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group

MELUM

weather louvres

WL40	WL100	WL40R	WL50SF	SB
WL40B	WL100B	WL40R6	WL50SF88	SB88
WL40F	WL100F	WL40R8	WL50SF95	SB95
WL50SF		WL40R10	WL50SF97	SB97
		WL40R12	WL50SF168	SB168
		WL40R14		

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PRODUCT DATA SHEET

1 YR WARRANTY

WEATHER LOUVRES

Overview

idealair group supply various sizes and models of weather louvres to cater for most applications. All are manufactured from aluminium. The smaller weather louvre – WL40 – has a slimline design for smaller spaces ensuring low water ingress while maintaining maximum air flow at low noise levels. The larger weather louvre – WL100 – is designed for larger spaces and has a double water trap blade to ensure minimum ingress of water at higher air flow rates. Both louvres are designed to have blade mullions fitted when over certain lengths, ensuring greater strength to give better wind and vandal protection. The blade mullions also allow the weather louvres to be manufactured in very long lengths creating a strong blade join with a much straighter and aligned appearance. Both can be used in either supply or exhaust applications. WL40 & WL100 louvres have galvanised vermin deterrent mesh fitted to the rear and supplied with a natural anodised finish as standard. Powder coated colours are available by contacting your dealer.

WL40
Small weather louvre
– 50mm blade spacing

WL100
Large weather louvre
– 100mm blade spacing

WL40R
Small round weather louvre
– 50mm blade spacing

WL50SF
Small weather louvre
– 50mm blade spacing

Front view

Side view

Rear view

Front view

Side view

Rear view

Front view

Side view

Rear view

idealair group reserves the right to make changes to product without prior notice.

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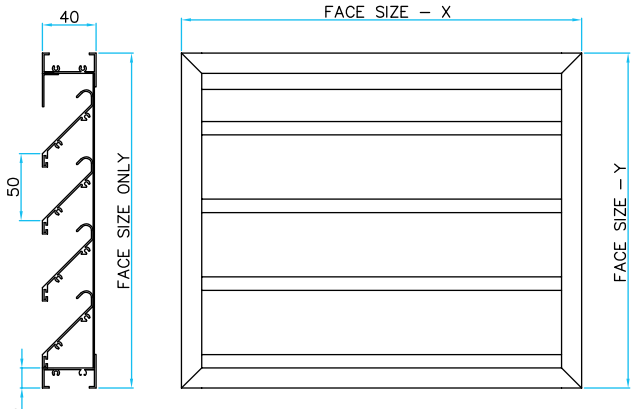
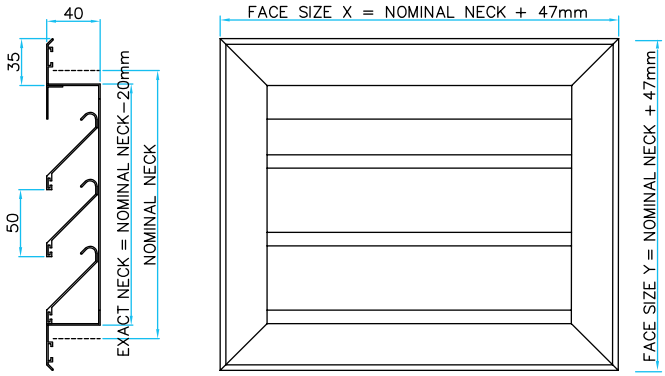
WL40 & WL100

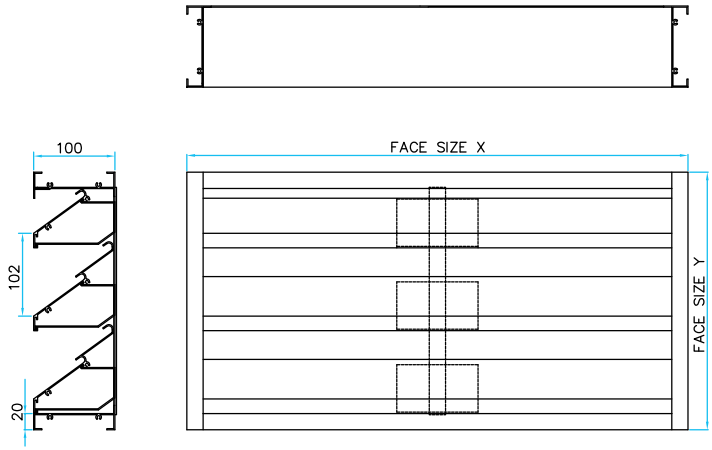
Note: The WL40 & WL100 can be adapted to fit to doors and the WL100 series make ideal plant room louvres.



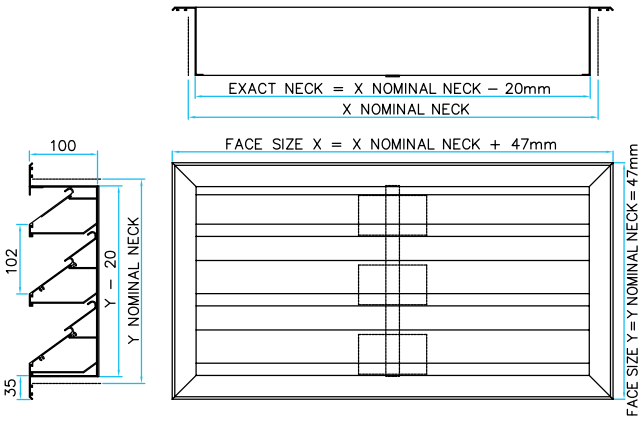
WL40B
BOX FRAMED WEATHER LOUVRE



WL40F
FLANGE FRAMED WEATHER LOUVRE



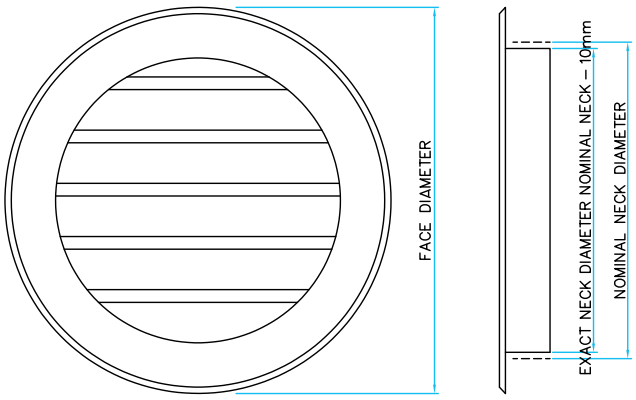
WL100B
BOX FRAME



WL100F
FLANGE FRAME

WL40R - Series of Round Weather Louvres

Various standard sizes of the WL40R round weather louvres are stocked. The louvres are manufactured from aluminium and come complete with vermon proof mesh. The standard finish is powder coated RAL9016. Other colours are available upon request.



WL40R
ROUND WEATHER LOUVRE

Product Codes

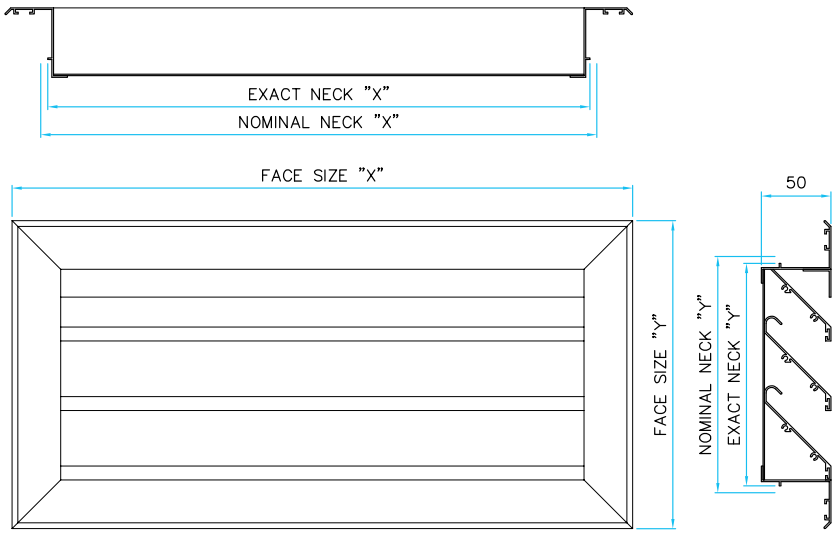
Product Code	Nominal Size Ø	Face Ø	Exact Neck Ø
WL40R6	150	198	140
WL40R8	200	250	190
WL40R10	250	305	240
WL40R12	300	355	290
WL40R14	350	407	340

Dimensions in millimetres

idealair group reserves the right to make changes to product without prior notice.

WL50SF - Series Weather Louvres

Various standard sizes of the WL50SF weather louvre are stocked. They are specifically designed to suit standard brick sizes. They are maunfactured from aluminium extrusion and come complete with vermon proof mesh.
A range of standard “push on” cushion boxes are aslo available to suit the WL50SF weather louvres.
The standard finish is natural anodised. Powder coated colours are available upon request.



WL50SF
SERIES WEATHER LOUVRE

Product Codes

Product Code	Nominal Size	Face Size X	Face Size Y	Exact Neck X	Exact Neck Y
WL50SF88	200 x 200	251	251	190	190
WL50SF95	235 x 120	286	171	225	110
WL50SF97	235 x 170	286	221	225	160
WL50SF168	400 x 200	451	251	390	190

Dimensions in millimetres

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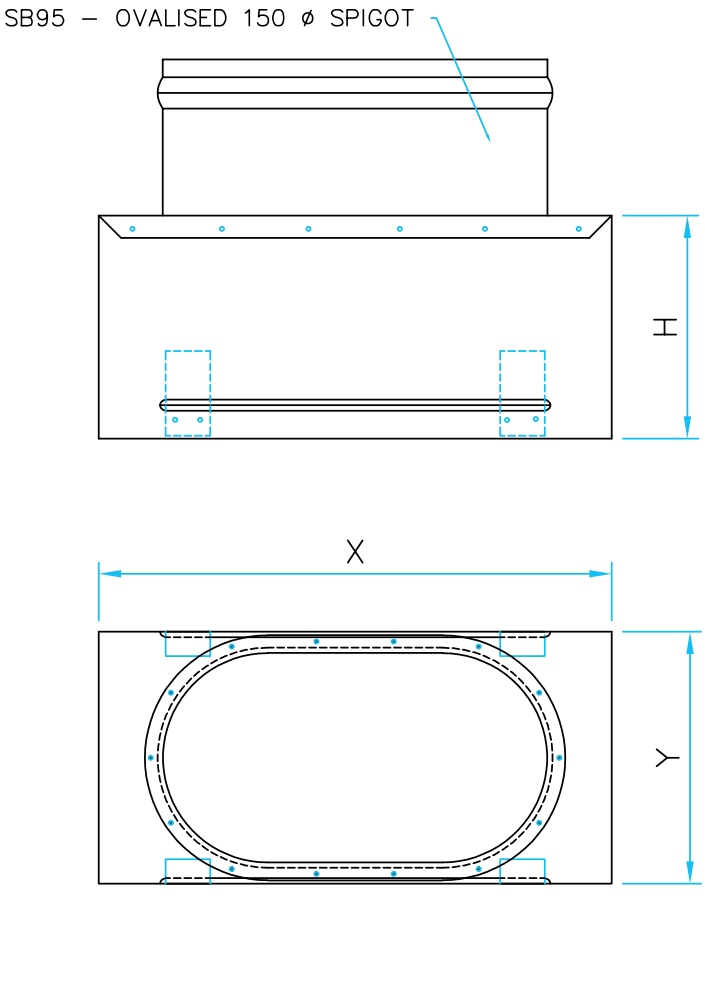
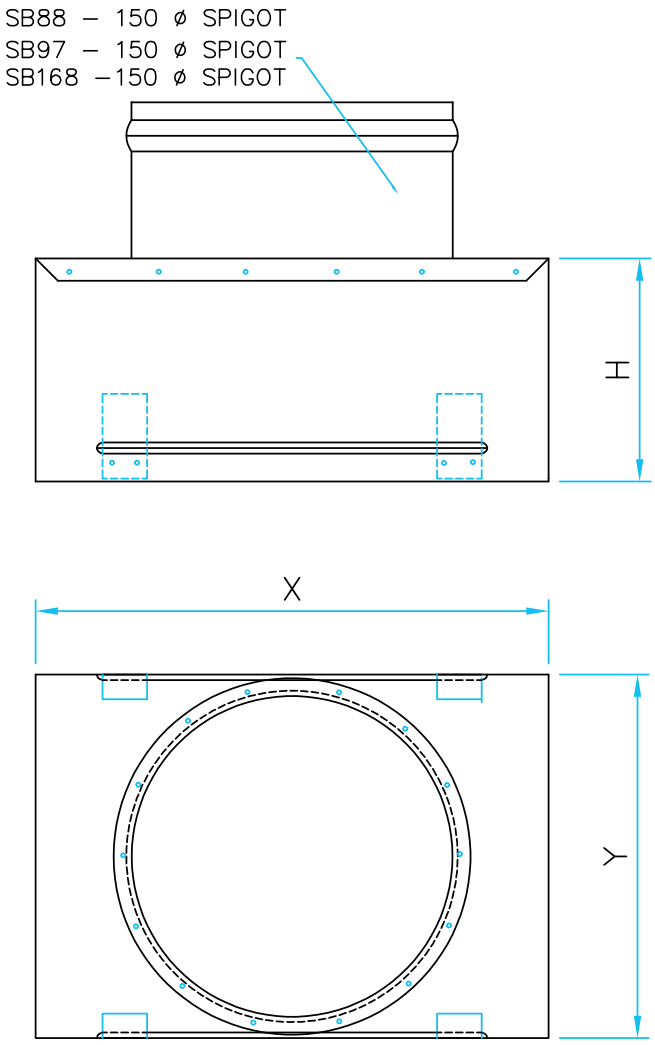
SB - Series "snap on" boxes to suit the WL50SF Weather Louvres



SB95 DETAILS



SB88, SB97 & SB168 DETAILS

Product Codes

Product Code	To Suit WL50SF	Dim. X	Dim. Y	Dim. H	Spigot Size Ø
SB88	WL50SF88	195	195	100	150
SB95	WL50SF95	230	120	100	150
SB97	WL50SF97	230	170	100	150
SB168	WL50SF168	395	195	100	150

Dimensions in millimetres

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Model WL40 - Weather Louvre Grille

Size (Nom.)																						
X Dim.	Y Dim.	Nom. Area (m^2)	Flow Rate (l/s)	10	20	30	50	75	100	150	200	300	400	500	600	1000	1500	2000	2500	3000	4000	5000	6000	7000
150	150	0.02	Pressure Drop (Pa)	3	10	23	62																	
200	200	0.04	Pressure Drop (Pa)	1	6	13	40																	
250	250	0.06	Pressure Drop (Pa)				5	11	22	44														
300	300	0.09	Pressure Drop (Pa)						13	28	50	115	200											
600	150	0.09																						
450	300	0.135	Pressure Drop (Pa)							12	20	48	80	130	200									
600	300	0.18	Pressure Drop (Pa)								12	25	45	70	100	280								
450	400	0.18																						
450	450	0.2025	Pressure Drop (Pa)								10	20	35	60	75	220								
600	450	0.27	Pressure Drop (Pa)									12	20	30	45	125	280							
900	300	0.27																						
600	600	0.36	Pressure Drop (Pa)										11	18	25	70	150	260						
900	400	0.36																						
900	450	0.405	Pressure Drop (Pa)										8	14	20	55	125	220	300					
900	600	0.54	Pressure Drop (Pa)											7	11	30	65	125	200	270				
1200	450	0.54																						
1200	600	0.72	Pressure Drop (Pa)												5	15	38	67	100	150	210			
900	900	0.81	Pressure Drop (Pa)												4	13	30	50	80	125	210	300		
1200	900	1.08	Pressure Drop (Pa)													7	11	28	45	62	120	180	250	
1200	1200	1.44	Pressure Drop (Pa)														9	16	25	35	60	100	150	200

Dimensions in millimetres.
AW40 has a free area of approx, 50%.
This data to be used for quick selection only, not to be used for commissioning.

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Model WL100 - Large Weather Louvre Grille

X Dim.	Y Dim.	Area (m^2)	Free Area (m^2)	Pressure (Pa)	5	10	15	20	30	40	50
500	**500**	**0.25**	**0.11**	**Flow (l/sec)**	225	285	340	400	455	510	570
750	**750**	**0.56**	**0.27**	**Flow (l/sec)**	540	675	810	945	1080	1215	1350
1000	**1000**	**1.00**	**0.51**	**Flow (l/sec)**	1010	1265	1520	1770	2025	2280	2535
1250	**1250**	**1.56**	**0.81**	**Flow (l/sec)**	1625	2035	2440	2850	3255	3660	4070
1500	**1500**	**2.25**	**1.20**	**Flow (l/sec)**	2400	3000	3600	4205	4805	5405	6005
1700	**1750**	**2.98**	**1.59**	**Flow (l/sec)**	3190	3985	4780	5580	6375	7175	7975
2000	**2000**	**4.00**	**2.15**	**Flow (l/sec)**	4300	5380	6455	7530	8605	9680	10750

Dimensions in millimetres.
This data to be used for quick selection only, not to be used for commissioning.

Free Area Factor

Nominal Height Y Dimension	Correction Factor (%)
300	0.45
500	0.5
750	0.51
1000	0.53
1250	0.54
1500	0.55
1750	0.55
2000	0.55

Dimensions in millimetres

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WEATHER LOUVRES

Order Details

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Example – To order a large Weather Louvre with a box frame, 1800mm long x 1200 wide in a natural anodised finish. NOTE: For the WL100B Weather Louvre dimensions are required for face size.

CODE = WL100B-1800-1200

Note: Contact your sales branch or sales representative if your desired product cannot be ordered by using the above ordering criteria.

WL____-_____-_____-_____

FINISH
NIL= Natural Anodised Finish

WL WIDTH
Y DIMENSION
NOTE: WL100F and WL40F = Nominal Dimension
NOTE: WL100B and WL40B = Face Dimension
All stated in millimetres

WL LENGTH
X DIMENSION
NOTE: WL100F and WL40F = Nominal Dimension
NOTE: WL100B and WL40B = Face Dimension
All stated in millimetres

MODEL
WL40F = Small Weather Louvre – Flange Frame
WL40B = Small Weather Louvre – Box Frame
WL100F = Large W/Louvre – Flange Frame
WL100B = Large W/Louvre – Box Frame

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