

Small Format Fixed Blade External Louvres YG-EF / YG-RF

Introduction

Series YG small format louvres are suitable for intake or exhaust systems where space or cost is at a premium. The design incorporates features of the WG system but at half the scale and this makes the YG ideal for small louvre applications, sheltered situations and even internal screening requirements.

Product Description

YGA-EF External flanged louvre 38mm pitch
YGA-RF Recessed frame louvre 38mm pitch
YGB-EF External flanged louvre 45mm pitch
YGB-RF Recessed frame louvre 45mm pitch
YGC-EF External flanged louvre 50mm pitch
YGC-RF Recessed frame louvre 50mm pitch
Note: The YGB/YGC are for sheltered locations only

Features

- Small format compact design
- Weather resistant design
- · Lightweight aluminium extrusions
- Flanged and recessed frame options
- Provision for blade alignment on continuous installations

Finishes

PPG9010 (RAL 9010 Gloss - 80% Gloss White)
PPM9010 (RAL 9010 Matt - 20% Gloss White)
PPM9006 (RAL 9006 Matt - 30% Gloss Silver)
Other colours or anodised finish available on request
Sizes

Nom. W 125 - 1200 mm Nom. H 115 - 1985 mm

For larger sizes please contact head office

Fixing

SF Screw Fixing
LF Rear Lug Fixing

STS Screw Through Stack fixing

NF No Fixing Screen Options

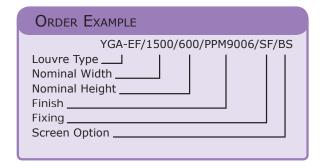
BS Galvanised steel bird screen IS Aluminium insect screen Other options available on request

Weights

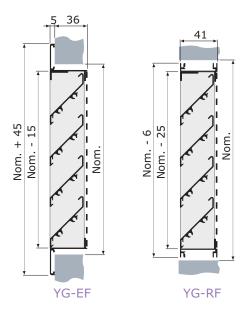
YG 10 kg/m² panel

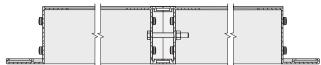
Advantages

- Lightweight, extruded aluminium frame and blade system
- · Rear rain trap profile on each blade

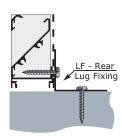








The above drawing shows a multiple YG-EF split along the width - Aluminium strips allow for expansion and contraction, due to changes in temperature.



Free Area					
YG					
19%- 47%					

External Louvres



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Selection Example

1500mm wide x 600mm high YG louvre handling 1200 l/s

Total air volume/width: 1200/1.5 = 800 l/s/m

From nomogram YGA (38mm pitch) YGB (45mm pitch)

dBA 45 44
Pa 11 9
Mean Jet Velocity 3.3 m/s 3.0 m/s

Free Area x width $0.21 \times 1.5 = 0.32 \text{m}^2 \quad 0.22 \times 1.5 = 0.33 \text{m}^2$

Frequency Spectrum Corrections (Hz)						
125	250	500	1k	2k	4k	
+6	+5	+2	0	-6	-12	

Static pressure scale is for exhaust applications with or without birdscreen.

A factor of 1.5 should be applied for intake louvres and a factor of 1.1 should be applied for Insect Screen. dBA is the noise rating of the louvre based on sound power level.

To determine octave band sound power levels, apply the correction factors shown to the dBA level.



