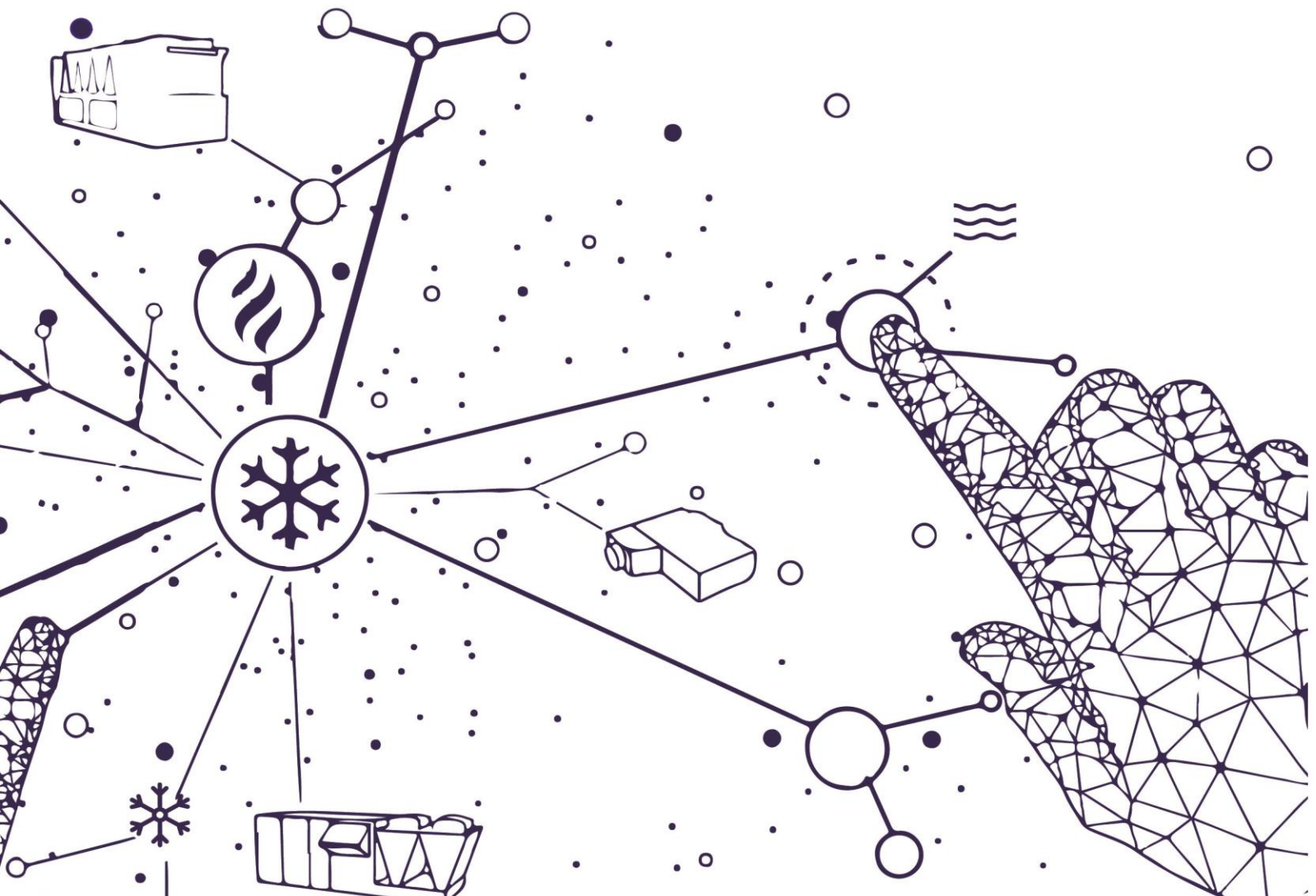
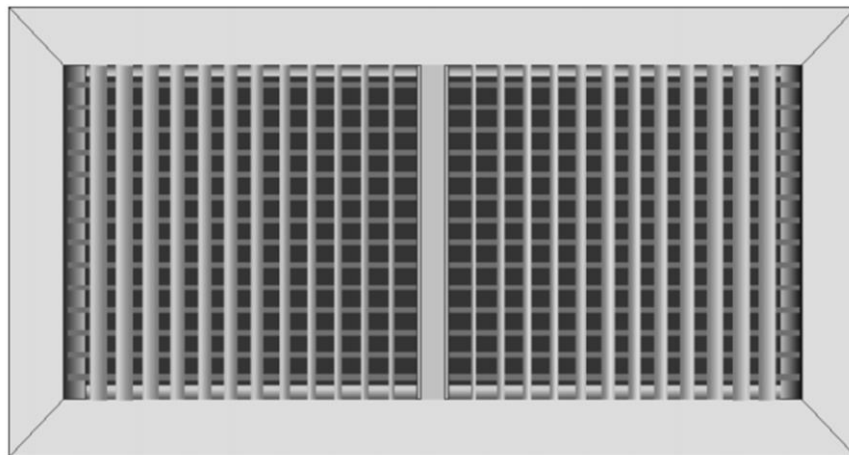


CLIMA VAC





Grilles & Registers



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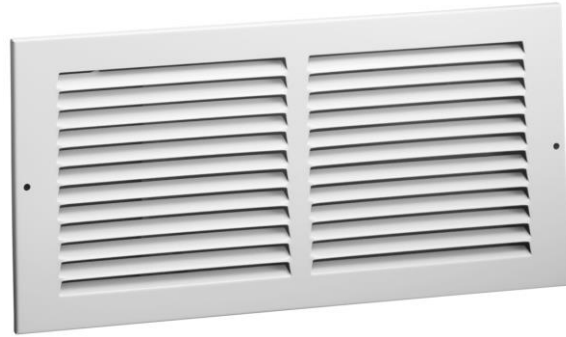
Description

Supply and return air grilles and registers are considered to be the most frequently used parts in any heating, ventilation and air conditioning (HVAC) systems.

Whether the grilles and registers are kept unobtrusive, or played up as decorative accents, their appearance and workmanship are as important as their performance. They are architectural as well as engineering products. With their taut, clean lines, solid construction, silence and controlled performance, Climavac grilles and registers are an excellent choice for all of your HVAC requirements

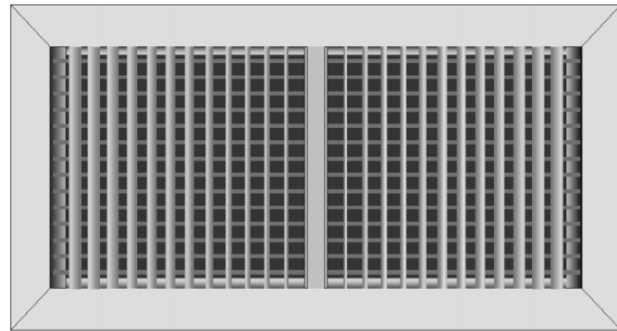
Climavac air grilles and registers

are designed to suite HVAC applications where a high side wall or exposed duct is required, they are also used for adjusting airflow patterns of air conditioned spaces and yet with an architectural appearance and curved – back frames.



Introduction

- Multi parallel and adjustable blade type with aero foil section of blades which allow a smooth and uniform pattern for quiet and low pressure drop application.
- Adjustable horizontal or vertical blades can be supplied to control the airflow pattern in either the horizontal or vertical planes.
- The frame is curved - back or flat form according to client requirements.

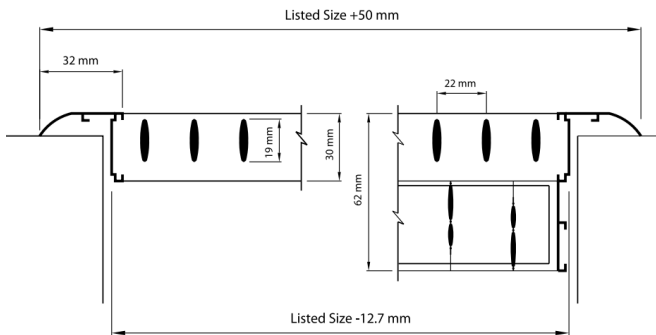


Description

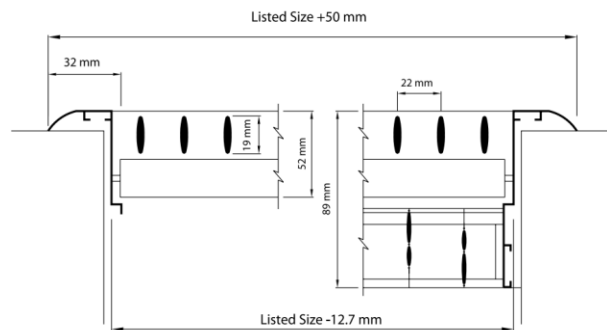
- High quality extruded aluminum in matt silver anodized finish for blades and frame.
- White electrostatic polyester powder coating finish is available as a standard. Other RAL standard colors are also available upon request.
- Gaskets are provided when specified as optional.
- Dampers are of extruded aluminum construction.

Types of Grille or register according to Blades deflection:

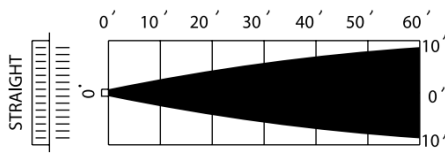
Single deflection



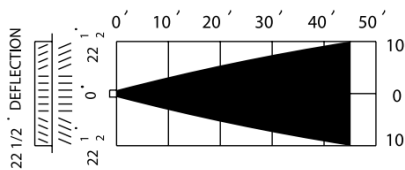
Double deflection



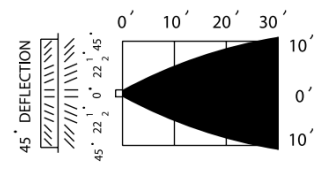
Deflection Settings



0° Deflection



22 1/2° Deflection



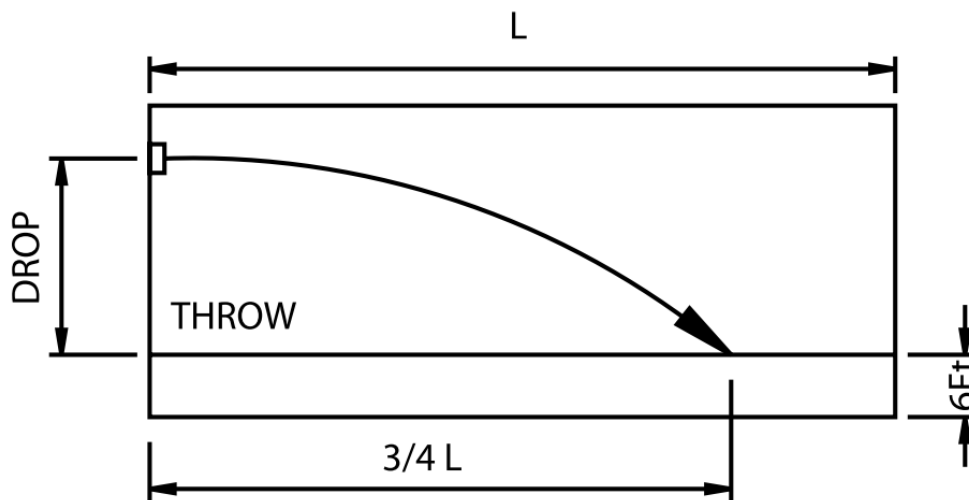
45° Deflection

The figures above show the air pattern of different blade settings. It is noted that the throw and drop will decrease as the angle of deflection increased.

Spread Requirements

The vane angle adjustment of grilles will affect the spread as follows:

- 1- For 0° deflection angle, the total spread of the air stream is one-third of the throw.
- 2- For 22.5° deflection angle, the total spread of the air stream is about 45 percent of the throw
- 3- For 45° deflection angle, the total spread of the air stream is two-third of the throw



The total drop of an air stream is the sum of drop due to throw and drop due to temperature difference of air in the room and air at the grille.

$$\text{Drop.}(D) = D_{\text{throw}} + D_{\text{dt}}$$

Products Quick Selection

Size (inch)	CFM range	Size (inch)	CFM range	Size (inch)	CFM range

12 x 6	100 - 300	12 x 8	150 - 400	12 x 10	150 - 450
16 x 6	150 - 350	16 x 8	175 - 500	16 x 10	200 - 600
18 x 6	200 - 400	18 x 8	200 - 550	18 x 10	250 - 700
20 x 6	200 - 450	20 x 8	225 - 625	20 x 10	275 - 800
24 x 6	225 - 525	24 x 8	250 - 750	24 x 10	325 - 1000
30 x 6	300 - 700	30 x 8	325 - 950	30 x 10	400 - 1200
36 x 6	350 - 900	36 x 8	400 - 1150	36 x 10	500 - 1400
Size (inch)	CFM range	Size (inch)	CFM range	Size (inch)	CFM range
12 x 12	200 - 550	16 x 14	300 - 850	24 x 18	600 - 1650
16 x 12	250 - 750	18 x 14	350 - 950	30 x 18	750 - 2100
18 x 12	300 - 850	20 x 14	400 - 1050	36 x 18	900 - 2500
20 x 12	325 - 925	24 x 14	450 - 1200	24 x 24	800 - 2300
24 x 12	400 - 1150	30 x 14	550 - 1600	30 x 24	1000 - 2800
30 x 12	500 - 1400	36 x 14	700 - 2000	36 x 24	1200 - 3200
36 x 12	600 - 1700	20 x 18	500 - 1400		



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