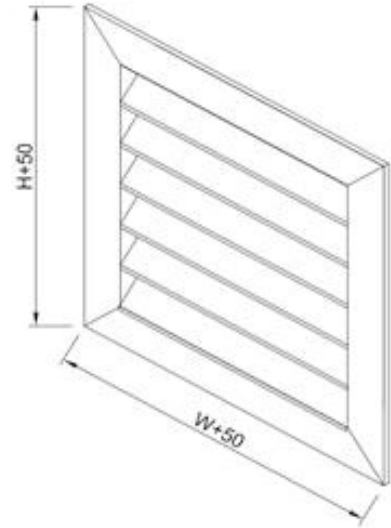


Product Information

Intake / Exhaust Louver : IL337

Caryaire Louver Model IL337 is well suited for Fresh Air Intake or Exhaust. It features an architecturally pleasing, broad frame containing horizontally fixed louvers at a 45 degree angle. The Louver are mechanically fastened to the frame. It is supplied with an Aluminium bird screen as standard or an optional metallic anti-insect screen . The Blade Pitch is 37mm. Options include a Filter frame and/or an Opposed Blade Damper mounted on the back of the Louver with its operating mechanism from the inside of the building. Available in Powder Coated Finish is Caryaire White (CW) or Caryaire Off White (CO)



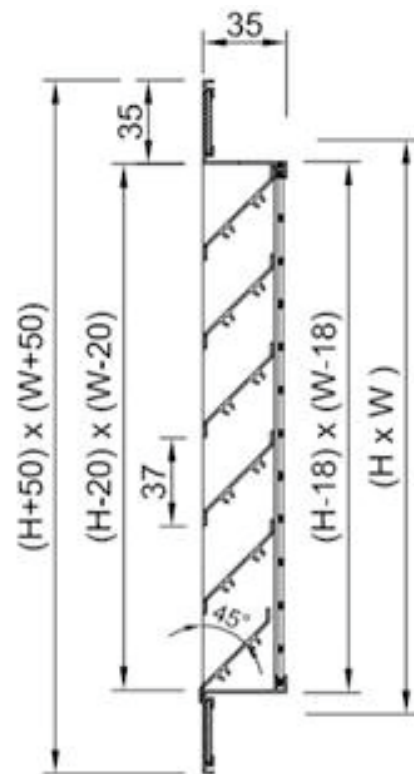
Min Size

150mm H x 150mm W

Max Size

1200mm H x 1800mm W

Maximum blade width without vertical mullion is 600mm



Product Information



Quick Selection Table For Exhaust and Intake

mm	Q	200x100	250x100	300x100	400x100	500x100	600x100	500x150	600x150	300x300	800x150	600x200	800x200	1000x200	1000x300	900x400	1000x600	
				200x150	200x200	350x150	400x150	400x200	450x200				500x250	600x250	800x250	750x400	700x500	
m3H	Ak	0.0051	0.0065	0.0079	0.0108	0.0133	0.0215	0.0272	0.0321	0.0402	0.0473	0.0479	0.0664	0.0809	0.1365	0.1758	0.3002	
50	A	2.7	2.1	1.8	1.3	1.0												
	B	12.0	7.4	5.0	2.7	1.8												
	C	25	20	16	9	5												
60	A	3.3	2.6	2.1	1.5	1.3	0.8											
	B	17.3	10.7	7.2	3.9	2.5	1.0											
	C	30	25	21	14	10												
70	A	3.8	3.0	2.5	1.8	1.5	0.9											
	B	23.5	14.5	9.8	5.3	3.5	1.3											
	C	34	29	24	18	13	3											
80	A	4.4	3.4	2.8	2.1	1.7	1.0											
	B	30.8	18.9	12.8	6.9	4.5	1.7											
	C	37	32	28	21	17	6											
90	A	4.9	3.8	3.2	2.3	1.9	1.2	0.9										
	B	38.9	24.0	16.2	8.7	5.7	2.2	1.4										
	C	40	35	31	24	20	9	4										
100	A	5.4	4.3	3.5	2.6	2.1	1.3	1.0										
	B	48.1	29.6	20.0	10.7	7.1	2.7	1.7										
	C	43	37	33	27	22	12	7										
160	A	6.8	5.6	4.1	3.3	2.1	1.6	1.4	1.1									
	B		75.7	51.3	27.4	18.1	6.9	4.3	3.1	2.0								
	C		49	45	38	34	24	19	15	10								
200	A		7.0	5.1	4.2	2.6	2.0	1.7	1.4									
	B			80.1	42.9	28.3	10.8	6.8	4.9	3.1								
	C			50	44	39	29	24	21	16								
250	A			6.4	5.2	3.2	2.6	2.2	1.7	1.5	1.4	1.0						
	B				67.0	44.2	16.9	10.6	7.6	4.8	3.5	3.4	1.8					
	C				49	45	35	30	26	21	18	18	11					
300	A				6.3	3.9	3.1	2.6	2.1	1.8	1.7	1.3	1.0					
	B					63.6	24.3	15.2	10.9	7.0	5.0	4.9	2.6	1.7				
	C					49	39	34	31	26	22	22	15	11				
400	A					5.2	4.1	3.5	2.8	2.3	2.3	1.7	1.4	0.8				
	B						43.3	27.0	19.4	12.4	8.9	8.7	4.5	3.1	1.1			
	C						46	41	38	33	30	29	22	18	7			
500	A						6.5	5.1	4.3	3.5	2.9	2.9	2.1	1.7	1.0			
	B							67.6	42.2	30.3	19.3	14.0	13.6	7.1	4.8	1.7		
	C							52	47	43	39	35	28	24	13			
600	A							6.1	5.2	4.1	3.5	3.5	2.5	2.1	1.2	0.9		
	B								60.8	43.7	27.8	20.1	19.6	10.2	6.9	2.4	1.5	
	C								51	48	43	40	39	32	28	17	12	
700	A								7.1	6.1	4.8	4.1	4.1	2.9	2.4	1.4	1.1	0.6
	B									82.8	59.4	37.9	27.4	26.7	13.9	9.4	3.3	2.0
	C									55	52	47	43	43	36	32	21	15
800	A										6.9	5.5	4.7	4.6	3.3	2.7	1.6	1.3
	B											77.6	49.5	35.8	34.9	18.1	12.2	4.3
	C											55	50	47	46	39	35	24
900	A											6.2	5.3	5.2	3.8	3.1	1.8	1.4
	B												62.7	45.3	44.1	23	15.5	5.4
	C												53	50	49	42	38	27
1000	A													6.9	5.9	5.8	4.2	3.4
	B														77.3	55.9	54.5	28.4
	C														56	52	52	45
1600	A															6.7	5.5	3.3
	B																72.6	48.9
	C																57	52
2000	A																6.9	4.1
	B																	76.4
	C																	58
3000	A																	6.1
	B																	
	C																	
3500	A																	
	B																	
	C																	
4000	A																	
	B																	
	C																	

Ak = Effective Area in Sqmtrs
 A = Effective Velocity in m/s
 B = Static Pressure in PA
 C= Noise Index in DB

NR = 20

NR > 40

NR > 40

Product Information

Example of a Selection :

Grille mounted in wall, for exterior air intake

Requirements :

Air flow rate-----	300 m ₃ /h
Application-----	Residence
Sound level-----	below 25 NR
Required pressure loss-----	below 5 Pa
Maximum permitted effective velocity-----	2 m/s

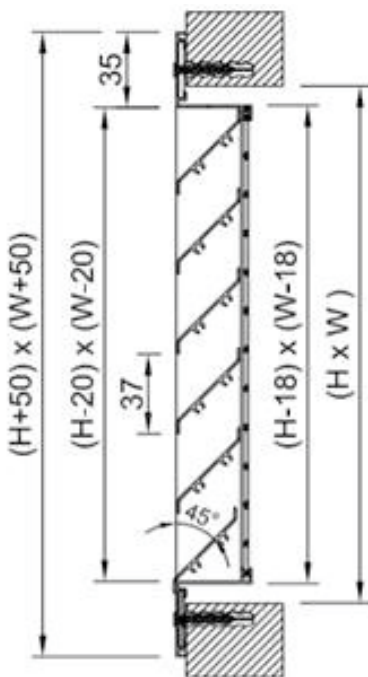
Selection :

With the above selection table we obtain :

Q (Air flow rate)-----	300 m ₃ /h
A (Effective velocity)-----	1,7 m/s
B (Pressure loss)-----	4,9 Pa
C (Sound level)-----	22

Model IL337 size 600 x 200, 500 x 250 or 400 x 300

Mounting Instruction



Suggested Specifications

Intake louver shall be installed at locations shown on plans. Intake/Exhaust Louver shall be with horizontal blades arranged at 45 degree angle and a blade pitch of 37mm. The Louver frame shall be of aluminium extrusion, 35mm deep. Louver sizing shall be selected as per manufacturer's data for Pressure Drop, Sound Power and Air Flow. Each Louver shall have an integrated Aluminium Bird screen. Vertical support shall be provided for blades over 600mm long. Provision for mounting optional opposed blade damper, operable from inside the building shall be available. The Louver shall be painted using Epoxy powder in Caryaire White or Caryaire off White shade. The Intake Louver shall be in all respects same as Caryaire Model IL337.