

# Technical Data Sheet



AirQon Synergies

## L12 Stationary Louver

### Construction:

i) Stationary Louvers

Prime quality extruded Aluminium profiles with Powder Coat Finish

ii) Bird Screen wire mesh protection

### Description:

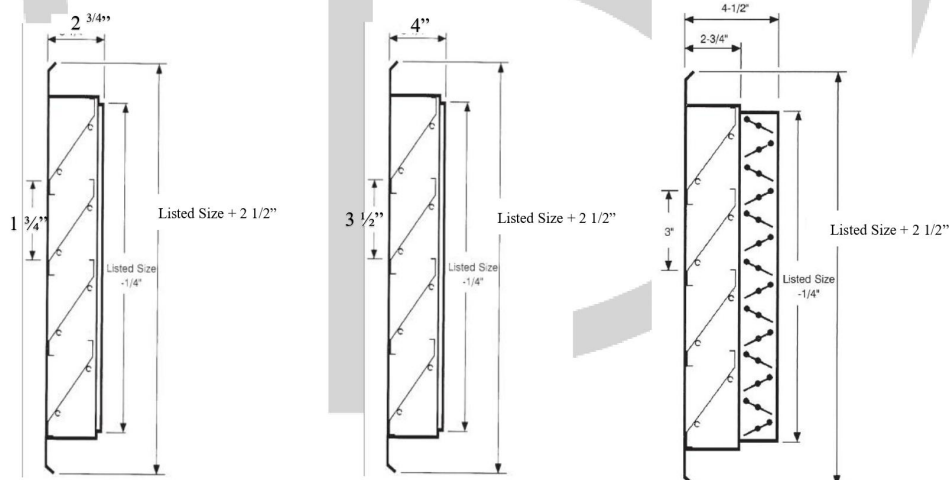
The frame & blades of Stationary Louvers are made of extruded Aluminium profiles making it lighter in weight, and corrosion resistant.

Blades are spaced 3" to the center and these blades are set at 45° to the horizontal plane

The frame and blades have thickness of 1.5 mm approx.

Wire mesh of aluminium alloy is used as bird screen and installed at interior face of louver.

Standard finish is white color for frame and blades under electrostatic polyester powder coated system. Any other color is available upon request.



## Technical Data Sheet



AirQon Synergies

Free Area of louvers are listed in this table:

Free area is (square feet)

Height (in)	Width (in)												
	12	14	16	18	20	24	30	36	42	48	54	60	72
12	0.22	0.26	0.30	0.34	0.38	0.46	0.58	0.70	0.82	0.94	1.06	1.18	1.42
16	0.37	0.43	0.50	0.57	0.64	0.77	0.98	1.18	1.38	1.59	1.79	1.99	2.40
20	0.52	0.61	0.71	0.80	0.90	1.09	1.38	1.66	1.95	2.24	2.52	2.81	3.38
24	0.67	0.79	0.91	1.04	1.16	1.41	1.78	2.15	2.52	2.89	3.26	3.63	4.37
28	0.82	0.97	1.12	1.27	1.42	1.72	2.18	2.63	3.08	3.54	3.99	3.99	5.35
32	0.97	1.04	1.32	1.50	1.68	2.04	2.58	3.11	3.65	4.18	4.72	5.26	6.33
36	1.12	1.32	1.53	1.74	1.94	2.36	2.98	3.60	4.22	4.84	5.46	6.08	7.32
40	1.27	1.50	1.73	1.97	2.20	2.67	3.38	4.08	4.78	5.49	6.19	6.89	8.30
44	1.41	1.68	1.94	2.20	2.46	2.98	3.78	4.55	5.34	6.12	6.91	7.69	9.26
48	1.57	1.86	2.15	2.44	2.73	3.31	4.18	5.05	5.92	6.79	7.66	8.53	10.27
52	1.72	2.03	2.35	2.67	2.99	3.62	4.58	5.53	6.48	7.44	8.39	9.34	11.25
56	1.87	2.21	2.56	2.90	3.25	3.94	4.98	6.01	7.05	8.08	9.12	10.16	12.33
60	2.02	2.39	2.76	3.14	3.51	4.26	5.38	6.50	7.62	8.74	9.86	10.98	13.22

For sizes not mentioned in table:

$$\text{Free Area} = (0.5 * H - 0.26) (W - 0.10)$$

\*\*\*where H = Height ; W = width

\*\*\* all dimensions in ft

To Calculate the air volume:

$$\text{CFM} = \text{Free Area} \times \text{Free Area Velocity}$$

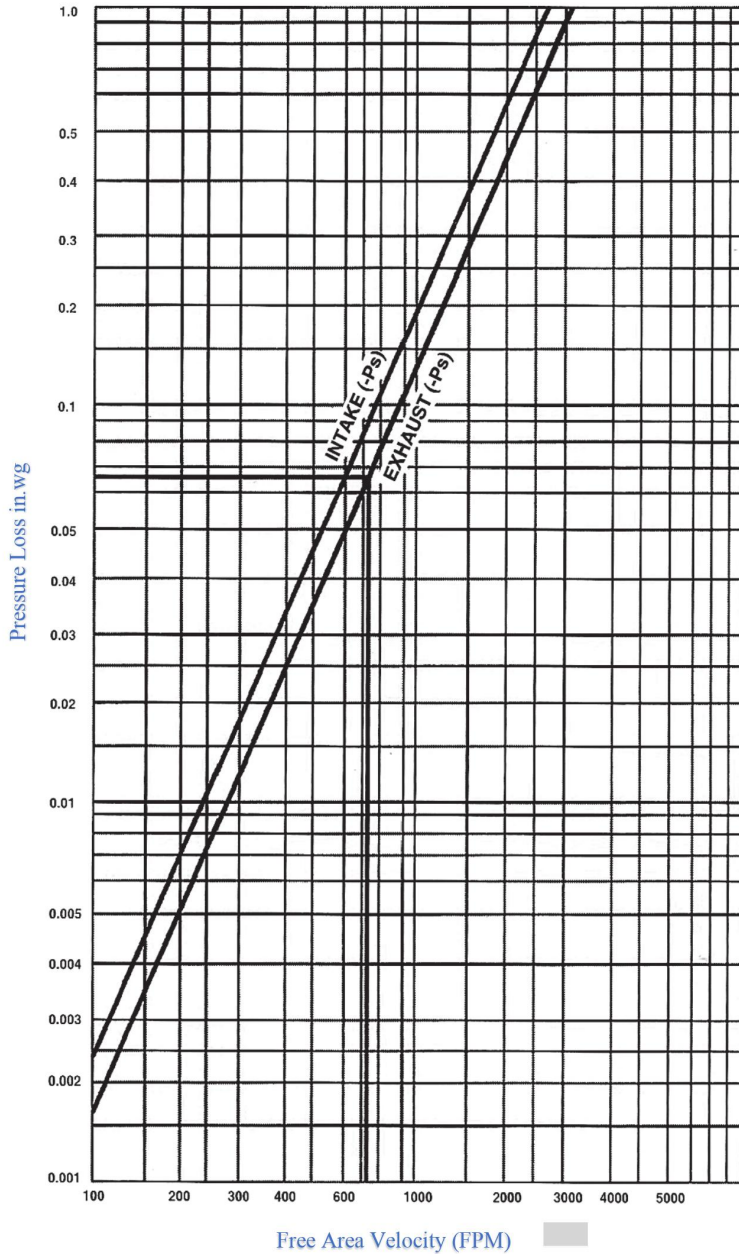
\*\*\* where Free area velocity can be

Measured with anemometer

# Technical Data Sheet



AirQon Synergies



Free Area Velocity can be determined using pressure drop from the graph given

For Example:

Exhaust Requirement of for 2500 CFM with a pressure drop of 0.067" WG is required:

Free Area Velocity from graph is showing 735 FPM. Free Area is determined by dividing the CFM by velocity.

i.e:

$$\frac{CFM}{FPM} = \frac{2500}{735} = 3.40$$

and from the table given above,

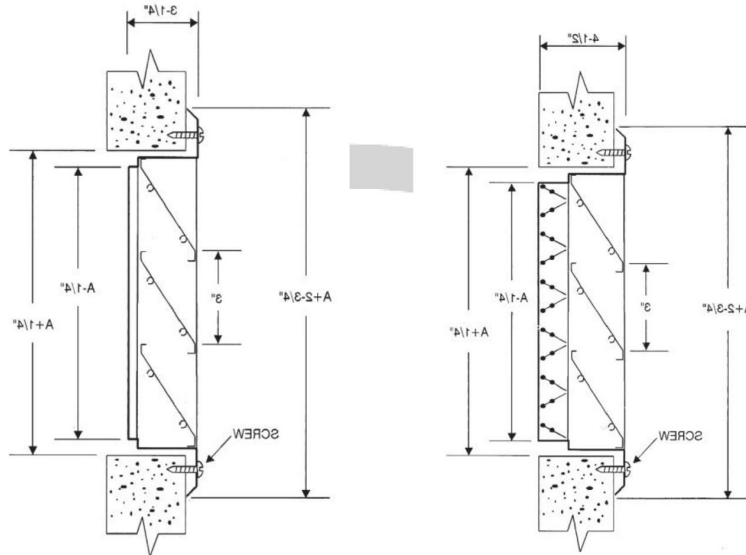
Louvers of sizes: 72" x 20" / 48" x 30" / 60" x 24" can be used

# Technical Data Sheet



AirQon Synergies

## Installation Guide:



## Options Available:

Opposed blade Volume Control Damper – Manually operated through handle using plastic spur gears

Washable Aluminium filters of thickness ( 0.75" / 1" / 2" ) sliding through frame fixed with louver.

