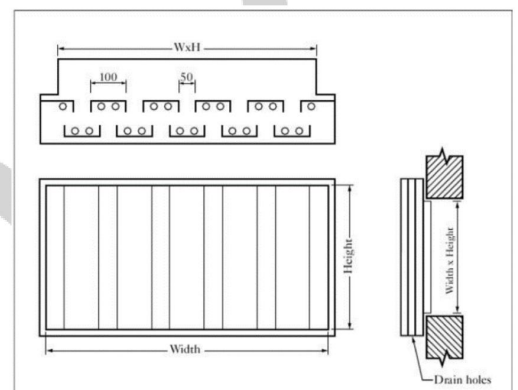
Louver is composed of two sets of inverted U channels mounted vertically on two opposite sides.

Drain holes of diameter 20mm are provided in bottom of louver for emptying sand dust.

These louvers are generally used in ventilation applications and fresh air inlet duct.

Fixed with washable/aluminium mesh filters (Optional)

Fixed with removable volume control damper to control the air flow passing through



Technical Data Sheet



AirQon Synergies

Performance Rating

Particle Size	Efficiency Percentage (%)
Upto 70 micron	50
71 to 200 micron	80
201 to 700 micron	90

Face Velocity in (m/sec)	1.25	1.5	2.0	2.5	3.0	3.5	3.75	4.0	4.5
Exhaust in mm of H ₂ O	0.248	0.331	0.564	0.814	1.151	1.595	1.825	2.143	3.290
Intake in mm of H ₂ O	-0.350	-0.570	-0.830	-1.210	-1.690	-2.350	-2.690	-3.270	-3.850

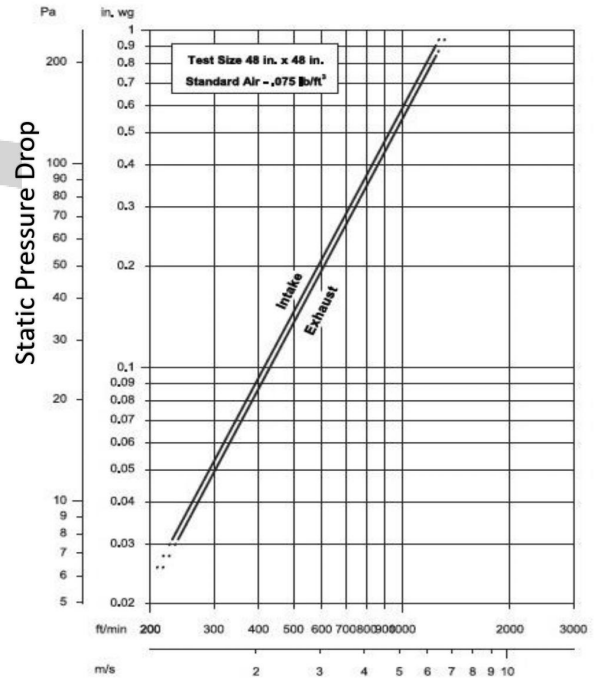
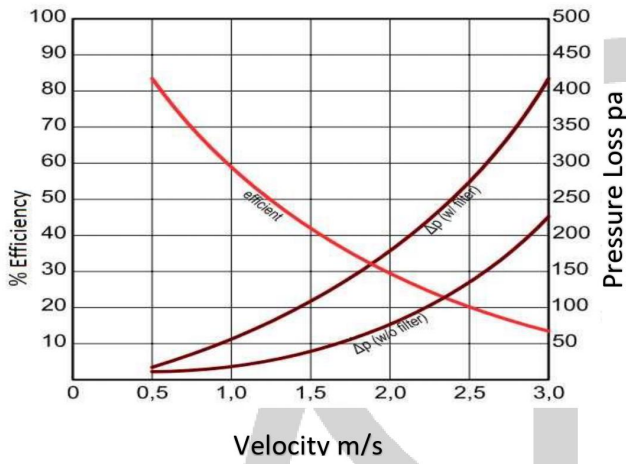
Effective Pressure Area in m²

Height in mm	Width in mm													
	300	350	400	450	500	550	600	650	700	750	800	850	900	1000
300	0.038	0.049	0.055	0.063	0.069	0.077	0.084	0.091	0.098	0.105	0.111	0.119	0.125	0.139
350	0.049	0.057	0.065	0.073	0.082	0.089	0.097	0.106	0.1114	0.122	0.13	0.138	0.147	0.163
400	0.055	0.065	0.074	0.084	0.093	0.102	0.111	0.121	0.13	0.14	0.148	0.158	0.167	0.186
450	0.063	0.073	0.084	0.094	0.105	0.115	0.125	0.136	0.146	0.156	0.167	0.178	0.188	0.209
500	0.069	0.082	0.093	0.105	0.116	0.128	0.139	0.152	0.163	0.175	0.186	0.198	0.209	0.23
550	0.077	0.089	0.102	0.115	0.128	0.14	0.153	0.166	0.179	0.191	0.204	0.218	0.23	0.256
600	0.084	0.097	0.111	0.125	0.139	0.153	0.167	0.181	0.195	0.209	0.223	0.237	0.251	0.279
650	0.091	0.106	0.121	0.136	0.152	0.166	0.181	0.196	0.212	0.227	0.242	0.257	0.272	0.302
700	0.098	0.114	0.13	0.146	0.163	0.179	0.195	0.212	0.228	0.244	0.26	0.277	0.293	0.325
750	0.105	0.122	0.14	0.156	0.175	0.191	0.209	0.227	0.244	0.261	0.279	0.296	0.314	0.349
800	0.11	0.13	0.148	0.167	0.186	0.204	0.223	0.242	0.26	0.279	0.297	0.316	0.335	0.372
850	0.119	0.138	0.158	0.178	0.197	0.217	0.237	0.257	0.277	0.296	0.316	0.335	0.356	0.395
900	0.125	0.147	0.167	0.188	0.209	0.23	0.251	0.272	0.293	0.314	0.335	0.356	0.376	0.418
1000	0.139	0.163	0.186	0.21	0.23	0.256	0.279	0.302	0.325	0.349	0.372	0.395	0.418	0.464

Technical Data Sheet



AirQon Synergies



Free Air Velocity